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Data Evaluation Summary Memorandum – Phase 1

AECOM conducted activities within the Phase 1 Reach of the Lower Neponset River Superfund Site between June and November of 2023. The Lower Neponset River Superfund Site (the Site) consists of a 3.7-mile section of the Neponset River between its confluence with the Mother Brook (in Hyde Park, Massachusetts) and the Walter Baker Chocolate Dam (in Dorchester/Milton, Massachusetts) (see **Figure 1**). The Phase 1 Reach of the Site includes the upper one mile stretch of the site between the Mother Brook and Neponset River confluence and the Tileston and Hollingsworth (T&H) Dam (see **Figure 1**). The data from activities conducted within the Phase 1 Reach will be used to support the comprehensive Remedial Investigation/Feasibility Study (RI/FS) for the 3.7-mile Site that will be conducted in the future. In addition, these data are being used to complete the engineering evaluation and cost analysis (EE/CA) for the Phase 1 Reach. The EE/CA will support a potential non-time critical removal action (NTCRA) of sediment contaminated with polychlorinated biphenyls (PCBs) within the Phase 1 Reach.

Activities completed within the Phase 1 Reach included:

- Sediment coring attempted at 70 locations between June 22nd and June 29th, 2023. Of the 70 locations where coring was attempted, it was possible to collect samples from 63 of the locations (7 locations were abandoned);
- Probing of sediment to refusal at 23 locations between June 23rd and June 30th, 2023;
- Floodplain soil boring attempted at 120 locations between July 18th and August 11th, 2023. Of the 120 locations where borings were attempted, it was possible to collect samples from 109 of the locations (11 locations were abandoned);
- Surface water sampling completed at 70 locations co-located with sediment locations, between October 16th and October 26th, 2023;
- Pore water sampling attempted at six locations co-located with sediment locations between October 25th and October 27th, 2023. Of the six locations where sampling was attempted, it was possible to collect samples from five of the locations; and
- Water level monitoring conducted using a transducer installed 500 feet upstream of the T&H Dam between March 30th and October 6th, 2023.

Phase 1 activities also included the following activities in reference locations (outside of the Site boundary):

- Surface sediment grab sampling attempted at 12 locations in the Mother Brook and 12 locations in the Upper Neponset River between October 30th and October 31st, 2023, and November 8th and November 10th, 2023. Of the 24 locations where surface grab sampling was attempted, it was possible to collect samples from the 12 locations in the Mother Brook and 10 of the 12 locations in the Upper Neponset River; and
- Surface water sampling completed at 12 locations co-located with sediment locations in the Mother Brook and 12 locations co-located with sediment locations in the Upper Neponset River between November 8th and November 10th, 2023.

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Phase 1 activities also included investigation derived waste (IDW) management.

Phase 1 activities were conducted in accordance with Revision 0 and 1 of the Unified Federal Policy Quality Assurance Project Plan (UFP-QAPP) (AECOM, 2023b,c) and the Work Plan for Geospatial Survey Activities (AECOM, 2023a). An overview of the data quality objectives (DQOs) for Phase 1, completed activities, UFP-QAPP deviations, and analytical results are provided in the following sections. Additional information is provided as the attachments, which include:

- **Attachment 1**: field forms,
- **Attachment 2**: sediment coring logs,
- **Attachment 3**: sediment photo log,
- **Attachment 4**: soil boring logs,
- **Attachment 5**: soil photo log,
- **Attachment 6**: river water level data, and
- **Attachment 7**: non-conformance reports.

Data Quality Objectives (DQOs)

The DQOs of the sampling program for the Phase 1 Reach were defined in the approved UFP-QAPP as follows:

- DQO1: Collect sediment samples for analysis of PCBs and physical properties in areas of known hot spots in order to complete the EE/CA for a potential NTCRA of sediments contaminated with PCBs that are impounded behind the T&H Dam and located in other sediment hot spots within the Phase 1 Reach.
- DQO2: Collect sediment samples for analysis of PCBs and physical properties throughout the area of investigation to identify additional hot spots in order to complete the EE/CA for a potential NTCRA of sediment contaminated with PCBs that is impounded behind the T&H Dam and located in other sediment hot spots within the Phase 1 Reach.
- DQO3: Use newly collected PCB sediment data as well as historical data, when appropriate, to perform a streamlined risk evaluation. The streamlined risk evaluation will focus on PCBs only and identify current or potential exposures that could be prevented by the implementation of a NTCRA of PCB hot spots in sediment.
- DQO4: Collect floodplain soil samples throughout the area of investigation to evaluate the presence or absence of target constituents, evaluate potential data gaps, and support the evaluation of receptor pathways.
- DQO5: Collect sediment, surface water, pore water, and floodplain soil throughout the area of investigation and sediment and surface water in reference areas to develop a dataset that can be used to support the comprehensive RI/FS for the 3.7-mile Site, including a risk assessment, that will be completed in the future.

Field Activities

Field activities included sediment sampling, jet probing, floodplain soil sampling, surface water sampling, pore water sampling, water level monitoring, and IDW management. Data related to the field activities were recorded in EQuIS Collect and logbooks. Copies of the logbooks are included in **Attachment 1**. Daily field reports are also included in **Attachment 1**.

Sample Nomenclature

During field activities samples were identified using the following nomenclature that included alpha (A) and numeric (N) characters:

- NNA – event identifier, 23A was used for sediment sampling, 23B was used for surface water sampling, 23C was used for pore water sampling, and 23D was used for floodplain soil sampling.
- NNNN – station identifier.
- AA – location identifier, for each unbiased sediment and floodplain soil sampling location a primary location (PL), back up location (B1), and second back up location (B2) were identified in the UFP-QAPP. These characters identified which of the three locations was used for the sample.

- A – media identified, C was used for core or grab sediment, W was used for surface water, P was used for pore water, and S was used for floodplain soil.
- N – core, grab or boring number identifier.
- A – depth identifier, A was used for the most surficial sample, and B, and C were assigned with increasing depth.
- A – sample type identifier, S was used for a normal sample and T was used for a duplicate sample.
- A – fraction identified for surface water and pore water samples, F was used for a field filtered sample and T was used for a total sample.

Sediment Sampling

Sediment coring was conducted at locations within the Phase 1 Reach in June 2023 and surface grab sampling was conducted at reference locations in the Mother Brook and the Upper Neponset River in October and November of 2023. The UFP-QAPP included 70 proposed locations within the Phase 1 Reach consisting of 60 unbiased coring locations within three strata (the north shallow zone, central deep zone, and south shallow zone), five biased coring locations adjacent to the Former Lewis Chemical Facility, and five biased coring locations upstream of the T&H Dam. The UFP-QAPP also included 24 proposed locations in reference areas consisting of 12 biased surface grab sampling locations in the Mother Brook and 12 biased surface grab sampling locations in the Upper Neponset River. The locations in the Mother Brook and the Upper Neponset River were included to characterize constituent concentrations upstream of the Phase 1 Reach in these reference areas. Of the 70 sediment sampling locations proposed in the UFP-QAPP within the Phase 1 Reach, sediment was collected from 63 out of 70 locations and seven locations were abandoned. More details on the reasons why locations were abandoned are included in **Table 2**. Of the 24 sediment sampling locations proposed in the UFP-QAPP within reference areas, sediment was successfully collected from 22 out of 24 locations, and two of the locations in the Upper Neponset River were abandoned. Locations where sediment was collected within the Phase 1 Reach and reference areas are shown on **Figures 2 and 3**, respectively, and coordinates are provided in **Table 1**. The respective river mile (RM) is also provided in **Table 1** for sediment sampling locations. RM were established for the Site starting at the Walter Baker Chocolate Dam (RM 0.00) and increasing in the upstream direction to the confluence with the Mother Brook (RM 3.66) subsequent to approval of the UFP-QAPP.

At sediment sampling locations within the Phase 1 Reach, sediment cores were advanced by Ocean Surveys, Inc. (OSI) to a target depth of 6 feet using vibracoring techniques. Total core depths for each location are included in **Table 2** and ranged from 0.5 feet to 6.3 feet. OSI collected multiple cores (using vibracoring) and/or surface sediment grabs (using a Petit Ponar Grab Sampler) to augment sample volume when necessary. At sediment locations within the Mother Brook and the Upper Neponset River, surface sediment grabs were collected by AECOM using a Petit Ponar Grab Sampler or hand auger. The cores and grabs were visually logged by a field geologist for lithologic characteristics, screened with a photoionization detector, and photographed. Lithologic information and photoionization detector readings above one part per million (ppm) are shown on the coring logs included in **Attachment 2**. Photographs are included in the photo log in **Attachment 3**.

Samples were collected from the cores from the Phase 1 Reach from the surface interval (0-0.5 feet), 0.5 feet to an intermediate depth, and the intermediate depth to the bottom of the core. The intermediate depth used for sampling was half the depth from 0.5 feet to the bottom of the core, or the depth at which there was an obvious change in lithology. Samples were collected from the surface grabs from the Mother Brook and the Upper Neponset River from the surface interval (0-0.5 feet). Sampling intervals are summarized in **Table 2**.

Samples were submitted for analysis of PCB congeners, polychlorinated dibenzodioxins/furans (PCDD/Fs), target analyte list (TAL) metals and mercury, total cyanide, target compound list (TCL) semi-volatile organic compounds (SVOCs), TCL pesticides, TCL volatile organic compounds (VOCs), total organic carbon (TOC), and grain size. Samples from the surface interval from the Phase 1 Reach were also submitted for analysis of acid volatile sulfide (AVS)/simultaneously extracted metals (SEM). Select samples had insufficient sediment mass for all the target analytes. This was the case for the 24 samples listed in Nonconformance Report NC-20230722-01, that is included in **Attachment 7**. For these samples, containers were filled using the following order of priority: PCB congeners, PCDD/Fs, TAL metals and mercury, total cyanide, TCL SVOCs, TCL pesticides, TCL VOCs, AVS/SEM (when applicable), TOC, and grain size. There was also one sample (23A-0011-B1C1-BS) for which sediment volume was submitted for analysis of PCB congeners and PCDD/Fs, however, the volume was not received by the laboratory. Additional details on this sample are included in Nonconformance Report NC-20230703-01 in **Attachment 7.** The analyte list for each sample is summarized in **Table 3**. Analytical methods and the laboratories that performed the analysis are summarized in **Table 4.**

Quality assurance/quality control (QA/QC) samples consisting of sample duplicates, matrix spikes/matrix spike duplicates (MS/MSDs), equipment blanks, performance evaluation (PE) samples, and trip blanks were collected in association with the sediment sampling in accordance with the UFP-QAPP.

Jet Probing

Jet probing was conducted by OSI at 23 locations within the Phase 1 Reach in June 2023. The locations included seven of the sediment sampling locations, six additional locations in the vicinity of the Former Lewis Chemical Facility, nine additional locations upstream of the T&H Dam, and one additional location near West Street. Locations where probing was conducted are shown on **Figure 4** and coordinates are provided in **Table 1**. The water depth and depth to refusal recorded at each location are summarized in **Table 5**.

Floodplain Soil Sampling

Floodplain soil sampling was conducted at locations within the Phase 1 Reach in July and August 2023. Floodplain soil sampling was not conducted in reference areas consistent with the approved UFP-QAPP. The UFP-QAPP included 60 unbiased boring locations in the floodplain along the northern bank of the Phase 1 Reach and 60 unbiased boring locations in the floodplain along the southern bank of the Phase 1 Reach. Of the 120 floodplain soil sampling locations proposed in the UFP-QAPP, soil was collected from 109 out of 120 locations and 11 locations were abandoned. More details on the reasons why locations were abandoned are included in **Table 6**. Locations where soil was collected are shown on **Figure 5** and coordinates are provided in **Table 1**.

Borings were advanced by AECOM to a target depth that was the shallower of: the groundwater table or refusal using hand augers or tile spades. Total boring depths for each location are included in **Table 6** and ranged from 0.15 to 4 feet. Borings were visually logged by a field geologist for lithologic characteristics, screened with a photoionization detector, and photographed. Lithologic information and photoionization detector readings are shown on the boring logs included in **Attachment 4**. Photographs are included in the photo log in **Attachment 5**.

From each boring, samples were collected from surface soil (0-1 feet) and subsurface soil from the deepest 1-foot of the boring, when possible. Sampling intervals are summarized in **Table 6**. Samples were submitted for analysis of PCB congeners, PCDD/Fs, TAL metals and mercury, TCL SVOCs, TCL VOCs, and asbestos. Select samples had insufficient soil mass for all the target analytes. This was the case for four samples (23D-0010-PLS1-AS, 23D-0013-PLS1-AS, 23D-0013-PLS1-AS, 23D-0016-PLS1-AS) which were analyzed for target analytes except TCL VOCs. Additional details on these samples are included in Nonconformance Report NC-20230720-01 in **Attachment 7** and the analyte list for each sample is summarized in **Table 7**. Analytical methods and the laboratories that performed the analysis are summarized in **Table 4.**

QA/QC samples consisting of sample duplicates, MS/MSDs, equipment blanks, PE samples, and trip blanks were collected in association with the floodplain soil sampling in accordance with the UFP-QAPP.

Surface Water Sampling

Surface water sampling was conducted at locations within the Phase 1 Reach in October 2023 and at reference locations in the Mother Brook and the Upper Neponset River in November of 2023. The UFP-QAPP included 94 proposed surface water sampling locations that were co-located with the 94 proposed sediment sampling locations. Surface water was collected from the vicinity of all 94 proposed locations. Locations where surface water was collected within the Phase 1 Reach and reference areas are shown on **Figures 6 and 7**, respectively, and coordinates are provided in **Table 1**.

Surface water samples were collected by AECOM from a vessel using a peristaltic pump. Within the Phase 1 Reach the vessel was operated by OSI. Within the Mother Brook and Upper Neponset River, the vessel was operated by AECOM. At each location the water depth was measured in order to determine the sampling depth(s). For locations within the Phase 1 Reach, if the water depth was less than 6 feet then a single sample was collected from the mid-point of the water column; this was the case at 56 of the 70 sampling locations within the Phase 1 Reach. If the water depth was greater than or equal to 6 feet, then samples were collected from a depth of one foot and from a depth 2 feet above the sediment water interface; this was the case at 14 of the 70 sampling locations within the Phase 1 Reach. For locations in reference areas, a single sample was collected from the mid-point of the water column. Sampling intervals are summarized in **Table 8**.

During sampling the intake tubing for the pump was placed at the deepest target depth, surface water was pumped until a volume equal to three times the tubing volume had been purged. A filter was then attached to the end of the tubing and samples for dissolved constituents (i.e., hexavalent chromium, dissolved TAL metals and mercury) were collected. Once the bottles for field-filtered hexavalent chromium and dissolved TAL metals and mercury were filled the filter was removed. Samples were then collected for TCL SVOCs, TCL pesticides, PCB congeners, PCDD/Fs, total TAL metals and mercury, total cyanide, and per- and polyfluoroalkyl substances (PFAS). Once the bottles for these parameters were filled, a sample for TCL VOC analysis was collected using the "soda straw" method. Following sample collection from the deepest target depth, the intake of the tubing was placed at the next target interval, purged, and sampled following the same procedure. All samples had sufficient surface water for analysis of the complete set of target analytes. Analytical methods and the laboratories that performed the analysis are summarized in **Table 4.**

During purging, field parameters (dissolved oxygen (DO), pH, oxidation reduction potential (ORP), conductivity, temperature) were measured. Field parameters are included in the analytical results tables.

QA/QC samples consisting of sample duplicates, MS/MSDs, equipment blanks, PE samples, trip blanks, and ambient blanks were collected in association with the surface water sampling in accordance with the UFP-QAPP.

Pore Water Sampling

Pore water sampling was conducted at locations within the Phase 1 Reach in October 2023. Pore water sampling was not conducted in reference areas consistent with the approved UFP-QAPP. The UFP-QAPP included 10 pore water sampling locations that had been picked at random from the 60 proposed unbiased sediment sampling locations within the Phase 1 Reach. Soft sediment was not present at many of the unbiased sediment sampling locations. As a result, the final pore water sampling locations were a random selection of six unbiased sediment sampling locations where soft sediment was present. Sample collection was only successful at five out of six locations and one location was abandoned. Locations where pore water was collected are shown on **Figure 8** and coordinates are provided in **Table 1**.

Pore water samples were collected by AECOM from a vessel using a henry sampler. The henry sampler was driven into the sediment such that the sample intake sat at a depth of approximately 0.5 feet. Sampling intervals are summarized in **Table 9.**

Pore water was collected from the sampler using a peristaltic pump. During sampling, a set of field parameters was collected (DO, pH, ORP, conductivity, temperature) from a grab of the surface water located immediately above the sediment/water interface and from the pore water that was initially extracted to confirm that pore water was being collected instead of surface water. The field parameters are included in the pore water collection forms included in **Attachment 1**. In order to collect a sample, a filter was attached to the end of the tubing and samples for dissolved constituents (dissolved TAL metals and mercury and dissolved organic carbon [DOC]) were collected. Once the bottles for field-filtered dissolved TAL metals and mercury and DOC were filled the filter was removed. Samples were then collected for PCB congeners, PCDD/Fs, priority pollutant (PP) polycyclic aromatic hydrocarbons (PAHs), and 1,4-dioxane (2 samples only). 1,4-dioxane was not a target analyte, however, the laboratory ran this analysis for two samples per the field chains of custody. All samples had sufficient pore water for analysis of the complete set of target analytes. However, analysis of PP PAHs was omitted by the laboratory. More details on this omission are included in the data validation memoranda. The data validation memoranda were included in the Phase 1 Data Validation Report that was submitted on August 16, 2024 (AECOM, 2024b). Analytical methods and the laboratories that performed the analysis are summarized in **Table 4.**

QA/QC samples consisting of sample duplicates, MS/MSDs, equipment blanks, and PE samples were collected in association with the pore water sampling in accordance with the UFP-QAPP.

Water Level Monitoring

Water level monitoring was conducted by OSI using a transducer installed 500 feet upstream of the T&H Dam between March 30th and October 6th, 2023. The location where the transducer was installed is shown on **Figure 1** and coordinates are provided in **Table 1**. River water elevations recorded at the transducer are included in **Attachment 6** and shown on **Figure 9**.

IDW Management

During the sampling programs, all efforts were taken to reduce the amount of IDW generated. No IDW was generated during the surface water and pore water sampling programs, and any extra soil remaining after sample collection was replaced down its borehole. IDW was generated during the sediment program between 6/22/23 through 6/29/23. Sediment remaining after sample processing was collected in three 55-gallon drums.

On 12/6/23, a representative primary and duplicate sample was collected by compositing and homogenizing subsamples of the three drums. These samples were submitted for analysis of VOCs, SVOCs, RCRA 8 Metals, PCBs, total petroleum hydrocarbons (TPH), reactivity, corrosivity, flammability, ignitability, herbicides and pesticides.

The analytical results were provided to AECOM's designated IDW subcontractor, Mill City Environmental on 12/20/23. After identifying a suitable facility for disposal, AECOM provided Mill City a copy of United States Environmental Protection Agencies (USEPA's) Off-Site Rule Compliance Request Form. After identifying Triumvirate Environmental Inc. in Lowell as the waste disposal facility, the Off-Site Rule Compliance Request Form was sent to USEPA for approval. Upon receiving USEPA approval, AECOM arranged for Mill City to pick up the IDW with AECOM oversight on 3/15/24.

UFP-QAPP Deviations

During field activities there were several deviations from the UFP-QAPP. The deviations were documented in nonconformance reports, which are summarized in **Table 10** and provided in **Attachment 7**.

Analytical Results

Following the receipt of the analytical results, AECOM validated the data as summarized in the Phase 1 Data Validation Report that was submitted on August 16, 2024 (AECOM, 2024b). Validated results of sediment, floodplain soil, surface water, and pore water are shown in **Tables 11, 15, 17,** and **21,** respectively**.** Summary statistics of the validated results including the number of samples, number of detections, and minimum, maximum, and average detected values are provided in **Tables 12, 13,** and **14,** for all sediment, Phase 1 Reach sediment, and reference area sediment, respectively, **Table 16** for soil**, Tables 18, 19,** and **20,** for all surface water, Phase 1 Reach surface water, and reference area surface water, respectively**,** and **Table 22** for pore water. Note that for these tables, the number of samples shown and the calculation of summary statistics treated the parent and duplicate samples as individual samples.

The tables of analytical results and summary statistics include a number of summed totals, including sums of PCB and PCDD/DF homolog groups and total PCB congeners. The totals for PCDD/DF and PCB homolog groups were calculated by summing the detected congeners in each group; if no congeners in a group were detected, the maximum reporting detection limit for any individual congener in that homolog group was used. The concentration of total PCB congeners was calculated as the sum of detected congeners in each sample.

Comparison of Analytical Results and Project Action Limits (PALs) in Tables

Within the validated analytical results tables, results are highlighted and/or underlined when the concentration is above the selected human health and ecological PALs, respectively. The summary statistics tables of the validated results also include the number of samples with concentrations above the human health and ecological PALs. The PALs were established Worksheet #15 in the UFP-QAPP to achieve an appropriate level of data quality. The PALs represent the lowest of the relevant human health and ecological screening levels that may be used in this or later stages of the Remedial Investigation/Feasibility Study process. Analytical results were compared to the PALs for information purposes and the comparison is not an indication of risk. The basis for the PALs for each media is discussed below.

The selected human health and ecological PALs for sediment were:

- Human health: USEPA regional screening levels (RSLs) for residential soil based on a target hazard quotient of 0.1 and a target risk level of 1E-06 (USEPA, 2024a).
- Ecological: USEPA Region 4 ecological screening values for freshwater sediment (USEPA, 2018).

The selected human health and ecological PALs for floodplain soil were:

- Human health: USEPA RSLs for residential soil based on a target hazard quotient of 0.1 and a target risk level of 1E-06 (USEPA, 2024a).
- Ecological: The lower of the ecological soil screening levels for soil invertebrates, plants, birds, and mammals derived in accordance with USEPA guidance (USEPA, 2005) and the USEPA Region 4 soil screening values for soil invertebrates, plants, birds, and mammals (USEPA, 2018).

The selected human health and ecological PALs for surface water were:

- Human health: The lower of the Massachusetts surface water quality standards, human health criteria for drinking water plus fish and shellfish consumption (MassDEP, 2022), Massachusetts maximum contaminant levels (MassDEP, 2020), National Recommended Water Quality Criteria for human health for consumption of water and organisms (USEPA, 2024d), USEPA maximum contaminant levels (USEPA, 2024b), and USEPA RSLs for tap water based on a target hazard quotient of 0.1 and a target risk level of 1E-06 (USEPA, 2024a).
- Ecological: The lower of the Massachusetts surface water quality standards, aquatic life criterion continuous concentration values for freshwater (MassDEP, 2022), National Recommended Water Quality Criteria aquatic life criterion continuous concentration values for freshwater (USEPA, 2024c), and USEPA Region 4 freshwater chronic screening values (USEPA, 2018).

Pore water did not have human health PALs. The selected ecological PALs for pore water were:

- Ecological: The lower of the Massachusetts surface water quality standards, aquatic life criterion continuous concentration values for freshwater (MassDEP, 2022), National Recommended Water Quality Criteria aquatic life criterion continuous concentration values for freshwater (USEPA, 2024c), and USEPA Region 4 freshwater chronic screening values (USEPA, 2018).

Analytical Results Figures

PCB congeners in sediment within Phase 1 Reach and reference areas, floodplain soil, surface water within Phase 1 Reach and reference areas, and pore water are shown in **Figures 10, 11, 13, 14, 15, and 16**, respectively. On the figures results below the 25th percentile, between the 25th and 50th percentile, between the 50th and 75th percentile, and above the 75th percentile are shown with blue, green, yellow, and red symbols, respectively. The percentiles were calculated using results from within the Phase 1 and were used in the legend to show the spatial distribution in concentrations.

Sediment Analytical Results

Sediment analytical results are shown in **Tables 11, 12, 13,** and **14** and the analytical results for total PCB congeners are shown on **Figures 10, 11,** and **12. Table 11** shows the analytical results for the 196 sediment samples (including 14 field duplicates) from the Phase 1 Reach (locations 0001 through 0070) and reference areas (locations 0071 through 0094). **Table 12** presents summary statistics for the combined Phase 1 Reach and reference area sediment samples. **Tables 11** and **12** indicate that detections in sediment include all PCDD/Fs except one (1,2,3,7,8,9-HxCDF), all PCB congeners except four (PCB-062, 184, 186, 204), all pesticides except four (alpha BHC, alpha endosulfan, beta BHC, and toxaphene), all metals, total cyanide, 33 of the 54 VOCs that were analyzed, and 33 of the 68 SVOCs that were analyzed.

Tables 13 and **14** show the summary statistics for the 172 sediment samples (including 12 field duplicates) from the Phase 1 Reach and the 24 sediment samples (including two duplicates) from the reference areas, respectively. Note that not all samples were analyzed for all constituents as a result of the volume issues discussed in the section titled Sediment Sampling. As shown in **Table 13**, based on a comparison of results for the Phase 1 Reach with the human health and ecological PALs, the following observations are made:

- PCDD/Fs: Of the 17 PCDD/Fs congeners analyzed for, 13 were detected above their respective human health PALs and 15 were detected above their respective ecological PALs. The PCDD/Fs congener responsible for the most exceedances of its human health PAL was 2,3,4,7,8-PeCDF; 83 out of 169 samples exceeded the human health PAL. The PCDD/Fs congener responsible for the most exceedances of its ecological PAL was also 2,3,4,7,8-PeCDF; 134 out of 169 samples exceeded the ecological PAL. The most toxic of all PCDD/Fs, 2,3,7,8-TCDD, was detected above the human health PAL and ecological PAL in 29 and 73 out of 169 samples, respectively.
- PCB Congeners: Total PCB congeners were detected above the human health PAL and ecological PAL in 153 and 164 out of 169 samples, respectively.

- Pesticides: Of the 21 pesticides analyzed for, three (delta-BHC, gamma-BHC, heptachlor epoxide) were detected above their respective human health PALs and 10 were detected above their respective ecological PALs. The pesticide responsible for the most exceedances of its human health PAL was heptachlor epoxide; six out of 167 samples exceeded the human health PAL. The pesticide responsible for the most exceedances of its ecological PAL was p,p'-DDT; 106 out of 167 samples exceeded the ecological PAL.
- Metals: Of the 23 metals analyzed for, 13 were detected above their respective human health PALs and 13 were detected above their respective ecological PALs. The metals responsible for the most exceedances of their human health PALs were total chromium, arsenic, iron, and cobalt; 170, 170, 167, and 166 out of 170 samples exceeded the human health PAL for these metals, respectively. The metal responsible for the most exceedances of its ecological PAL was barium; 140 out of 170 samples exceeded the ecological PAL.
- Total Cyanide: Total cyanide was detected above the human health PAL in one out of 171 samples. Total cyanide does not have an ecological PAL for sediment.
- VOCs: Of the 54 VOCs analyzed for, only one (vinyl chloride) was detected above its respective human health PAL and 11 were detected above their respective ecological PALs. Vinyl chloride was detected above the human health PAL in three out of 152 samples. The VOC responsible for the most exceedances of its ecological PAL was acetone; 71 out of 152 samples exceeded the ecological PAL. Acetone is a common laboratory contaminant.
- SVOCs: Of the 68 SVOCs analyzed for, four PAHs and two non-PAH were detected above their respective human health PALs and 17 PAHs and eight non-PAHs were detected above their respective ecological PALs. The SVOC responsible for the most exceedances of its human health PAL was 1-methylnaphthalene; 16 out of 169 samples exceeded the human health PAL. The SVOC responsible for the most exceedances of its ecological PAL was acenaphthene; 57 out of 169 samples exceeded the ecological PAL.

In the reference areas, fewer analytes were detected, and there were fewer analytes with concentrations above the PALs. As shown in **Table 14**, detections in the reference areas included all PCDD/Fs except one (1,2,3,7,8,9-HxCDF), 113 of the 167 PCBs that were analyzed, eight of the 21 pesticides that were analyzed, all metals, total cyanide, eight of the 54 VOCs that were analyzed, and 14 of the 68 SVOCs that were analyzed. Analytes with concentrations above PALs in the reference areas were as follows:

- PCDD/Fs: Of the 17 PCDD/Fs congeners analyzed for, 10 were detected above their respective human health PALs and 14 were detected above their respective ecological PALs. The PCDD/Fs congener responsible for the most exceedances of its human health PAL was 1,2,3,4,6,7,8-HpCDD; 12 out of 24 samples exceeded the human health PAL. The PCDD/Fs congener responsible for the most exceedances of its ecological PAL was 2,3,4,7,8-PeCDF; 24 out of 24 samples exceeded the ecological PAL. The most toxic of all PCDD/Fs, 2,3,7,8-TCDD, was not detected above the human health PAL but was detected above the ecological PAL in 13 out of 24 samples.
- PCB Congeners: Total PCB congeners were detected above the human health PAL and ecological PAL in 14 and 22 out of 24 samples, respectively.
- Pesticides: Of the 21 pesticides analyzed for, none were detected above their respective human health PALs and five (dieldrin, methoxychlor, and DDx isomers) were detected above their respective ecological PALs. The pesticide responsible for the most exceedances of its ecological PAL was p,p'-DDT; 14 out of 21 samples exceeded the ecological PAL.
- Metals: Of the 23 metals analyzed for, nine were detected above their respective human health PALs and 10 were detected above their respective ecological PALs. The metals responsible for the most exceedances of their human health PALs were total chromium, iron, and arsenic; 22, 21, and 20 out of 22 samples exceeded the human health PAL for these metals, respectively. The metal responsible for the most exceedances of its ecological PAL was barium; 20 out of 22 samples exceeded the ecological PAL.
- Total Cyanide: Total cyanide was not detected above the human health PAL in the 22 samples analyzed for total cyanide. Total cyanide does not have an ecological PAL sediment.
- VOCs: Of the 54 VOCs analyzed for, none were detected above their respective human health PALs and two (acetone, methylene chloride) were detected above their respective ecological PALs. Acetone and methylene chloride were detected above the ecological PAL in eight and one out of 21 samples, respectively.. Both analytes are common laboratory contaminants.
- SVOCs: Of the 68 SVOCs analyzed for, five PAHs were detected above their respective human health PALs and 12 PAHs and two non-PAHs (both phthalates) were detected above their respective ecological PALs. The SVOC responsible for the most exceedances of its human health PAL was benzo(b)fluoranthene; 14 out of 21 samples exceeded the human health PAL. The SVOC responsible for the most exceedances of its ecological PAL was also benzo(b)fluoranthene; 18 out of 21 samples exceeded the ecological PAL.

The sediment analytical data will be evaluated further in a risk assessment that will be completed in the future. PCB congeners in the Phase 1 Reach have also been evaluated in a Streamlined Risk Evaluation. The results of the Streamlined Risk Evaluation were used to inform an Engineering Evaluation and Cost Analysis (EE/CA) for a potential NTCRA. **Figures 10** and **11** show total PCB congeners in sediment within the Phase 1 Reach and reference areas, respectively. Total PCB congeners in sediment within the Phase 1 Reach were also visualized in three dimensions using C Tech Development Corporation's Earth Volumetric Studio (EVS) software. The visualization includes the total PCB congeners in sediment in addition to a basemap that is overlain on a digital elevation model created by merging bathymetric measurements and the bare earth portion of the Light Detection and Ranging (lidar) data that were collected as part of the Phase 1 reconnaissance activities. Additional information on the bathymetric and lidar data can be found in the Site Reconnaissance Summary Memorandum (AECOM, 2023c). An example view of the visualization is included in **Figure 12**.

Floodplain Soil Analytical Results

Floodplain soil analytical results are shown in **Tables 15** and **16,** and the analytical results for total PCB congeners are shown on **Figure 13. Table 15** shows the analytical results for the 147 floodplain soil samples (including nine field duplicates) from the Phase1 Reach, and **Table 16** presents summary statistics for the results. Note that not all samples were analyzed for all constituents as a result of the volume issues discussed in the section titled Floodplain Soil Sampling. As previously noted, floodplain soil samples were not collected from reference areas. **Tables 15** and **16** indicate that detections in floodplain soil include all PCDD/Fs, all PCB congeners except five (PCB-14, 76, 169, 186, 204), all metals, 12 of the 54 VOCs that were analyzed, 32 of the 68 SVOCs that were analyzed, and asbestos. Based on a comparison of the results with the human health and ecological PALs, the following observations are made:

- PCDD/Fs: Of the 17 PCDD/Fs congeners analyzed for, 13 were detected above their respective human health PALs and 14 were detected above their respective ecological PALs. The PCDD/Fs congener responsible for the most exceedances of its human health PAL was 2,3,4,7,8-PeCDF; 54 out of 147 samples exceeded the human health PAL. The PCDD/Fs congener responsible for the most exceedances of its ecological PAL was also 2,3,4,7,8-PeCDF; 65 out of 147 samples exceeded the ecological PAL. The most toxic of all PCDD/Fs, 2,3,7,8-TCDD, was detected above the human health PAL and ecological PAL in seven and 10 out of 147 samples, respectively.
- PCB Congeners: Total PCB congeners were detected above the human health PAL and ecological PAL in 119 and 136 out of 147 samples, respectively.
- Metals: Of the 23 metals analyzed for, 13 were detected above their respective human health PALs and 14 were detected above their respective ecological PALs. The metals responsible for the most exceedances of their human health PALs were total chromium, arsenic, iron, and cobalt; 146, 133, 124, and 116 out of 147 samples exceeded the human health PAL for these metals, respectively. The metals responsible for the most exceedances of their ecological PALs were mercury, vanadium, and lead; 134, 126, and 119 out of 147 samples exceeded the ecological PAL for these metals, respectively.
- VOCs: Of the 54 VOCs analyzed for, none were detected above their respective human health PALs or ecological PALs.
- SVOCs: Of the 68 SVOCs analyzed for, six PAHs were detected above their respective human health PALs and nine PAHs and six non-PAHs were detected above their respective ecological PALs. The SVOC responsible for the most exceedances of its human health PAL was benzo(a)pyrene; 70 out of 147 samples exceeded the human health PAL. The SVOCs responsible for the most exceedances of their ecological PAL were bis(2-ethylhexyl)phthalate and fluoranthene; 14 out of 147 samples exceeded the ecological PAL for each of these SVOCs.
- Asbestos: Asbestos was only detected in three out of 147 samples. Asbestos does not have a human health or ecological PAL for soil.

The ranges of results were also compared with the ranges of results measured in Phase 1 sediment. Based on this comparison, the maximum concentrations in sediment are generally higher for PCDD/F, total PCB congeners, and VOCs than in floodplain soil. However, for metals and SVOCs the maximum concentrations in sediment are higher than in floodplain soil for some analytes, but not for others. The floodplain soil analytical data will be evaluated further in a risk assessment that will be completed in the future. **Figure 13** shows total PCB congeners in soil in the Phase 1 Reach.

Surface Water Analytical Results

Surface water analytical results are shown in **Tables 17**, **18, 19,** and **20,** and the analytical results for total PCB congeners are shown on **Figures 14** and **15. Table 17** shows the analytical results for the 114 filtered (including six field duplicates) and 114 total fraction surface water samples (including six field duplicates) from the Phase 1 Reach (locations 0001 through 0070) and reference areas (locations 0071 through 0094). As previously noted, filtered samples were analyzed for hexavalent chromium, TAL metals, and mercury. Total fraction samples were analyzed for PCDD/Fs, PCB congeners, pesticides, TAL metals, mercury, total cyanide, PFAS, VOCs, and SVOCs. Note that total recoverable fraction concentrations for PCDD/Fs, PCB congeners, and other hydrophobic compounds may overestimate the bioavailable fraction in water. **Table 18** presents summary statistics for the combined Phase 1 Reach and reference area surface water samples. **Tables 17** and **18** indicate that detections in surface water include all PCDD/Fs except two (2,3,7,8-TCDD, 2,3,7,8-TCDF), 142 of the 173 PCB congeners, two pesticides in one sample each (beta endosulfan and methoxychlor), all metals except two (cadmium, thallium), total cyanide, 14 of the 24 PFAS that were analyzed, 22 of the 54 VOCs that were analyzed, and a single SVOC (phenol) in 11 samples. Hexavalent chromium was not detected in surface water.

Tables 19 and **20** show the summary statistics for the 88 filtered (including four duplicates) and 88 total fraction (including four duplicates) surface water samples from the Phase 1 Reach and the 26 filtered (including two duplicates) and 26 total fraction (including two duplicates) surface water samples from the reference areas, respectively. As shown in **Table 19**, based on a comparison of results for the Phase 1 Reach with the human health and ecological PALs, the following observations are made:

- PCDD/Fs: Of the 17 PCDD/Fs congeners analyzed for, four (1,2,3,4,6,7,8-HpCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,7,8,9-HxCDF, 1,2,3,4,6,7,8-HpCDF) were detected above their respective human health PALs and six were detected above their respective ecological PALs. The PCDD/Fs congener responsible for the most exceedances of its human health PAL was 1,2,3,4,7,8-HxCDD; 5 out of 88 samples exceeded the human health PAL. The PCDD/Fs congener responsible for the most exceedances of its ecological PAL was 1,2,3,4,6,7,8-HpCDF; 30 out of 88 samples exceeded the ecological PAL. The most toxic of all PCDD/Fs, 2,3,7,8-TCDD, was not detected above the human health or ecological PAL.
- PCB Congeners: Total PCB congeners were detected above the human health PAL and ecological PAL in 88 and seven out of 88 samples, respectively.
- Pesticides: Of the 21 pesticides analyzed for, none were detected above their respective human health PALs or ecological PALs.
- Total Metals: Of the 23 metals analyzed for, four (arsenic, cobalt, iron, manganese) were detected above their respective human health PALs and six (aluminum, copper, iron, lead, manganese, zinc) were detected above their respective ecological PALs. The metals responsible for the most exceedances of their human health PALs were arsenic and manganese; 88 out of 88 samples exceeded the human health PAL for each of these metals. The metals responsible for the most exceedances of their ecological PALs were lead and manganese; 88 and 86 out of 88 samples exceeded the ecological PAL for these metals, respectively..
- Dissolved Metals: Of the 23 metals analyzed for, seven (arsenic, beryllium, chromium, cobalt, iron, manganese, nickel) were detected above their respective human health PALs and seven (chromium, copper, iron, lead, manganese, nickel, zinc) were detected above their respective ecological PALs. The metal responsible for the most exceedances of its human health PALs was manganese; 88 out of 88 samples exceeded the human health PAL. The metal responsible for the most exceedances of its ecological PALs was also manganese; 65 out of 88 samples exceeded the ecological PAL.
- Total Cyanide: Total cyanide was detected above the human health PAL and ecological PAL in 18 and nine out of 88 samples, respectively.
- PFAS: Of the 24 PFAS analyzed for, two (perfluorooctanesulfonic acid [PFOS], perfluorooctanoic acid [PFOA]) were detected above their respective human health PALs and none were detected above their respective ecological PALs. PFOS and PFOA were detected above their respective human health PALs in 86 and 11 out of 88 samples, respectively.
- VOCs: Of the 54 VOCs analyzed for, five (1,2,4-trichlorobenzene, benzene, cis-1,2-dichloroethylene, trichloroethylene, vinyl chloride) were detected above their respective human health PALs and none were detected above their respective ecological PALs. The VOC responsible for the most exceedances of its human health PAL was vinyl chloride; 5 out of 88 samples exceeded the human health PAL.
- SVOCs: Of the 68 SVOCs analyzed for, none were above the human health or ecological PAL.
- Hexavalent Chromium: Hexavalent chromium was not detected in the 88 samples that were analyzed for this analyte.

In the reference areas, fewer analytes were detected, and fewer analytes were measured at concentrations above the PALs, with the exception of PCDD/Fs. As shown in **Table 20**, detections in the reference areas included all PCDD/Fs except two (2,3,7,8-TCDD, 2,3,7,8-TCDF), 130 of the 173 PCB congeners that were analyzed, all metals except five (beryllium, cadmium, mercury silver, thallium), total cyanide in four samples, 14 of the 24 PFAS that were analyzed, one VOC (chloromethane) in one sample, and one SVOC (phenol) in seven samples. Hexavalent chromium and pesticides were not detected in surface water from the reference areas. Analytes with concentrations above PALs in the reference areas were as follows:

- PCDD/Fs: Of the 17 PCDD/Fs congeners analyzed for, 13 were detected above their respective human health PALs and 15 were detected above their respective ecological PALs. The 13 congeners with detections above their respective human health PALs had concentrations above the PAL in one or two out of 26 samples. The PCDD/Fs congener responsible for the most exceedances of its ecological PAL was 1,2,3,4,6,7,8-HpCDF; 10 out of 26 samples exceeded the ecological PAL. The most toxic of all PCDD/Fs, 2,3,7,8-TCDD, was not detected above the human health PAL or ecological PAL.
- PCB Congeners: Total PCB congeners were detected above the human health PAL and ecological PAL in 26 and one out of 26 samples, respectively.
- Pesticides: Pesticides were not detected in the 26 samples that were analyzed for this analyte.
- Total Metals: Of the 23 metals analyzed for, three (arsenic, iron, manganese) were detected above their respective human health PALs and five (aluminum, iron, lead, manganese, zinc) were detected above their respective ecological PALs. The metals responsible for the most exceedances of their human health PALs were arsenic and manganese; 26 out of 26 samples exceeded the human health PAL for each of these metals. The metal responsible for the most exceedances of its ecological PALs was lead; 20 out of 26 samples exceeded the ecological PAL.
- Dissolved Metals: Of the 23 metals analyzed for, two (arsenic, manganese) were detected above their respective human health PALs and five (aluminum, iron, lead, manganese, zinc) were detected above their respective ecological PALs. Arsenic and manganese were each detected above their respective human health PALs in 26 out of 26 samples. The metal responsible for the most exceedances of its ecological PALs was manganese; 16 out of 26 samples exceeded the ecological PAL.
- Total Cyanide: Total cyanide was detected above the human health PAL in four out of 26 samples and was not detected above the ecological PAL.
- PFAS: Of the 24 PFAS analyzed for, two (PFOS and PFOA) were detected above their respective human health PALs and none were detected above their respective ecological PALs. The PFAS responsible for the most exceedances of its human health PALs was PFOS; 13 out of 26 samples exceeded the human health PAL.
- VOCs: Of the 54 VOCs analyzed for, none were above the human health PAL or ecological PAL.
- SVOCs: Of the 68 SVOCs analyzed for, none were above the human health PAL or ecological PAL.
- Hexavalent Chromium: Hexavalent chromium was not detected in the 26 samples that were analyzed for this analyte.

The surface water analytical data will be evaluated further in a risk assessment that will be completed in the future. **Figures 14** and **15** show total PCB congeners in surface water in the Phase 1 Reach and reference areas, respectively.

Pore Water Analytical Results

Pore water analytical results are shown in **Tables 21** and **22,** and the analytical results for total PCB congeners are shown on **Figure 16. Table 21** shows the analytical results for the six filtered (including one duplicate) and seven total fraction (including two duplicates) pore water samples from the Phase 1 Reach, and **Table 22** presents summary statistics for the results. As previously noted, pore water samples were not collected from reference areas. As also previously noted, filtered samples were analyzed for TAL metals, mercury, and DOC. Total fraction samples were analyzed for PCDD/Fs, PCB congeners, TAL metals, mercury, and 1,4-dioxane. Note that not all samples were analyzed for all constituents as discussed in the section title Pore Water Sampling. Also note that total recoverable fraction concentrations for PCDD/Fs and PCB congeners may overestimate the bioavailable fraction in water. **Tables 21** and **22** indicate that detections in pore water include all PCDD/Fs except two (1,2,3,7,8-PeCDD, 2,3,7,8-TCDD), all PCB congeners except nine (PCB-080, 088, 115, 127, 160, 169, 184, 192, 204), 18 of 23 metals that were analyzed, and 1,4-dioxane. Human health PALs are not applicable to pore water. Based on a comparison of the results with the ecological PALs, the following observations are made:

- PCDD/Fs: Of the 17 PCDD/Fs congeners analyzed for, 14 were detected above their respective ecological PALs. The PCDD/Fs congeners responsible for the most exceedances of their respective ecological PALs were

1,2,3,4,6,7,8-HpCDF and OCDD; five out of six samples exceeded the ecological PAL for each of these analytes. The most toxic of all PCDD/Fs, 2,3,7,8-TCDD, was not detected above the ecological PAL.

- PCB Congeners: Total PCB congeners were detected above the ecological PAL in six out of six samples.
- Total Metals: Of the 23 metals analyzed for, eight were detected above their respective ecological PALs. The metals responsible for the most exceedances of their ecological PALs were iron, lead, aluminum, and manganese; six, six, five, and five out of six samples exceeded the ecological PAL for these metals, respectively.
- Dissolved Metals: Of the 23 metals analyzed for, five (aluminum, barium, calcium, iron, manganese) were detected above their respective ecological PALs. The metals responsible for the most exceedances of their ecological PALs were iron and manganese; five out of six samples exceeded the ecological PAL for each of these metals.
- 1,4-Dioxane: 1,4-Dioxane was only analyzed in two samples. The two samples had detected concentrations that were below the ecological PAL.

The pore water analytical results will be used in an ecological risk assessment that will be completed in the future. **Figure 16** shows total PCB congeners in pore water in the Phase 1 Reach.

Field Parameters

During the surface water sampling, field parameters were measured while purging. Field parameters measured during purging are included in **Table 18**. During pore water sampling a set of field parameters was collected from a grab of the surface water located immediately above the sediment/water interface and from the pore water that was initially extracted to confirm that pore water was being collected instead of surface water. The parameters measured during pore water sampling are included in the pore water collection forms included in **Attachment 1**.

References

AECOM, 2023a. Final Work Plan for Geospatial Survey Activities. March 2023.

AECOM, 2023b. Final Quality Assurance Project Plan Revision 1. Remedial Investigation/Feasibility Study. Lower Neponset River Superfund Site. October 2023.

AECOM, 2023c. Final Site Reconnaissance Summary Memorandum. December 2023.

AECOM, 2024a. DRAFT Streamlined Risk Evaluation (SRE). Submitted to USEPA Region 1 on July 29, 2024.

AECOM, 2024b. DRAFT Data Validation Memorandum. Submitted to USEPA Region 1 on August 16, 2024.

AECOM, 2024c. DRAFT Engineering Evaluation and Cost Analysis (EE/CA). Submitted to USEPA Region 1 August 19, 2024.

Massachusetts Department of Environmental Protection, 2020. 310 CMR 22.00. Drinking Water. Effective date October 2, 2020.

Massachusetts Department of Environmental Protection, 2022. 310 CMR 4.00. Massachusetts Surface Water Quality Standards. Effective January 7, 2022.

USEPA, 2005. Guidance for Developing Ecological Soil Screening Levels. Office of Emergency and Remedial Response Washington D.C., November 2003, Revised February 2005. Available at https://www.epa.gov/chemical-research/ecological-soil-screening-level.

USEPA, 2018. Supplemental Guidance to ERAGS: Region 4, Ecological Risk Assessment. Originally published November 1995 and updated March 2018.

USEPA, 2024a. Regional Screening Level Table. May 2024. Available at https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables.

USEPA, 2024b. National Primary Drinking Water Regulations. Accessed on June 13, 2024. Available at https://www.epa.gov/ground-water-and-drinking-water/national-primary-drinking-water-regulations.

USEPA, 2024c. National Recommended Water Quality Criteria for Aquatic Life. Accessed on June 13, 2024. Available at https://www.epa.gov/wqc/national-recommended-water-quality-criteria-aquatic-life-criteria-table.

USEPA, 2024d. National Recommended Water Quality Criteria for Human Health. Accessed on June 13, 2024. Available at https://www.epa.gov/wqc/national-recommended-water-quality-criteria-human-health-criteria-table.

Tables

Table 1
Location Coordinates
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location ID	Easting (ft) (a)	Northing (ft) (a)	River Mile
Phase 1 Reach Sediment Coring Locations			
23A-0001-PLC1	758309.05	2917085.81	3.62
23A-0002-PLC2	758565.3	2917148.51	3.58
23A-0003-PLC1	758736.25	2917164.17	3.54
23A-0004-B2C1	759050.93	2917214.56	3.48
23A-0005-PLC1	759226.54	2917407.47	3.43
23A-0006-PLC2	759386.09	2917609.68	3.38
23A-0007-PLC1	759489.38	2917846.24	3.33
23A-0008-PLC1	759667.87	2918050.1	3.28
23A-0009-PLC1	759843.67	2918239.14	3.23
23A-0009-PLC2	759845.49	2918238.66	3.23
23A-0010-PLC1	760024.37	2918416.35	3.18
23A-0011-B1C1	760166.26	2918622.44	3.13
23A-0012-PLC1	760278.18	2918837.26	3.09
23A-0012-PLC2	760278.18	2918837.26	3.09
23A-0013	Abandoned		
23A-0014-PLC1	760485.43	2919283.9	2.99
23A-0014-PLC2	760485.43	2919283.9	2.99
23A-0015-PLC1	760667.57	2919473.69	2.94
23A-0016	Abandoned		
23A-0017	Abandoned		
23A-0018-PLC1	761148.3	2920069.9	2.79
23A-0019-B2C2	761306.89	2920293.17	2.74
23A-0020-PLC1	761542.78	2920442.91	2.69
23A-0020-PLC2	761540.98	2920443.85	2.69
23A-0021-PLC1	758196.88	2916944.8	3.65
23A-0022-PLC1	758398.24	2917078.33	3.61
23A-0023-B2C1	758652.01	2917124.86	3.56
23A-0023-B2C2	758653.41	2917125.11	3.56
23A-0024-PLC2	758905.59	2917140.46	3.51
23A-0025-B1C1	759126.41	2917268.74	3.46
23A-0025-B1C2	759127.96	2917269.64	3.46
23A-0026-B1C1	759292.28	2917468.62	3.41
23A-0027-PLC1	Abandoned		
23A-0028-PLC2	759568.29	2917896.08	3.31
23A-0029-PLC1	759764.14	2918061.6	3.27
23A-0030-PLC1	759944.34	2918253.43	3.22
23A-0031-PLC1	760082.41	2918474.12	3.17
23A-0032-PLC1	760224	2918689.64	3.12
23A-0033-B2C1	760266.39	2918914.72	3.07
23A-0033-B2C3	760263.07	2918914.71	3.07
23A-0034-PLC1	760366.65	2919158.76	3.02

Table 1
Location Coordinates
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location ID	Easting (ft) (a)	Northing (ft) (a)	River Mile
Phase 1 Reach Sediment Coring Locations (cont)			
23A-0034-PLC2	760366.65	2919158.76	3.02
23A-0035	Abandoned		
23A-0036-PLC3	760731.68	2919524.12	2.92
23A-0037-B2C1	760952.24	2919680.58	2.87
23A-0038	Abandoned		
23A-0039-PLC1	761221.27	2920118.42	2.78
23A-0040-PLC1	761395.22	2920307.18	2.73
23A-0041-PLC1	758313.67	2917037.16	3.63
23A-0042-PLC1	758491.12	2917087.92	3.59
23A-0043-PLC1	758739.4	2917132.68	3.54
23A-0044-PLC1	759011.83	2917143.54	3.49
23A-0045-PLC3	759212.39	2917323.02	3.44
23A-0046-PLC1	759381.81	2917516.97	3.39
23A-0046-PLC2	759381.81	2917516.97	3.39
23A-0047	Abandoned		
23A-0048-PLC1	759659.77	2917951.83	3.29
23A-0049-B2C1	759838.04	2918131.51	3.25
23A-0050-B2C1	760016.64	2918320.79	3.2
23A-0051-PLC1	760187.43	2918521.01	3.15
23A-0052-PLC1	760291.73	2918775.71	3.1
23A-0053-B1C1	760302.09	2918992.98	3.05
23A-0054-PLC2	760474.82	2919183.47	3
23A-0054-PLC3	760474.03	2919179.22	3
23A-0054-PLC4	760474.03	2919179.22	3
23A-0055-B1C1	760655.54	2919379.85	2.95
23A-0055-B1C2	760655.54	2919379.85	2.95
23A-0056-B2C1	760841.49	2919553.9	2.9
23A-0057-PLC1	761026.08	2919737.73	2.86
23A-0057-PLC2	761024.63	2919742.81	2.85
23A-0058-PLC1	761166.39	2919970.11	2.8
23A-0059-PLC1	761309.79	2920201.18	2.75
23A-0059-PLC2	761320.96	2920199.31	2.75
23A-0060-PLC1	761495.76	2920318.11	2.71
23A-0060-PLC2	761496.77	2920317.11	2.71
23A-0061-PLC1	758975.69	2917188.36	3.49
23A-0061-PLC2	758977.04	2917187.36	3.49
23A-0062-PLC1	759063.79	2917258.87	3.47
23A-0063-PLC1	759103.16	2917288.47	3.46
23A-0063-PLC2	759103.82	2917287.2	3.46
23A-0064-PLC1	759163.26	2917348.11	3.45
23A-0064-PLC2	759163.64	2917349.16	3.45

Table 1
Location Coordinates
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location ID	Easting (ft) (a)	Northing (ft) (a)	River Mile
Phase 1 Reach Sediment Coring Locations (cont)			
23A-0065-PLC1	759263.92	2917446.97	3.42
23A-0066-PLC1	761501	2920399.31	2.7
23A-0067-PLC1	761434.54	2920300.38	2.72
23A-0068-PLC2	761492.7	2920357.38	2.71
23A-0068-PLC4	761492.12	2920353.91	2.71
23A-0069-PLC1	761553.13	2920407.14	2.69
23A-0069-PLC2	761553.58	2920407.71	2.69
23A-0070-PLC1	761575.6	2920347.26	2.69
23A-0070-PLC2	761578.56	2920346.41	2.69
Mother Brook Sediment Grab Locations			
23A-0071-PLC1	756,921.57	2916745.89	-
23A-0072-PLC1	756,847.49	2916850.33	-
23A-0073-PLC1	756,556.60	2916658.15	-
23A-0074-PLC1	756,367.05	2915884.96	-
23A-0075-PLC1	756,343.29	2915711.25	-
23A-0076-PLC1	756,334.95	2915604.93	-
23A-0077-PLC1	755,472.34	2915192.45	-
23A-0078-PLC1	755,472.58	2915119.36	-
23A-0091-PLC1	755,174.51	2914981.52	-
23A-0092-PLC1	754,927.72	2914826.4	-
23A-0093-PLC1	755,233.37	2915286.07	-
23A-0094-PLC1	754,868.61	2915089.04	-
Upper Neponset River Sediment Grab Locations			
23A-0079-PLC1	758178.7	2916932.4	-
23A-0080-PLC1	758129.8	2916827	-
23A-0081-PLC1	758147.7	2916799	-
23A-0082	Abandoned		
23A-0083-PLC1	758135.9	2916713.8	-
23A-0084-PLC1	758097.1	2916643.7	-
23A-0085-PLC1	758118.3	2916610	-
23A-0086-PLC1	758105.1	2916586.4	-
23A-0087-PLC1	758069.2	2916569.3	-
23A-0088-PLC1	758061	2916524.4	-
23A-0089-PLC1	758058.7	2916468.3	-
23A-0090	Abandoned		
Phase 1 Reach Surface Water Sampling Locations			
23B-0001-PLW	758311.6	2917092	3.62
23B-0002-PLW	758569	2917141.6	3.57
23B-0003-PLW	758811.9	2917171	3.53
23B-0004-PLW	759043	2917225.4	3.48
23B-0005-PLW	759226.2	2917416.2	3.43

Table 1
Location Coordinates
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location ID	Easting (ft) (a)	Northing (ft) (a)	River Mile
Phase 1 Reach Surface Water Sampling Locations (cont)			
23B-0006-PLW	759383.3	2917607.4	3.38
23B-0007-PLW	759495.6	2917855.7	3.33
23B-0008-PLW	759688	2918049	3.28
23B-0009-PLW	759841.1	2918236.4	3.23
23B-0010-PLW	760020.7	2918423.4	3.18
23B-0011-PLW	760196.6	2918657.4	3.13
23B-0012-PLW	760270.4	2918841.2	3.09
23B-0013-PLW	760303.6	2919109	3.04
23B-0014-PLW	760489.8	2919296.5	2.99
23B-0015-PLW	760659.6	2919475	2.94
23B-0016-PLW	760851.7	2919653.4	2.89
23B-0017-PLW	761017.5	2919847.1	2.84
23B-0018-PLW	761144.8	2920064.4	2.79
23B-0019-PLW	761300.3	2920282.9	2.74
23B-0020-PLW	761537	2920436	2.69
23B-0021-PLW	758202.3	2916955.8	3.65
23B-0022-PLW	758400.9	2917082	3.61
23B-0023-PLW	758640.4	2917150.6	3.56
23B-0024-PLW	758897.6	2917131	3.51
23B-0025-PLW	759141.6	2917252.3	3.46
23B-0026-PLW	759304.9	2917454	3.41
23B-0027-PLW	759458.2	2917673.1	3.36
23B-0028-PLW	759573.8	2917889	3.31
23B-0029-PLW	759768.4	2918064.8	3.26
23B-0030-PLW	759943.2	2918257	3.22
23B-0031-PLW	760086.6	2918479.3	3.17
23B-0032-PLW	760229	2918691.3	3.12
23B-0033-PLW	760231.1	2918925	3.07
23B-0034-PLW	760361.2	2919164.4	3.02
23B-0035-PLW	760575.5	2919322.4	2.97
23B-0036-PLW	760737.2	2919526.4	2.92
23B-0037-PLW	760927.2	2919683.5	2.88
23B-0038-PLW	761103.8	2919894.2	2.82
23B-0039-PLW	761218.1	2920124.4	2.77
23B-0040-PLW	761388.9	2920302.7	2.73
23B-0041-PLW	758227.8	2916996.4	3.64
23B-0042-PLW	758492.3	2917081	3.59
23B-0043-PLW	758756	2917130.5	3.54
23B-0044-PLW	759024.2	2917160.2	3.49
23B-0045-PLW	759212.6	2917322.4	3.44
23B-0046-PLW	759374.3	2917523.3	3.39

Table 1
Location Coordinates
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location ID	Easting (ft) (a)	Northing (ft) (a)	River Mile
Phase 1 Reach Surface Water Sampling Locations (cont)			
23B-0047-PLW	759501.4	2917748.1	3.35
23B-0048-PLW	759658	2917933	3.3
23B-0049-PLW	759831.8	2918129.1	3.25
23B-0050-PLW	760014.8	2918319.7	3.2
23B-0051-PLW	760188.5	2918528.7	3.15
23B-0052-PLW	760291.9	2918758.8	3.1
23B-0053-PLW	760309.8	2918998.4	3.05
23B-0054-PLW	760470.2	2919186.5	3
23B-0055-PLW	760655.9	2919385.8	2.95
23B-0056-PLW	760842.7	2919553.3	2.9
23B-0057-PLW	761019.3	2919738.3	2.86
23B-0058-B1W	761165.4	2919977.3	2.8
23B-0059-PLW	761304.2	2920182	2.76
23B-0060-PLW	761495.7	2920322.3	2.71
23B-0061-PLW	758971.2	2917192.3	3.49
23B-0062-PLW	759061.8	2917264.7	3.47
23B-0063-PLW	759093.9	2917287.6	3.46
23B-0064-PLW	759155.7	2917351.9	3.45
23B-0065-PLW	759263.9	2917446.2	3.42
23B-0066-PLW	761400.6	2920338.5	2.72
23B-0067-PLW	761436.4	2920301.8	2.72
23B-0068-PLW	761496.7	2920357.8	2.71
23B-0069-PLW	761556.4	2920415	2.69
23B-0070-PLW	761574.3	2920344.8	2.7
Mother Brook Surface Water Sampling Locations			
23B-0071-PLW	756921.57	2916745.89	-
23B-0072-PLW	756847.49	2916850.33	-
23B-0073-PLW	756556.60	2916658.15	-
23B-0074-PLW	756367.05	2915884.96	-
23B-0075-PLW	756343.29	2915711.25	-
23B-0076-PLW	756334.95	2915604.93	-
23B-0077-PLW	755472.34	2915192.45	-
23B-0078-PLW	755472.58	2915119.36	-
23B-0091-PLW	755174.51	2914981.52	-
23B-0092-PLW	754927.72	2914826.40	-
23B-0093-PLW	755233.37	2915286.07	-
23B-0094-PLW	754868.61	2915089.04	-
Upper Neponset River Surface Water Sampling Locations			
23B-0079-PLW	758178.7	2916932.4	-
23B-0080-PLW	758129.8	2916827	-
23B-0081-PLW	758147.7	2916799	-

Table 1
Location Coordinates
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location ID	Easting (ft) (a)	Northing (ft) (a)	River Mile
Upper Neponset River Surface Water Sampling Locations (cont)			
23B-0082-PLW	758155.4	2916754	-
23B-0083-PLW	758135.9	2916713.8	-
23B-0084-PLW	758097.1	2916643.7	-
23B-0085-PLW	758118.3	2916610	-
23B-0086-PLW	758105.1	2916586.4	-
23B-0087-PLW	758069.2	2916569.3	-
23B-0088-PLW	758061	2916524.4	-
23B-0089-PLW	758058.7	2916468.3	-
23B-0090-PLW	757990.9	2916456.7	-
Phase 1 Reach Pore Water Sample Locations			
23C-0008-PLP	759622.262	2918010.273	3.29
23C-0023-PLP	759679.602	2917970.252	3.29
23C-0029-PLP	758585.935	2917157.391	3.57
23C-0055-PLP	760538.434	2919241.782	2.99
23C-0059-PLP	761449.603	2920299.167	2.72
Phase 1 Reach Floodplain Soil Sampling Locations			
23D-0001-PLS1	758175.74	2917048.02	3.65
23D-0002-PLS1	758268.99	2917102.33	3.63
23D-0003-PLS1	758339.94	2917129.08	3.62
23D-0004-PLS1	758424.82	2917153.98	3.6
23D-0005-PLS1	758526.05	2917158.66	3.58
23D-0006-PLS1	758595.35	2917166.52	3.57
23D-0007-PLS1	758679.46	2917176.91	3.55
23D-0008-PLS1	758774.76	2917181.4	3.54
23D-0009	Abandoned		
23D-0010-PLS1	758925.22	2917184.36	3.5
23D-0011-PLS1	758997.78	2917221.35	3.49
23D-0012-PLS1	759050.82	2917262.78	3.47
23D-0013-PLS1	759111.88	2917326.66	3.46
23D-0014-PLS1	759179.15	2917389.44	3.44
23D-0015-PLS1	759240.44	2917439.21	3.42
23D-0016-PLS1	759304.07	2917500.88	3.41
23D-0017-PLS1	759352.82	2917559.99	3.39
23D-0018-PLS1	759382.83	2917633.17	3.37
23D-0019	Abandoned		
23D-0020-PLS1	759439.2	2917804.27	3.34
23D-0021-PLS1	759495.38	2917884.67	3.32
23D-0022-PLS1	759551.62	2917946.62	3.31
23D-0023-PLS1	759609.31	2918008.89	3.29
23D-0024-PLS1	759667.12	2918070.4	3.28
23D-0025-PLS1	759731.97	2918136.91	3.26

Table 1
Location Coordinates
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location ID	Easting (ft) (a)	Northing (ft) (a)	River Mile
Phase 1 Reach Floodplain Soil Sampling Locations (cont)			
23D-0026-PLS1	759790.03	2918193.27	3.24
23D-0027-PLS1	759848.74	2918257.15	3.24
23D-0028-PLS1	759892.8	2918304.99	3.22
23D-0029-PLS1	759973.29	2918380.15	3.19
23D-0030-PLS1	760030.27	2918441.29	3.18
23D-0031-B1S1	760079.38	2918504.03	3.16
23D-0032-PLS1	760122.39	2918572.89	3.15
23D-0033-PLS1	760166.71	2918645.55	3.13
23D-0034	Abandoned		
23D-0035	Abandoned		
23D-0036	Abandoned		
23D-0037-PLS1	760224.15	2918936.12	3.07
23D-0038	Abandoned		
23D-0039	Abandoned		
23D-0040-PLS1	760363.81	2919177.92	3.02
23D-0041-PLS1	760422.09	2919235.84	3
23D-0042-PLS1	760485.98	2919293.97	2.99
23D-0043-PLS1	760546.04	2919357.92	2.97
23D-0044-PLS1	760600.68	2919416.23	2.95
23D-0045-PLS1	760659.63	2919485.29	2.94
23D-0046-B1S1	760718.49	2919545.73	2.92
23D-0047-PLS1	760780.46	2919609.54	2.9
23D-0048-B2S1	760841.07	2919668.9	2.89
23D-0049-B1S1	760902.49	2919731.5	2.87
23D-0050-PLS1	760960.47	2919795.14	2.86
23D-0051-B1S1	761012.87	2919855.59	2.84
23D-0052-PLS1	761053.83	2919916.37	2.82
23D-0053-PLS1	761079.15	2920007.8	2.81
23D-0054-PLS1	761134.18	2920075.59	2.79
23D-0055-PLS1	761181.58	2920148.45	2.77
23D-0056-PLS1	761222.07	2920211.34	2.76
23D-0057-PLS1	761293.32	2920299.53	2.74
23D-0058-PLS1	761368.73	2920351.03	2.73
23D-0059-PLS1	761446.47	2920395.7	2.71
23D-0060-PLS1	761497.89	2920424.12	2.7
23D-0061-PLS1	758218.64	2916959.9	3.65
23D-0062-PLS1	758305.82	2917011.53	3.63
23D-0063-PLS1	758381.79	2917057.64	3.61
23D-0064-B1S1	758449.77	2917066.47	3.6
23D-0065-B1S1	758529.88	2917062.96	3.58
23D-0066-PLS1	758617.37	2917079.67	3.57

Table 1
Location Coordinates
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location ID	Easting (ft) (a)	Northing (ft) (a)	River Mile
Phase 1 Reach Floodplain Soil Sampling Locations (cont)			
23D-0067-PLS1	758717.51	2917115.74	3.55
23D-0068	Abandoned		
23D-0069-PLS1	758864.49	2917109.29	3.52
23D-0070	Abandoned		
23D-0071-PLS1	759053.43	2917154.46	3.49
23D-0072-B1S1	759123.05	2917212.43	3.47
23D-0073-PLS1	759183.96	2917275.79	3.45
23D-0074-B1S1	759244.35	2917341.02	3.44
23D-0075-PLS1	759300.94	2917411.86	3.42
23D-0076-PLS1	759358.46	2917465.53	3.4
23D-0077-PLS1	759411.08	2917542.21	3.39
23D-0078-PLS1	759447.45	2917623.37	3.37
23D-0079-PLS1	759487.27	2917697.67	3.36
23D-0080-PLS1	759526.07	2917772.77	3.34
23D-0081-B2S1	759570.75	2917831.12	3.32
23D-0082-PLS1	759631.42	2917889.79	3.31
23D-0083-PLS1	759687.58	2917956.51	3.29
23D-0084-PLS1	759744.55	2918016.56	3.27
23D-0085-PLS1	759805.17	2918082.58	3.26
23D-0086-PLS1	759882.86	2918157.7	3.24
23D-0087-PLS1	759926.62	2918201.66	3.23
23D-0088-PLS1	759985.9	2918268.61	3.21
23D-0089-PLS1	760043.96	2918322.29	3.19
23D-0090-PLS1	760104.6	2918385.4	3.18
23D-0091-PLS1	760166.58	2918456.38	3.16
23D-0092-B1S1	760212.49	2918539.65	3.14
23D-0093-PLS1	760241.78	2918624.9	3.13
23D-0094-PLS1	760281.11	2918695.24	3.11
23D-0095-PLS1	760320.36	2918774.84	3.1
23D-0096	Abandoned		
23D-0097	Abandoned		
23D-0098-PLS1	760332.8	2918998.2	3.05
23D-0099-PLS1	760379.93	2919058.97	3.03
23D-0100-B2S1	760440.18	2919121.37	3.02
23D-0101-PLS1	760497.85	2919183.5	3
23D-0102-PLS1	760561.36	2919241.75	2.98
23D-0103-B1S1	760616.77	2919305.66	2.97
23D-0104-PLS1	760679.01	2919364.98	2.95
23D-0105-PLS1	760738.94	2919426.95	2.94
23D-0106-B2S1	760799.96	2919487.92	2.92
23D-0107-PLS1	760860.39	2919551.33	2.9

Table 1
Location Coordinates
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location ID	Easting (ft) (a)	Northing (ft) (a)	River Mile
Phase 1 Reach Floodplain Soil Sampling Locations (cont)			
23D-0108-B1S1	760918.75	2919612.91	2.89
23D-0109-PLS1	760978.47	2919674.31	2.87
23D-0110-B1S1	761041.98	2919737.44	2.85
23D-0111-B1S1	761111.73	2919798.85	2.84
23D-0112-PLS1	761171.71	2919867.21	2.82
23D-0113-B1S1	761194.67	2919953.73	2.8
23D-0114-B2S1	761231.69	2920025.82	2.79
23D-0115-PLS1	761289.78	2920095.01	2.77
23D-0116-PLS1	761351.59	2920147.52	2.76
23D-0117-B1S1	761375.42	2920236.62	2.74
23D-0118-PLS1	761439.69	2920273.59	2.72
23D-0119-PLS1	761503.13	2920285.06	2.71
23D-0120-PLS1	761586.99	2920279.26	2.7
Phase 1 Reach Probing Locations (b)			
JP-0002	758566.57	2917147.72	3.57
JP-0007	759489.38	2917846.24	3.33
JP-0008	759667.87	2918050.1	3.28
JP-0009	759841.92	2918238.49	3.23
JP-0029	759767.65	2918063.54	3.27
JP-0048	759659.77	2917951.83	3.29
JP-0061	758975.69	2917188.36	3.49
JP-0200	759137.04	2917323.47	3.45
JP-0201	759164.22	2917349.1	3.45
JP-0202	759179.68	2917276.09	3.45
JP-0203	759184.48	2917377.81	3.44
JP-0204	759285.97	2917400.6	3.42
JP-0205	759331.02	2917447.38	3.41
JP-0206	761572.27	2920335.23	2.7
JP-0207	761573.6	2920388.53	2.69
JP-0208	761550.08	2920445.13	2.69
JP-0209	761523.3	2920308.26	2.7
JP-0210	761498.09	2920364.84	2.71
JP-0211	761479.96	2920401.88	2.71
JP-0212	761405.95	2920353.95	2.72
JP-0213	761419.94	2920328.47	2.72
JP-0214	761436.99	2920286.22	2.72
JP-0215	760305.09	2918972.23	3.06
Phase 1 Reach Transducer Location			
-	761451	2920394	2.71

Table 1
Location Coordinates
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Notes:
(a) The horizontal datum is North American Datum 1983 Massachusetts State Plain 2001 Feet.
(b) Probing locations JP-0002, JP-0007, JP-0008, JP-0009, JP-0029, JP-0048, and JP-0061 were in the vicinity of sediment sampling locations 23A-0002, 23A-0007, 23A-0008, 23A-0009, 23A-0029, 23A-0048, and 23A-0061, respectively.

Table 2
Sediment Coring and Sampling Interval Summary
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location ID	Date of Coring	Total Core Length	Sample IDs	Sample Depths	Grab Collected	Comments
23A-0001-PLC1	6/29/2023	2.3	23A-0001-PLC1-AS	0 - 0.5 ft		Grabs were not successful at this location.
			23A-0001-PLC1-BS	0.5 - 1.7 ft		
			23A-0001-PLC1-CS	1.7 - 2.3 ft		
23A-0002-PLC2	6/29/2023	6	23A-0002-PLC2-AS	0 - 0.5 ft	X	
			23A-0002-PLC2-BS	0.5 - 3.1 ft		
			Duplicate: 23A-0002-PLC2-BT	0.5 - 3.1 ft		
			23A-0002-PLC2-CS	3.1 - 6 ft		
			Duplicate: 23A-0002-PLC2-CT	3.1 - 6 ft		
23A-0003-PLC1	6/29/2023	0.5	23A-0003-PLC1-AS	0 - 0.5 ft		Grabs were not successful at this location.
23A-0004-B2C1	6/28/2023	1.4	23A-0004-B2C1-AS	0 - 0.5 ft	X	
			23A-0004-B2C1-BS	0.5 - 1.4 ft		
23A-0005-PLC1	6/28/2023	2	23A-0005-PLC1-AS	0 - 0.5 ft	X	
			23A-0005-PLC1-BS	0.5 - 1.5 ft		
			23A-0005-PLC1-CS	1.5 - 2 ft		
23A-0006-PLC2	6/28/2023	1.8	23A-0006-PLC2-AS	0 - 0.5 ft	X	
			23A-0006-PLC2-BS	0.5 - 1.8 ft		
23A-0007-PLC1	6/27/2023	5.1	23A-0007-PLC1-AS	0 - 0.5 ft	X	
			23A-0007-PLC1-BS	0.5 - 1.7 ft		
			23A-0007-PLC1-CS	1.7 - 5.1 ft		
23A-0008-PLC1	6/27/2023	6.2	23A-0008-PLC1-AS	0 - 0.5 ft	X	
			23A-0008-PLC1-BS	0.5 - 3 ft		
			23A-0008-PLC1-CS	3 - 6.2 ft		
23A-0009-PLC1	6/27/2023	5.7	23A-0009-PLC1-AS	0 - 0.5 ft	X	
			23A-0009-PLC1-BS	0.5 - 3 ft		
			23A-0009-PLC1-CS	3 - 5.7 ft		
23A-0009-PLC2	6/27/2023	5.5	-	-		Extra core for matrix/matrix spike duplicate for 23A-0009-PLC1.
23A-0010-PLC1	6/26/2023	3.7	23A-0010-PLC1-AS	0 - 0.5 ft	X	
			23A-0010-PLC1-BS	0.5 - 1.5 ft		
			23A-0010-PLC1-CS	1.5 - 3.4 ft		
23A-0011-B1C1	6/26/2023	4	23A-0011-B1C1-AS	0 - 0.5 ft	X	
			23A-0011-B1C1-BS	0.5 - 2.9 ft		
			23A-0011-B1C1-CS	2.9 - 3.6 ft		
23A-0012-PLC1	6/26/2023	3	23A-0012-PLC1-AS	0 - 0.5 ft		
			23A-0012-PLC1-BS	0.5 - 1.7 ft		
			23A-0012-PLC1-CS	1.7 - 3 ft		
23A-0012-PLC2	6/26/2023	0.8	-	-		Extra core used to supplement volume for 23A-0012-PLC1.
23A-0013-NS	-	-	-	-		Core contained large gravel, grabs were unsuccessful, and alternate locations were on land. Station was abandoned.
23A-0014-PLC1	6/25/2023	0.5	-	-		Extra core used to supplement volume for 23A-014-PLC2.
23A-0014-PLC2	6/25/2023	1	23A-0014-PLC2-AS	0 - 0.5 ft		
23A-0015-PLC1	6/24/2023	2.9	23A-0015-PLC1-AS	0 - 0.5 ft		Grabs were not successful at this location.
			23A-0015-PLC1-BS	0.5 - 1.5 ft		
			23A-0015-PLC1-CS	1.5 - 2.9 ft		
23A-0016-NS	-	-	-	-		15 grab attempts were unsuccessful and core was only penetrating 0.4 feet before hitting bedrock. Station was abandoned.
23A-0017-NS	-	-	-	-		Two different areas were tried with no success, sediment profile imaging had no penetration at this station. The station was abandoned.

Table 2
Sediment Coring and Sampling Interval Summary
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location ID	Date of Coring	Total Core Length	Sample IDs	Sample Depths	Grab Collected	Comments
23A-0018-PLC1	6/23/2023	5.5	23A-0018-PLC1-AS	0 - 0.5 ft	X	
			23A-0018-PLC1-BS	0.5 - 4.4 ft		
			23A-0018-PLC1-CS	4.4 - 5.5 ft		
23A-0019-B2C2	6/23/2023	4.3	23A-0019-B2C2-AS	0 - 0.5 ft	X	
			23A-0019-B2C2-BS	0.5 - 3.1 ft		
			23A-0019-B2C2-CS	3.1 - 4.3 ft		
			Duplicate: 23A-0019-B2C2-CT	3.1 - 4.3 ft		
23A-0020-PLC1	6/22/2023	4	23A-0020-PLC1-AS	0 - 0.5 ft	X	23A-0020-PLC2 was a grab sample collected to supplement volume for 23A-0020-PLC1. The sample was collected on 6/23/2023 at 7:04 am. Given that the core and grab were collected on different days some of the results from the surficial interval are from sample 23A-0020-PLC1-AS and other results from the surficial interval are from sample 23A-0020-PLC2-AS.
			3A-0020-PLC2-AS	0 - 0.5 ft		
			23A-0020-PLC1-BS	0.5 - 2.3 ft		
			23A-0020-PLC1-CS	2.3 - 4 ft		
23A-0021-PLC1	6/29/2023	1.5	23A-0021-PLC1-AS	0 - 0.5 ft		Grabs were not successful at this location.
			23A-0021-PLC1-BS	0.5 - 1.5 ft		
23A-0022-PLC1	6/29/2023	4	23A-0022-PLC1-AS	0 - 0.5 ft		Grabs were not successful at this location.
			23A-0022-PLC1-BS	0.5 - 2.8 ft		
			23A-0022-PLC1-CS	2.8 - 4 ft		
23A-0023-B2C1	6/29/2023	0.5	-	-		Extra core used to supplement volume for 23A-0023-B2C2.
23A-0023-B2C2	6/29/2023	1.7	23A-0023-B2C2-AS	0 - 0.5 ft		
			23A-0023-B2C2-BS	0.5 - 1.7 ft		
23A-0024-PLC2	6/28/2023	0.5	23A-0024-PLC2-AS	0 - 0.5 ft		Grabs were not successful at this location.
23A-0025-B1C1	6/28/2023	1	23A-0025-B1C1-AS	0 - 0.5 ft		
			23A-0025-B1C1-BS	0.5 - 1.3 ft		
23A-0025-B1C2	6/28/2023	0.5	-	-		Extra core used to supplement volume for 23A-0025-B1C1.
23A-0026-B1C1	6/28/2023	1.6	23A-0026-B1C1-AS	0 - 0.5 ft	X	
			23A-0026-B1C1-BS	0.5 - 1.6 ft		
23A-0027-NS	-	-	-	-		Several core and grab attempts were unsuccessful at primary and backup locations, station abandoned.
23A-0028-PLC1	6/27/2023	0.5	-	-		Extra core used to supplement volume for 23A-0028-PLC2.
23A-0028-PLC2	6/27/2023	1.1	23A-0028-PLC2-AS	0 - 0.5 ft		
			23A-0028-PLC2-BS	0.5 - 1.7 ft		
23A-0029-PLC1	6/27/2023	5.8	23A-0029-PLC1-AS	0 - 0.5 ft	X	
			23A-0029-PLC1-BS	0.5 - 3.3 ft		
			23A-0029-PLC1-CS	3.3 - 5.8 ft		
23A-0030-PLC1	6/27/2023	3	23A-0030-PLC1-AS	0 - 0.5 ft	X	
			23A-0030-PLC1-BS	0.5 - 1.8 ft		
			23A-0030-PLC1-CS	1.8 - 2.8 ft		
23A-0031-PLC1	6/26/2023	3.4	23A-0031-PLC1-AS	0 - 0.5 ft	X	
			23A-0031-PLC1-BS	0.5 - 1.5 ft		
			23A-0031-PLC1-CS	1.5 - 3.4 ft		
23A-0032-PLC1	6/26/2023	3.5	23A-0032-PLC1-AS	0 - 0.5 ft	X	
			23A-0032-PLC1-BS	0.5 - 1.7 ft		
			23A-0032-PLC1-CS	1.7 - 3 ft		
23A-0033-B2C1	6/26/2023	3	23A-0033-B2C1-AS	0 - 0.5 ft		
			23A-0033-B2C1-BS	0.5 - 1.7 ft		
			23A-0033-B2C1-CS	1.7 - 2.7 ft		
23A-0033-B2C3	6/26/2023	0.5	-	-		Extra core used to supplement volume for 23A-0033-B2C1.

Table 2
Sediment Coring and Sampling Interval Summary
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Location ID	Date of Coring	Total Core Length	Sample IDs	Sample Depths	Grab Collected	Comments
23A-0034-PLC1	6/25/2023	2.5	23A-0034-PLC1-AS	0 - 0.5 ft		
			23A-0034-PLC1-BS	0.5 - 1.4 ft		
			23A-0034-PLC1-CS	1.4 - 2.4 ft		
23A-0034-PLC2	6/25/2023	0.5	-	-		Extra core used to supplement volume for 23A-0034-PLC1.
23A-0035-NS	-	-	-	-		Vibracoring device was bouncing on rock at this location. Station was abandoned.
23A-0036-PLC3	6/24/2023	1	23A-0036-PLC3-AS	0 - 0.5 ft	X	
23A-0037-B2C1	6/24/2023	0.5	23A-0037-B2C1-AS	0 - 0.5 ft		Not able to obtain cores at this location, 12 grab attempts were made to obtain sufficient volume for the 0-0.5 ft sample.
23A-0038-NS	-	-	-	-		Coring attempts were bouncing off bedrock and multiple grab attempts were unsuccessful. Station was abandoned.
23A-0039-PLC1	6/23/2023	2.7	23A-0039-PLC1-AS	0 - 0.5 ft		
			23A-0039-PLC1-BS	0.5 - 2 ft		
			23A-0039-PLC1-CS	2 - 3 ft		
23A-0040-PLC1	6/23/2023	5.6	23A-0040-PLC1-AS	0 - 0.5 ft		
			23A-0040-PLC1-BS	0.5 - 1.4 ft	X	
			23A-0040-PLC1-CS	1.4 - 5.6 ft		
23A-0041-PLC1	6/29/2023	1	23A-0041-PLC1-AS	0 - 0.5 ft		
			23A-0041-PLC1-BS	0.5 - 1 ft	X	
23A-0042-PLC1	6/29/2023	2.7	23A-0042-PLC1-AS	0 - 0.5 ft		
			23A-0042-PLC1-BS	0.5 - 1.9 ft	X	
			23A-0042-PLC1-CS	1.9 - 2.7 ft		
23A-0043-PLC1	6/29/2023	1.6	23A-0043-PLC1-AS	0 - 0.5 ft		
			23A-0043-PLC1-BS	0.5 - 1.6 ft		Grabs were not successful at this location.
23A-0044-PLC1	6/28/2023	0.5	23A-0044-PLC1-AS	0 - 0.5 ft		Grabs were not successful at this location.
23A-0045-PLC3	6/28/2023	0.4	23A-0045-PLC3-AS	0 - 0.5 ft		Grabs were not successful at this location.
23A-0046-PLC1	6/28/2023	0.3	-	-		Extra core used to supplement volume for 23A-0046-PLC2.
23A-0046-PLC2	6/28/2023	2.4	23A-0046-PLC2-AS	0 - 0.5 ft		
			23A-0046-PLC2-BS	0.5 - 1.4 ft		
			23A-0046-PLC2-CS	1.4 - 2.4 ft		
23A-0047-NS	-	-	-	-		Sediment profile imaging showed large rock or bedrock all around this location, station abandoned.
23A-0048-PLC1	6/27/2023	5.5	23A-0048-PLC1-AS	0 - 0.5 ft		
			23A-0048-PLC1-BS	0.5 - 3.2 ft	X	
			23A-0048-PLC1-CS	3.2 - 5 ft		
23A-0049-B2C1	6/27/2023	3.2	23A-0049-B2C1-AS	0 - 0.5 ft		
			23A-0049-B2C1-BS	0.5 - 2.2 ft	X	
			23A-0049-B2C1-BS	2.2 - 3.2 ft		
23A-0050-B2C1	6/27/2023	3.2	23A-0050-B2C1-AS	0 - 0.5 ft		
			23A-0050-B2C1-BS	0.5 - 2.7 ft	X	
			23A-0050-B2C1-CS	2.7 - 3.2 ft		
23A-0051-PLC1	6/26/2023	3.4	23A-0051-PLC1-AS	0 - 0.5 ft		
			23A-0051-PLC1-BS	0.5 - 2.2 ft		Grabs were not successful at this location.
			23A-0051-PLC1-CS	2.2 - 3.4 ft		
23A-0052-PLC1	6/26/2023	1.9	23A-0052-PLC1-AS	0 - 0.5 ft		
			23A-0052-PLC1-BS	0.5 - 1.9 ft		Grabs were not successful at this location.
23A-0053-B1C1	6/25/2023	6	23A-0053-B1C1-AS	0 - 0.5 ft		
			23A-0053-B1C1-BS	0.5 - 3.2 ft	X	
			23A-0053-B1C1-CS	3.2 - 5.7 ft		

Table 2
Sediment Coring and Sampling Interval Summary
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Location ID	Date of Coring	Total Core Length	Sample IDs	Sample Depths	Grab Collected	Comments
23A-0054-PLC1	6/25/2023	0.5	-			Extra core for matrix spike/matrix spike duplicate for 23A-0054-PLC2
23A-0054-PLC2	6/25/2023	3.5	23A-0054-PLC2-AS	0 - 0.5 ft	X	
			23A-0054-PLC2-BS	0.5 - 1.5 ft		
			23A-0054-PLC2-CS	1.5 - 3 ft		
23A-0054-PLC3	6/25/2023	3	-	-		Extra core for matrix spike/matrix spike duplicate for 23A-0054-PLC2
23A-0054-PLC4	6/25/2023	3	-	-		Extra core for matrix spike/matrix spike duplicate for 23A-0054-PLC2
23A-0055-B1C1	6/25/2023	3.4	23A-0055-B1C1-AS	0 - 0.5 ft		
			23A-0055-B1C1-BS	0.5 - 2.1 ft		
			23A-0055-B1C1-CS	2.1 - 3.4 ft		
23A-0055-B1C2	6/25/2023	2.2	-	-		Extra core used to supplement volume for 23A-0055-B1C1.
23A-0056-B2C1	6/24/2023	2	23A-0056-PLC1-AS	0 - 0.5 ft	X	Samples labeled incorrectly with location PLC1.
			23A-0056-PLC1-BS	0.5 - 2 ft		
23A-0057-PLC2	6/24/2023	2.5	23A-0057-PLC1-AS	0 - 0.5 ft		Samples labeled incorrectly with location PLC1.
			23A-0057-PLC1-BS	0.5 - 1.5 ft		
			23A-0057-PLC1-CS	1.5 - 2.5 ft		
23A-0057-PLC1	6/24/2023	1	-	-		Used to supplement volume for 23A-0057-PLC2.
23A-0058-PLC1	6/24/2023	2	23A-0058-PLC1-AS	0 - 0.5 ft		Grabs were not successful at this location. Sample for B interval labeled incorrectly with location PLC2.
			23A-0058-PLC2-BS	0.5 - 2 ft		
23A-0059-PLC1	6/23/2023	2	23A-0059-PLC1-AS	0 - 0.5 ft		
			Duplicate: 23A-0059-PLC1-AT	0 - 0.5 ft		
			23A-0059-PLC1-BS	0.5 - 1.2 ft		
			Duplicate: 23A-0059-PLC1-BT	0.5 - 1.2 ft		
			23A-0059-PLC1-CS	1.2 - 2 ft		
23A-0059-PLC2	6/23/2023	1.55	-	-		Extra core for field duplicate for 23A-0059-PLC1.
23A-0060-PLC1	6/23/2023	6	23A-0060-PLC1-AS	0 - 0.5 ft	X	
			23A-0060-PLC1-BS	0.5 - 2 ft		
			23A-0060-PLC1-CS	2 - 3.6 ft		
23A-0060-PLC2	6/23/2023	4	-	-		There were large pieces of gravel in the shoe of the vibracoring device at location 23A-0060-PLC1. 23A-060-PLC2 was collected as a second attempt, however, there were also large pieces of gravel in the shoe.
23A-0061-PLC1	6/28/2023	2.7	23A-0061-PLC1-AS	0 - 0.5 ft		
			23A-0061-PLC1-AT	0 - 0.5 ft		
			23A-0061-PLC1-BS	0.5 - 1.7 ft		
			23A-0061-PLC1-BT	0.5 - 1.7 ft		
			23A-0061-PLC1-CS	1.7 - 2.7 ft		
			23A-0061-PLC1-CT	1.7 - 2.7 ft		
23A-0061-PLC2	6/28/2023	2.6	-	-	X	Extra core for field duplicate for 23A-0061-PLC1.
23A-0062-PLC1	6/28/2023	5	23A-0062-PLC1-AS	0 - 0.5 ft	X	
			23A-0062-PLC1-BS	0.5 - 3 ft		
			Duplicate: 23A-0062-PLC1-BT	0.5 - 3 ft		
			23A-0062-PLC1-CS	3 - 4.7 ft		

Table 2
Sediment Coring and Sampling Interval Summary
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Location ID	Date of Coring	Total Core Length	Sample IDs	Sample Depths	Grab Collected	Comments
23A-0063-PLC1	6/29/2023	4.7	23A-0063-PLC1-AS	0 - 0.5 ft	X	
			23A-0063-PLC1-BS	0.5 - 3.7 ft		
			23A-0063-PLC1-BT	0.5 - 3.7 ft		
			23A-0063-PLC1-CS	3.7 - 4.9 ft		
23A-0063-PLC2	6/29/2023	4.9	-	-		Extra core for field duplicate for 23A-0063-PLC1.
23A-0064-PLC1	6/29/2023	5.2	23A-0064-PLC1-AS	0 - 0.5 ft	X	
			23A-0064-PLC1-AT	0 - 0.5 ft		
			23A-0064-PLC1-BS	0.5 - 3.7 ft		
			23A-0064-PLC1-BT	0.5 - 3.7 ft		
			23A-0064-PLC1-CS	3.7 - 5.7 ft		
			23A-0064-PLC1-CT	3.7 - 5.7 ft		
23A-0064-PLC2	6/29/2023	5.7	-	-		Extra core for field duplicate for 23A-0064-PLC1.
23A-0065-PLC1	6/29/2023	0.5	23A-0065-PLC1-AS	0 - 0.5 ft	X	
23A-0066-PLC1	6/24/2023	2	23A-0066-PLC1-AS	0 - 0.5 ft	X	
			23A-0066-PLC1-BS	0.5 - 1.7 ft		
23A-0067-PLC1	6/23/2023	2.9	23A-0067-PLC1-AS	0 - 0.5 ft		
			23A-0067-PLC1-BS	0.5 - 2.3 ft		
			23A-0067-PLC1-CS	2.3 - 2.9 ft		
23A-0068-PLC2	6/22/2023	1.5	23A-0068-PLC2-AS	0 - 0.5 ft		
			23A-0068-PLC2-BS	0.5 - 0.9 ft		
23A-0068-PLC4	6/22/2023	1.3	-	-		Extra core used to supplement volume for 23A-0068-PLC2.
23A-0069-PLC1	6/22/2023	6.3	23A-0069-PLC1-AS	0 - 0.5 ft		
			23A-0069-PLC1-BS	0.5 - 3.4 ft		
			23A-0069-PLC1-CS	3.4 - 6 ft		
23A-0069-PLC2	6/22/2023	2.5	-	-		Extra core used to supplement volume for 23A-0069-PLC1.
23A-0070-PLC1	6/23/2023	4.2	23A-0070-PLC1-AS	0 - 0.5 ft	X	
			23A-0070-PLC1-BS	0.5 - 2.3 ft		
			23A-0070-PLC1-CS	2.3 - 4.2 ft		
23A-0070-PLC2	6/23/2023	3.6	-	-		Extra core for field duplicate volume, however, duplicate was not ultimately collected.
23A-0071-PLC1	11/8/2023	0.5	23A-0071-PLC1-AS	0 - 0.5 ft		
23A-0072-PLC1	11/8/2023	0.5	23A-0072-PLC1-AS	0 - 0.5 ft		
			Duplicate: 23A-0072-PLC1-AT	0 - 0.5 ft		
23A-0073-PLC1	11/8/2023	0.5	23A-0073-PLC1-AS	0 - 0.5 ft		
23A-0074-PLC1	11/8/2023	0.5	23A-0074-PLC1-AS	0 - 0.5 ft		
23A-0075-PLC1	11/9/2023	0.5	23A-0075-PLC1-AS	0 - 0.5 ft		
23A-0076-PLC1	11/9/2023	0.5	23A-0076-PLC1-AS	0 - 0.5 ft		
23A-0077-PLC1	11/9/2023	0.5	23A-0077-PLC1-AS	0 - 0.5 ft		
23A-0078-PLC1	11/9/2023	0.5	23A-0078-PLC1-AS	0 - 0.5 ft		
23A-0079-PLC1	10/30/2023	0.5	23A-0079-PLC1-AS	0 - 0.5 ft		
23A-0080-PLC1	10/30/2023	0.5	23A-0080-PLC1-AS	0 - 0.5 ft		
			Duplicate:23A-0080-PLC1-AT	0 - 0.5 ft		
23A-0081-PLC1	10/31/2023	0.5	23A-0081-PLC1-AS	0 - 0.5 ft		
23A-0082-NS	-	-	-	-		Station was abandoned.
23A-0083-PLC1	10/30/2023	0.5	23A-0083-PLC1-AS	0 - 0.5 ft		
23A-0084-PLC1	10/30/2023	0.5	23A-0084-PLC1-AS	0 - 0.5 ft		
23A-0085-PLC1	10/31/2023	0.5	23A-0085-PLC1-AS	0 - 0.5 ft		
23A-0086-PLC1	10/30/2023	0.5	23A-0086-PLC1-AS	0 - 0.5 ft		
23A-0087-PLC1	10/30/2023	0.5	23A-0087-PLC1-AS	0 - 0.5 ft		
23A-0088-PLC1	10/31/2023	0.5	23A-0088-PLC1-AS	0 - 0.5 ft		
23A-0089-PLC1	10/31/2023	0.5	23A-0089-PLC1-AS	0 - 0.5 ft		

Table 2
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Location ID	Date of Coring	Total Core Length	Sample IDs	Sample Depths	Grab Collected	Comments
23A-0090-NS	-	-	-	-		Station was abandoned.
23A-0091-PLC1	11/10/2023	0.5	23A-0091-PLC1-AS	0 - 0.5 ft		
23A-0092-PLC1	11/10/2023	0.5	23A-0092-PLC1-AS	0 - 0.5 ft		
23A-0093-PLC1	11/10/2023	0.5	23A-0093-PLC1-AS	0 - 0.5 ft		
23A-0094-PLC1	11/10/2023	0.5	23A-0094-PLC1-AS	0 - 0.5 ft		

Table 3
Analyte List for Sediment Samples
Phase 1 Data Evaluation Summary Memorandum
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Sample ID	Depth Interval	PCB Congeners	PCDD/F	TCL SVOCs	TCL Pesticides	TAL Metals & Mercury	Cyanide	TCL VOCs	AVS/SEM	TOC	Grain size
23A-0001-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X			X	
23A-0001-PLC1-BS	0.5 - 1.7 ft	X	X	X	X	X	X	X		X	X
23A-0001-PLC1-CS	1.7 - 2.3 ft	X	X	X	X	X	X			X	X
23A-0002-PLC2-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0002-PLC2-BS	0.5 - 3.1 ft	X	X	X	X	X	X	X		X	X
23A-0002-PLC2-BT	0.5 - 3.1 ft	X	X	X	X	X	X	X		X	X
23A-0002-PLC2-CS	3.1 - 6 ft	X	X	X	X	X	X	X		X	X
23A-0002-PLC2-CT	3.1 - 6 ft	X	X	X	X	X	X	X		X	X
23A-0003-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X			X	X
23A-0004-B2C1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0004-B2C1-BS	0.5 - 1.4 ft	X	X	X	X	X	X	X		X	X
23A-0005-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0005-PLC1-BS	0.5 - 1.5 ft	X	X	X	X	X	X	X		X	X
23A-0005-PLC1-CS	1.5 - 2 ft	X	X	X	X	X	X				
23A-0006-PLC2-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0006-PLC2-BS	0.5 - 1.8 ft	X	X	X	X	X	X	X		X	X
23A-0007-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0007-PLC1-BS	0.5 - 1.7 ft	X	X	X	X	X	X	X		X	X
23A-0007-PLC1-CS	1.7 - 5.1 ft	X	X	X	X	X	X	X		X	X
23A-0008-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0008-PLC1-BS	0.5 - 3 ft	X	X	X	X	X	X	X		X	X
23A-0008-PLC1-CS	3 - 6.2 ft	X	X	X	X	X	X	X		X	X
23A-0009-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0009-PLC1-BS	0.5 - 3 ft	X	X	X	X	X	X	X		X	X
23A-0009-PLC1-CS	3 - 5.7 ft	X	X	X	X	X	X	X		X	X
23A-0010-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0010-PLC1-BS	0.5 - 1.5 ft	X	X	X	X	X	X	X		X	X
23A-0010-PLC1-CS	1.5 - 3.4 ft	X	X	X	X	X	X	X		X	X
23A-0011-B1C1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0011-B1C1-BS	0.5 - 2.9 ft			X	X	X	X	X		X	X
23A-0011-B1C1-CS	2.9 - 3.6 ft	X	X	X	X	X	X	X		X	X
23A-0012-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0012-PLC1-BS	0.5 - 1.7 ft	X	X	X	X	X	X	X		X	X
23A-0012-PLC1-CS	1.7 - 3 ft	X	X	X	X	X	X	X		X	X
23A-0014-PLC2-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0015-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0015-PLC1-BS	0.5 - 1.5 ft	X	X	X	X	X	X	X		X	X
23A-0015-PLC1-CS	1.5 - 2.9 ft	X	X	X	X	X	X	X		X	X
23A-0018-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0018-PLC1-BS	0.5 - 4.4 ft	X	X	X	X	X	X	X		X	X
23A-0018-PLC1-CS	4.4 - 5.5 ft	X	X	X	X	X	X	X		X	X
23A-0019-B2C2-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0019-B2C2-BS	0.5 - 3.1 ft	X	X	X	X	X	X	X		X	X
23A-0019-B2C2-CS	3.1 - 4.3 ft	X	X	X	X	X	X	X		X	X
23A-0020-PLC1-AS	0 - 0.5 ft	X	X			X	X	X	X		
23A-0020-PLC1-BS	0.5 - 2.3 ft	X	X	X	X	X	X	X		X	X
23A-0020-PLC1-CS	2.3 - 4 ft	X	X	X	X	X	X	X		X	X
23A-0020-PLC2-AS (a)	0 - 0.5 ft			X	X		X			X	X
23A-0021-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X			X	
23A-0021-PLC1-BS	0.5 - 1.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0022-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X		
23A-0022-PLC1-BS	0.5 - 2.8 ft	X	X	X	X	X	X	X		X	X
23A-0022-PLC1-CS	2.8 - 4 ft	X	X	X	X	X	X	X		X	X
23A-0023-B2C2-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0023-B2C2-BS	0.5 - 1.7 ft	X	X	X	X	X	X	X		X	X
23A-0024-PLC2-AS	0 - 0.5 ft	X	X			X	X				
23A-0025-B1C1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0025-B1C1-BS	0.5 - 1.3 ft	X	X	X	X	X	X			X	X
23A-0026-B1C1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X		
23A-0026-B1C1-BS	0.5 - 1.6 ft	X	X	X	X	X	X	X		X	X
23A-0028-PLC2-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0028-PLC2-BS	0.5 - 1.7 ft	X	X	X	X	X	X			X	X
23A-0029-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0029-PLC1-BS	0.5 - 3.3 ft	X	X	X	X	X	X	X		X	X
23A-0029-PLC1-CS	3.3 - 5.8 ft	X	X	X	X	X	X	X		X	X
23A-0030-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0030-PLC1-BS	0.5 - 1.8 ft	X	X	X	X	X	X	X		X	X
23A-0030-PLC1-CS	1.8 - 2.8 ft	X	X	X	X	X	X	X		X	X
23A-0031-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0031-PLC1-BS	0.5 - 1.5 ft	X	X	X	X	X	X	X		X	X
23A-0031-PLC1-CS	1.5 - 3.4 ft	X	X	X	X	X	X	X		X	X
23A-0032-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0032-PLC1-BS	0.5 - 1.7 ft	X	X	X	X	X	X	X		X	X
23A-0032-PLC1-CS	1.7 - 3 ft	X	X	X	X	X	X	X		X	X
23A-0033-B2C1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0033-B2C1-BS	0.5 - 1.7 ft	X	X	X	X	X	X	X		X	X
23A-0033-B2C1-CS	1.7 - 2.7 ft	X	X	X	X	X	X	X		X	X
23A-0034-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0034-PLC1-BS	0.5 - 1.4 ft	X	X	X	X	X	X	X		X	X

Table 3
Analyte List for Sediment Samples
Phase 1 Data Evaluation Summary Memorandum
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Sample ID	Depth Interval	PCB Congeners	PCDD/F	TCL SVOCs	TCL Pesticides	TAL Metals & Mercury	Cyanide	TCL VOCs	AVS/SEM	TOC	Grain size
23A-0034-PLC1-CS	1.4 - 2.4 ft	X	X	X	X	X	X	X		X	X
23A-0036-PLC3-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0037-B2C1-AS	0 - 0.5 ft	X	X	X	X	X	X			X	X
23A-0039-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0039-PLC1-BS	0.5 - 2 ft	X	X	X	X	X	X	X		X	X
23A-0039-PLC1-CS	2 - 3 ft	X	X	X	X	X	X	X		X	X
23A-0040-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0040-PLC1-BS	0.5 - 1.4 ft	X	X	X	X	X	X	X		X	X
23A-0040-PLC1-CS	1.4 - 5.6 ft	X	X	X	X	X	X	X		X	X
23A-0041-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0041-PLC1-BS	0.5 - 1 ft	X	X	X	X	X	X				
23A-0042-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0042-PLC1-BS	0.5 - 1.9 ft	X	X	X	X	X	X	X		X	X
23A-0042-PLC1-CS	1.9 - 2.7 ft	X	X	X		X	X				
23A-0043-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X				
23A-0043-PLC1-BS	0.5 - 1.6 ft	X	X	X	X	X	X	X		X	X
23A-0044-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X				
23A-0045-PLC3-AS	0 - 0.5 ft	X	X	X	X	X	X				
23A-0046-PLC2-AS	0 - 0.5 ft	X	X	X	X	X	X			X	
23A-0046-PLC2-BS	0.5 - 1.4 ft	X	X	X	X	X	X	X		X	X
23A-0046-PLC2-CS	1.4 - 2.4 ft	X	X	X	X	X	X	X		X	X
23A-0048-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0048-PLC1-BS	0.5 - 3.2 ft	X	X	X	X	X	X	X		X	X
23A-0048-PLC1-CS	3.2 - 5 ft	X	X	X	X	X	X	X		X	X
23A-0049-B2C1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0049-B2C1-BS	0.5 - 2.2 ft	X	X	X	X	X	X	X		X	X
23A-0049-B2C1-CS	2.2 - 3.2 ft	X	X	X	X	X	X	X		X	X
23A-0050-B2C1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0050-B2C1-BS	0.5 - 2.7 ft	X	X	X	X	X	X	X		X	X
23A-0050-B2C1-CS	2.7 - 3.2 ft	X	X	X	X	X	X			X	X
23A-0051-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X				
23A-0051-PLC1-BS	0.5 - 2.2 ft	X	X	X	X	X	X	X		X	X
23A-0051-PLC1-CS	2.2 - 3.4 ft	X	X	X	X	X	X	X		X	X
23A-0052-PLC1-AS	0 - 0.5 ft	X	X	X		X	X				
23A-0052-PLC1-BS	0.5 - 1.9 ft	X	X	X	X	X	X	X		X	X
23A-0053-B1C1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0053-B1C1-BS	0.5 - 3.2 ft	X	X	X	X	X	X	X		X	X
23A-0053-B1C1-CS	3.2 - 5.7 ft	X	X	X	X	X	X	X		X	X
23A-0054-PLC2-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0054-PLC2-BS	0.5 - 1.5 ft	X	X	X	X	X	X	X		X	X
23A-0054-PLC2-CS	1.5 - 3 ft	X	X	X	X	X	X	X	X	X	X
23A-0055-B1C1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0055-B1C1-BS	0.5 - 2.1 ft	X	X	X	X	X	X	X		X	X
23A-0055-B1C1-CS	2.1 - 3.4 ft	X	X	X	X	X	X	X		X	X
23A-0056-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0056-PLC1-BS	0.5 - 2 ft	X	X	X	X	X	X	X		X	X
23A-0057-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0057-PLC1-BS	0.5 - 1.5 ft	X	X	X	X	X	X	X		X	X
23A-0057-PLC1-CS	1.5 - 2.5 ft	X	X	X	X	X	X	X		X	X
23A-0058-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X		
23A-0058-PLC2-BS	0.5 - 2 ft	X	X	X	X	X	X	X		X	
23A-0059-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0059-PLC1-AT	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0059-PLC1-BS	0.5 - 1.2 ft	X	X	X	X	X	X	X		X	X
23A-0059-PLC1-BT	0.5 - 1.2 ft	X	X	X	X	X	X	X		X	X
23A-0059-PLC1-CS	1.2 - 2 ft							X			
23A-0060-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0060-PLC1-BS	0.5 - 2 ft	X	X	X	X	X	X	X		X	X
23A-0060-PLC1-CS	2 - 3.6 ft	X	X	X	X	X	X	X		X	X
23A-0061-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0061-PLC1-AT	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0061-PLC1-BS	0.5 - 1.7 ft	X	X	X	X	X	X	X		X	X
23A-0061-PLC1-BT	0.5 - 1.7 ft	X	X	X	X	X	X	X		X	X
23A-0061-PLC1-CS	1.7 - 2.7 ft	X	X	X	X	X	X	X		X	X
23A-0061-PLC1-CT	1.7 - 2.7 ft	X	X	X	X	X	X	X		X	X
23A-0062-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0062-PLC1-BS	0.5 - 3 ft	X	X	X	X	X	X	X		X	X
23A-0062-PLC1-BT	0.5 - 3 ft	X	X	X	X	X	X	X		X	X
23A-0062-PLC1-CS	3 - 4.7 ft	X	X	X	X	X	X	X		X	X
23A-0063-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0063-PLC1-BS	0.5 - 3.7 ft	X	X	X	X	X	X	X		X	X
23A-0063-PLC1-BT	0.5 - 3.7 ft	X	X	X	X	X	X	X		X	X
23A-0063-PLC1-CS	3.7 - 4.9 ft	X	X	X	X	X	X	X		X	X
23A-0064-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0064-PLC1-AT	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0064-PLC1-BS	0.5 - 3.7 ft	X	X	X	X	X	X	X		X	X
23A-0064-PLC1-BT	0.5 - 3.7 ft	X	X	X	X	X	X	X		X	X
23A-0064-PLC1-CS	3.7 - 5.7 ft	X	X	X	X	X	X	X		X	X
23A-0064-PLC1-CT	3.7 - 5.7 ft	X	X	X	X	X	X	X		X	X

Table 3
Analyte List for Sediment Samples
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Sample ID	Depth Interval	PCB Congeners	PCDD/F	TCL SVOCs	TCL Pesticides	TAL Metals & Mercury	Cyanide	TCL VOCs	AVS/SEM	TOC	Grain size
23A-0065-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X			X	X
23A-0066-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0066-PLC1-BS	0.5 - 1.7 ft	X	X	X	X	X	X	X		X	X
23A-0067-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0067-PLC1-BS	0.5 - 2.3 ft	X	X	X	X	X	X	X		X	X
23A-0067-PLC1-CS	2.3 - 2.9 ft	X	X	X	X	X	X	X		X	X
23A-0068-PLC2-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0068-PLC2-BS	0.5 - 0.9 ft	X	X	X	X	X	X	X		X	X
23A-0069-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0069-PLC1-BS	0.5 - 3.4 ft	X	X	X	X	X	X	X		X	X
23A-0069-PLC1-CS	3.4 - 6 ft	X	X	X	X	X	X	X		X	X
23A-0070-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X	X	X	X
23A-0070-PLC1-BS	0.5 - 2.3 ft	X	X	X	X	X	X	X		X	X
23A-0070-PLC1-CS	2.3 - 4.2 ft	X	X	X	X	X	X	X		X	X
23A-0071-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0072-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0072-PLC1-AT	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0073-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0074-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0075-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0076-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0077-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0078-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0079-PLC1-AS	0 - 0.5 ft	X	X			X	X				
23A-0080-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0080-PLC1-AT	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0081-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0083-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0084-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0085-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0086-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0087-PLC1-AS	0 - 0.5 ft	X	X								
23A-0088-PLC1-AS	0 - 0.5 ft	X	X								
23A-0089-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X			
23A-0091-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0092-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0093-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X
23A-0094-PLC1-AS	0 - 0.5 ft	X	X	X	X	X	X	X		X	X

Notes:
(a) 23A-0020-PLC2-AS was a grab sample collected to supplement surface sediment volume from core 23A-0020-PLC1.
AVS/SEM - acid-volatile sulfide/simulateously extracted metals
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxins/furans
TAL - target analyte list
TCL - target compound list
TOC - total organic carbon
SVOCs - semi-volatile organic compounds
VOCs - volatile organic compounds

Table 4
Analytical Program Summary
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte Group	Method	Laboratory
Sediment		
TCL VOCs	SFAM01.1	Chemtech Consulting Group
TCL SVOCs	SFAM01.1	Chemtech Consulting Group
TCL Pesticides	SFAM01.1	Chemtech Consulting Group
PCB Congeners	USEPA 1628	SGS North America
PCDD/F	USEPA 1613B	SGS North America
Total Cyanide	SFAM01.1	Chemtech Consulting Group
TOC	Lloyd Kahn	Eurofins Lancaster
TAL Metals (ICP-MS) Mercury (CVAA)	SFAM01.1	Chemtech Consulting Group
AVS/SEM (applies to surface sediment from the Phase 1 reach only)	AVS/SEM	Eurofins Lancaster
Grain Size	ASTM D422 Modified	Eurofins Lancaster
Surface Water		
TLC VOCs	SFAM01.1	Chemtech Consulting Group
TCL SVOCs	SFAM01.1	Chemtech Consulting Group
TCL Pesticides	SFAM01.1	Chemtech Consulting Group
PCB Congeners	USEPA 1668C	SGS North America
PCDD/F	USEPA 1613B	SGS North America
Hexavalent Chromium	USEPA 218.6	Eurofins Lancaster
Total Cyanide	SFAM01.1	Chemtech Consulting Group
Total and Dissolved TAL Metals (ICP-MS) Mercury (CVAA)	SFAM01.1	Chemtech Consulting Group
PFAS	USEPA 537 mod Isotope Dilution	Eurofins Lancaster
Pore Water		
PAHs (a)	SFAM01.1	Chemtech Consulting Group
1,4-Dioxane (b)	SFAM01.1	Chemtech Consulting Group
PCB Congeners	USEPA 1668C	SGS North America
PCDD/F	USEPA 1613B	SGS North America
DOC	SM 5310C	Eurofins Lancaster
Total and Dissolved TAL Metals (ICP-MS) Mercury (CVAA)	SFAM01.1	Chemtech Consulting Group
Soil		
PCB Congeners	USEPA 1628	SGS North America

Table 4
Analytical Program Summary
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte Group	Method	Laboratory
PCDD/F	USEPA 1613B	SGS North America
TCL VOCs	SFAM01.1	Chemtech Consulting Group
TCL SVOCs	SFAM01.1	Chemtech Consulting Group
TAL Metals (ICP-MS) Mercury (CVAA)	SFAM01.1	Bonner Analytical Testing Company
Asbestos	USEPA 600	EMSL Analytical

Notes:

(a) Pore water samples were submitted for analysis of PAHs, however, the laboratory omitted this analysis.
(b) 1,4-dioxane was not a target analyte for pore water, however, the laboratory ran this analysis for two samples per the field chains of custody.
AVS/SEM – simultaneously extracted metals/acid-volatile sulfide
CVAA – cold vapor atomic absorption
DOC – dissolved organic carbon
ICP-MS – inductively coupled plasma mass spectrometry
PAH – polycyclic aromatic hydrocarbon
PCB – polychlorinated biphenyl
PCDD/F – dibenzodioxins/furans
PFAS – per- and polyfluoroalkyl substances
SVOCs – semi-volatile organic compounds
TCL – target compound list
TOC – total organic carbon
VOCs – volatile organic compounds
USEPA – United States Environmental Protection Agency

Table 5
Probing Depths
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location ID	Date	Time (Local)	Water Depth (ft)	Refusal Depth (ft)	Notes
JP-0007	06/27/23	15:08	2.60	5.5	Refusal on rock
JP-0008	06/27/23	15:44	5.20	6.1	Hard refusal
JP-0048	06/27/23	15:38	2.40	5.4	Hard refusal
JP-0029	06/28/23	17:05	3.30	5	Hard refusal
JP-0009	06/28/23	17:17	5	11	Hard refusal
JP-0002	06/29/23	15:15	3.3	6.7	Refusal on rock
JP-0061	06/29/23	15:58	1.5	4.5	Hard refusal
JP-0200	06/30/23	7:30	1.70	5.30	Refusal on gravel
JP-0201	06/30/23	8:08	6.20	6.50	Refusal on gravel
JP-0202	06/30/23	8:19	6.40	1.00	Refusal on rock
JP-0203	06/30/23	8:26	1.80	5.20	Refusal on gravel
JP-0204	06/30/23	8:34	5.00	1.00	Refusal on rock
JP-0205	06/30/23	8:42	4.10	2.00	Refusal on gravel
JP-0206	06/30/23	9:26	4.40	2.60	Refusal on gravel
JP-0207	06/30/23	9:35	7.10	2.20	Refusal on rock
JP-0208	06/30/23	9:51	4.30	4.30	Refusal on gravel
JP-0209	06/30/23	10:00	4.70	4.40	Refusal on gravel
JP-0210	06/30/23	10:08	7.20	2.50	Refusal on gravel
JP-0211	06/30/23	10:22	4.90	0.70	Refusal on gravel
JP-0212	06/30/23	10:34	6.40	0.80	Refusal on gravel
JP-0213	06/30/23	11:03	7.30	0.30	Refusal on rock
JP-0214	06/30/23	11:07	4.50	3.50	Refusal on rock
JP-0215	06/30/23	11:20	3.00	11.30	Refusal on rock

Table 6
Soil Boring and Sampling Interval Summary
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location ID	Date of Boring	Total Boring Depth (feet)	Depth to Water (feet)	Sample IDs	Sample Depths	Comments
23D-0001-PLS1	7/18/2023	1	0.8	23D-0001-PLS1-AS	0 - 1 ft	
23D-0002-PLS1	7/18/2023	0.75	NA	23D-0002-PLS1-AS	0 - 0.75 ft	
23D-0003-PLS1	7/18/2023	1.1	NA	23D-0003-PLS1-AS	0 - 1.1 ft	
23D-0004-PLS1	7/18/2023	0.5	NA	23D-0004-PLS1-AS	0 - 0.5 ft	B1/B2 locations also had shallow refusal.
23D-0005-PLS1	7/19/2023	1.6	1.4	23D-0005-PLS1-AS	0 - 1 ft	
				23D-0005-PLS1-BS	1 - 1.6 ft	
23D-0006-PLS1	7/19/2023	1.8	1.6	23D-0006-PLS1-AS	0 - 1 ft	
				23D-0006-PLS1-BS	1 - 1.8 ft	
23D-0007-PLS1	7/19/2023	0.5	NA	23D-0007-PLS1-AS	0 - 0.5 ft	B1/B2 locations were on rock. No alternate locations within 5 feet.
23D-0008-PLS1	7/19/2023	0.5	NA	23D-0008-PLS1-AS	0 - 0.5 ft	B1/B2 locations were on rock and or in water. No alternate locations within 5 feet.
23D-0009-NS	7/20/2023	-	-	-	-	No access agreement with MBTA.
23D-0010-PLS1	7/20/2023	0.15	0.15	23D-0010-PLS1-AS	0 - 0.15 ft	B1/B2 locations were on rock or in water. PLS1 location was accessible and only viable location, no alternate locations within 5-10 foot radius. Tile spade used to sample.
23D-0011-PLS1	7/20/2023	1	0.9	23D-0011-PLS1-AS	0 - 1 ft	
23D-0012-PLS1	7/20/2023	2	1	23D-0012-PLS1-AS	0 - 1 ft	
				23D-0012-PLS1-BS	1 - 2 ft	
23D-0013-PLS1	7/20/2023	0.3	NA	23D-0013-PLS1-AS	0 - 0.3 ft	Tile spade used for collection.
23D-0014-PLS1	7/20/2023	1.1	1	23D-0014-PLS1-AS	0 - 1.1 ft	
23D-0015-PLS1	7/21/2023	0.3	NA	23D-0015-PLS1-AS	0 - 0.3 ft	B1/B2 locations were in water. No alternate locations within 5-foot radius of PLS1 location. Tile spade used for collection.
23D-0016-PLS1	7/21/2023	0.3	NA	23D-0016-PLS1-AS	0 - 0.3 ft	B1/B2 locations were in water. No alternate locations within 5-foot radius of PLS1 location. Tile spade used for collection.
23D-0017-PLS1	7/21/2023	0.7	0.5	23D-0017-PLS1-AS	0 - 0.7 ft	Refused on rock.
23D-0018-PLS1	7/21/2023	0.8	NA	23D-0018-PLS1-AS	0 - 0.8 ft	Refused on rock. B1/B2 locations had shallow refusals.
23D-0019-NS	7/21/2023	-	-	-	-	No floodplain.
23D-0020-PLS1	7/24/2023	1	0.5	23D-0020-PLS1-AS	0 - 1 ft	
				Duplicate: 23D-0020-PLS1-AT	0 - 1 ft	
23D-0021-PLS1	7/24/2023	1	0.3	23D-0021-PLS1-AS	0 - 1 ft	
23D-0022-PLS1	7/24/2023	1	0.8	23D-0022-PLS1-AS	0 - 1 ft	
23D-0023-PLS1	7/24/2023	0.8	0.7	23D-0023-PLS1-AS	0 - 0.8 ft	B1/B2 locations were not accessible. Boring hit target depth but refused short of 1 foot run.
23D-0024-PLS1	7/24/2023	1	0.4	23D-0024-PLS1-AS	0 - 1 ft	
23D-0025-PLS1	7/24/2023	1	0.6	23D-0025-PLS1-AS	0 - 1 ft	
23D-0026-PLS1	7/25/2023	1.5	1	23D-0026-PLS1-AS	0 - 1 ft	
				23D-0026-PLS1-BS	1 - 1.5 ft	
23D-0027-PLS1	7/25/2023	1	0.8	23D-0027-PLS1-AS	0 - 1 ft	
23D-0028-PLS1	7/25/2023	0.8	0.8	23D-0028-PLS1-AS	0 - 0.8 ft	
23D-0029-PLS1	7/25/2023	1	0.9	23D-0029-PLS1-AS	0 - 1 ft	
23D-0030-PLS1	7/26/2023	1	0.6	23D-0030-PLS1-AS	0 - 1 ft	
23D-0031-B1S1	7/26/2023	1	0.9	23D-0031-B1S1-AS	0 - 1 ft	

Table 6
Soil Boring and Sampling Interval Summary
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Location ID	Date of Boring	Total Boring Depth (feet)	Depth to Water (feet)	Sample IDs	Sample Depths	Comments
23D-0032-PLS1	7/26/2023	2	1.7	23D-0032-PLS1-AS	0 - 1 ft	Added duplicate for B horizon since not many locations go past A horizon.
				23D-0032-PLS1-BS	1 - 2 ft	
				Duplicate: 23D-0032-PLS1-BT	1 - 2 ft	
23D-0033-PLS1	7/26/2023	1	0.7	23D-0033-PLS1-AS	0 - 1 ft	
23D-0034-NS	7/26/2023	-	-	-	-	No floodplain.
23D-0035-NS	7/26/2023	-	-	-	-	No floodplain.
23D-0036-NS	7/27/2023	-	-	-	-	No floodplain.
23D-0037-PLS1	7/27/2023	1	0.9	23D-0037-PLS1-AS	0 - 1 ft	
23D-0038-NS	7/27/2023	-	-	-	-	No floodplain.
23D-0039-NS	7/27/2023	-	-	-	-	No floodplain.
23D-0040-PLS1	7/27/2023	1	0.9	23D-0040-PLS1-AS	0 - 1 ft	
				Duplicate: 23D-0040-PLS1-AT	0 - 1 ft	
23D-0041-PLS1	7/27/2023	1	1	23D-0041-PLS1-AS	0 - 1 ft	
23D-0042-PLS1	7/27/2023	1.1	1.1	23D-0042-PLS1-AS	0 - 1 ft	
23D-0043-PLS1	7/27/2023	1.1	1	23D-0043-PLS1-AS	0 - 1 ft	
23D-0044-PLS1	7/28/2023	0.5	NA	23D-0044-PLS1-AS	0 - 0.5 ft	
23D-0045-PLS1	7/28/2023	0.7	NA	23D-0045-PLS1-AS	0 - 0.7 ft	Refused on rock, boney soils.
23D-0046-B1S1	7/28/2023	0.8	NA	23D-0046-B1S1-AS	0 - 0.8 ft	Refused on rock, boney soils.
23D-0047-PLS1	7/28/2023	2.5	2.3	23D-0047-PLS1-AS	0 - 1 ft	Finer soils, little to no rock.
				23D-0047-PLS1-BS	1.5 - 2.5 ft	
23D-0048-B2S1	7/28/2023	2	1.2	23D-0048-B2S1-AS	0 - 1 ft	Finer soils, little to no rock.
				23D-0048-B2S1-BS	1 - 2 ft	
23D-0049-B1S1	7/31/2023	1.4	NA	23D-0049-B1S1-AS	0 - 1 ft	PL/B2 locations were not in the floodplain, three attempts were made at B1 location.
				23D-0049-B1S1-BS	1 - 1.4 ft	
23D-0050-PLS1	7/31/2023	1	1	23D-0050-PLS1-AS	0 - 1 ft	
23D-0051-B1S1	7/31/2023	0.9	NA	23D-0051-B1S1-AS	0 - 0.9 ft	PL/B2 locations had shallower refusal.
23D-0052-PLS1	7/31/2023	1	0.6	23D-0052-PLS1-AS	0 - 1 ft	
23D-0053-PLS1	7/31/2023	2	1.8	23D-0053-PLS1-AS	0 - 1 ft	
				23D-0053-PLS1-BS	1 - 2 ft	
23D-0054-PLS1	7/31/2023	1	0.9	23D-0054-PLS1-AS	0 - 1 ft	
23D-0055-PLS1	7/31/2023	1.2	1.2	23D-0055-PLS1-AS	0 - 1 ft	Refused at 1.2 feet, groundwater encountered, sample from BS horizon not taken due to lack of soil. Three attempts were made.
23D-0056-PLS1	7/31/2023	1	NA	23D-0056-PLS1-AS	0 - 1 ft	
23D-0057-PLS1	7/31/2023	1	0.9	23D-0057-PLS1-AS	0 - 1 ft	
23D-0058-PLS1	8/1/2023	1.1	1.1	23D-0058-PLS1-AS	0 - 1 ft	
23D-0059-PLS1	8/1/2023	1	NA	23D-0059-PLS1-AS	0 - 1 ft	
				Duplicate: 23D-0059-PLS1-AT	0 - 1 ft	PLS location was only accessible location, B1/B2 locations were not accessible due to rock or trees. Three attempts were made at PLS location.
23D-0060-PLS1	8/1/2023	1	0.8	23D-0060-PLS1-AS	0 - 1 ft	
23D-0061-PLS1	8/1/2023	1	0.3	23D-0061-PLS1-AS	0 - 0.6 ft	

Table 6
Soil Boring and Sampling Interval Summary
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Boston, Massachusetts

Location ID	Date of Boring	Total Boring Depth (feet)	Depth to Water (feet)	Sample IDs	Sample Depths	Comments
23D-0062-PLS1	8/1/2023	1	0.6	23D-0062-PLS1-AS	0 - 1 ft	
23D-0063-PLS1	8/1/2023	0.5	0.4	23D-0063-PLS1-AS	0 - 0.5 ft	
23D-0064-B1S1	8/1/2023	0.6	NA	23D-0064-B1S1-AS	0 - 0.6 ft	PL/B2 locations were upgradient on rock revetment. Three attempts were made at B1 location, refusal on buried rock.
23D-0065-B1S1	8/2/2023	2	1.44	23D-0065-B1S1-AS	0 - 1 ft	B1 location chosen as PL/B2 locations were too close to edge of river.
				23D-0065-B1S1-BS	1 - 2 ft	
23D-0066-PLS1	8/2/2023	1	0.4	23D-0066-PLS1-AS	0 - 1 ft	
23D-0067-PLS1	8/2/2023	1	0.8	23D-0067-PLS1-AS	0 - 1 ft	
23D-0068-NS	8/2/2023	-	-	-	-	EPA elected not to collect sample from location due to access issues.
23D-0069-PLS1	8/3/2023	0.3	NA	23D-0069-PLS1-AS	0 - 0.3 ft	Only accessible location was PL location where there were thin soils over revetment stones. 3 attempts were made. Location is adjacent to Dana Street Bridge footings.
23D-0070-NS	-	-	-	-	-	Could not relocate sample outside property line due to outfall drain to the west and river armor to the east.
23D-0071-PLS1	8/3/2023	0.2	NA	23D-0071-PLS1-AS	0 - 0.2 ft	Shallow soils over revetment. No groundwater encountered, shallow refusal. PL location soils had greater depth than B1/B2 locations, which were on rock. Thin soils over revetment, unable to obtain groundwater.
23D-0072-B1S1	8/3/2023	0.9	NA	23D-0072-B1S1-AS	0 - 0.9 ft	Shallow soils over revetment. No groundwater encountered, shallow refusal. Boring at B1 location went the deepest of the three locations.
23D-0073-PLS1	8/3/2023	1	NA	23D-0073-PLS1-AS	0 - 1 ft	Shallow soils over revetment. No groundwater encountered, shallow refusal. B1/B2 locations had heavy roots/rootmat.
23D-0074-B1S1	8/3/2023	0.6	NA	23D-0074-B1S1-AS	0 - 0.6 ft	Shallow soils over revetment. No groundwater encountered, shallow refusal. Three attempts were made, B1 location had best penetration.
23D-0075-PLS1	8/3/2023	0.4	NA	23D-0075-PLS1-AS	0 - 0.4 ft	
23D-0076-PLS1	8/3/2023	0.6	NA	23D-0076-PLS1-AS	0 - 0.6 ft	Shallow soils over revetment. No groundwater encountered, shallow refusal. PL location was the only location that was accessible and was located under the bridge. Sample from footing scour revetment. Three attempts were made.
23D-0077-PLS1	8/3/2023	0.4	NA	23D-0077-PLS1-AS	0 - 0.4 ft	Shallow soils over revetment. No groundwater encountered, shallow refusal. PL/B1 locations were attempted, PL location was attempted twice. B2 location was not accessible.
23D-0078-PLS1	8/4/2023	0.6	NA	23D-0078-PLS1-AS	0 - 0.6 ft	
23D-0079-PLS1	8/4/2023	0.3	NA	23D-0079-PLS1-AS	0 - 0.3 ft	Shallow soils over slab armor. B1/B2 locations were on rock. Could not obtain depth to groundwater.
23D-0080-PLS1	8/4/2023	0.8	NA	23D-0080-PLS1-AS	0 - 0.8 ft	Shallow soils over armor. Only PL location could be located. No alternate areas or B1/B2 locations could be accessed due to rock armor. Could not obtain depth to groundwater.
				Duplicate: 23D-0080-PLS1-AT	0 - 0.8 ft	
23D-0081-B2S1	8/4/2023	0.7	NA	23D-0081-B2S1-AS	0 - 0.7 ft	Could not obtain depth to groundwater at PL/B1/B2 locations. B2 location had the best penetration.
23D-0082-PLS1	8/4/2023	3.2	3.1	23D-0082-PLS1-AS	0 - 1 ft	
				23D-0082-PLS1-BS	2.2 - 3.2 ft	
23D-0083-PLS1	8/7/2023	2.1	1.8	23D-0083-PLS1-AS	0 - 1 ft	
				23D-0083-PLS1-BS	1 - 2 ft	

Table 6
Soil Boring and Sampling Interval Summary
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Location ID	Date of Boring	Total Boring Depth (feet)	Depth to Water (feet)	Sample IDs	Sample Depths	Comments
23D-0084-PLS1	8/7/2023	2.5	2.4	23D-0084-PLS1-AS	0 - 1 ft	
				23D-0084-PLS1-BS	1.5 - 2.5 ft	
23D-0085-PLS1	8/7/2023	2.5	2	23D-0085-PLS1-AS	0 - 1 ft	
				23D-0085-PLS1-BS	1.5 - 2.5 ft	
23D-0086-PLS1	8/7/2023	3	2.5	23D-0086-PLS1-AS	0 - 1 ft	
				23D-0086-PLS1-BS	2 - 3 ft	
23D-0087-PLS1	8/7/2023	4	3.9	23D-0087-PLS1-AS	0 - 1 ft	
				23D-0087-PLS1-BS	3 - 4 ft	
23D-0088-PLS1	8/9/2023	2	1.4	23D-0088-PLS1-AS	0 - 1 ft	Depth to water was initially noted at 1.7 ft. Groundwater level rose in hole after obtaining 2 feet in depth.
				23D-0088-PLS1-BS	1 - 2 ft	
23D-0089-PLS1	8/9/2023	1	0.9	23D-0089-PLS1-AS	0 - 1 ft	
23D-0090-PLS1	8/9/2023	0.6	NA	23D-0090-PLS1-AS	0 - 0.6 ft	Three attempts were made, deepest boring was collected. Location in revetted area. PL location was only location attempted, B1/B2 locations were on rock revetment. Could not obtain depth to groundwater.
23D-0091-PLS1	8/9/2023	0.3	NA	23D-0091-PLS1-AS	0 - 0.3 ft	Three attempts made, deepest boring was collected. Location in revetted area. PL location had deepest penetration, B1/B2 locations had shallower refusal. Could not obtain depth to groundwater.
23D-0092-B1S1	8/9/2023	0.6	NA	23D-0092-B1S1-AS	0 - 0.6 ft	Three attempts were made, deepest boring was collected. Location in revetted area. PL/B2 locations had shallower refusal. Could not obtain depth to groundwater.
23D-0093-PLS1	8/9/2023	0.5	0.5	23D-0093-PLS1-AS	0 - 0.5 ft	
23D-0094-PLS1	8/9/2023	1	0.9	23D-0094-PLS1-AS	0 - 1 ft	PL location was only location attempted, B1/B2 locations were on rock revetment/armor.
23D-0095-PLS1	8/9/2023	0.3	0.3	23D-0095-PLS1-AS	0 - 0.3 ft	PL location was only location attempted, B1/B2 locations were on rock revetment/armor.
23D-0096-NS	8/4/2023	-	-	-	-	MBTA property/concrete & rock - no locations within 25+ foot radius to move samples to either east or west.
23D-0097-NS	8/4/2023	-	-	-	-	MBTA property/concrete & rock - no locations within 25+ foot radius to move samples to either east or west.
23D-0098-PLS1	8/9/2023	0.5	0.4	23D-0098-PLS1-AS	0 - 0.5 ft	B1 location was only location attempted and had limited soil, PL/B2 locations on rock revetment/armor.
23D-0099-PLS1	8/9/2023	0.6	0.5	23D-0099-PLS1-AS	0 - 0.6 ft	PL location was only location attempted and had limited soil, B1/B2 locations on rock revetment/armor.
23D-0100-B2S1	8/9/2023	2.2	2	23D-0100-B2S1-AS	0 - 1 ft	
				Duplicate: 23D-0100-B2S1-AT	0 - 1 ft	
				23D-0100-B2S1-BS	1.2 - 2.2 ft	
				Duplicate: 23D-0100-B2S1-BT	1.2 - 2.2 ft	
23D-0101-PLS1	8/9/2023	1.9	1.8	23D-0101-PLS1-AS	0 - 1 ft	
				23D-0101-PLS1-BS	1 - 1.9 ft	
23D-0102-PLS1	8/9/2023	2	2	23D-0102-PLS1-AS	0 - 1 ft	
				23D-0102-PLS1-BS	1 - 2 ft	
23D-0103-B1S1	8/9/2023	1.4	NA	23D-0103-B1S1-AS	0 - 1 ft	PL/B2 locations refused shallow, B1 location refused on rock, groundwater was not encountered.

Table 6
Soil Boring and Sampling Interval Summary
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Location ID	Date of Boring	Total Boring Depth (feet)	Depth to Water (feet)	Sample IDs	Sample Depths	Comments
23D-0104-PLS1	8/10/2023	1.7	1.4	23D-0104-PLS1-AS	0 - 1 ft	
				23D-0104-PLS1-BS	1 - 1.7 ft	
23D-0105-PLS1	8/10/2023	3	2.8	23D-0105-PLS1-AS	0 - 1 ft	
				23D-0105-PLS1-BS	2 - 3 ft	
23D-0106-B2S1	8/10/2023	1.5	1.4	23D-0106-B2S1-AS	0 - 1 ft	
				23D-0106-B2S1-BS	1 - 1.5 ft	
23D-0107-PLS1	8/10/2023	1.4	NA	23D-0107-PLS1-AS	0 - 1 ft	Three attempts were made, sample was collected from attempt with deepest refusal above the water table. Sample was not collected from BS horizon.
23D-0108-B1S1	8/10/2023	2	1.9	23D-0108-B1S1-AS	0 - 1 ft	
				23D-0108-B1S1-BS	1 - 2 ft	
23D-0109-PLS1	8/10/2023	2	1.7	23D-0109-PLS1-AS	0 - 1 ft	
				23D-0109-PLS1-BS	1 - 2 ft	
23D-0110-B1S1	8/10/2023	1	0.5	23D-0110-B1S1-AS	0 - 1 ft	B1 location most likely location where a sample could be collected, PL/B2 locations were likely shallow rock and/or roots.
23D-0111-B1S1	8/10/2023	0.3	NA	23D-0111-B1S1-AS	0 - 0.3 ft	
23D-0112-PLS1	8/10/2023	1.1	NA	23D-0112-PLS1-AS	0 - 1 ft	Gravelly/cobbly (boney) soils. Unable to advance auger to water table (BS sample), which was estimated to be at 4-5 feet based on PL location. Attempts were made at B1 & B2 locations with the same result. PL location is outside the fence line. Location is accessible through hole in fence. No MBTA issues as train moves further south away from Neponset River.
23D-0113-B1S1	8/10/2023	0.7	NA	23D-0113-B1S1-AS	0 - 0.7 ft	Three attempts were made, sample was collected from attempt with deepest refusal above water table. Sample was not collected from BS horizon. B1 location was only location attempted, PL/B2 locations were outside fenceline.
23D-0114-B2S1	8/10/2023	0.8	0.8	23D-0114-B2S1-AS	0 - 0.8 ft	Three attempts were made, sample was collected from attempt with deepest refusal above water table. Sample was not collected from BS horizon.
23D-0115-PLS1	8/11/2023	1.5	NA	23D-0115-PLS1-AS	0 - 1 ft	Boney soils made augering to water not possible. Sample was not collected from BS horizon.
23D-0116-PLS1	8/11/2023	1	NA	23D-0116-PLS1-AS	0 - 1 ft	Boney soils made augering to water not possible. Sample was not collected from BS horizon.
23D-0117-B1S1	8/11/2023	1.9	1.8	23D-0117-B1S1-AS	0 - 1 ft	
				23D-0117-B1S1-BS	1 - 1.9 ft	
23D-0118-PLS1	8/11/2023	2	1.6	23D-0118-PLS1-AS	0 - 1 ft	
				23D-0118-PLS1-BS	1 - 2 ft	
23D-0119-PLS1	8/11/2023	1.8	1.6	23D-0119-PLS1-AS	0 - 1 ft	
				23D-0119-PLS1-BS	1 - 1.8 ft	
23D-0120-PLS1	8/11/2023	2	1.2	23D-0120-PLS1-AS	0 - 1 ft	
				Duplicate: 23D-0120-PLS1-AT	0 - 1 ft	
				23D-0120-PLS1-BS	1 - 2 ft	
				Duplicate: 23D-0120-PLS1-BT	1 - 2 ft	

Table 7
Analyte List for Floodplain Soil Samples
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Sample ID	Depth Interval	PCB Congeners	PCDD/F	TCL SVOCs	TAL Metals and Mercury	TCL VOCs	Asbestos
23D-0001-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0002-PLS1-AS	0 - 0.75 ft	X	X	X	X	X	X
23D-0003-PLS1-AS	0 - 1.1 ft	X	X	X	X	X	X
23D-0004-PLS1-AS	0 - 0.5 ft	X	X	X	X	X	X
23D-0005-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0005-PLS1-BS	1 - 1.6 ft	X	X	X	X	X	X
23D-0006-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0006-PLS1-BS	1 - 1.8 ft	X	X	X	X	X	X
23D-0007-PLS1-AS	0 - 0.5 ft	X	X	X	X	X	X
23D-0008-PLS1-AS	0 - 0.5 ft	X	X	X	X	X	X
23D-0010-PLS1-AS	0 - 0.15 ft	X	X	X	X		X
23D-0011-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0012-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0012-PLS1-BS	1 - 2 ft	X	X	X	X	X	X
23D-0013-PLS1-AS	0 - 0.3 ft	X	X	X	X		X
23D-0014-PLS1-AS	0 - 1.1 ft	X	X	X	X	X	X
23D-0015-PLS1-AS	0 - 0.3 ft	X	X	X	X		X
23D-0016-PLS1-AS	0 - 0.3 ft	X	X	X	X		X
23D-0017-PLS1-AS	0 - 0.7 ft	X	X	X	X	X	X
23D-0018-PLS1-AS	0 - 0.8 ft	X	X	X	X	X	X
23D-0020-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0020-PLS1-AT	0 - 1 ft	X	X	X	X	X	X
23D-0021-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0022-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0023-PLS1-AS	0 - 0.8 ft	X	X	X	X	X	X
23D-0024-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0025-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0026-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0026-PLS1-BS	1 - 1.5 ft	X	X	X	X	X	X
23D-0027-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0028-PLS1-AS	0 - 0.8 ft	X	X	X	X	X	X
23D-0029-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0030-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0031-B1S1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0032-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0032-PLS1-BS	1 - 2 ft	X	X	X	X	X	X
23D-0032-PLS1-BT	1 - 2 ft	X	X	X	X	X	X
23D-0033-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0037-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0040-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0040-PLS1-AT	0 - 1 ft	X	X	X	X	X	X
23D-0041-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0042-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0043-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0044-PLS1-AS	0 - 0.5 ft	X	X	X	X	X	X
23D-0045-PLS1-AS	0 - 0.7 ft	X	X	X	X	X	X
23D-0046-B1S1-AS	0 - 0.8 ft	X	X	X	X	X	X
23D-0047-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0047-PLS1-BS	1.5 - 2.5 ft	X	X	X	X	X	X
23D-0048-B2S1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0048-B2S1-BS	1 - 2 ft	X	X	X	X	X	X
23D-0049-B1S1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0049-B1S1-BS	1 - 1.4 ft	X	X	X	X	X	X
23D-0050-PLS1-AS	0 - 1 ft	X	X	X	X	X	X

Table 7
Analyte List for Floodplain Soil Samples
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Sample ID	Depth Interval	PCB Congeners	PCDD/F	TCL SVOCs	TAL Metals and Mercury	TCL VOCs	Asbestos
23D-0051-B1S1-AS	0 - 0.9 ft	X	X	X	X	X	X
23D-0052-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0053-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0053-PLS1-BS	1 - 2 ft	X	X	X	X	X	X
23D-0054-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0055-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0056-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0057-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0058-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0059-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0059-PLS1-AT	0 - 1 ft	X	X	X	X	X	X
23D-0060-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0061-PLS1-AS	0 - 0.6 ft	X	X	X	X	X	X
23D-0062-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0063-PLS1-AS	0 - 0.5 ft	X	X	X	X	X	X
23D-0064-B1S1-AS	0 - 0.6 ft	X	X	X	X	X	X
23D-0065-B1S1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0065-B1S1-BS	1 - 2 ft	X	X	X	X	X	X
23D-0066-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0067-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0069-PLS1-AS	0 - 0.3 ft	X	X	X	X	X	X
23D-0071-PLS1-AS	0 - 0.2 ft	X	X	X	X	X	X
23D-0072-B1S1-AS	0 - 0.9 ft	X	X	X	X	X	X
23D-0073-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0074-B1S1-AS	0 - 0.6 ft	X	X	X	X	X	X
23D-0075-PLS1-AS	0 - 0.4 ft	X	X	X	X	X	X
23D-0076-PLS1-AS	0 - 0.6 ft	X	X	X	X	X	X
23D-0077-PLS1-AS	0 - 0.4 ft	X	X	X	X	X	X
23D-0078-PLS1-AS	0 - 0.6 ft	X	X	X	X	X	X
23D-0079-PLS1-AS	0 - 0.3 ft	X	X	X	X	X	X
23D-0080-PLS1-AS	0 - 0.8 ft	X	X	X	X	X	X
23D-0080-PLS1-AT	0 - 0.8 ft	X	X	X	X	X	X
23D-0081-B2S1-AS	0 - 0.7 ft	X	X	X	X	X	X
23D-0082-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0082-PLS1-BS	2.2 - 3.2 ft	X	X	X	X	X	X
23D-0083-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0083-PLS1-BS	1 - 2 ft	X	X	X	X	X	X
23D-0084-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0084-PLS1-BS	1.5 - 2.5 ft	X	X	X	X	X	X
23D-0085-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0085-PLS1-BS	1.5 - 2.5 ft	X	X	X	X	X	X
23D-0086-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0086-PLS1-BS	2 - 3 ft	X	X	X	X	X	X
23D-0087-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0087-PLS1-BS	3 - 4 ft	X	X	X	X	X	X
23D-0088-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0088-PLS1-BS	1 - 2 ft	X	X	X	X	X	X
23D-0089-PLS1-AS	0 - 1 ft	X	X	X	X	X	X

Table 7
Analyte List for Floodplain Soil Samples
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Sample ID	Depth Interval	PCB Congeners	PCDD/F	TCL SVOCs	TAL Metals and Mercury	TCL VOCs	Asbestos
23D-0090-PLS1-AS	0 - 0.6 ft	X	X	X	X	X	X
23D-0091-PLS1-AS	0 - 0.3 ft	X	X	X	X	X	X
23D-0092-B1S1-AS	0 - 0.6 ft	X	X	X	X	X	X
23D-0093-PLS1-AS	0 - 0.5 ft	X	X	X	X	X	X
23D-0094-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0095-PLS1-AS	0 - 0.3 ft	X	X	X	X	X	X
23D-0098-PLS1-AS	0 - 0.5 ft	X	X	X	X	X	X
23D-0099-PLS1-AS	0 - 0.6 ft	X	X	X	X	X	X
23D-0100-B2S1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0100-B2S1-AT	0 - 1 ft	X	X	X	X	X	X
23D-0100-B2S1-BS	1.2 - 2.2 ft	X	X	X	X	X	X
23D-0100-B2S1-BT	1.2 - 2.2 ft	X	X	X	X	X	X
23D-0101-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0101-PLS1-BS	1 - 1.9 ft	X	X	X	X	X	X
23D-0102-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0102-PLS1-BS	1 - 2 ft	X	X	X	X	X	X
23D-0103-B1S1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0104-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0104-PLS1-BS	1 - 1.7 ft	X	X	X	X	X	X
23D-0105-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0105-PLS1-BS	2 - 3 ft	X	X	X	X	X	X
23D-0106-B2S1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0106-B2S1-BS	1 - 1.5 ft	X	X	X	X	X	X
23D-0107-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0108-B1S1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0108-B1S1-BS	1 - 2 ft	X	X	X	X	X	X
23D-0109-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0109-PLS1-BS	1 - 2 ft	X	X	X	X	X	X
23D-0110-B1S1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0111-B1S1-AS	0 - 0.3 ft	X	X	X	X	X	X
23D-0112-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0113-B1S1-AS	0 - 0.7 ft	X	X	X	X	X	X
23D-0114-B2S1-AS	0 - 0.8 ft	X	X	X	X	X	X
23D-0115-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0116-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0117-B1S1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0117-B1S1-BS	1 - 1.9 ft	X	X	X	X	X	X
23D-0118-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0118-PLS1-BS	1 - 2 ft	X	X	X	X	X	X
23D-0119-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0119-PLS1-BS	1 - 1.8 ft	X	X	X	X	X	X
23D-0120-PLS1-AS	0 - 1 ft	X	X	X	X	X	X
23D-0120-PLS1-AT	0 - 1 ft	X	X	X	X	X	X
23D-0120-PLS1-BS	1 - 2 ft	X	X	X	X	X	X
23D-0120-PLS1-BT	1 - 2 ft	X	X	X	X	X	X

Notes:
PCB - polychlorinated biphenyl
PCDD/F - dibenzodioxins/furans
TAL - target analyte list
TCL - target compound linst
SVOCs - semi-volatile organic compounds
VOCs - volatile organic compounds

Table 8
Analyte List for Surface Water Samples
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Sample ID	Sample Date	Depth Interval	PCB Congeners	PCDD/F	TCL SVOCs	Dissolved TAL Metals and Mercury	Total TAL Metals and Mercury	TCL VOCs	Hexavalent Chromium	Total Cyanide	PFAS
23B-0012-PLW-AT-F	10/19/2023	0.6 - 0.6 ft				X			X		
23B-0012-PLW-AT-T	10/19/2023	0.6 - 0.6 ft	X	X	X		X	X		X	X
23B-0021-PLW-AT-F	10/25/2023	1.5 - 1.5 ft				X			X		
23B-0021-PLW-AT-T	10/25/2023	1.5 - 1.5 ft	X	X	X		X	X		X	X
23B-0045-PLW-AT-F	10/23/2023	2.1 - 2.1 ft				X			X		
23B-0045-PLW-AT-T	10/23/2023	2.1 - 2.1 ft	X	X	X		X	X		X	X
23B-0062-PLW-AT-F	10/24/2023	0.5 - 0.5 ft				X			X		
23B-0062-PLW-AT-T	10/24/2023	0.5 - 0.5 ft	X	X	X		X	X		X	X
23B-0077-PLW-AT-F	11/9/2023	1.3 - 1.3 ft				X			X		
23B-0077-PLW-AT-T	11/9/2023	1.3 - 1.3 ft	X	X	X		X	X		X	X
23B-0079-PLW-AT-F	10/25/2023	2.25 - 2.25 ft				X			X		
23B-0079-PLW-AT-T	10/25/2023	2.25 - 2.25 ft	X	X	X		X	X		X	X

Notes:
PCB - polychlorinated biphenyl
PCDD/F - dibenzodioxins/furans
PFAS - per- and polyfluoroalkyl substances
TAL - target analyte list
TCL - target compound linst
SVOCs - semi-volatile organic compounds
VOCs - volatile organic compounds

Table 9
Analyte List for Pore Water Samples
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Sample ID	Sample Date	Depth Interval	PCB Congeners	PCDD/F	PAHs (a)	1,4-Dioxane (b)	Dissolved TAL Metals and Mercury	Total TAL Metals and Mercury	DOC
23C-0008-PLP-AS-F	10/26/2023	~ 0.5 ft					X		X
23C-0008-PLP-AS-T	10/26/2023	~ 0.5 ft	X	X	X			X	
23C-0008-PLP-AT-F	10/26/2023	~ 0.5 ft					X		X
23C-0008-PLP-AT-T	10/26/2023	~ 0.5 ft			X			X	
23C-0023-PLP-AS-F	10/25/2023	~ 0.5 ft					X		X
23C-0023-PLP-AS-T	10/25/2023	~ 0.5 ft	X	X	X	X		X	
23C-0029-PLP-AS-F	10/26/2023	~ 0.5 ft					X		X
23C-0029-PLP-AS-T	10/26/2023	~ 0.5 ft	X	X	X			X	
23C-0055-PLP-AS-F	10/26/2023	~ 0.5 ft					X		X
23C-0055-PLP-AS-T	10/26/2023	~ 0.5 ft	X	X	X			X	
23C-0055-PLP-AT-T	10/26/2023	~ 0.5 ft	X	X					
23C-0059-PLP-AS-F	10/27/2023	~ 0.5 ft					X		X
23C-0059-PLP-AS-T	10/27/2023	~ 0.5 ft	X	X	X	X		X	

Notes:
(a) Pore water samples were submitted for analysis of PAHs, however, the laboratory omitted this analysis.
(b) 1,4-dioxane was not a target analyte for pore water, however, the laboratory ran this analysis for two samples per the field chains of custody.
DOC - dissolved organic carbon
PCB - polychlorinated biphenyl
PCDD/F - dibenzodioxins/furans
PAHs - polycyclic aromatic hydrocarbons
TAL - target analyte list

Table 10
Nonconformance Reports
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Nonconformance Report Number	Field Program	Subject
NC-20230703-01	Sediment	PCB Congener and PCDD/F sample not received at lab
NC-20230718-01	Soil	Locating floodplain soil sampling locations, sample IDs
NC-20230719-01	Soil	Locations where samples were not collected
NC-20230720-01	Soil	No VOCs collected for surface samples at locations 23D-0010, 23D-0013, 23D-0015, and 23D-0016
NC-20230720-02	All	Chain of custody discrepancies
NC-20230721-01	Soil	"A" sample depth interval was less than 1 foot for select locations.
NC-20230721-02	All	Log books not maintained for core processing team
NC-20230722-01	Sediment	Certain analytes not collected
NC-20230722-02	Sediment	Augmentation of sample volume A horizon with grab
NC-20230724-01	Sediment	Sample 23A-0030-PLC1-BS - PCDD/F and PCBs received under wrong COC
NC-20230724-02	Sediment	PID calibration
NC-20230725-01	Soil	Second boring to achieve mass for BS horizon at 23D-0026
NC-20230725-02	Sediment	VOC samples were frozen to increase the holding time
NC-20230726-01	Sediment/Soil	Cooler label numbering
NC-20230918-01	Sediment	Sample ID inconsistency between EQUIS and SCRIBE
NC-20230919-01	Soil	PCB PE samples were shipped after soil sampling event had concluded
NC-20231030-01	Sediment	Reference sediment collection for Upper Neponset River--additional number of attempts, need for composite grabs to get sufficient volume, adjustments to locations
NC-20240226-01	Sediment	Sediment IDW was not segregated

Notes
IDW - investigation derived waste
PCBs - polychlorinated biphenyls
PCDD/F - dibenzodioxins/furans
PE - performance evaluation
PID - photoionzation detector
VOCs - volatile organic compounds

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0001-PLC1	23A-0001-PLC1	23A-0001-PLC1	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0003-PLC1	23A-0004-B2C1
				Sample Name	23A-0001-PLC1-AS	23A-0001-PLC1-BS	23A-0001-PLC1-CS	23A-0002-PLC2-AS	23A-0002-PLC2-BS	23A-0002-PLC2-CS	23A-0002-PLC2-BT	23A-0002-PLC2-CT	23A-0003-PLC1-AS	23A-0004-B2C1-AS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	FD	FD	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.3 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 6 ft	0.5 - 3.1 ft	3.1 - 6 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 2.0 UJ	< 2.0 U	< 2.0 U	0.86 J	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 1.9 U	< 2.2 UJ
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.8 U	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 1.9 U	< 2.2 UJ
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.8 U	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 1.9 U	< 2.2 UJ
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.8 U	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 1.9 U	< 2.2 UJ
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 3.9 UJ	< 3.9 U	< 3.9 U	1.3 J	< 3.7 U	0.40 J	< 3.8 U	< 3.8 U	< 3.7 U	< 4.3 UJ
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.8 U	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 1.9 U	< 2.2 UJ
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		7.5 J	20 J	28 J	0.37 J	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 1.9 U	4.5 J
DIELDRIN	60-57-1	ug/kg	34	1.9	< 3.9 UJ	< 3.9 U	< 3.9 U	< 5.5 U	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.7 U	< 4.3 UJ
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 3.9 UJ	1.9 J+	< 3.9 U	< 5.5 U	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.7 U	1.4 J
ENDRIN	72-20-8	ug/kg	1900	2.22	< 3.9 UJ	< 3.9 U	8.4 J	< 5.5 U	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.7 U	1.4 J
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 3.9 UJ	< 3.9 U	< 3.9 U	< 5.5 U	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.7 U	< 4.3 UJ
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 3.9 UJ	< 3.9 U	< 3.9 U	< 5.5 U	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.7 U	< 4.3 UJ
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	2.7 J	< 2.0 U	20 J	< 2.8 U	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	0.49 J	1.1 J
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.8 U	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 1.9 U	< 2.2 UJ
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	< 2.0 UJ	3.3 J	< 2.0 U	1.2 J	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 1.9 U	2.7 J
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 20 UJ	< 20 U	< 20 U	< 28 U	< 19 U	< 20 U	< 20 U	< 20 U	< 19 U	< 22 UJ
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	< 3.9 UJ	2.6 J	6.1 J	< 5.5 U	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.7 U	1.3 J
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 3.9 UJ	< 3.9 U	3.3 J	< 5.5 U	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.7 U	< 4.3 UJ
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	3.7 J	8.6 J	7.7 J	0.58 J	< 3.7 UJ	< 3.8 UJ	< 3.8 UJ	< 3.8 UJ	< 3.7 U	7.4 J-
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 200 UJ	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 200 U	< 200 U	< 190 U	< 220 UJ
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		< 2.0 UJ	6.4 J	< 2.0 U	0.69 J	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	0.55 J	5.3 J
Grain Size														
%CLAY	%CLAY	%			-	5.1	4.9	0	13.3	13.2	13.3	0	5	0
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			-	10.5	5.5	29.8	10.8	1.7	5.9	31.5	16.7	5.7
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			-	8.1	4.7	9.2	25.5	45.6	23.5	43.6	15.4	43.7
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			-	19.3	40.2	22.1	12.8	7.2	13.4	9.7	5.7	43.3
Gravel	GRAVEL	%			-	20.1	27.6	38.9	13.8	0.2	23	15.2	30.1	7.3
Hydrometer, Reading 1, Percent Passing	HYD01	%			-	6.5	6.3	15.6	22.5	28.3	25.5	16.6	7.2	18
Hydrometer, Reading 2, Percent Passing	HYD02	%			-	6.5	6.3	15.6	16.4	19.2	19.4	16.6	7.2	18
Hydrometer, Reading 3, Percent Passing	HYD03	%			-	5.1	6.3	15.6	16.4	16.2	16.3	16.6	7.2	18
Hydrometer, Reading 4, Percent Passing	HYD04	%			-	5.1	6.3	15.6	13.3	16.2	16.3	13.5	6.1	18
Hydrometer, Reading 5, Percent Passing	HYD05	%			-	5.1	4.9	12	13.3	13.2	13.3	13.5	5	15.3
Hydrometer, Reading 6, Percent Passing	HYD06	%			-	3.7	4.9	12	13.3	10.1	10.2	10.4	4	12.6
Hydrometer, Reading 7, Percent Passing	HYD07	%			-	3.7	4.9	12	10.2	10.1	10.2	10.4	4	12.6
Sand	308075-07-2	%			-	37.9	50.4	61.1	49.1	54.5	42.8	84.8	37.8	92.7
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			-	69.4	66.9	31.3	75.4	98.1	71.1	53.3	53.2	87
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			-	50.1	26.7	9.2	62.6	90.9	57.7	43.6	47.5	43.7
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			-	44.2	23.6	0	51.4	72	47.3	26	37.3	3.5
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			-	61.5	48.1	20.1	68.7	95.1	63.5	49.1	53.2	75.1
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			-	45.7	24.8	1.6	57	83.6	52.6	36.3	41	14.4
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			-	43.4	23	0	48	64.8	44.6	17.8	35.4	0.4
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			-	42	22	0	37.1	45.3	34.2	0	32.1	0
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			-	79.9	72.4	61.1	86.2	99.8	77	84.8	69.9	92.7
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			-	100	85.3	84.7	91.1	100	86	94.9	87.8	94.3
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			-	100	100	100	100	100	100	100	100	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			-	100	100	100	100	100	100	100	100	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			-	100	100	100	100	100	100	100	100	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			-	100	100	100	100	100	100	100	100	100
SILT	445	%			-	36.9	17.1	0	23.8	32.1	20.9	0	27.1	0

Table 11
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				Location	23A-0001-PLC1	23A-0001-PLC1	23A-0001-PLC1	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0003-PLC1	23A-0004-B2C1
				Sample Name	23A-0001-PLC1-AS	23A-0001-PLC1-BS	23A-0001-PLC1-CS	23A-0002-PLC2-AS	23A-0002-PLC2-BS	23A-0002-PLC2-CS	23A-0002-PLC2-BT	23A-0002-PLC2-CT	23A-0003-PLC1-AS	23A-0004-B2C1-AS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	FD	FD	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.3 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 6 ft	0.5 - 3.1 ft	3.1 - 6 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	48.5	77.3	45.9	302 J	3.50 J	3.10 J	2.42 J	6.23 JN	5.45 JN	457
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	1.57 JN	3.16 J	2.98 J	7.24 J	< 0.173 UJ	< 0.136 UJ	< 0.298 UJ	< 1.17 UJ	< 0.468 U	4.19
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	< 0.542 U	1.47 JN	1.16 J	4.68 J	< 0.244 UJ	0.415 J	< 0.278 UJ	< 0.9 UJ	< 0.689 U	4.27
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	7.00 J	8.28 J	8.44 J	16.3 J	< 4.66 UJ	< 4.76 UJ	< 4.92 UJ	< 4.48 UJ	0.744 JN	12.3
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	3.06 J	4.56 J	2.51 J	17.1 J	< 0.242 UJ	< 0.393 UJ	< 0.274 UJ	< 1.05 UJ	< 0.767 U	22.6
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	2.76 JN	4.08 J+	3.48 J+	9.47 J	< 0.17 UJ	< 0.129 UJ	< 0.24 UJ	< 0.745 UJ	< 0.388 U	5.00 JN
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	1.21 JN	2.84 J	1.65 JN	10.6 J	< 0.246 UJ	0.481 JN	< 0.275 UJ	< 2.17 UJ	< 0.714 U	13.7
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.375 U	< 0.531 U	< 0.431 U	< 0.285 UJ	< 0.206 UJ	< 0.155 UJ	< 0.289 UJ	< 1.07 UJ	< 0.552 U	< 1.68 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	< 0.48 UJ	< 0.902 UJ	< 0.672 UJ	2.13 JN	< 0.284 UJ	< 0.215 UJ	< 0.24 UJ	< 0.896 UJ	< 0.706 UJ	2.49 J
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	1.02 J+	2.77 J+	2.81 J+	2.73 J	< 0.182 UJ	< 0.123 UJ	< 0.193 UJ	< 0.494 UJ	< 0.44 U	1.54
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	34.6	40.6	22.0	201 J	0.475 JN	< 0.123 UJ	0.568 J	4.21 J	2.28 J	212 J+
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	2.53 J	4.64 J	3.51 J	8.69 J	< 0.233 UJ	< 0.168 UJ	< 0.274 UJ	< 1.42 UJ	< 0.562 U	5.45
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	6.44	15.9	14.5	12.7 J	< 0.195 UJ	< 0.144 UJ	< 0.213 UJ	< 0.473 UJ	1.04 JN	8.87
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 0.701 U	< 0.985 U	< 0.684 U	< 0.323 UJ	< 0.569 UJ	< 0.466 UJ	< 0.391 UJ	< 1.2 UJ	< 1.12 UJ	< 1.98 UJ
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	2.07 JN	8.99	7.77	4.35 J	< 0.255 UJ	< 0.144 UJ	< 0.128 UJ	< 0.341 UJ	< 0.54 U	3.07
OCDD	3268-87-9	pg/g	16000	5000	347	655	198	2250 J	113 J	127 J	92.8 J	171 J	45.4 JN	2440
OCDF	39001-02-0	pg/g	16000	5000	34.1	50.6	28.2 JN	230 J	< 0.576 UJ	0.372 JN	< 0.662 UJ	< 3.46 UJ	2.26 JN	183
Total HpCDD (a)	RA_Total_HpCDD	pg/g			48.5	77.3	45.9	302	3.50	3.10	2.42	6.23	5.45	457
Total HpCDF (a)	RA_Total_HpCDF	pg/g			36.2	43.8	25.0	208	0.475	< 0.136 U	0.568	4.21	2.28	216
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		4.27	8.87	5.32	32.4	< 0.246 U	0.896	< 0.278 U	< 2.17 U	< 0.767 U	40.6
Total HxCDF (a)	RA_Total_HxCDF	pg/g			12.3	17.0	15.4	34.5	< 4.66 U	< 4.76 U	< 4.92 U	< 4.48 U	0.744	22.8
Total PeCDD (a)	RA_Total_PeCDD	pg/g			< 0.48 U	< 0.902 U	< 0.672 U	2.13	< 0.284 U	< 0.215 U	< 0.24 U	< 0.896 U	< 0.706 U	2.49
Total PeCDF (a)	RA_Total_PeCDF	pg/g			7.46	18.7	17.3	15.4	< 0.195 U	< 0.144 U	< 0.213 U	< 0.494 U	1.04	10.4
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.701 U	< 0.985 U	< 0.684 U	< 0.323 U	< 0.569 U	< 0.466 U	< 0.391 U	< 1.2 U	< 1.12 U	< 1.98 U
Total TCDF (a)	RA_Total_TCDF	pg/g			2.07	8.99	7.77	4.35	< 0.255 U	< 0.144 U	< 0.128 U	< 0.341 U	< 0.54 U	3.07
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	36.3 EB	226 JEB	115 JEB	6.02 JEB	< 0.0351 U	< 0.0358 U	< 0.0370 U	< 0.0337 U	0.705 JEB	227 JEB
PCB-002	2051-61-8	ng/g	230	14.0	0.929 JEB	4.67 JEB	2.93 JEB	< 0.0532 U	< 0.0506 U	< 0.0515 U	< 0.0533 U	< 0.0486 U	< 0.0532 U	1.32 JEB
PCB-003	2051-62-9	ng/g	230	14.0	18.4 JEB	86 JEB	62.6 JEB	2.69 JEB	< 0.0493 U	< 0.0502 U	< 0.0519 U	< 0.0473 U	< 0.0518 U	33.2
PCB-004/010	PCB-4/10	ng/g	230	14.0	230 JEB	1120 JEB	766 JEB	26.6 EB	< 0.0881 U	< 0.0898 U	< 0.0928 U	< 0.0846 U	3.04 JEB	381 J
PCB-005/008	PCB-5/8	ng/g	230	14.0	137 JEB	383 JEB	565 JEB	17.5 JEB	< 0.0842 U	< 0.0858 U	< 0.0887 U	< 0.0809 U	2.49 JEB	274 J
PCB-006	25569-80-6	ng/g	230	14.0	30.6 EB	110 JEB	251 JEB	4.15 JEB	< 0.0491 U	< 0.0500 U	< 0.0517 U	< 0.0471 U	0.797 JEB	55.7 J
PCB-007/009	PCB-7/9	ng/g	230	14.0	9.68 J	42.1 J	48.5 J	0.863 J	< 0.0851 U	< 0.0867 U	< 0.0897 U	< 0.0817 U	< 0.0895 U	12.3 J
PCB-011	2050-67-1	ng/g	230	14.0	6.75 JEB	21 EB	46.4 JEB	0.928 JEB	< 0.0469 U	< 0.0477 U	< 0.0494 U	< 0.0450 U	< 0.0493 U	7.63 JEB
PCB-012/013	PCB-12/13	ng/g	230	14.0	42.1 J	153 J	253 J	2.94 J	< 0.0844 U	< 0.0860 U	< 0.0889 U	< 0.0810 U	< 0.0887 U	27.3
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0488 U	< 0.0497 U	< 0.0496 U	< 0.0494 U	< 0.0471 U	< 0.0479 U	< 0.0496 U	< 0.0452 U	< 0.0495 U	< 0.0499 U
PCB-015	2050-68-2	ng/g	230	14.0	276 JEB	724 JEB	1170 JEB	30.8 EB	< 0.0431 U	< 0.0439 U	< 0.0454 U	< 0.0414 U	4.12 JEB	212 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	346 JEB	908 JEB	1330 JEB	35.2 JEB	< 0.122 UJ	< 0.125 UJ	< 0.129 UJ	< 0.118 UJ	7.96 JEB	215 JEB
PCB-017	37680-66-3	ng/g	230	14.0	214 JEB	527 JEB	864 JEB	18.1 JEB	< 0.0540 U	< 0.0550 U	< 0.0568 U	< 0.0518 U	5.03 JEB	130 JEB
PCB-018	37680-65-2	ng/g	230	14.0	101 JEB	290 JEB	619 JEB	12.4 JEB	< 0.0624 UJ	< 0.0635 UJ	< 0.0657 UJ	< 0.0599 UJ	5.35 JEB	81.9 JEB
PCB-019	38444-73-4	ng/g	230	14.0	122 JEB	412 JEB	352 JEB	13.2 JEB	< 0.0424 U	< 0.0432 U	< 0.0446 U	< 0.0407 U	2.29 JEB	94.7 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	20 EB	54.9 JEB	116 JEB	39.3 JEB	< 0.131 U	< 0.133 U	< 0.138 U	< 0.125 U	2.02 JEB	15.4 JEB
PCB-022	38444-85-8	ng/g	230	14.0	38.4 EB	136 JEB	168 JEB	11.3 JEB	< 0.0465 U	< 0.0474 U	< 0.0490 U	< 0.0446 U	2.31 JEB	19.7 JEB
PCB-023/034	PCB-23/34	ng/g	230	14.0	2.93 J	7.54 J	16.3 J	< 0.0893 U	< 0.0850 U	< 0.0865 U	< 0.0895 U	< 0.0816 U	< 0.0893 U	2.83 J
PCB-024/027	PCB-24/27	ng/g	230	14.0	53.1 JEB	144 JEB	191 JEB	7.85 JEB	< 0.0825 U	< 0.0841 U	< 0.0869 U	< 0.0792 U	1.44 JEB	55.9 J
PCB-025	55712-37-3	ng/g	230	14.0	64.9 JEB	188 JEB	581 JEB	10.6 JEB	< 0.0478 U	< 0.0487 U	< 0.0504 U	< 0.0459 U	2.39 JEB	66.3 J
PCB-026	38444-81-4	ng/g	230	14.0	111 JEB	303 JEB	653 JEB	15.3 JEB	< 0.0407 U	< 0.0415 U	< 0.0429 U	< 0.0391 U	3.95 JEB	86.4 J
PCB-028	7012-37-5	ng/g	230	14.0	183 JEB	538 JEB	1030 JEB	70.7 JEB	< 0.0448 UJ	< 0.0457 UJ	0.498 JEB	< 0.0430 UJ	14.9 JEB	202 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0509 U	0.679 J	1.19 J	< 0.0516 U	< 0.0491 U	< 0.0500 U	< 0.0517 U	< 0.0471 U	< 0.0516 U	< 0.0520 U

Table 11
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				Location	23A-0001-PLC1	23A-0001-PLC1	23A-0001-PLC1	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0003-PLC1	23A-0004-B2C1
				Sample Name	23A-0001-PLC1-AS	23A-0001-PLC1-BS	23A-0001-PLC1-CS	23A-0002-PLC2-AS	23A-0002-PLC2-BS	23A-0002-PLC2-CS	23A-0002-PLC2-BT	23A-0002-PLC2-CT	23A-0003-PLC1-AS	23A-0004-B2C1-AS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	FD	FD	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.3 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 6 ft	0.5 - 3.1 ft	3.1 - 6 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0466 U	< 0.0475 U	0.571 J	< 0.0473 U	< 0.0450 U	< 0.0458 U	< 0.0474 U	< 0.0432 U	< 0.0473 U	< 0.0477 U
PCB-031	16606-02-3	ng/g	230	14.0	228 JEB	624 JEB	1040 JEB	35.7 JEB	< 0.0566 UJ	< 0.0576 UJ	< 0.0596 UJ	< 0.0543 UJ	8.6 JEB	158 JEB
PCB-035	37680-69-6	ng/g	230	14.0	2.12 J+	6.37 J+	16.3 J+	< 0.0561 U	< 0.0534 U	< 0.0544 U	< 0.0563 U	< 0.0513 U	< 0.0561 U	1.33 J+
PCB-036	38444-87-0	ng/g	230	14.0	< 0.0472 U	2.77 J	< 0.0480 U	< 0.0479 U	< 0.0456 U	< 0.0464 U	< 0.0480 U	< 0.0437 U	< 0.0479 U	< 0.0483 U
PCB-037	38444-90-5	ng/g	230	14.0	51.3 J	128 J	121 J	31.7 J	< 0.0500 UJ	< 0.0510 UJ	< 0.0527 UJ	< 0.0480 UJ	2.1 J	30.1
PCB-038	53555-66-1	ng/g	230	14.0	5.35 J	16.8 J	18.9 J	1.84 J	< 0.0377 U	< 0.0384 U	< 0.0397 U	< 0.0362 U	< 0.0397 U	4.08 J
PCB-039	38444-88-1	ng/g	230	14.0	1.11 J	3.24 J	5.09 J	< 0.0243 U	< 0.0232 U	< 0.0236 U	< 0.0244 U	< 0.0222 U	< 0.0243 U	< 0.0245 U
PCB-040	38444-93-8	ng/g	230	14.0	6.88 J	48.2 J	15.3 J	9.95 J	< 0.0386 U	< 0.0394 U	< 0.0407 U	< 0.0371 U	0.881 J	6.05 J
PCB-041/064	PCB-41/64	ng/g	230	14.0	37.9	186 J	69.5 J	51.0 J	0.688 J	< 0.0894 UJ	0.806 J	< 0.0843 UJ	3.79 J	32.5
PCB-042	36559-22-5	ng/g	230	14.0	46.8 J	179 J	126 J	32.6	0.352 J	< 0.0983 U	< 0.102 U	< 0.0927 U	2.56 J	34.6
PCB-043/049	PCB-43/49	ng/g	230	14.0	222 JEB	801 JEB	953 JEB	102 JEB	1.13 JEB	< 0.104 UJ	1.16 JEB	< 0.0979 UJ	9.38 JEB	154 J
PCB-044	41464-39-5	ng/g	230	14.0	60.6 JEB	322 JEB	145 JEB	64.8 JEB	0.912 JEB	< 0.0523 UJ	0.824 JEB	< 0.0493 UJ	6.44 JEB	52.1 JEB
PCB-045	70362-45-7	ng/g	230	14.0	8.06 J	46.7 J	18.2 J	6.54 J	< 0.0420 U	< 0.0428 U	< 0.0443 U	< 0.0403 U	1.17 J	8.19 J
PCB-046	41464-47-5	ng/g	230	14.0	10.3 J	35	34	2.87 J	< 0.0491 U	< 0.0500 U	< 0.0517 U	< 0.0471 U	0.573 J	7.56 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	208 JEB	641 JEB	738 JEB	80.2 JEB	0.852 JEB	< 0.164 UJ	0.876 JEB	< 0.154 UJ	7.3 JEB	134 J
PCB-050	62796-65-0	ng/g	230	14.0	2.72 J	7 J	8.08 J	0.396 J	< 0.0599 U	< 0.0611 U	< 0.0631 U	< 0.0575 U	< 0.0630 U	1.46 J
PCB-051	68194-04-7	ng/g	230	14.0	56 J	149 J	209 J	8.03 J	< 0.0510 U	< 0.0519 U	< 0.0537 U	< 0.0489 U	1.13 J	26.7
PCB-052/073	PCB-52/73	ng/g	230	14.0	166 JEB	644 JEB	681 JEB	84.9 JEB	1.02 JEB	< 0.119 UJ	0.924 JEB	< 0.113 UJ	9.25 JEB	116 JEB
PCB-053	41464-41-9	ng/g	230	14.0	70.3 JEB	218 JEB	290 JEB	13.3 JEB	< 0.0454 U	< 0.0462 U	< 0.0478 U	< 0.0436 U	2.41 JEB	45.1 J
PCB-054	15968-05-5	ng/g	230	14.0	5.76 J	15.2 J	16.8 J	0.668 J	< 0.0398 U	< 0.0405 U	< 0.0419 U	< 0.0382 U	< 0.0418 U	2.8 J
PCB-055	74338-24-2	ng/g	230	14.0	0.837 J	4.97 J	2.1 J	2.80 J	< 0.0517 U	< 0.0527 U	< 0.0545 U	< 0.0497 U	< 0.0544 U	< 0.0548 U
PCB-056/060	PCB-56/60	ng/g	230	14.0	36.8 EB	239 JEB	63.5 JEB	128 JEB	2.38 JEB	< 0.103 UJ	2.37 JEB	< 0.0970 UJ	3.42 JEB	29.2
PCB-057	70424-67-8	ng/g	230	14.0	1.23 J	4.33 J	5.16 J	1.49 J	< 0.0400 U	< 0.0407 U	< 0.0421 U	< 0.0384 U	< 0.0420 U	1.39 J
PCB-058	41464-49-7	ng/g	230	14.0	0.435 J	1.42 J	0.855 J	0.524 J	< 0.0362 U	< 0.0369 U	< 0.0382 U	< 0.0348 U	< 0.0381 U	< 0.0384 U
PCB-059	74472-33-6	ng/g	230	14.0	3.32 J	18.8 J	6.98 J	4.55 J	< 0.0709 U	< 0.0723 U	< 0.0747 U	< 0.0681 U	0.595 J	3.49 J
PCB-061/074	PCB-61/74	ng/g	230	14.0	55.7 J	258 J	92.8 J	96.3 J	1.45 J	< 0.0949 U	1.51 J	< 0.0895 U	3.64 J	38.5
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0513 U	< 0.0522 U	< 0.0521 U	< 0.0520 U	< 0.0495 U	< 0.0504 U	< 0.0521 U	< 0.0475 U	< 0.0520 U	< 0.0524 U
PCB-063	74472-34-7	ng/g	230	14.0	8.11 J	30.4	33.2	9.78 J	< 0.0372 U	< 0.0379 U	< 0.0391 U	< 0.0357 U	0.575 J	7.46 J
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0739 U	< 0.0753 U	< 0.0751 U	< 0.0750 U	< 0.0713 U	< 0.0727 U	< 0.0751 U	< 0.0685 U	< 0.0750 U	< 0.0756 U
PCB-066/080	PCB-66/80	ng/g	230	14.0	79.8 JEB	374 JEB	159 JEB	186 JEB	3.14 JEB	< 0.0921 U	3.10 JEB	< 0.0868 U	5.2 JEB	63.8 JEB
PCB-067	73575-53-8	ng/g	230	14.0	3.89 J	15.6 J	6.26 J	6.37 J	< 0.0437 U	< 0.0445 U	< 0.0460 U	< 0.0420 U	< 0.0459 U	2.84 J
PCB-068	73575-52-7	ng/g	230	14.0	3.05 J	7.34 J	12.6 J	< 0.0544 U	< 0.0517 U	< 0.0527 U	< 0.0545 U	< 0.0497 U	< 0.0544 UJ	2.56 J
PCB-069	60233-24-1	ng/g	230	14.0	0.746 J	1.76 J	3.08 J	< 0.0565 U	< 0.0538 U	< 0.0548 U	< 0.0566 U	< 0.0516 U	< 0.0565 U	0.77 J
PCB-070	32598-11-1	ng/g	230	14.0	72.8 JEB	385 JEB	141 JEB	132 JEB	2.12 JEB	< 0.0495 UJ	1.95 JEB	< 0.0466 UJ	5.56 JEB	58.9 JEB
PCB-071	41464-46-4	ng/g	230	14.0	65.3 JEB	203 JEB	176 JEB	28.1 EB	0.357 JEB	< 0.0670 U	0.343 JEB	< 0.0631 U	2.74 JEB	33.5
PCB-072	41464-42-0	ng/g	230	14.0	3.71 J	9.84 J	14.5 J	1.64 J	< 0.0583 U	< 0.0593 U	< 0.0614 U	< 0.0559 U	< 0.0612 U	2.91 J
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0741 U	< 0.0755 U	< 0.0753 U	< 0.0752 U	< 0.0715 U	< 0.0729 U	< 0.0753 U	< 0.0687 U	< 0.0752 U	< 0.0758 U
PCB-077	32598-13-3	ng/g	38.0	14.0	13 J+	47 J	24.6 J+	22.7 J+	0.416 J+	< 0.0430 U	0.366 J+	< 0.0405 U	0.468 J+	10.5 J+
PCB-078	70362-49-1	ng/g	230	14.0	< 0.0379 U	0.754 J	< 0.0385 U	0.479 J	< 0.0366 U	< 0.0373 U	< 0.0386 U	< 0.0351 U	< 0.0385 U	< 0.0388 U
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0476 U	1.57 J	< 0.0484 U	1.14 J	< 0.0459 U	< 0.0468 U	< 0.0484 U	< 0.0441 U	< 0.0483 U	< 0.0487 U
PCB-081	70362-50-4	ng/g	12.0	14.0	0.801 J+	3.89 J+	1.21 J+	2.80 J+	< 0.0717 U	< 0.0730 U	< 0.0755 U	< 0.0688 U	< 0.0754 U	0.573 J+
PCB-082	52663-62-4	ng/g	230	14.0	4.53 J	25.9	7.62 J	18.4 J	0.452 J	< 0.0268 U	0.466 J	< 0.0253 U	< 0.0277 U	3.74 J
PCB-083/109	PCB-83/109	ng/g	230	14.0	2.64 J	11 J	4.83 J	6.50 J	< 0.113 U	< 0.115 U	< 0.119 U	< 0.109 U	< 0.119 U	2.45 J
PCB-084	52663-60-2	ng/g	230	14.0	8.88 J	50.6 J	16.2 J	25.4 J	0.514 J	< 0.0464 UJ	0.440 J	< 0.0437 UJ	0.729 J	9.22 J
PCB-085/120	PCB-85/120	ng/g	230	14.0	11.1 J	50.2 J	16.6 J	35.7	1.02 J	< 0.103 U	0.915 J	< 0.0975 U	0.915 J	8 J
PCB-086/097	PCB-86/97	ng/g	230	14.0	12.4 J	59 J	18.8 J	37.9	0.907 J	< 0.0455 U	0.792 J	< 0.0428 U	0.765 J	10.1 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	< 0.0298 U	< 0.0304 U	< 0.0303 U	< 0.0302 U	< 0.0288 U	< 0.0293 U	< 0.0303 U	< 0.0276 U	0.981 J	< 0.0305 U
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.108 U	1.21 J	< 0.110 U	< 0.109 U	< 0.104 U	< 0.106 U	< 0.110 U	< 0.0999 U	< 0.109 U	< 0.110 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	37.2	147 J	68.8 J	96.2 J	1.89 J	< 0.115 U	1.93 J	< 0.108 U	2.31 J	29.2
PCB-091	68194-05-8	ng/g	230	14.0	14.9 J	49.2 J	28.2	22.4	0.430 J	< 0.0593 U	0.515 J	< 0.0559 U	0.659 J	12.2 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0001-PLC1	23A-0001-PLC1	23A-0001-PLC1	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0003-PLC1	23A-0004-B2C1
				Sample Name	23A-0001-PLC1-AS	23A-0001-PLC1-BS	23A-0001-PLC1-CS	23A-0002-PLC2-AS	23A-0002-PLC2-BS	23A-0002-PLC2-CS	23A-0002-PLC2-BT	23A-0002-PLC2-CT	23A-0003-PLC1-AS	23A-0004-B2C1-AS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	FD	FD	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.3 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 6 ft	0.5 - 3.1 ft	3.1 - 6 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-092	52663-61-3	ng/g	230	14.0	9.09 J	29.4	23	15.9 J	0.287 J	< 0.0261 U	0.301 J	< 0.0246 U	0.421 J	8.19 J
PCB-093/095	PCB-93/95	ng/g	230	14.0	21.7	120 J	35	63.3 J	1.02 J	< 0.0767 UJ	1.11 J	< 0.0722 UJ	1.83 J	22.3
PCB-094	73575-55-0	ng/g	230	14.0	1.57 J	4.11 J	3.23 J	1.33 J	< 0.0859 U	< 0.0875 U	< 0.0905 U	< 0.0825 U	< 0.0903 U	1.41 J
PCB-096	73575-54-9	ng/g	230	14.0	1.05 J	4.21 J	1.64 J	1.58 J	< 0.0405 U	< 0.0413 U	< 0.0427 U	< 0.0389 U	< 0.0426 U	0.853 J
PCB-098/102	PCB-98/102	ng/g	230	14.0	5.13 J	17.3 J	9.41 J	7.18 J	< 0.0751 U	< 0.0765 U	< 0.0791 U	< 0.0721 U	< 0.0789 U	3.73 J
PCB-099	38380-01-7	ng/g	230	14.0	29.1	98.1 J	44.1 J	61.0 J	1.32 J	< 0.0422 U	1.37 J	< 0.0398 U	1.85 J	19.9
PCB-100	39485-83-1	ng/g	230	14.0	2.88 J	7.35 J	14.6 J	1.07 J	< 0.0457 U	< 0.0466 U	< 0.0482 U	< 0.0439 U	< 0.0481 U	1.76 J
PCB-103	60145-21-3	ng/g	230	14.0	1.97 J	5.36 J	7.83 J	1.10 J	< 0.0472 U	< 0.0481 U	< 0.0498 U	< 0.0454 U	< 0.0497 U	1.4 J
PCB-104	56558-16-8	ng/g	230	14.0	0.262 J	0.758 J	1.63 J	< 0.0459 U	< 0.0437 U	< 0.0445 U	< 0.0460 U	< 0.0420 U	< 0.0459 U	< 0.0463 U
PCB-105/127	PCB-105/127	ng/g	120	14.0	19.4	82.9 J	28	67.0 J	1.57 J	< 0.0755 U	1.45 J	< 0.0712 U	1.69 J	13.1 J
PCB-106/118	PCB-106/118	ng/g	120	14.0	48 J	153 J	63.2 J	112 J	2.58 J	< 0.0902 U	2.24 J	< 0.0850 U	3.7 J	32.6
PCB-107/108	PCB-107/108	ng/g	230	14.0	4.46 J	14 J	7.56 J	9.42 J	< 0.0909 U	< 0.0926 U	< 0.0958 U	< 0.0873 U	< 0.0956 U	3.32 J
PCB-110	38380-03-9	ng/g	230	14.0	46.7 JEB	185 JEB	74.2 JEB	117 JEB	2.60 JEB	< 0.0432 U	2.54 JEB	< 0.0407 U	3.09 JEB	42.3 J
PCB-111/117	PCB-111/117	ng/g	230	14.0	16.1 J	70.3 J	30.3	45.4 J	0.982 J	< 0.131 U	0.872 J	< 0.124 U	1.12 J	12.6 J
PCB-112	74472-36-9	ng/g	230	14.0	< 0.0466 U	1.14 J	0.602 J	0.497 J	< 0.0450 U	< 0.0458 U	< 0.0474 U	< 0.0432 U	< 0.0473 U	< 0.0477 U
PCB-113	68194-10-5	ng/g	230	14.0	< 0.0490 U	< 0.0499 U	< 0.0497 U	0.339 J	< 0.0472 U	< 0.0481 U	< 0.0498 U	< 0.0454 U	< 0.0497 U	< 0.0501 U
PCB-114	74472-37-0	ng/g	120	14.0	1.69 J	7.24 J	2.62 J	5.04 J	< 0.0392 U	< 0.0399 U	< 0.0413 U	< 0.0376 U	< 0.0412 U	1.17 J
PCB-119	56558-17-9	ng/g	230	14.0	3.41 J	9.29 J	12.3 J	3.60 J	< 0.0519 U	< 0.0529 U	< 0.0547 U	< 0.0498 U	< 0.0546 U	3.03 J
PCB-122	76842-07-4	ng/g	230	14.0	0.793 J	2.84 J	1.15 J	2.35 J	< 0.0330 U	< 0.0337 U	< 0.0348 U	< 0.0317 U	< 0.0347 U	< 0.0350 U
PCB-123	65510-44-3	ng/g	120	14.0	1.69 J+	4.99 J+	2.09 J+	3.86 J+	< 0.0306 U	< 0.0312 U	< 0.0323 U	< 0.0294 U	< 0.0322 U	1.08 J+
PCB-124	70424-70-3	ng/g	230	14.0	1.76 J	6.04 J	2.33 J	4.60 J	< 0.0413 U	< 0.0420 U	< 0.0435 U	< 0.0396 U	< 0.0434 U	1.01 J
PCB-125	74472-39-2	ng/g	230	14.0	0.68 J	1.37 J	1.1 J	0.981 J	< 0.0452 U	< 0.0460 U	< 0.0476 U	< 0.0434 U	< 0.0475 U	< 0.0479 U
PCB-126	57465-28-8	ng/g	0.0360	14.0	< 0.0666 U	1 J+	< 0.0676 U	< 0.0675 U	< 0.0642 U	< 0.0654 U	< 0.0677 U	< 0.0617 U	< 0.0675 U	< 0.0681 U
PCB-128	38380-07-3	ng/g	230	14.0	7.78 J	10.1 J	5.89 J	10.1 J	< 0.0454 U	< 0.0462 U	0.141 J	< 0.0436 U	0.465 J	3.74 J
PCB-129	55215-18-4	ng/g	230	14.0	1.77 J	2.95 J	1.67 J	2.76 J	< 0.0499 U	< 0.0508 U	< 0.0525 U	< 0.0479 U	< 0.0524 U	0.933 J
PCB-130	52663-66-8	ng/g	230	14.0	2.28 J	3.51 J	2.63 J	3.31 J	< 0.0392 U	< 0.0399 U	< 0.0413 U	< 0.0376 U	< 0.0412 U	1.32 J
PCB-131/142	PCB-131/142	ng/g	230	14.0	< 0.100 U	0.823 J	< 0.102 U	0.697 J	< 0.0965 U	< 0.0983 U	< 0.102 U	< 0.0927 U	< 0.101 U	< 0.102 U
PCB-132/168	PCB-132/168	ng/g	230	14.0	8.69 J	15.9 J	8.85 J	15.7 J	0.234 J	< 0.115 U	0.257 J	< 0.109 U	0.578 J	5.51 J
PCB-133	35694-04-3	ng/g	230	14.0	< 0.0364 U	0.969 J	1.42 J	0.667 J	< 0.0351 U	< 0.0358 U	< 0.0370 U	< 0.0337 U	< 0.0369 U	0.454 J
PCB-134	52704-70-8	ng/g	230	14.0	1.52 J	2.63 J	1.49 J	2.52 J	< 0.0930 U	< 0.0947 U	< 0.0979 U	< 0.0893 U	< 0.0978 U	1.03 J
PCB-135/144	PCB-135/144	ng/g	230	14.0	3.5 J	7.04 J	4.14 J	6.33 J	< 0.0976 U	< 0.0995 U	< 0.103 U	< 0.0938 U	< 0.103 U	2.53 J
PCB-136	38411-22-2	ng/g	230	14.0	2.39 J	5.45 J	2.84 J	5.11 J	< 0.0814 U	< 0.0829 U	< 0.0858 U	< 0.0782 U	< 0.0856 U	2 J
PCB-137	35694-06-5	ng/g	230	14.0	2.71 J	4.27 J	2.62 J	3.59 J	< 0.0456 U	< 0.0464 U	< 0.0480 U	< 0.0437 U	< 0.0479 U	1.36 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	39.7 J	55.1 J	32.2	51.0 J	0.982 J	< 0.149 U	0.792 J	< 0.140 U	2.94 J	20.5
PCB-139/149	PCB-139/149	ng/g	230	14.0	16.9 J	30	18.2 J	28.3	0.559 J	< 0.137 U	0.419 J	< 0.129 U	1.12 J	11.3 J
PCB-140	59291-64-4	ng/g	230	14.0	< 0.0689 U	< 0.0702 U	< 0.0700 U	0.263 J	< 0.0665 U	< 0.0677 U	< 0.0700 U	< 0.0638 U	< 0.0699 U	< 0.0704 U
PCB-141	52712-04-6	ng/g	230	14.0	5.03 J	8.42 J	4.22 J	8.19 J	< 0.0467 U	< 0.0476 U	< 0.0492 U	< 0.0448 U	0.368 J	2.79 J
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0621 U	< 0.0633 U	< 0.0631 U	< 0.0630 U	< 0.0599 U	< 0.0611 U	< 0.0631 U	< 0.0575 U	< 0.0630 U	< 0.0635 U
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0821 U	< 0.0836 U	< 0.0834 U	< 0.0832 U	< 0.0792 U	< 0.0807 U	< 0.0834 U	< 0.0760 U	< 0.0832 U	< 0.0839 U
PCB-146	51908-16-8	ng/g	230	14.0	3.57 J	5.58 J	5.1 J	4.86 J	< 0.0536 U	< 0.0546 U	< 0.0564 U	< 0.0515 U	0.452 J	2.38 J
PCB-147	68194-13-8	ng/g	230	14.0	1.8 J	3.36 J	5.89 J	1.27 J	< 0.0698 U	< 0.0711 U	< 0.0736 U	< 0.0670 U	< 0.0734 U	1.56 J
PCB-148	74472-41-6	ng/g	230	14.0	< 0.0759 U	< 0.0773 U	0.653 J	< 0.0769 U	< 0.0732 U	< 0.0746 U	< 0.0771 U	< 0.0703 U	< 0.0769 U	< 0.0776 U
PCB-150	68194-08-1	ng/g	230	14.0	< 0.0766 U	0.178 J	0.331 J	< 0.0777 U	< 0.0739 U	< 0.0753 U	< 0.0779 U	< 0.0710 U	< 0.0777 U	< 0.0784 U
PCB-151	52663-63-5	ng/g	230	14.0	4 J	7.99 J	5.19 J	6.43 J	< 0.0536 U	< 0.0546 U	< 0.0564 U	< 0.0515 U	< 0.0563 U	3.11 J
PCB-152	68194-09-2	ng/g	230	14.0	< 0.0896 U	< 0.0913 U	0.368 J	< 0.0909 U	< 0.0864 U	< 0.0881 U	< 0.0911 U	< 0.0830 U	< 0.0909 U	< 0.0916 U
PCB-153	35065-27-1	ng/g	230	14.0	23.4	33.6	21.7	30.5	0.560 J	< 0.0479 U	0.416 J	< 0.0452 U	1.77 J	12.8 J
PCB-154	60145-22-4	ng/g	230	14.0	0.6 J	1.3 J	2.18 J	0.465 J	< 0.0515 U	< 0.0525 U	< 0.0543 U	< 0.0495 U	< 0.0542 U	0.5 J
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0461 U	< 0.0469 U	< 0.0468 U	< 0.0467 U	< 0.0444 U	< 0.0453 U	< 0.0468 U	< 0.0427 U	< 0.0467 U	< 0.0471 U
PCB-156	38380-08-4	ng/g	120	14.0	5.08 J	6.31 J	3.31 J	6.34 J-	< R	< R	< R	< R	0.345 J	1.97 J
PCB-157	69782-90-7	ng/g	120	14.0	1.39 J+	1.75 J+	1.06 J+	1.85 J	< R	< R	< R	< R	< 0.0546 U	0.49 J+

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0001-PLC1	23A-0001-PLC1	23A-0001-PLC1	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0003-PLC1	23A-0004-B2C1
				Sample Name	23A-0001-PLC1-AS	23A-0001-PLC1-BS	23A-0001-PLC1-CS	23A-0002-PLC2-AS	23A-0002-PLC2-BS	23A-0002-PLC2-CS	23A-0002-PLC2-BT	23A-0002-PLC2-CT	23A-0003-PLC1-AS	23A-0004-B2C1-AS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	FD	FD	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.3 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 6 ft	0.5 - 3.1 ft	3.1 - 6 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-158/160	PCB-158/160	ng/g	230	14.0	4.26 J	5.74 J	3.24 J	5.45 J	< 0.114 U	< 0.116 U	< 0.120 U	< 0.109 U	0.344 J	2.06 J
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0743 U	< 0.0757 U	< 0.0755 U	< 0.0754 U	< 0.0717 U	< 0.0730 U	< 0.0755 U	< 0.0688 U	< 0.0754 U	< 0.0760 U
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0695 U	< 0.0708 U	< 0.0706 U	< 0.0704 U	< 0.0670 U	< 0.0683 U	< 0.0706 U	< 0.0644 U	< 0.0705 U	< 0.0710 U
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0548 U	< 0.0558 U	< 0.0556 U	< 0.0555 U	< 0.0528 U	< 0.0538 U	< 0.0557 U	< 0.0507 U	< 0.0556 U	< 0.0560 U
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0751 U	< 0.0765 U	< 0.0763 U	< 0.0761 U	< 0.0724 U	< 0.0738 U	< 0.0763 U	< 0.0696 U	< 0.0762 U	< 0.0768 U
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0646 U	< 0.0658 U	< 0.0657 U	< 0.0655 U	< 0.0624 U	< 0.0635 U	< 0.0657 U	< 0.0599 U	< 0.0656 U	< 0.0661 U
PCB-167	52663-72-6	ng/g	120	14.0	1.87 J	2.2 J	1.36 J	2.39 J	< 0.0480 U	< 0.0489 U	< 0.0505 U	< 0.0461 U	< 0.0504 U	0.734 J
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0548 U	< 0.0558 U	< 0.0556 U	< 0.0555 U	< 0.0528 U	< 0.0538 U	< 0.0557 U	< 0.0507 U	< 0.0556 U	< 0.0560 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	5.99 J	11.4 J	10.1 J	8.64 J	< 0.0870 U	< 0.0886 U	< 0.0917 U	< 0.0835 U	0.788 J	4.14 J
PCB-171	52663-71-5	ng/g	230	14.0	1.56 J	2.83 J	2.5 J	2.16 J	< 0.0691 U	< 0.0704 U	< 0.0728 U	< 0.0663 U	< 0.0726 U	1.01 J
PCB-172/192	PCB-172/192	ng/g	230	14.0	0.745 J	1.51 J	1.61 J	1.09 J	< 0.115 U	< 0.117 U	< 0.121 U	< 0.110 U	< 0.121 U	< 0.121 U
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0801 U	< 0.0816 U	< 0.0814 U	< 0.0812 U	< 0.0773 U	< 0.0788 U	< 0.0814 U	< 0.0742 U	< 0.0813 U	< 0.0819 U
PCB-174	38411-25-5	ng/g	230	14.0	3.89 J	8.34 J	7.44 J	6.91 J	< 0.0969 U	< 0.0987 U	< 0.102 U	< 0.0930 U	0.494 J	2.92 J
PCB-175	40186-70-7	ng/g	230	14.0	< 0.0617 U	0.322 J	0.338 J	0.216 J	< 0.0596 U	< 0.0607 U	< 0.0627 U	< 0.0572 U	< 0.0626 U	< 0.0631 U
PCB-176	52663-65-7	ng/g	230	14.0	0.465 J	1.01 J	0.935 J	0.790 J	< 0.0556 U	< 0.0567 U	< 0.0586 U	< 0.0534 U	< 0.0585 U	0.375 J
PCB-177	52663-70-4	ng/g	230	14.0	2.7 J	5.26 J	5.27 J	3.77 J	< 0.0695 U	< 0.0708 U	< 0.0732 U	< 0.0667 U	0.281 J	1.81 J
PCB-178	52663-67-9	ng/g	230	14.0	0.67 J	1.88 J	1.96 J	1.33 J	< 0.0872 U	< 0.0888 U	< 0.0919 U	< 0.0837 U	< 0.0917 U	0.726 J
PCB-179	52663-64-6	ng/g	230	14.0	1.33 J	2.97 J	2.86 J	2.25 J	< 0.0461 U	< 0.0470 U	< 0.0486 U	< 0.0443 U	0.141 J	1.15 J
PCB-180	35065-29-3	ng/g	230	14.0	9.5 J	21.2	18.6 J	14.7 J	0.232 J	< 0.0626 U	0.184 J	< 0.0590 U	1.44 J	7.04 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0548 U	< 0.0558 U	< 0.0556 U	< 0.0555 U	< 0.0528 U	< 0.0538 U	< 0.0557 U	< 0.0507 U	< 0.0556 U	< 0.0560 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	4.53 J	10.7 J	10.8 J	7.06 J	< 0.139 U	< 0.142 U	< 0.146 U	< 0.133 U	0.532 J	3.76 J
PCB-183	52663-69-1	ng/g	230	14.0	2.19 J	4.88 J	4.22 J	3.41 J	< 0.0691 U	< 0.0704 U	< 0.0728 U	< 0.0663 U	0.287 J	1.68 J
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0519 U	< 0.0528 U	< 0.0527 U	< 0.0526 U	< 0.0500 U	< 0.0510 U	< 0.0527 U	< 0.0480 U	< 0.0526 U	< 0.0530 U
PCB-185	52712-05-7	ng/g	230	14.0	< 0.0718 U	1.03 J	0.725 J	0.772 J	< 0.0693 U	< 0.0706 U	< 0.0730 U	< 0.0665 U	< 0.0728 U	0.308 J
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0648 U	< 0.0660 U	< 0.0659 U	< 0.0657 U	< 0.0625 U	< 0.0637 U	< 0.0659 U	< 0.0601 U	< 0.0658 U	< 0.0663 U
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0594 U	< 0.0605 U	< 0.0604 U	< 0.0602 U	< 0.0573 U	< 0.0584 U	< 0.0604 U	< 0.0550 U	< 0.0603 U	< 0.0607 U
PCB-189	39635-31-9	ng/g	130	14.0	0.301 J	0.613 J	0.462 J	0.370 J	< 0.0583 U	< 0.0593 U	< 0.0614 U	< 0.0559 U	< 0.0612 U	< 0.0617 U
PCB-191	74472-50-7	ng/g	230	14.0	< 0.0546 U	0.382 J	0.33 J	0.310 J	< 0.0527 U	< 0.0536 U	< 0.0555 U	< 0.0506 U	< 0.0554 U	< 0.0558 U
PCB-193	69782-91-8	ng/g	230	14.0	0.469 J	1.08 J	1.23 J	0.676 J	< 0.0665 U	< 0.0677 U	< 0.0700 U	< 0.0638 U	< 0.0699 U	0.276 J
PCB-194	35694-08-7	ng/g	230	14.0	2.51 J	7.46 J	9.7 J	3.88 J	< 0.0840 U	< 0.0856 U	< 0.0885 U	< 0.0807 U	< 0.0883 U	4.48 J
PCB-195	52663-78-2	ng/g	230	14.0	1.14 J	2.41 J	3.21 J	1.41 J	< 0.149 U	< 0.152 U	< 0.157 U	< 0.143 U	< 0.156 U	0.729 J
PCB-196/203	PCB-196/203	ng/g	230	14.0	2.44 J	7.58 J	8.88 J	4.08 J	< 0.141 U	< 0.144 U	< 0.149 U	< 0.136 U	< 0.148 U	2.68 J
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0652 U	< 0.0664 U	< 0.0663 U	< 0.0661 U	< 0.0629 U	< 0.0641 U	< 0.0663 U	< 0.0604 U	< 0.0662 U	< 0.0667 U
PCB-198	68194-17-2	ng/g	230	14.0	< 0.106 U	< 0.108 U	< 0.108 U	< 0.107 U	< 0.102 U	< 0.104 U	< 0.108 U	< 0.0981 U	< 0.107 U	< 0.108 U
PCB-199	52663-75-9	ng/g	230	14.0	1.9 J	6.01 J	7.45 J	3.52 J	< 0.0982 U	< 0.100 U	< 0.103 U	< 0.0943 U	< 0.103 U	2.12 J
PCB-200	52663-73-7	ng/g	230	14.0	< 0.0519 U	0.733 J	0.859 J	< 0.0526 U	< 0.0500 U	< 0.0510 U	< 0.0527 U	< 0.0480 U	< 0.0526 U	0.192 J
PCB-201	40186-71-8	ng/g	230	14.0	< 0.0410 U	0.814 J	0.994 J	0.304 J	< 0.0396 U	< 0.0403 U	< 0.0417 U	< 0.0380 U	< 0.0416 U	< 0.0419 U
PCB-202	2136-99-4	ng/g	230	14.0	< 0.0701 U	1.04 J	1.26 J	0.593 J	< 0.0676 U	< 0.0689 U	< 0.0712 U	< 0.0649 U	< 0.0711 U	< 0.0716 U
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0857 U	< 0.0873 U	< 0.0871 U	< 0.0869 U	< 0.0827 U	< 0.0843 U	< 0.0871 U	< 0.0794 U	< 0.0870 U	< 0.0877 U
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0608 U	< 0.0619 U	< 0.0617 U	< 0.0616 U	< 0.0586 U	< 0.0597 U	< 0.0618 U	< 0.0563 U	< 0.0616 U	< 0.0621 U
PCB-206	40186-72-9	ng/g	230	14.0	0.961 J	3.39 J	3.96 J	1.79 J	< 0.0562 U	< 0.0573 U	< 0.0592 U	< 0.0540 U	< 0.0591 U	1.14 J
PCB-207	52663-79-3	ng/g	230	14.0	< 0.0770 U	0.349 J	0.353 J	< 0.0781 U	< 0.0743 U	< 0.0757 U	< 0.0783 U	< 0.0714 U	< 0.0781 U	< 0.0788 U
PCB-208	52663-77-1	ng/g	230	14.0	0.233 J	0.887 J	1.04 J	0.529 J	< 0.0743 U	< 0.0757 U	< 0.0783 U	< 0.0714 U	< 0.0781 U	0.279 J
PCB-209	2051-24-3	ng/g	230	14.0	0.562 J	1.08 J	0.937 J	1.02 J	< 0.0428 U	< 0.0436 U	< 0.0450 U	< 0.0411 U	< 0.0450 U	0.386 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	0.562	1.08	0.937	1.02	< 0.0428 U	< 0.0436 U	< 0.045 U	< 0.0411 U	< 0.045 U	0.386
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	34.3	75.4	69.4	54.5	0.232	< 0.142 U	0.184	< 0.133 U	3.96	25.2
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	138	215	137	198	2.34	< 0.149 U	2.03	< 0.14 U	8.38	79.1
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	7.99	26.0	32.4	13.8	< 0.149 U	< 0.152 U	< 0.157 U	< 0.143 U	< 0.156 U	10.2
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	4070	13600	15200	2510	33.0	< 0.164 U	31.9	< 0.154 U	169	3630
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	309	1220	527	767	15.6	< 0.131 U	14.9	< 0.124 U	20.1	245
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	732	2550	3100	83.8	< 0.0881 U	< 0.0898 U	< 0.0928 U	< 0.0846 U	10.4	970
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	55.6	317	181	8.71	< 0.0506 U	< 0.0515 U	< 0.0533 U	< 0.0486 U	0.705	262
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	1.19	4.63	5.35	2.32	< 0.0743 U	< 0.0757 U	< 0.0783 U	< 0.0714 U	< 0.0781 U	1.42
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	1250	4900	4050	1080	14.8	< 0.164 U	14.2	< 0.154 U	67.1	877
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	1540	4290	7120	303	< 0.131 U	< 0.133 U	0.498	< 0.125 U	58.3	1160

Table 11
Sediment Analytical Results
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				Location	23A-0001-PLC1	23A-0001-PLC1	23A-0001-PLC1	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0003-PLC1	23A-0004-B2C1
				Sample Name	23A-0001-PLC1-AS	23A-0001-PLC1-BS	23A-0001-PLC1-CS	23A-0002-PLC2-AS	23A-0002-PLC2-BS	23A-0002-PLC2-CS	23A-0002-PLC2-BT	23A-0002-PLC2-CT	23A-0003-PLC1-AS	23A-0004-B2C1-AS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	FD	FD	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.3 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 6 ft	0.5 - 3.1 ft	3.1 - 6 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	3200	4100	3300	4400	5300	4600	5200	5100	7100	3100
Calcium	7440-70-2	mg/kg			1100	1600	2200	2100	1600	1500	1700	1500	1700	1100
Iron	7439-89-6	mg/kg	5500	20000	15000	18000	14000	12000	10000	9700	10000	10000	16000	12000
Magnesium	7439-95-4	mg/kg			1400	1800	1500	2100	2200	1700	2100	1900	3700	1500
Potassium	7440-09-7	mg/kg			170 J	170 J	160 J	320 J	430 J	390 J	420 J	450 J	1700	190 J
Sodium	7440-23-5	mg/kg			69 J	140 J	250 J	150 J	66 J	150 J	83 J	170 J	180 J	130 J
Antimony	7440-36-0	mg/kg	3.1	2	0.89	< 0.94 U	< 0.98 U	< 1.3 U	< 0.90 U	< 1.0 U	< 1.1 U	< 0.96 U	< 0.91 U	< 1.2 U
Arsenic	7440-38-2	mg/kg	0.68	9.8	2.8 J	7.7 J+	3.3 J	2.9 J+	2.0 J+	1.2 J+	1.7 J+	1.3 J+	2.7 J	1.9
Barium	7440-39-3	mg/kg	1500	20	56	210	29	40	27	21	23	20	44	34
Beryllium	7440-41-7	mg/kg	16		0.27 J	3.0	0.19 J	0.22 J	0.25 J	0.22 J	0.26 J	0.23 J	0.25 J	0.19 J
Cadmium	7440-43-9	mg/kg	0.71	1	0.30 J	0.57	0.22 J	0.28 J	< 0.45 U	< 0.52 U	< 0.54 U	< 0.48 U	< 0.45 U	< 0.58 U
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	18 JEB	20 EB	34 JEB	20 EB	11 EB	7.9 EB	12 EB	8.6 EB	20 JEB	21
Cobalt	7440-48-4	mg/kg	2.3	50	6.0	4.9	3.9	5.9	4.8	3.9	5.1	4.0	8.2	3.4
Copper	7440-50-8	mg/kg	310	31.6	52 J	51 J	60 J	25 J	9.6 J	7.3 J	10 J	7.4 J	22 J	29
Lead	7439-92-1	mg/kg	200	35.8	74	310	97	38	3.5	3.1	3.8	3.1	8.5	75
Manganese	7439-96-5	mg/kg	180	460	240 EB	950 EB	140 EB	440 EB	270 EB	96 EB	220 EB	93 EB	340 EB	160
Nickel	7440-02-0	mg/kg	140	22.7	14 J	12	17 J	9.5	8.4	6.6	9.3	6.6	20 J	6.6
Selenium	7782-49-2	mg/kg	39	11	< 2.1 U	1.6 J	< 2.5 U	< 3.2 U	< 2.2 U	< 2.6 U	< 2.7 U	< 2.4 U	< 2.3 U	< 2.9 U
Silver	7440-22-4	mg/kg	39	1	0.071 J	0.21 J	1.5	1.4	0.11 J	< 0.52 U	0.043 J	< 0.48 U	0.13 J	0.16 J
Thallium	7440-28-0	mg/kg	0.078		< 0.42 U	< 0.47 U	< 0.49 U	< 0.63 U	< 0.45 U	< 0.52 U	< 0.54 U	< 0.48 U	< 0.45 U	< 0.58 U
Vanadium	7440-62-2	mg/kg	39		25	31 J	12	16 J	16 J	12 J	16 J	14 J	22	6.6
Zinc	7440-66-6	mg/kg	2300	121	220 JEB	340 EB	170 JEB	89 EB	19 EB	15 EB	23 EB	15 EB	39 JEB	77 J
Mercury	7439-97-6	mg/kg	2.3	0.18	0.075 J	0.094 J	0.087 J	0.23	< 0.11 U	< 0.10 U	< 0.097 U	< 0.11 U	0.022 J	1.3
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.58 R	< 0.57 R	0.83 J-	< 0.79 R	< 0.56 R	< 0.56 R	< 0.55 R	< 0.57 R	< 0.54 R	< 0.64 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 UJ
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 UJ
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 UJ
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
1,2-Dichloroethane	107-06-2	ug/kg	460	986	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 UJ
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
2-HEXANONE	591-78-6	ug/kg	20000	45	-	< 14 U	-	< 24 U	< 11 U	< 11 U	< 13 U	< 13 U	-	< 14 U
ACETONE	67-64-1	ug/kg	7000000	65	-	71	-	< 24 UJ	< 11 UJ	< 11 U	< 13 UJ	< 13 UJ	-	< 14 U
Benzene	71-43-2	ug/kg	1200	10	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U

Table 11
Sediment Analytical Results
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					Location	23A-0001-PLC1	23A-0001-PLC1	23A-0001-PLC1	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0003-PLC1	23A-0004-B2C1
					Sample Name	23A-0001-PLC1-AS	23A-0001-PLC1-BS	23A-0001-PLC1-CS	23A-0002-PLC2-AS	23A-0002-PLC2-BS	23A-0002-PLC2-CS	23A-0002-PLC2-BT	23A-0002-PLC2-CT	23A-0003-PLC1-AS	23A-0004-B2C1-AS
					Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.3 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 6 ft	0.5 - 3.1 ft	3.1 - 6 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BROMOFORM	75-25-2	ug/kg	19000	142	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
BROMOMETHANE	74-83-9	ug/kg	680	6.5	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 UJ
Chlorobenzene	108-90-7	ug/kg	28000	30	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
CHLOROETHANE	75-00-3	ug/kg	540000		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
Chloroform	67-66-3	ug/kg	320	87	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
CHLOROMETHANE	74-87-3	ug/kg	11000		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
Cyclohexane	110-82-7	ug/kg	650000		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
Ethylbenzene	100-41-4	ug/kg	5800	290	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
m,p-Xylene	179601-23-1	ug/kg	55000		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
METHYL ACETATE	79-20-9	ug/kg	7800000		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	2.4 J	< 6.5 U	-	< 7.0 UJ
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	-	17	-	< 24 U	< 11 U	< 11 U	< 13 U	< 13 U	-	< 14 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	-	< 14 U	-	< 24 U	< 11 U	< 11 U	< 13 U	< 13 U	-	< 14 U
Methylcyclohexane	108-87-2	ug/kg	9800		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
Methylene Chloride	75-09-2	ug/kg	35000	18	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 UJ
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
Styrene	100-42-5	ug/kg	600000	126	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 UJ
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
Toluene	108-88-3	ug/kg	490000	10	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000		-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 UJ
Vinyl Chloride	75-01-4	ug/kg	59	482	-	< 6.9 U	-	< 12 U	< 5.4 U	< 5.4 U	< 6.4 U	< 6.5 U	-	< 7.0 U
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	< 110 UJ	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	< 200 U	390	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 200 UJ	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 UJ
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 390 U	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 UJ
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	< 200 U	520	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 390 UJ	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 UJ
2-NITROANILINE	88-74-4	ug/kg	63000		< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 390 U	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 U

Table 11
Sediment Analytical Results
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				Location	23A-0001-PLC1	23A-0001-PLC1	23A-0001-PLC1	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0003-PLC1	23A-0004-B2C1
				Sample Name	23A-0001-PLC1-AS	23A-0001-PLC1-BS	23A-0001-PLC1-CS	23A-0002-PLC2-AS	23A-0002-PLC2-BS	23A-0002-PLC2-CS	23A-0002-PLC2-BT	23A-0002-PLC2-CT	23A-0003-PLC1-AS	23A-0004-B2C1-AS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	FD	FD	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.3 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 6 ft	0.5 - 3.1 ft	3.1 - 6 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 390 U	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 390 U	< 390 UJ	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 UJ	< 220 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 UJ
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 390 UJ	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 UJ
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 390 UJ	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 UJ
4-Nitroaniline	100-01-6	ug/kg	25000		< 390 U	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 390 U	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	120 J	1600	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	270	97 J	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		160 JEB	150 JEB	560 EB	72 JEB	< 370 U	< 380 U	< 380 U	< 380 U	67 JEB	150 J
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	800	2300	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 390 U	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 390 U	< 390 U	150 J	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	480	1600	4700	-	-	-	-	-	-	830
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	1200 J	470 J-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	1600	4000	-	-	-	-	-	-	940
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	530	< 200 UJ	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	510	1500 J-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 200 U	< 200 U	170 J	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 390 U	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 390 U	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	100 J	89 J	840	110 J	< 190 U	< 200 U	< 190 U	< 200 U	70 J	130 J
Caprolactam	105-60-2	ug/kg	3100000		< 390 U	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 390 U	76 J	360 J	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	120 J
CHRYSENE	218-01-9	ug/kg	110000	166	440	1500	3800	-	-	-	-	-	-	850
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	180 J	520 J-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 200 U	85 J	1200	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	120 J
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 200 U	53 J	230	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 200 U	< 200 U	200	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 390 U	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	890	3600	10000	-	-	-	-	-	-	2000
FLUORENE	86-73-7	ug/kg	240000	77	-	400	1600	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 390 U	< 390 U	< 390 U	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	< 430 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	540	470 J-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
Naphthalene	91-20-3	ug/kg	2000	176	-	< 200 U	880	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 200 U	< 200 U	< 200 U	< 280 U	< 190 U	< 200 U	< 190 U	< 200 U	< 190 U	< 220 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	< 390 U	< 390 U	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	710	3800	11000	-	-	-	-	-	-	1800
PHENOL	108-95-2	ug/kg	1900000	175	45 J	69 J	160 J	< 540 U	< 370 U	< 380 U	< 380 U	< 380 U	< 370 U	50 J
PYRENE	129-00-0	ug/kg	180000	195	-	3500	2600	-	-	-	-	-	-	1100 J

Table 11
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				Location	23A-0001-PLC1	23A-0001-PLC1	23A-0001-PLC1	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0002-PLC2	23A-0003-PLC1	23A-0004-B2C1
				Sample Name	23A-0001-PLC1-AS	23A-0001-PLC1-BS	23A-0001-PLC1-CS	23A-0002-PLC2-AS	23A-0002-PLC2-BS	23A-0002-PLC2-CS	23A-0002-PLC2-BT	23A-0002-PLC2-CT	23A-0003-PLC1-AS	23A-0004-B2C1-AS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	FD	FD	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.3 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 6 ft	0.5 - 3.1 ft	3.1 - 6 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 7.8 U	< 7.8 U	< 8.0 U	-	< 7.4 U	< 7.6 U	< 7.6 U	< 7.6 U	< 7.4 U	< 8.8 UJ
1-Methylnaphthalene	90-12-0	ug/kg	18	141	8.9 EB	-	-	< 5.4 U	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.7 U	38
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	8.0 EB	-	-	< 5.4 U	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.7 U	50 EB
Acenaphthene	83-32-9	ug/kg	360000	6.7	48	-	-	1.6 J	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	1.6 J	170 J
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	36	-	-	1.5 J	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	2.4 J	24
ANTHRACENE	120-12-7	ug/kg	1800000	57	130	-	-	< 5.4 U	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	3.9	250
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	6.0	0.77 J	< 3.8 U	0.84 J	0.81 J	22	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	39	-	-	< 5.4 U	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	4.8	190
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	290	-	-	18	1.3 J	0.94 J	1.3 J	1.2 J	23	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	2.1 J	-	-	2.6 J	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	< 3.7 U	8.7
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	130	-	-	6.9	0.79 J	< 3.8 U	< 3.8 U	< 3.8 U	10	310
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	9.8	0.94 J	< 3.8 U	0.95 J	0.92 J	19	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	47	-	-	2.5 J	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	3.1 J	100
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	20	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	37	-
FLUORENE	86-73-7	ug/kg	240000	77	56	-	-	< 5.4 U	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	1.2 J	170
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	37	-	-	13	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	6.7	170
Naphthalene	91-20-3	ug/kg	2000	176	7.9 EB	-	-	2.0 JEB	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	1.7 JEB	88 EB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 7.9 U	-	-	< 11 UJ	< 7.5 UJ	< 7.7 UJ	< 7.7 UJ	< 7.7 UJ	< 7.5 U	< 8.8 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	7.1	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	18	-
PYRENE	129-00-0	ug/kg	180000	195	260	-	-	21	< 3.7 U	< 3.8 U	< 3.8 U	< 3.8 U	26	-
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			3100	14000	36000	14000	230 J	220 J	230 J	280 J	310 J	18000
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			-	-	-	< 2.8 U	-	-	-	-	-	< 4.0 U
Cadmium	7440-43-9	umol/g			-	-	-	< 0.00015 U	-	-	-	-	-	0.0017
Copper	7440-50-8	umol/g			-	-	-	0.00064 JEB	-	-	-	-	-	0.45
Lead	7439-92-1	umol/g			-	-	-	< 0.000083 U	-	-	-	-	-	0.22
Nickel	7440-02-0	umol/g			-	-	-	< 0.00059 U	-	-	-	-	-	0.89
Silver	7440-22-4	umol/g			-	-	-	< 0.00016 U	-	-	-	-	-	0.00079
Zinc	7440-66-6	umol/g			-	-	-	< 0.0053 U	-	-	-	-	-	1.2
Mercury	7439-97-6	umol/g			-	-	-	< 0.000034 U	-	-	-	-	-	< 0.000049 U

Table 11
Sediment Analytical Results
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				Location	23A-0004-B2C1	23A-0005-PLC1	23A-0005-PLC1	23A-0005-PLC1	23A-0006-PLC2	23A-0006-PLC2	23A-0007-PLC1	23A-0007-PLC1	23A-0007-PLC1	23A-0008-PLC1
				Sample Name	23A-0004-B2C1-BS	23A-0005-PLC1-AS	23A-0005-PLC1-BS	23A-0005-PLC1-CS	23A-0006-PLC2-AS	23A-0006-PLC2-BS	23A-0007-PLC1-AS	23A-0007-PLC1-BS	23A-0007-PLC1-CS	23A-0008-PLC1-AS
				Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 1.4 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2 ft	0 - 0.5 ft	0.5 - 1.8 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 5.1 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 2.0 U	< 4.6 U	< 2.2 U	< 1.9 U	< 5.1 UJ	< 2.2 U	< 2.5 UJ	< 4.4 U	< 2.9 U	< 2.8 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 2.0 U	< 4.6 U	< 2.2 U	< 1.9 U	< 5.1 UJ	< 2.2 U	< 2.5 UJ	< 4.4 U	< 2.9 U	< 2.8 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 2.0 U	< 4.6 U	< 2.2 U	< 1.9 U	< 5.1 UJ	< 2.2 U	< 2.5 UJ	< 4.4 U	< 2.9 U	< 2.8 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 2.0 U	< 4.6 U	< 2.2 U	< 1.9 U	< 5.1 UJ	< 2.2 U	< 2.5 UJ	< 4.4 U	< 2.9 U	< 2.8 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 4.0 U	< 8.9 U	< 4.3 U	< 3.7 U	< 9.9 UJ	< 4.2 U	< 4.8 UJ	< 8.6 U	< 5.7 U	< 5.4 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		2.4 J	< 4.6 U	< 2.2 U	< 1.9 U	0.84 J	< 2.2 U	0.94 J-	1.6 J	< 2.9 U	0.93 J
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		< 2.0 U	280	30	15 J	3.4 J	46	0.75 J	16 J	26 J	5.9 J
DIELDRIN	60-57-1	ug/kg	34	1.9	< 4.0 U	< 8.9 U	< 4.3 U	< 3.7 U	< 9.9 UJ	< 4.2 U	< 4.8 UJ	< 8.6 U	< 5.7 U	< 5.4 U
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 4.0 U	< 8.9 U	< 4.3 U	< 3.7 U	< 9.9 UJ	< 4.2 U	< 4.8 UJ	< 8.6 U	< 5.7 U	0.47 J
ENDRIN	72-20-8	ug/kg	1900	2.22	< 4.0 U	< 8.9 U	< 4.3 U	1.3 J	< 9.9 UJ	4.1 J	< 4.8 UJ	1.6 J	6.9 J	1.3 J
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 4.0 U	< 8.9 U	< 4.3 U	< 3.7 U	< 9.9 UJ	< 4.2 U	< 4.8 UJ	< 8.6 U	< 5.7 U	< 5.4 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 4.0 U	< 8.9 U	< 4.3 U	< 3.7 U	< 9.9 UJ	< 4.2 U	< 4.8 UJ	< 8.6 U	< 5.7 U	< 5.4 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	46 J	31 J	6.9 J	5.8 J	< 5.1 UJ	24 J	1.5 J	28 J	190 J	9.2 J
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 2.0 UJ	< 4.6 U	< 2.2 U	< 1.9 U	< 5.1 UJ	< 2.2 U	< 2.5 UJ	< 4.4 U	< 2.9 U	< 2.8 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	6.9 J	< 4.6 U	< 2.2 U	4.0 J	< 5.1 UJ	< 2.2 U	< 2.5 UJ	9.1 J	20 J	< 2.8 U
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 20 U	< 46 U	< 22 U	< 19 U	< 51 UJ	< 22 U	< 25 UJ	< 44 U	< 29 U	< 28 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	< 4.0 U	< 8.9 U	< 4.3 U	1.8 J	0.88 J	< 4.2 U	< 4.8 UJ	< 8.6 U	15 J	< 5.4 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 4.0 U	< 8.9 U	< 4.3 U	< 3.7 U	< 9.9 UJ	< 4.2 U	< 4.8 UJ	< 8.6 U	< 5.7 U	< 5.4 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	9.7 J+	27 J	16 J	5.2	1.8 J	14 J+	2.1 J-	8.0 J+	23 J+	3.8 J
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 UJ	< 440 U	< 290 U	< 280 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		11 J+	< 4.6 U	< 2.2 U	4.4 J	1.2 J	< 2.2 U	< 2.5 UJ	< 4.4 U	< 2.9 U	< 2.8 U
Grain Size														
%CLAY	%CLAY	%			8.7	23.1	10.6	-	25.9	11.8	14.2	32.5	22.9	19.2
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			8.4	3.8	8.5	-	1.5	10.3	0.4	0	0.4	0.2
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			10.8	43.8	33.6	-	60.3	29	78.6	47.3	48.3	35.6
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			19.8	4.8	11.3	-	3.2	19.8	4.1	4.1	3	1.6
Gravel	GRAVEL	%			46.5	9.8	35.2	-	4.4	16.1	0.3	0	0.1	0.3
Hydrometer, Reading 1, Percent Passing	HYD01	%			10.2	32.2	10.6	-	44.9	13.6	18.9	45.9	33.5	37
Hydrometer, Reading 2, Percent Passing	HYD02	%			10.2	29.2	10.6	-	40.2	13.6	18.9	45.9	30.8	32.5
Hydrometer, Reading 3, Percent Passing	HYD03	%			10.2	29.2	10.6	-	40.2	11.8	18.9	42.6	28.2	25.9
Hydrometer, Reading 4, Percent Passing	HYD04	%			10.2	26.2	10.6	-	40.2	11.8	18.9	39.2	25.5	23.7
Hydrometer, Reading 5, Percent Passing	HYD05	%			8.7	23.1	10.6	-	40.2	11.8	16.5	32.5	22.9	19.2
Hydrometer, Reading 6, Percent Passing	HYD06	%			7.2	20.1	9	-	35.6	11.8	14	25.8	20.3	14.8
Hydrometer, Reading 7, Percent Passing	HYD07	%			7.2	20.1	9	-	30.9	11.8	14	22.4	17.6	14.8
Sand	308075-07-2	%			39	52.4	53.4	-	65	59.1	83.1	51.4	51.7	37.4
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			45.1	86.4	56.3	-	94.1	73.6	99.3	100	99.5	99.5
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			25.3	81.6	45	-	90.9	53.8	95.2	95.9	96.5	97.9
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			16.7	59.5	26.9	-	61	35.1	56.6	79.3	82.8	89.2
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			38.2	84.6	51.5	-	93.2	67.3	97.9	98.5	98.5	99
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			19	73	36.3	-	80	42.1	81.1	89.6	91.2	95.2
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			15.9	52.4	20.6	-	50.9	31.7	42.5	71.4	75.7	82.8
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			14.5	37.8	11.4	-	30.6	24.8	16.6	48.6	48.2	62.3
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			53.5	90.2	64.8	-	95.6	83.9	99.7	100	99.9	99.7
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			70.4	97.3	81.9	-	97.6	100	99.8	100	100	99.9
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	100	-	100	100	100	100	100	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	100	-	100	100	100	100	100	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	100	-	100	100	100	100	100	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	100	-	100	100	100	100	100	100
SILT	445	%			5.8	14.7	0.8	-	4.7	13	2.4	16.1	25.3	43.1

Table 11
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				Location	23A-0004-B2C1	23A-0005-PLC1	23A-0005-PLC1	23A-0005-PLC1	23A-0006-PLC2	23A-0006-PLC2	23A-0007-PLC1	23A-0007-PLC1	23A-0007-PLC1	23A-0008-PLC1
				Sample Name	23A-0004-B2C1-BS	23A-0005-PLC1-AS	23A-0005-PLC1-BS	23A-0005-PLC1-CS	23A-0006-PLC2-AS	23A-0006-PLC2-BS	23A-0007-PLC1-AS	23A-0007-PLC1-BS	23A-0007-PLC1-CS	23A-0008-PLC1-AS
				Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 1.4 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2 ft	0 - 0.5 ft	0.5 - 1.8 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 5.1 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	160	1180	119	48.1	975	215	679	18900 J	2450	1750
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	3.31	27.3	2.41 JN	< 0.596 U	19.7	4.54 JN	16.0	220	70.9	31.6
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	2	10.6	2.05 JN	< 0.988 U	11.8	2.83 JN	8.65	1560	18.6	15.6
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	6.71	73 J	6.56 J	2.86 J	36.6 J	12.7 J	52.3 J	247 J	169 J	66.8
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	10.8	58.2	5.67 JN	3.4 JN	53.5	12.8	36.4	818	123	83.2
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	3.66 JN	32.7	3.1 JN	1.31 J	21.1	6.35	24.5	144	68.5	38.4
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	5.31	29.2	3.07 JN	1.74 J	28.4	7.16	20.7	736	60.6	51.2
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 1.38 U	< 2.16 U	< 0.765 U	< 0.834 U	< 2.14 U	< 1.43 U	< 0.611 U	< 2.78 U	< 0.97 U	< 1.67 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	0.696 JN	4.33 JN	< 0.713 UJ	< 0.861 UJ	5.36 J	< 0 UJ	4.08 J	206 J	9.24 JN	7.35 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	1.4	16.4	1.74 J	< 0.638 U	4.46 J	3.32 J	6.12	41.4	20.9	12.6
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	108 J+	653 J+	67 J+	28.3 J+	583 J+	122 J+	507 J+	3060 J+	978 J+	1020 J+
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	3.48 JN	30.6	4.36 J	1.54 J	19.7	7.26	18.0	171	68.3	33.3
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	11.2	120 J+	9.64 J+	4.78 J+	17.7 J+	19.3 J+	24.3 J+	241 J+	234 J+	86.2 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 1.79 UJ	1.67	< 0.577 U	< 0.814 U	< 0.765 U	< 0.802 U	< 1.38 UJ	25.3	9.93	9.56 J
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	4.18 JN	37.2	3.25	< 1.09 UJ	8.56	6.47	7.83	67.9	59.3	41.7
OCDD	3268-87-9	pg/g	16000	5000	1020	9070	719	264	6430	1360	4550	92700 J	22500 J	9650
OCDF	39001-02-0	pg/g	16000	5000	82.5	785	58.7	19.7	634	112	508	3310	1150	767
Total HpCDD (a)	RA_Total_HpCDD	pg/g			160	1180	119	48.1	975	215	679	18900	2450	1750
Total HpCDF (a)	RA_Total_HpCDF	pg/g			111	680	69.4	28.3	603	127	523	3280	1050	1050
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		18.1	98.0	10.8	5.14	93.7	22.8	65.8	3110	202	150
Total HxCDF (a)	RA_Total_HxCDF	pg/g			13.9	136	14.0	5.71	77.4	26.3	94.8	562	306	139
Total PeCDD (a)	RA_Total_PeCDD	pg/g			0.696	4.33	< 0.713 U	< 0.861 U	5.36	< 0 U	4.08	206	9.24	7.35
Total PeCDF (a)	RA_Total_PeCDF	pg/g			12.6	136	11.4	4.78	22.2	22.6	30.4	282	255	98.8
Total TCDD (a)	RA_Total_TCDD	pg/g			< 1.79 U	1.67	< 0.577 U	< 0.814 U	< 0.765 U	< 0.802 U	< 1.38 U	25.3	9.93	9.56
Total TCDF (a)	RA_Total_TCDF	pg/g			4.18	37.2	3.25	< 1.09 U	8.56	6.47	7.83	67.9	59.3	41.7
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	593 JEB	492 JEB	82.1 JEB	5.77 JEB	98.5 JEB	72.5 JEB	1550 JEB	143000 JEB	44200 JEB	4660 JEB
PCB-002	2051-61-8	ng/g	230	14.0	4.28 JEB	25.4 JEB	1.59 JEB	< 0.0514 U	0.952 JEB	0.678 JEB	5.07 JEB	304 JEB	218 JEB	118 JEB
PCB-003	2051-62-9	ng/g	230	14.0	170 J	66.1 J	17.2 J	1.07 J	19.3 J	18.2 J	221 J	9870 J	12200 J	1130 J
PCB-004/010	PCB-4/10	ng/g	230	14.0	4390 J	7660 JEB	545 JEB	80.8 JEB	568 JEB	642 JEB	2740 JEB	283000 JEB	174000 JEB	16900 JEB
PCB-005/008	PCB-5/8	ng/g	230	14.0	2140 J	16700 JEB	869 JEB	148 JEB	294 JEB	682 JEB	851 JEB	62900 JEB	162000 JEB	6120 JEB
PCB-006	25569-80-6	ng/g	230	14.0	476 J	8930 JEB	299 JEB	71.5 JEB	66.0 JEB	236 JEB	109 JEB	9090 JEB	19300 JEB	1850 JEB
PCB-007/009	PCB-7/9	ng/g	230	14.0	52.8 J	1340 J	53.6 J	17.3 J	14.4 J	39.6 J	22.8	1370 J	651 J	702 J
PCB-011	2050-67-1	ng/g	230	14.0	32.4 EB	457 JEB	17.5 JEB	5.44 JEB	6.71 JEB	24.0 EB	25.5 EB	1130 JEB	739 JEB	165 JEB
PCB-012/013	PCB-12/13	ng/g	230	14.0	138 J	2240 J	75.3 J	16.9 J	22.1	78.6 J	61.0 J	1350 J	950 J	624 J
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0452 U	< 0.286 U	< 0.0483 U	< 0.0478 U	< 0.0499 U	< 0.0495 U	< 0.0485 U	21.7 JEB	8.34 JEB	0.819 JEB
PCB-015	2050-68-2	ng/g	230	14.0	1030 J	6310 J	244 J	39.2 J	200 J	344 J	357 J	4010 J	8370 J	148000 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	1310 JEB	23000 JEB	655 JEB	167 JEB	278 JEB	878 JEB	793 JEB	24800 JEB	56800 JEB	9020 JEB
PCB-017	37680-66-3	ng/g	230	14.0	965 JEB	18100 JEB	567 JEB	164 JEB	170 JEB	822 JEB	305 JEB	10500 JEB	57400 JEB	8330 JEB
PCB-018	37680-65-2	ng/g	230	14.0	441 JEB	26700 JEB	587 JEB	189 JEB	99.5 JEB	622 JEB	117 JEB	6030 JEB	7250 JEB	7140 JEB
PCB-019	38444-73-4	ng/g	230	14.0	711 J	3730 J	174 J	35.2	136 J	222 J	615 J	37100 J	29300 J	4300 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	54.8 JEB	8190 JEB	172 JEB	50.8 JEB	22.1 EB	202 JEB	17.7 JEB	425 JEB	802 JEB	359 JEB
PCB-022	38444-85-8	ng/g	230	14.0	119 JEB	11500 JEB	232 JEB	55.5 JEB	29.3 EB	207 JEB	35.8 EB	1410 JEB	905 JEB	955 JEB
PCB-023/034	PCB-23/34	ng/g	230	14.0	15.6 J	397 J	11.2 J	< 0.0863 U	< 0.0901 U	16.1 J	8.85 J	825 J	744 J	175 J
PCB-024/027	PCB-24/27	ng/g	230	14.0	309 J	2890 J	109 J	30.7	73.9 J	166 J	262 J	15600 J	16700 J	1990 J
PCB-025	55712-37-3	ng/g	230	14.0	442 J	9210 J	292 J	122 J	92.2 J	482 J	102 J	1610 J	3780 J	3780 J
PCB-026	38444-81-4	ng/g	230	14.0	519 J	14200 JEB	403 JEB	172 JEB	109 JEB	612 JEB	193 JEB	8940 JEB	9760 JEB	7160 JEB
PCB-028	7012-37-5	ng/g	230	14.0	692 JEB	39900 JEB	1140 JEB	375 JEB	271 JEB	1590 JEB	157 JEB	1170 JEB	2820 JEB	1610 JEB
PCB-029	15862-07-4	ng/g	230	14.0	0.591 J	84.5 J	1.67 J	< 0.0499 U	< 0.0521 U	2.22 J	< 0.0506 U	12.5 J	< 0.254 U	3.45 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
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					Location	23A-0004-B2C1	23A-0005-PLC1	23A-0005-PLC1	23A-0005-PLC1	23A-0006-PLC2	23A-0006-PLC2	23A-0007-PLC1	23A-0007-PLC1	23A-0007-PLC1	23A-0008-PLC1
					Sample Name	23A-0004-B2C1-BS	23A-0005-PLC1-AS	23A-0005-PLC1-BS	23A-0005-PLC1-CS	23A-0006-PLC2-AS	23A-0006-PLC2-BS	23A-0007-PLC1-AS	23A-0007-PLC1-BS	23A-0007-PLC1-CS	23A-0008-PLC1-AS
					Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.5 - 1.4 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2 ft	0 - 0.5 ft	0.5 - 1.8 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 5.1 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-030	35693-92-6	ng/g	230	14.0		0.639 J	24.7 J	0.670 J	< 0.0457 U	< 0.0477 U	0.524 J	< 0.0464 U	13.4 J	< 0.233 U	4.54 J
PCB-031	16606-02-3	ng/g	230	14.0		928 JEB	37900 JEB	1010 JEB	331 JEB	199 JEB	1210 JEB	347 JEB	13300 JEB	12800 JEB	11600 JEB
PCB-035	37680-69-6	ng/g	230	14.0		6.01 J+	246 J	5.10 J+	1.24 J+	1.98 J+	8.37 J+	1.56 J+	70.4 J+	< 0.276 U	< 0.0282 U
PCB-036	38444-87-0	ng/g	230	14.0		1.37 J	211	5.02 J	< 0.0463 U	< 0.0483 U	< 0.0479 U	< 0.0470 U	99.1 J	92.8 J	31.4 J
PCB-037	38444-90-5	ng/g	230	14.0		118 J	7060 J	146 J	37.4	23.6	151 J	24.4	303 J	278 J	269 J
PCB-038	53555-66-1	ng/g	230	14.0		13.4 J	294 J	6.69 J	3.40 J	5.37 J	17.8 J	9.02 J	204	458 J	204 J
PCB-039	38444-88-1	ng/g	230	14.0		3.51 J	58.1 J	1.96 J	0.844 J	< 0.0245 U	3.63 J	4.19 J	193	147	39.7 J
PCB-040	38444-93-8	ng/g	230	14.0		16.8 J	2830 JEB	66.3 JEB	27.6 EB	8.66 JEB	81.4 JEB	5.63 JEB	217 EB	364 JEB	328 JEB
PCB-041/064	PCB-41/64	ng/g	230	14.0		93.8 J	8610 J	229 J	87.8 J	40.4 J	292 J	36.2	2300 J	2350 J	823 J
PCB-042	36559-22-5	ng/g	230	14.0		126 J	6090 J	156 J	63.1 J	42.8 J	235 J	40.9 J	1470 J	2510 J	1230 J
PCB-043/049	PCB-43/49	ng/g	230	14.0		594 J	16700 JEB	487 JEB	211 JEB	192 JEB	818 JEB	264 JEB	9550 JEB	16700 JEB	6560 JEB
PCB-044	41464-39-5	ng/g	230	14.0		173 JEB	15600 JEB	378 JEB	166 JEB	68.1 JEB	539 JEB	47.3 JEB	1680 JEB	3330 JEB	2640 JEB
PCB-045	70362-45-7	ng/g	230	14.0		20	3890 J	88.1 J	31.2	12.2 J	103 J	9.53 J	1170 J	1040 J	348 J
PCB-046	41464-47-5	ng/g	230	14.0		32.1	1390 J	32.3	11.3 J	9.65 J	42.5 J	8.75 J	222	519 J	273 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0		505 J	9790 JEB	306 JEB	123 JEB	175 JEB	567 JEB	329 JEB	7770 JEB	17800 JEB	3930 JEB
PCB-050	62796-65-0	ng/g	230	14.0		6.73 J	100 J	3.43 J	1.29 J	1.87 J	6.62 J	5.48 J	172	307 J	58.3 J
PCB-051	68194-04-7	ng/g	230	14.0		119 J	1460 J	49.3 J	20.0	32.9	102 J	68.2 J	2050 J	6480 J	1240 J
PCB-052/073	PCB-52/73	ng/g	230	14.0		441 JEB	17400 JEB	466 JEB	215 JEB	144 JEB	768 JEB	180 JEB	7710 JEB	10700 JEB	6200 JEB
PCB-053	41464-41-9	ng/g	230	14.0		210 J	3690 J	116 J	53.1 J	57.3 J	204 J	100 J	4160 J	9650 J	2370 J
PCB-054	15968-05-5	ng/g	230	14.0		15.5 J	100 J	3.84 J	1.38 J	3.82 J	7.46 J	12.3 J	490 J	577 J	132 J
PCB-055	74338-24-2	ng/g	230	14.0		0.924 J	260 J	6.70 J	2.20 J	< 0.0548 U	6.96 J	0.445 J	9.25 J	< 0.267 U	< 0.0273 U
PCB-056/060	PCB-56/60	ng/g	230	14.0		34.5	7040 JEB	173 JEB	47.5 JEB	29.7 EB	177 JEB	23.3 EB	66.2 JEB	36.3 JEB	40.2 JEB
PCB-057	70424-67-8	ng/g	230	14.0		6.84 J	193	7.07 J	4.80 J	2.29 J	14.2 J	4.78 J	369 J	572 J	64.7 J
PCB-058	41464-49-7	ng/g	230	14.0		1.06 J	39.1 J	1.35 J	0.804 J	0.854 J	2.29 J	0.458 J	16.6 J	19.5 J+	3.45 J+
PCB-059	74472-33-6	ng/g	230	14.0		6.28 J	1270 J	38.2	13.4 J	4.53 J	43.3 J	3.76 J	467 J	221 J	102 J
PCB-061/074	PCB-61/74	ng/g	230	14.0		99.5 J	6790 JEB	182 JEB	66.9 JEB	42.5 JEB	262 JEB	37.6 EB	406 JEB	219 JEB	168 JEB
PCB-062	54230-22-7	ng/g	230	14.0		< 0.0476 U	< 0.301 U	< 0.0508 U	< 0.0502 U	< 0.0525 U	< 0.0520 U	< 0.0510 U	< 0.299 U	< 0.256 U	< 0.0261 U
PCB-063	74472-34-7	ng/g	230	14.0		28.9	895 J	31.6	14.5 J	9.94 J	52.9 J	22.7	1280 J	1570 J	181 J
PCB-065	33284-54-7	ng/g	230	14.0		< 0.0685 U	10.7 J	< 0.0732 U	< 0.0724 U	< 0.0756 U	< 0.0750 U	< 0.0736 U	35.1 J	8.22 J+	< 0.0377 U
PCB-066/080	PCB-66/80	ng/g	230	14.0		140 JEB	9330 JEB	264 JEB	74.6 JEB	71.3 JEB	329 JEB	52.6 JEB	329 JEB	306 JEB	141 JEB
PCB-067	73575-53-8	ng/g	230	14.0		4.62 J	535 J	16.0 J	6.43 J	3.66 J	23.8	2.84 J	43.3 J	27.5 J+	15.7 J+
PCB-068	73575-52-7	ng/g	230	14.0		9.57 J	< 0.314 U	< 0.0531 U	< 0.0525 U	3.72 J	8.29 J	9.24 J	233 J	361 J	59.7 J
PCB-069	60233-24-1	ng/g	230	14.0		2.93 J	46.6 J	1.65 J	0.652 J	1.10 J	2.77 J	2.90 J	74.9 J	79.0 J+	12.0 J+
PCB-070	32598-11-1	ng/g	230	14.0		91.8 JEB	9040 JEB	251 JEB	67.1 JEB	67.6 JEB	354 JEB	44.8 JEB	112 JEB	82.4 JEB	83.4 JEB
PCB-071	41464-46-4	ng/g	230	14.0		161 J	4810 JEB	146 JEB	61.0 JEB	42.6 JEB	236 JEB	56.7 JEB	1660 JEB	4080 JEB	1190 JEB
PCB-072	41464-42-0	ng/g	230	14.0		10.8 J	132	5.78 J	3.27 J	4.28 J	12.2 J	10.8 J	334 J	440 J	112 J
PCB-076	70362-48-0	ng/g	230	14.0		< 0.0687 U	< 0.435 U	< 0.0734 U	< 0.0726 U	< 0.0758 U	< 0.0752 U	< 0.0738 U	< 0.432 U	< 0.370 U	< 0.0377 U
PCB-077	32598-13-3	ng/g	38.0	14.0		23.6 J+	1160 J	32.2 J+	11.4 J+	9.99 J+	38.5 J+	9.10 J+	99.0 J+	65.1 J+	54.8 J
PCB-078	70362-49-1	ng/g	230	14.0		0.443 J	18.5 J	0.625 J	0.395 J	< 0.0388 U	1.15 J	< 0.0377 U	14.2 J	21.9 J+	5.25 J+
PCB-079	41464-48-6	ng/g	230	14.0		< 0.0441 U	< 0.279 U	< 0.0471 U	< 0.0466 U	< 0.0487 U	< 0.0483 U	< 0.0474 U	< 0.278 U	< 0.237 U	3.19 J+
PCB-081	70362-50-4	ng/g	12.0	14.0		0.74 J+	92.4 J+	2.79 J+	1.06 J+	0.762 J+	3.82 J+	< 0.0740 U	< 0.433 U	< 0.371 U	5.99 J+
PCB-082	52663-62-4	ng/g	230	14.0		6.26 J	808 J	20.8	9.14 J	4.16 J	26.5	3.96 J	74.4 J	35.3 J	44.0 J
PCB-083/109	PCB-83/109	ng/g	230	14.0		6.79 J	312 J	10.1 J	5.72 J	3.68 J	18.8 J	4.65 J	208	386 J	101 J
PCB-084	52663-60-2	ng/g	230	14.0		22.2	1580 J	42.0 J	22.6	13.6 J	72.9 J	12.1 J	420 J	592 J	347 J
PCB-085/120	PCB-85/120	ng/g	230	14.0		14 J	1280 J	38.6 J	16.5 J	10.9 J	52.4 J	9.33 J	212	83.2 J	67.9 J
PCB-086/097	PCB-86/97	ng/g	230	14.0		14.8 J	1460 J	40.9 J	< 0.0453 U	< 0.0473 U	61.9 J	9.76 J	121	72.0 J	82.3 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0		< 0.0276 U	< 0.175 U	< 0.0295 U	< 0.0292 U	< 0.0305 U	< 0.0302 U	< 0.0297 U	< 0.174 U	< 0.149 U	225 J
PCB-088/121	PCB-88/121	ng/g	230	14.0		< 0.0999 U	39.0 J	0.852 J	< 0.106 U	< 0.110 U	< 0.109 U	< 0.107 U	< 0.629 U	14.0 J	4.28 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0		53.1 J	3310 J	100 J	46.1 J	47.8 J	183 J	42.8 J	811 J	1230 J	433 J
PCB-091	68194-05-8	ng/g	230	14.0		36.8 J	1140 J	36.6	18.6 J	17.6 J	67.4 J	25.8	954 J	2040 J	478 J

Table 11
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					Location	23A-0004-B2C1	23A-0005-PLC1	23A-0005-PLC1	23A-0005-PLC1	23A-0006-PLC2	23A-0006-PLC2	23A-0007-PLC1	23A-0007-PLC1	23A-0007-PLC1	23A-0008-PLC1
					Sample Name	23A-0004-B2C1-BS	23A-0005-PLC1-AS	23A-0005-PLC1-BS	23A-0005-PLC1-CS	23A-0006-PLC2-AS	23A-0006-PLC2-BS	23A-0007-PLC1-AS	23A-0007-PLC1-BS	23A-0007-PLC1-CS	23A-0008-PLC1-AS
					Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.5 - 1.4 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2 ft	0 - 0.5 ft	0.5 - 1.8 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 5.1 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-092	52663-61-3	ng/g	230	14.0		27.5	663 J	23.6	13.9 J	13.6 J	51.4 J	20.0	880 J	1500 J	373 J
PCB-093/095	PCB-93/95	ng/g	230	14.0		49.2 J	3540 J	107 J	60.6 J	37.0	213 J	31.9	1410 J	1710 J	977 J
PCB-094	73575-55-0	ng/g	230	14.0		5.1 J	73.8 J	2.83 J	1.53 J	1.98 J	5.51 J	3.83 J	178	390 J	54.4 J
PCB-096	73575-54-9	ng/g	230	14.0		2.58 J	145	3.70 J	1.91 J	1.17 J	6.77 J	1.61 J	99.7 J	171	40.3 J
PCB-098/102	PCB-98/102	ng/g	230	14.0		12.5 J	434 J	13.4 J	6.47 J	4.17 J	26.7	6.91 J	291 J	363 J	164 J
PCB-099	38380-01-7	ng/g	230	14.0		42.5 J	2080 J	64.9 J	29.4	29.1	107 J	30.4	578 J	451 J	265 J
PCB-100	39485-83-1	ng/g	230	14.0		5.3 J	33.6 J	1.49 J	0.768 J	2.67 J	3.83 J	4.93 J	108 J	292 J	56.6 J
PCB-103	60145-21-3	ng/g	230	14.0		4.62 J	55.4 J	2.17 J	1.27 J	1.93 J	4.65 J	3.64 J	98.7 J	250 J	61.4 J
PCB-104	56558-16-8	ng/g	230	14.0		< 0.0420 U	1.34 J	< 0.0448 U	< 0.0444 U	< 0.0463 U	< 0.0459 U	0.322 J	7.03 J	12.9 J	4.26 J
PCB-105/127	PCB-105/127	ng/g	120	14.0		19.5	1880 J	51.4 J	19.5	14.8 J	70.8 J	13.8 J	145	55.1 J	54.4 J
PCB-106/118	PCB-106/118	ng/g	120	14.0		53.4 J	3040 J	94.1 J	37.9	44.5 J	174 J	45.4 J	527 J	287 J	196 J
PCB-107/108	PCB-107/108	ng/g	230	14.0		7.42 J	290 J	9.64 J	3.83 J	5.10 J	17.9 J	5.62 J	128	141	34.6 J
PCB-110	38380-03-9	ng/g	230	14.0		92.9 J	4710 JEB	152 JEB	84.7 JEB	68.3 JEB	304 JEB	61.6 JEB	2090 JEB	2750 JEB	1640 JEB
PCB-111/117	PCB-111/117	ng/g	230	14.0		24.2	1830 J	51.0 J	22.2	19.3 J	84.2 J	18.8 J	447 J	541 J	< 0.0681 U
PCB-112	74472-36-9	ng/g	230	14.0		0.924 J	30.2 J	0.942 J	0.604 J	0.391 J	1.94 J	0.905 J	52.2 J	60.3 J	9.70 J
PCB-113	68194-10-5	ng/g	230	14.0		< 0.0454 U	23.0 J	0.919 J	0.705 J	< 0.0501 U	2.12 J	0.499 J	35.5 J	50.6 J	26.0 J
PCB-114	74472-37-0	ng/g	120	14.0		1.98 J	166	4.50 J	1.62 J	1.24 J	6.66 J	1.58 J	29.1 J	8.96 J	6.06 J
PCB-119	56558-17-9	ng/g	230	14.0		9.23 J	145	5.46 J	3.18 J	4.60 J	12.7 J	6.37 J	138	340 J	108 J
PCB-122	76842-07-4	ng/g	230	14.0		0.727 J	67.2 J	1.77 J	0.710 J	< 0.0350 U	2.23 J	< 0.0341 U	< 0.200 U	< 0.171 U	< 0.0174 U
PCB-123	65510-44-3	ng/g	120	14.0		1.9 J+	103 J+	3.24 J+	1.39 J+	1.92 J+	5.58 J+	1.58 J+	29.2 J+	21.2 J+	13.0 J+
PCB-124	70424-70-3	ng/g	230	14.0		1.97 J	118	3.65 J	1.35 J	1.58 J	5.78 J	1.20 J	13.8 J	< 0.213 U	4.08 J
PCB-125	74472-39-2	ng/g	230	14.0		0.76 J	28.6 J	0.844 J	< 0.0459 U	< 0.0479 U	1.44 J	0.440 J	10.2 J	10.7 J	< 0.0239 U
PCB-126	57465-28-8	ng/g	0.0360	14.0		< 0.0617 U	18.1 J+	0.613 J+	< 0.0652 U	< 0.0681 U	1.33 J+	< 0.0662 U	< 0.388 U	26.0 J+	9.09 J+
PCB-128	38380-07-3	ng/g	230	14.0		6.4 J	159	6.62 J	3.27 J	7.32 J	18.0 J	6.25 J	126	91.4 J	61.9 J
PCB-129	55215-18-4	ng/g	230	14.0		1.28 J	46.5 J	1.84 J	0.730 J	1.45 J	4.76 J	1.59 J	24.5 J	< 0.258 U	7.47 J
PCB-130	52663-66-8	ng/g	230	14.0		2.66 J	59.5 J	2.64 J	1.57 J	2.64 J	7.09 J	2.61 J	63.9 J	63.0 J	38.3 J
PCB-131/142	PCB-131/142	ng/g	230	14.0		< 0.0928 U	15.7 J	0.681 J	0.330 J	0.381 J	1.59 J	0.358 J	< 0.584 U	< 0.499 U	4.07 J
PCB-132/168	PCB-132/168	ng/g	230	14.0		11 J	290 J	13.5 J	8.10 J	11.9 J	36.4	10.2 J	212	190	165 J
PCB-133	35694-04-3	ng/g	230	14.0		1.22 J	10.6 J	0.628 J	0.429 J	0.797 J	1.89 J	1.02 J	30.7 J	83.1 J	22.9 J
PCB-134	52704-70-8	ng/g	230	14.0		2.12 J	47.1 J	2.07 J	1.12 J	2.05 J	5.76 J	2.35 J	66.0 J	127	34.4 J
PCB-135/144	PCB-135/144	ng/g	230	14.0		5.6 J	121	5.74 J	3.70 J	4.98 J	16.1 J	5.34 J	157	237 J	104 J
PCB-136	38411-22-2	ng/g	230	14.0		4.06 J	102 J	4.79 J	2.87 J	4.44 J	12.7 J	4.25 J	118	194 J	71.6 J
PCB-137	35694-06-5	ng/g	230	14.0		2.57 J	60.6 J	2.34 J	1.15 J	2.57 J	6.18 J	2.79 J	54.0 J	36.8 J	16.8
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0		37 J	757 J	33.7	20.3	44.4 J	102 J	42.4 J	828 J	1000 J	403 J
PCB-139/149	PCB-139/149	ng/g	230	14.0		23.6	474 J	23.6	15.3 J	25.6	66.6 J	24.0	546 J	729 J	383 J
PCB-140	59291-64-4	ng/g	230	14.0		< 0.0639 U	5.46 J	< 0.0682 U	< 0.0675 U	< 0.0705 U	0.708 J	< 0.0686 U	< 0.402 U	11.1 J	7.74 J
PCB-141	52712-04-6	ng/g	230	14.0		4.37 J	123	5.04 J	2.46 J	4.91 J	13.4 J	5.00 J	87.1 J	46.1 J	23.9 J
PCB-143	68194-15-0	ng/g	230	14.0		< 0.0576 U	5.94 J	< 0.0615 U	< 0.0609 U	< 0.0635 U	< 0.0630 U	< 0.0618 U	< 0.362 U	< 0.310 U	1.41 J
PCB-145	74472-40-5	ng/g	230	14.0		< 0.0761 U	< 0.481 U	< 0.0812 U	< 0.0804 U	< 0.0839 U	< 0.0832 U	< 0.0817 U	< 0.479 U	< 0.409 U	0.616 J
PCB-146	51908-16-8	ng/g	230	14.0		5.81 J	77.7 J	4.25 J	2.76 J	4.71 J	11.7 J	4.96 J	107 J	162	88.3 J
PCB-147	68194-13-8	ng/g	230	14.0		4.44 J	22.4 J	1.21 J	0.639 J	2.68 J	4.44 J	3.53 J	98.7 J	330 J	42.2 J
PCB-148	74472-41-6	ng/g	230	14.0		0.276 J	< 0.445 U	< 0.0751 U	< 0.0743 U	< 0.0776 U	< 0.0769 U	0.193 J	4.99 J	20.6 J	5.10 J
PCB-150	68194-08-1	ng/g	230	14.0		0.296 J	1.55 J	< 0.0758 U	< 0.0751 U	0.135 J	0.286 J	0.288 J	9.41 J	35.1 J	4.09 J
PCB-151	52663-63-5	ng/g	230	14.0		7.33 J	115	5.85 J	3.72 J	6.39 J	17.1 J	7.34 J	234 J	431 J	117 J
PCB-152	68194-09-2	ng/g	230	14.0		0.395 J	< 0.526 U	< 0.0887 U	< 0.0878 U	0.242 J	0.433 J	0.328 J	11.4 J	29.9 J	4.34 J
PCB-153	35065-27-1	ng/g	230	14.0		22.6	416 J	21.4	11.8 J	27.5	63.6 J	27.0	448 J	442 J	231 J
PCB-154	60145-22-4	ng/g	230	14.0		1.74 J	9.14 J	0.544 J	0.504 J	0.976 J	2.11 J	1.34 J	38.0 J	120	28.9 J
PCB-155	33979-03-2	ng/g	230	14.0		< 0.0427 U	< 0.270 U	< 0.0456 U	< 0.0451 U	< 0.0471 U	< 0.0467 U	< 0.0458 U	< 0.269 U	1.19 J	< 0.0235 U
PCB-156	38380-08-4	ng/g	120	14.0		3.71 J	81.4 J	3.69 J	2.07 J	3.30 J	10.4 J	4.64 J	80.4 J	55.5 J	27.9 J
PCB-157	69782-90-7	ng/g	120	14.0		1.05 J+	22.8 J+	1.08 J+	0.606 J+	1.16 J+	2.96 J+	1.64 J+	23.6 J+	19.7 J+	10.4 J+

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0004-B2C1	23A-0005-PLC1	23A-0005-PLC1	23A-0005-PLC1	23A-0006-PLC2	23A-0006-PLC2	23A-0007-PLC1	23A-0007-PLC1	23A-0007-PLC1	23A-0008-PLC1
				Sample Name	23A-0004-B2C1-BS	23A-0005-PLC1-AS	23A-0005-PLC1-BS	23A-0005-PLC1-CS	23A-0006-PLC2-AS	23A-0006-PLC2-BS	23A-0007-PLC1-AS	23A-0007-PLC1-BS	23A-0007-PLC1-CS	23A-0008-PLC1-AS
				Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 1.4 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2 ft	0 - 0.5 ft	0.5 - 1.8 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 5.1 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-158/160	PCB-158/160	ng/g	230	14.0	3.51 J	87.2 J	3.93 J	2.02 J	3.91 J	10.5 J	3.89 J	71.3 J	51.4 J	30.0 J
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0689 U	< 0.436 U	< 0.0735 U	< 0.0728 U	< 0.0760 U	0.541 J	< 0.0740 U	7.11 J	10.9 J	4.89 J
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0644 U	< 0.407 U	< 0.0688 U	< 0.0681 U	< 0.0711 U	< 0.0704 U	< 0.0691 U	< 0.405 U	< 0.346 U	< 0.0354 U
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0508 U	4.03 J	< 0.0542 U	< 0.0537 U	< 0.0560 U	< 0.0555 U	< 0.0545 U	< 0.319 U	< 0.273 U	2.80 J
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0696 U	< 0.440 U	< 0.0743 U	< 0.0736 U	< 0.0768 U	< 0.0761 U	< 0.0747 U	< 0.438 U	14.7 J	4.23 J
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0599 U	5.19 J	< 0.0640 U	< 0.0633 U	< 0.0661 U	0.534 J	< 0.0643 U	< 0.377 U	< 0.322 U	1.91 J
PCB-167	52663-72-6	ng/g	120	14.0	1.48 J	26.5 J+	1.48 J+	0.718 J+	1.86 J+	4.05 J+	1.77 J	32.2 J	24.5 J	11.1
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0508 U	< 0.321 U	< 0.0542 U	< 0.0537 U	< 0.0560 U	< 0.0555 U	< 0.0545 U	< 0.319 U	< 0.273 U	< 0.0279 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	9.28 J	94.1 J	5.86 J	3.60 J	7.64 J	17.2 J	9.67 J	211	257 J	115 J
PCB-171	52663-71-5	ng/g	230	14.0	2.32 J	24.9 J	1.50 J	0.953 J	2.08 J	4.57 J	2.29 J	53.7 J	65.9 J	31.9 J
PCB-172/192	PCB-172/192	ng/g	230	14.0	1.19 J	12.4 J	0.662 J	0.495 J	1.02 J	2.24 J	1.25 J	30.1 J	40.9 J	16.5
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0743 U	< 0.470 U	< 0.0793 U	< 0.0785 U	< 0.0820 U	< 0.0812 U	< 0.0797 U	< 0.467 U	< 0.400 U	2.06 J
PCB-174	38411-25-5	ng/g	230	14.0	6.79 J	82.5 J	4.82 J	2.91 J	5.75 J	13.8 J	6.99 J	160	166	81.5 J
PCB-175	40186-70-7	ng/g	230	14.0	< 0.0572 U	3.45 J	< 0.0611 U	< 0.0605 U	< 0.0631 U	< 0.0626 U	0.298 J	7.76 J	10.2 J	5.01 J
PCB-176	52663-65-7	ng/g	230	14.0	0.888 J	10.0 J	0.533 J	0.423 J	0.638 J	1.64 J	0.832 J	20.3 J	25.7 J	13.7
PCB-177	52663-70-4	ng/g	230	14.0	4.65 J	46.9 J	2.91 J	2.04 J	3.83 J	8.87 J	4.42 J	106 J	140	76.4 J
PCB-178	52663-67-9	ng/g	230	14.0	1.99 J	15.8 J	1.13 J	0.699 J	1.59 J	3.48 J	1.83 J	50.5 J	99.1	35.1 J
PCB-179	52663-64-6	ng/g	230	14.0	2.92 J	30.5 J	1.86 J	1.25 J	2.17 J	5.56 J	2.82 J	76.9 J	134	49.4 J
PCB-180	35065-29-3	ng/g	230	14.0	17.2 J	171	10.5 J	6.51 J	13.7 J	30.8	16.8 J	396 J	461 J	202 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0508 U	< 0.321 U	< 0.0542 U	< 0.0537 U	< 0.0560 U	< 0.0555 U	< 0.0545 U	< 0.319 U	< 0.273 U	< 0.0279 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	9.83 J	91.4 J	5.72 J	3.87 J	8.02 J	16.1 J	9.31 J	237 J	369 J	156 J
PCB-183	52663-69-1	ng/g	230	14.0	4.12 J	42.4 J	2.51 J	1.63 J	3.34 J	7.61 J	4.05 J	96.6 J	115	53.8 J
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0481 U	< 0.304 U	< 0.0513 U	< 0.0508 U	< 0.0531 U	< 0.0526 U	< 0.0516 U	< 0.303 U	< 0.259 U	< 0.0264 U
PCB-185	52712-05-7	ng/g	230	14.0	0.732 J	10.2 J	0.563 J	0.290 J	0.647 J	1.58 J	0.747 J	20.6 J	19.2 J	8.73 J
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0601 U	< 0.380 U	< 0.0642 U	< 0.0635 U	< 0.0663 U	< 0.0657 U	< 0.0645 U	< 0.378 U	< 0.323 U	< 0.0330 U
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0551 U	< 0.348 U	< 0.0588 U	< 0.0582 U	< 0.0608 U	< 0.0602 U	< 0.0591 U	< 0.347 U	6.46 J	0.772 J
PCB-189	39635-31-9	ng/g	130	14.0	0.384 J	3.86 J	< 0.0598 U	< 0.0592 U	0.449 J	0.863 J	0.457 J	10.1 J	14.6 J	4.71 J
PCB-191	74472-50-7	ng/g	230	14.0	0.317 J	3.44 J	0.194 J	< 0.0535 U	0.304 J	0.778 J	0.284 J	8.17 J	8.90 J	3.25 J
PCB-193	69782-91-8	ng/g	230	14.0	1.02 J	8.92 J	0.513 J	0.354 J	0.811 J	1.75 J	0.875 J	22.3 J	36.4 J	10.4
PCB-194	35694-08-7	ng/g	230	14.0	12.6 J	49.2 J	3.81 J	2.38 J	4.63 J	9.33 J	5.69 J	147	232 J	94.1 J
PCB-195	52663-78-2	ng/g	230	14.0	2.07 J	18.7 J	1.22 J	0.834 J	1.75 J	3.43 J	2.15 J	50.0 J	75.1 J	31.4 J
PCB-196/203	PCB-196/203	ng/g	230	14.0	6.13 J	52.2 J	4.03 J	2.00 J	4.94 J	9.26 J	6.02 J	154	222 J	89.8 J
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0605 U	< 0.383 U	< 0.0645 U	< 0.0639 U	< 0.0667 U	< 0.0661 U	< 0.0649 U	3.98 J	6.36 J	2.57 J
PCB-198	68194-17-2	ng/g	230	14.0	< 0.0982 U	< 0.621 U	< 0.105 UJ	< 0.104 UJ	< 0.108 UJ	< 0.107 UJ	< 0.105 U	< 0.618 U	< 0.528 U	4.09 J
PCB-199	52663-75-9	ng/g	230	14.0	5.2 J	44.4 J	3.36 J	1.73 J	4.34 J	7.90 J	5.07 J	133	180	77.6 J
PCB-200	52663-73-7	ng/g	230	14.0	< 0.0481 U	6.17 J	0.381 J	< 0.0508 U	0.525 J	0.944 J	0.678 J	16.5 J	21.5 J	8.56 J
PCB-201	40186-71-8	ng/g	230	14.0	0.575 J	6.02 J	0.308 J	< 0.0402 U	0.485 J	1.00 J	0.553 J	16.0 J	23.8 J	8.78 J
PCB-202	2136-99-4	ng/g	230	14.0	0.951 J	8.27 J	0.477 J	0.250 J	0.663 J	1.25 J	0.883 J	26.3 J	36.9 J	12.8
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0795 U	< 0.503 U	< 0.0848 U	< 0.0840 U	< 0.0877 U	< 0.0869 U	< 0.0853 U	< 0.500 U	< 0.428 U	< 0.0437 U
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0563 U	< 0.356 U	< 0.0601 U	< 0.0595 U	< 0.0622 U	0.672 J	< 0.0605 U	9.04 J	11.3 J	4.84 J
PCB-206	40186-72-9	ng/g	230	14.0	2.71 J	22.8 J	1.78 J	1.05 J	2.47 J	3.56 J	2.61 J	70.7 J	89.2 J	37.7 J
PCB-207	52663-79-3	ng/g	230	14.0	< 0.0714 U	2.23 J	< 0.0762 U	< 0.0755 U	0.253 J	< 0.0781 U	< 0.0766 U	6.97 J	10.3 J	3.62 J
PCB-208	52663-77-1	ng/g	230	14.0	0.59 J	7.39 J	0.597 J	0.498 J	0.829 J	1.02 J	0.782 J	20.0 J	21.3 J	10.0
PCB-209	2051-24-3	ng/g	230	14.0	0.735 J	9.67 J	0.973 J	1.00 J	1.78 J	1.15 J	1.74 J	18.1 J	18.3 J	16.7
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	0.735	9.67	0.973	1.00	1.78	1.15	1.74	18.1	18.3	16.7
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	63.6	652	39.3	25.0	52.0	117	62.9	1510	1970	866
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	155	3150	147	86.2	166	422	165	3480	4560	1960
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	27.5	185	13.6	7.19	17.3	33.8	21.0	556	809	335
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	19400	411000	12400	4040	4480	16900	10900	699000	724000	275000
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	518	29400	889	412	351	1590	370	10100	13900	5880
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	8260	43600	2100	379	1170	2050	4170	363000	366000	174000
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	767	584	101	6.84	119	91.4	1780	153000	56600	5910
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	3.30	32.4	2.38	1.55	3.55	4.58	3.39	97.7	121	51.3
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	2980	129000	3540	1390	1080	5330	1390	44500	80400	28400
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	6650	204000	5520	1740	1510	7210	2990	123000	200000	57000

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0004-B2C1	23A-0005-PLC1	23A-0005-PLC1	23A-0005-PLC1	23A-0006-PLC2	23A-0006-PLC2	23A-0007-PLC1	23A-0007-PLC1	23A-0007-PLC1	23A-0008-PLC1
				Sample Name	23A-0004-B2C1-BS	23A-0005-PLC1-AS	23A-0005-PLC1-BS	23A-0005-PLC1-CS	23A-0006-PLC2-AS	23A-0006-PLC2-BS	23A-0007-PLC1-AS	23A-0007-PLC1-BS	23A-0007-PLC1-CS	23A-0008-PLC1-AS
				Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 1.4 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2 ft	0 - 0.5 ft	0.5 - 1.8 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 5.1 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	3800	5900	2700	4600	4600	3600	2800	9100	6900	7100
Calcium	7440-70-2	mg/kg			1200	3200	980	1500	3300	1600	1400	3700	2400	2000
Iron	7439-89-6	mg/kg	5500	20000	20000	13000	6100	9500	19000	10000	9400	16000	12000	13000
Magnesium	7439-95-4	mg/kg			1800	2000	1600	3000	1500	1900	1000	2300	2300	2200
Potassium	7440-09-7	mg/kg			300 J	390 J	170 J	240 J	290 J	190 J	180 J	520 J	490 J	520 J
Sodium	7440-23-5	mg/kg			270 J	1100	290 J	370 J	490 J	210 J	150 J	670 J	460 J	290 J
Antimony	7440-36-0	mg/kg	3.1	2	< 1.1 U	< 2.6 U	14	4.2	< 2.6 U	< 0.85 U	1.8	2.4	1.6	< 1.2 U
Arsenic	7440-38-2	mg/kg	0.68	9.8	2.0	4.3	1.4 J	1.0 J	4.9	1.5	2.1	7.2	6.0	6.2
Barium	7440-39-3	mg/kg	1500	20	33	69	18 J	34 J	95	27	38	130	97	80
Beryllium	7440-41-7	mg/kg	16		0.19 J	0.22 J	0.17 J	0.32 J	0.39 J	0.16 J	0.16 J	0.57 J	0.42 J	0.40 J
Cadmium	7440-43-9	mg/kg	0.71	1	< 0.55 U	0.77 J	0.20 J	0.16 J	0.94 J	0.22 J	0.46 J	4.2	2.4	1.3
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	9.4	28	10	11	38	11	17	110	73	58
Cobalt	7440-48-4	mg/kg	2.3	50	2.8	7.1	5.3	4.5	8.0	3.7	5.3	7.5	6.4	6.8
Copper	7440-50-8	mg/kg	310	31.6	21	55	21	16	48	36	24	150	110	74
Lead	7439-92-1	mg/kg	200	35.8	77	87	420	210	110	110	44	400	300	190
Manganese	7439-96-5	mg/kg	180	460	130	710	99	81	600 J	79	260	420	350	220
Nickel	7440-02-0	mg/kg	140	22.7	6.6	12	7.9	9.9	10	7.9	5.9	20	15	13
Selenium	7782-49-2	mg/kg	39	11	< 2.7 U	< 6.5 U	< 2.7 U	< 2.5 U	< 6.4 U	< 2.1 U	< 3.6 U	0.82 J	0.54 J	0.65 J
Silver	7440-22-4	mg/kg	39	1	0.082 J	0.26 J	0.070 J	< 0.51 U	0.35 J	0.11 J	0.11 J	1.4	1.1	0.39 J
Thallium	7440-28-0	mg/kg	0.078		< 0.55 U	< 1.3 U	< 0.54 U	< 0.51 U	< 1.3 U	< 0.43 U	< 0.71 U	< 1.0 U	< 0.58 U	< 0.62 U
Vanadium	7440-62-2	mg/kg	39		7.3	15	12	12	18	9.8	9.3	39	28	23
Zinc	7440-66-6	mg/kg	2300	121	68 J	200 J	73	37	240 J	83 J	110 J	400 J	280 J	230 J
Mercury	7439-97-6	mg/kg	2.3	0.18	0.33	0.73	0.075 J	0.064 J	0.47 J-	0.12	0.17	3.2	1.7	1.3
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.58 U	< 1.3 U	< 0.63 U	< 0.55 U	0.93 J-	< 0.62 U	< 0.71 U	< 1.3 U	< 0.83 U	< 0.82 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 5.7 U	2600	92	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 U	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 5.7 U	960 J	59	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 U	< 8.2 U	< 6.2 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 U	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 5.7 U	260	21	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 U	< 8.2 U	< 6.2 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 5.7 U	22 J	< 5.6 UJ	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 UJ	< 8.2 U	< 6.2 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 5.7 U	< 14 UJ	< 5.6 UJ	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 UJ	< 8.2 U	< 6.2 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 5.7 U	< 14 UJ	< 5.6 UJ	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 UJ	< 8.2 U	< 6.2 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 5.7 U	67 J+	1.9 J-	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 UJ	< 8.2 U	< 6.2 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 5.7 U	< 14 UJ	< 5.6 UJ	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 UJ	< 8.2 U	< 6.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 5.7 U	< 14 UJ	< 5.6 U	-	< 13 UJ	< 5.6 U	< 5.5 UJ	< 14 UJ	< 8.2 U	< 6.2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 5.7 U	8700	42 J-	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 UJ	< 8.2 U	< 6.2 U
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 5.7 U	37	4.8 J	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 U	< 8.2 U	< 6.2 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 5.7 U	< 14 U	< 5.6 UJ	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 5.7 U	< 14 UJ	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 UJ	< 8.2 U	< 6.2 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 5.7 U	< 14 UJ	< 5.6 UJ	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 UJ	< 8.2 U	< 6.2 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 5.7 U	24 J+	0.86 J-	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 UJ	< 8.2 U	< 6.2 U
2-HEXANONE	591-78-6	ug/kg	20000	45	< 11 U	< 29 U	< 11 UJ	-	< 26 UJ	< 11 UJ	< 11 UJ	< 28 UJ	< 16 U	< 12 U
ACETONE	67-64-1	ug/kg	7000000	65	39	430 J+	< 11 U	-	150 J	17	71 J+	730 J+	97	< 12 U
Benzene	71-43-2	ug/kg	1200	10	< 5.7 U	6.8 J	< 5.6 U	-	< 13 UJ	< 5.6 U	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 U	< 8.2 U	< 6.2 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 5.7 U	< 14 U	< 5.6 UJ	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0004-B2C1	23A-0005-PLC1	23A-0005-PLC1	23A-0005-PLC1	23A-0006-PLC2	23A-0006-PLC2	23A-0007-PLC1	23A-0007-PLC1	23A-0007-PLC1	23A-0008-PLC1
				Sample Name	23A-0004-B2C1-BS	23A-0005-PLC1-AS	23A-0005-PLC1-BS	23A-0005-PLC1-CS	23A-0006-PLC2-AS	23A-0006-PLC2-BS	23A-0007-PLC1-AS	23A-0007-PLC1-BS	23A-0007-PLC1-CS	23A-0008-PLC1-AS
				Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 1.4 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2 ft	0 - 0.5 ft	0.5 - 1.8 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 5.1 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 5.7 U	< 14 UJ	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 UJ	< 8.2 U	< 6.2 U
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 U	< 8.2 U	< 6.2 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 5.7 U	31	2.2 J	-	< 13 UJ	< 5.6 UJ	< 5.5 U	4.6 J	< 8.2 U	< 6.2 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 5.7 U	< 14 U	< 5.6 UJ	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 UJ	< 8.2 U	< 6.2 U
Chlorobenzene	108-90-7	ug/kg	28000	30	< 5.7 U	7.2 J	< 5.6 UJ	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 UJ	< 8.2 U	< 6.2 U
CHLOROETHANE	75-00-3	ug/kg	540000		8.0	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 U	< 8.2 U	< 6.2 U
Chloroform	67-66-3	ug/kg	320	87	< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 U	< 8.2 U	< 6.2 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 U	< 8.2 U	< 6.2 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 5.7 U	4200	280 J	-	8.6 J	5.2 J-	< 5.5 U	< 14 UJ	< 8.2 U	< 6.2 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 U	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
Cyclohexane	110-82-7	ug/kg	650000		< 5.7 U	< 14 U	< 5.6 UJ	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 5.7 U	22	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 U	< 8.2 U	< 6.2 U
Ethylbenzene	100-41-4	ug/kg	5800	290	< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 5.7 U	< 14 UJ	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 UJ	< 8.2 U	< 6.2 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 5.7 U	< 14 U	< 5.6 UJ	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 UJ	< 8.2 U	< 6.2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	8.4 J	160 J+	< 11 UJ	-	33 J	< 11 UJ	25 J+	200 J	27	< 12 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 11 U	< 29 U	< 11 U	-	< 26 UJ	< 11 U	< 11 UJ	< 28 U	< 16 U	< 12 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 5.7 U	25	< 5.6 UJ	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	5.1 J	< 8.2 U	< 6.2 U
Methylene Chloride	75-09-2	ug/kg	35000	18	< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 U	< 8.2 U	< 6.2 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
Styrene	100-42-5	ug/kg	600000	126	< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 U	< 8.2 U	2.4 J
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 5.7 U	560	86	-	2.9 J	25 J-	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
Toluene	108-88-3	ug/kg	490000	10	< 5.7 U	3.8 J	< 5.6 U	-	< 13 UJ	< 5.6 UJ	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 5.7 U	34	2.9 J-	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 UJ	< 8.2 U	< 6.2 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 5.7 U	< 14 U	< 5.6 U	-	< 13 UJ	< 5.6 U	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 5.7 U	230 J	13 J	-	2.8 J	3.5 J	< 5.5 UJ	< 14 U	< 8.2 U	< 6.2 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 5.7 U	< 14 U	< 5.6 UJ	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 UJ	< 8.2 U	< 6.2 U
Vinyl Chloride	75-01-4	ug/kg	59	482	< 5.7 U	940 J	19 J-	-	< 13 UJ	< 5.6 UJ	< 5.5 U	< 14 UJ	< 8.2 U	< 6.2 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	< 74 U	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	110 J	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 200 U	< 460 UJ	< 220 UJ	< 190 UJ	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 400 UJ	< 890 UJ	< 430 UJ	< 370 U	< 990 UJ	< 420 U	< 480 U	< 860 U	< 570 UJ	< 540 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 200 U	< 460 U	< 220 UJ	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	180 J	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 400 U	< 890 UJ	< 430 UJ	< 370 UJ	< 990 UJ	< 420 U	< 480 U	< 860 U	< 570 U	< 540 U
2-NITROANILINE	88-74-4	ug/kg	63000		< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 400 U	< 890 U	< 430 U	< 370 U	< 990 UJ	< 420 U	< 480 U	< 860 U	< 570 U	< 540 U

Table 11
Sediment Analytical Results
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				Location	23A-0004-B2C1	23A-0005-PLC1	23A-0005-PLC1	23A-0005-PLC1	23A-0006-PLC2	23A-0006-PLC2	23A-0007-PLC1	23A-0007-PLC1	23A-0007-PLC1	23A-0008-PLC1
				Sample Name	23A-0004-B2C1-BS	23A-0005-PLC1-AS	23A-0005-PLC1-BS	23A-0005-PLC1-CS	23A-0006-PLC2-AS	23A-0006-PLC2-BS	23A-0007-PLC1-AS	23A-0007-PLC1-BS	23A-0007-PLC1-CS	23A-0008-PLC1-AS
				Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 1.4 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2 ft	0 - 0.5 ft	0.5 - 1.8 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 5.1 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 400 U	< 890 U	< 430 U	< 370 U	< 990 UJ	< 420 U	< 480 U	< 860 U	< 570 U	< 540 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 400 UJ	< 890 U	< 430 U	< 370 U	< 990 UJ	< 420 U	< 480 UJ	< 860 U	< 570 U	< 540 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 200 UJ	< 460 U	< 220 U	< 190 UJ	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 400 U	< 890 UJ	< 430 UJ	< 370 U	< 990 UJ	< 420 UJ	< 480 UJ	< 860 U	< 570 U	< 540 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 400 U	< 890 UJ	< 430 UJ	< 370 UJ	< 990 UJ	< 420 U	< 480 U	< 860 U	< 570 U	< 540 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 400 U	< 890 U	< 430 U	< 370 U	< 990 UJ	< 420 U	< 480 U	< 860 U	< 570 U	< 540 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 400 U	< 890 U	< 430 U	< 370 U	< 990 UJ	< 420 U	< 480 U	< 860 U	< 570 U	< 540 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	2700 J	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	< 200 U	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		870	260 JEB	130 JEB	< 370 U	< 990 UJ	370 J	120 JEB	< 860 U	150 JEB	< 540 U
ANTHRACENE	120-12-7	ug/kg	1800000	57	12000	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 400 U	< 890 U	< 430 U	< 370 U	< 990 UJ	< 420 U	< 480 U	< 860 U	< 570 U	< 540 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	170 J	< 890 U	< 430 U	< 370 U	< 990 UJ	70 J	< 480 U	< 860 U	< 570 U	< 540 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	15000	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	650 J-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	10000	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	< 200 UJ	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	4600	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	75 J	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 400 U	< 890 U	< 430 U	< 370 U	< 990 UJ	< 420 U	< 480 U	< 860 U	< 570 U	< 540 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 400 U	< 890 U	< 430 U	< 370 U	< 990 UJ	< 420 U	< 480 U	< 860 U	< 570 U	< 540 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	350	300 J	180 J	93 J	210 J	210 J	160 J	540	130 J	< 280 U
Caprolactam	105-60-2	ug/kg	3100000		< 400 U	< 890 U	< 430 U	< 370 U	< 990 UJ	< 420 U	< 480 U	< 860 U	< 570 U	< 540 U
CARBAZOLE	86-74-8	ug/kg	240000	69	980	< 890 U	< 430 U	< 370 U	< 990 UJ	< 420 U	< 480 U	< 860 U	< 570 U	< 540 U
CHRYSENE	218-01-9	ug/kg	110000	166	9900	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	1200 J-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	2100	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 400 U	< 890 U	< 430 U	< 370 U	< 990 UJ	< 420 U	< 480 U	< 860 U	< 570 U	< 540 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	35000	-	-	-	-	560	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	7600	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 400 U	< 890 U	< 430 U	< 370 U	< 990 UJ	< 420 UJ	< 480 U	< 860 U	< 570 U	< 540 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	720 J-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
Naphthalene	91-20-3	ug/kg	2000	176	160 J	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 200 UJ	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 200 U	< 460 U	< 220 U	< 190 U	< 510 UJ	< 220 U	< 250 U	< 450 U	< 290 U	< 280 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 400 U	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	42000	-	-	-	-	370	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	175	300 J	< 890 U	< 430 U	< 370 U	< 990 UJ	82 J	< 480 U	< 860 U	< 570 U	< 540 U
PYRENE	129-00-0	ug/kg	180000	195	5100 J	-	-	-	-	520	-	-	-	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0004-B2C1	23A-0005-PLC1	23A-0005-PLC1	23A-0005-PLC1	23A-0006-PLC2	23A-0006-PLC2	23A-0007-PLC1	23A-0007-PLC1	23A-0007-PLC1	23A-0008-PLC1
					Sample Name	23A-0004-B2C1-BS	23A-0005-PLC1-AS	23A-0005-PLC1-BS	23A-0005-PLC1-CS	23A-0006-PLC2-AS	23A-0006-PLC2-BS	23A-0007-PLC1-AS	23A-0007-PLC1-BS	23A-0007-PLC1-CS	23A-0008-PLC1-AS
					Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.5 - 1.4 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2 ft	0 - 0.5 ft	0.5 - 1.8 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 5.1 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 7.9 U	< 18 U	< 8.7 UJ	-	< 20 UJ	< 8.5 UJ	< 9.6 U	< 17 U	< 11 R	< 11 U
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	4.1 JEB	1.3 JEB	< 3.7 U	2.2 JEB	5.8 JEB	1.4 JEB	9.2 EB	3.6 JEB	2.4 JEB
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	5.0 JEB	1.8 JEB	0.78 JEB	< 9.9 UJ	6.9 JEB	2.3 JEB	3.8 JEB	4.2 JEB	4.2 JEB
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	13	3.6 J	2.2 J	5.7 J	23	2.5 J	12	6.1	6.2
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	9.6	6.9	5.2	2.7 J	17	4.8	11	5.1 J	9.1
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	12 J-	6.3	6.6	3.3 J	60	9.2	10	3.4 J	12
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	140 JEB	59 JEB	54	36 JEB	280 EB	54	100 JEB	39 EB	62 EB
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	28	14	8.9	4.0 J	200	5.0	87 J+	4.5 J	56
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	150 JEB	140 JEB	76	43 JEB	290 EB	63 JEB	130 JEB	54 EB	73 EB
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	4.4 J-	2.5 J-	1.9 J	< 9.9 UJ	140	< 4.8 UJ	62 J+	1.5 J	29
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	74 JEB	36 JEB	26	16 JEB	120 EB	28 JEB	42 JEB	22 EB	24 EB
CHRYSENE	218-01-9	ug/kg	110000	166	-	120 EB	65 JEB	54	33 JEB	260 EB	49	100 JEB	45 EB	61 EB
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	24 JEB	11 JEB	9.6	5.6 JEB	35 EB	8.0 JEB	17 JEB	7.0 EB	8.1 EB
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	260 EB	210 EB	100	88 JEB	-	80	180 EB	74 EB	110 EB
FLUORENE	86-73-7	ug/kg	240000	77	-	19 EB	5.6 EB	2.7 J	5.2 JEB	26 EB	3.9 JEB	16 EB	7.6 EB	9.6 EB
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	53 J-	28 J-	20	11 J	130	6.4 J-	54 J+	17	25
Naphthalene	91-20-3	ug/kg	2000	176	-	19 EB	7.7 EB	2.6 JEB	3.7 JEB	30 JEB	13 EB	5.9 JEB	11 EB	6.4 EB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	< 18 U	< 8.8 U	< 7.5 U	< 20 UJ	< 8.5 U	< 9.7 U	< 18 U	< 12 U	< 11 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	170	110	39	53 J	-	43	58	44	46
PYRENE	129-00-0	ug/kg	180000	195	-	180	66 J-	74 J	50 J	-	24	160	52	100
Total Organic Carbon															
TOTAL ORGANIC CARBON	TOC	mg/kg			13000	24000	3300	-	120000 J	15000	30000	75000	67000	45000
AVS/SEM															
Acid Volatile Sulfide	AVS	umol/g			-	13 J	-	-	20 J	-	5.3	-	-	3.2 J
Cadmium	7440-43-9	umol/g			-	0.016	-	-	0.0097 J	-	0.0054	-	-	0.014
Copper	7440-50-8	umol/g			-	0.30 J	-	-	0.59 J	-	0.38	-	-	0.93
Lead	7439-92-1	umol/g			-	0.95	-	-	0.51 J	-	0.22	-	-	0.94
Nickel	7440-02-0	umol/g			-	0.10	-	-	0.28 J	-	0.34	-	-	0.12
Silver	7440-22-4	umol/g			-	0.00037 J	-	-	0.0012 J	-	0.00066	-	-	0.00057
Zinc	7440-66-6	umol/g			-	5.2 J	-	-	3.1 J	-	1.6	-	-	3.3
Mercury	7439-97-6	umol/g			-	< R	-	-	< R	-	< 0.000043 U	-	-	< 0.000050 U

Table 11
Sediment Analytical Results
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Lower Neponset River
Boston, Massachusetts

				Location	23A-0008-PLC1	23A-0008-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0011-B1C1	23A-0011-B1C1
				Sample Name	23A-0008-PLC1-BS	23A-0008-PLC1-CS	23A-0009-PLC1-AS	23A-0009-PLC1-BS	23A-0009-PLC1-CS	23A-0010-PLC1-AS	23A-0010-PLC1-BS	23A-0010-PLC1-CS	23A-0011-B1C1-AS	23A-0011-B1C1-BS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 3 ft	3 - 6.2 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 2.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 1.9 U	< 2.1 U	< 6.4 UJ	< 3.0 U	< 2.0 U	< 6.8 UJ	< 4.1 U	< 1.9 U	< 7.9 UJ	< 3.8 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 1.9 U	< 2.1 U	< 6.4 UJ	< 3.0 U	< 2.0 U	< 6.8 UJ	< 4.1 U	< 1.9 U	< 7.9 UJ	< 3.8 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 1.9 U	< 2.1 U	< 6.4 UJ	< 3.0 U	< 2.0 U	< 6.8 UJ	< 4.1 U	< 1.9 U	< 7.9 UJ	< 3.8 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 1.9 U	< 2.1 U	< 6.4 UJ	< 3.0 U	< 2.0 U	< 6.8 UJ	< 4.1 U	< 1.9 U	< 7.9 UJ	< 3.8 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 3.8 U	< 4.1 U	< 12 UJ	< 5.8 U	< 4.0 U	< 13 UJ	< 8.0 U	< 3.6 U	< 15 UJ	< 7.4 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		< 1.9 U	< 2.1 U	< 6.4 UJ	1.6 J	< 2.0 U	< 6.8 UJ	< 4.1 U	< 1.9 U	< 7.9 UJ	0.69 J
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		< 1.9 U	< 2.1 U	0.70 J	5.4 J	0.80 J	< 6.8 UJ	4.5 J	0.96 J	< 7.9 UJ	5.6 J
DIELDRIN	60-57-1	ug/kg	34	1.9	< 3.8 U	< 4.1 U	< 12 UJ	< 5.8 U	< 4.0 U	< 13 UJ	< 8.0 U	< 3.6 U	< 15 UJ	< 7.4 U
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 3.8 U	< 4.1 U	< 12 UJ	1.1 J	< 4.0 U	< 13 UJ	0.64 J	< 3.6 U	< 15 UJ	< 7.4 U
ENDRIN	72-20-8	ug/kg	1900	2.22	< 3.8 U	< 4.1 U	< 12 UJ	2.8 J+	0.39 J	< 13 UJ	< 8.0 U	0.34 J	< 15 UJ	< 7.4 U
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 3.8 U	< 4.1 U	< 12 UJ	< 5.8 U	< 4.0 U	< 13 UJ	< 8.0 U	< 3.6 U	< 15 UJ	< 7.4 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 3.8 U	< 4.1 U	< 12 UJ	< 5.8 U	< 4.0 U	< 13 UJ	< 8.0 U	< 3.6 U	< 15 UJ	< 7.4 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	< 1.9 U	< 2.1 U	2.6 J	30 J	2.4 J	1.1 J	18 J+	4.2 J	< 7.9 UJ	13 J
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 1.9 U	< 2.1 U	< 6.4 UJ	< 3.0 U	< 2.0 U	< 6.8 UJ	< 4.1 U	< 1.9 U	< 7.9 UJ	< 3.8 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	< 1.9 U	< 2.1 U	< 6.4 UJ	6.5 J+	< 2.0 U	< 6.8 UJ	1.7 J	< 1.9 U	< 7.9 UJ	1.7 J+
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 19 U	< 21 U	< 64 UJ	< 30 U	< 20 U	< 68 UJ	< 41 U	< 19 U	< 79 UJ	< 38 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	< 3.8 U	< 4.1 U	< 12 UJ	0.66 J	< 4.0 U	< 13 UJ	< 8.0 U	0.28 J	< 15 UJ	< 7.4 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 3.8 U	< 4.1 U	< 12 UJ	1.3 J	< 4.0 U	< 13 UJ	< 8.0 U	< 3.6 U	< 15 UJ	< 7.4 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	< 3.8 U	< 4.1 U	0.77 J	7.9 J+	1.0 J	< 13 UJ	4.2 J	< 3.6 U	< 15 UJ	5.5 J+
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		< 1.9 U	< 2.1 U	< 6.4 UJ	< 3.0 U	< 2.0 U	< 6.8 UJ	< 4.1 U	< 1.9 U	< 7.9 UJ	1.1 J
Grain Size														
%CLAY	%CLAY	%			22	30.5	47.3	26.1	32.4	4.5	40.3	13.5	34.1	12.3
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			5.1	0	0.3	0.1	0	6.4	0.8	7.6	0.9	0.8
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			16.1	1.1	22	21.2	6.9	52.6	23.9	11.1	19.3	13.8
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			9.3	0.6	4.4	2.3	4.2	9.5	6.6	12.8	3.9	2
Gravel	GRAVEL	%			16	0	0.6	1.1	0	7.8	1.3	48.7	0	0
Hydrometer, Reading 1, Percent Passing	HYD01	%			30	39.1	66.9	53	39.3	68.5	72.4	16.6	34.1	33.5
Hydrometer, Reading 2, Percent Passing	HYD02	%			28.4	39.1	62	45.7	39.3	62.1	64.7	16.6	34.1	28.2
Hydrometer, Reading 3, Percent Passing	HYD03	%			26.8	37.4	57.1	35.9	37.6	62.1	56.9	15.1	34.1	22.9
Hydrometer, Reading 4, Percent Passing	HYD04	%			25.2	35.7	52.2	31	35.8	55.7	49.1	15.1	34.1	22.9
Hydrometer, Reading 5, Percent Passing	HYD05	%			22	30.5	47.3	26.1	32.4	49.3	45.3	13.5	34.1	12.3
Hydrometer, Reading 6, Percent Passing	HYD06	%			17.2	21.9	42.4	21.2	23.7	42.8	37.5	12	34.1	7
Hydrometer, Reading 7, Percent Passing	HYD07	%			13.9	15	37.5	16.3	15	42.8	33.6	10.4	19.5	7
Sand	308075-07-2	%			30.5	1.7	26.7	23.6	11.1	68.5	31.3	31.5	24.1	16.6
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			78.9	100	99.1	98.8	100	85.8	97.9	43.7	99.1	99.2
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			69.6	99.4	94.7	96.5	95.8	76.3	91.3	30.9	95.2	97.2
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			61.5	98.9	89.9	89.9	92.5	51.9	81.8	23.8	91.7	94.3
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			75.5	99.7	96.5	98.2	98.6	83.6	96.8	38.6	97.4	98.1
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			65	99.2	92.2	93.5	94	58.9	85.8	26.1	93.6	95.9
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			59.2	98.7	87.2	87	91.6	45.9	78.8	22.5	89	92.1
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			53.5	98.3	72.7	75.3	88.9	23.7	67.4	19.8	75.9	83.4
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			84	100	99.4	98.9	100	92.2	98.7	51.3	100	100
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			98.6	100	99.7	99.8	100	94.2	100	76	100	100
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	100	100	100	100	100	100	100	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	100	100	100	100	100	100	100	100
SILT	445	%			31.5	67.8	25.4	49.2	56.5	19.2	27.1	6.3	41.8	71.1

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Lower Neponset River
Boston, Massachusetts

				Location	23A-0008-PLC1	23A-0008-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0011-B1C1	23A-0011-B1C1
				Sample Name	23A-0008-PLC1-BS	23A-0008-PLC1-CS	23A-0009-PLC1-AS	23A-0009-PLC1-BS	23A-0009-PLC1-CS	23A-0010-PLC1-AS	23A-0010-PLC1-BS	23A-0010-PLC1-CS	23A-0011-B1C1-AS	23A-0011-B1C1-BS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 3 ft	3 - 6.2 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 2.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	6.17	7.66	2390	1710	28.4	1640 J	5360 J	19.5 J	1910 J	-
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	< 0.435 U	< 0.524 U	54.1	46.9	< 0.514 U	37.5 J	88.6	< 0.323 U	42.4 J	-
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	< 0.334 U	< 0.531 U	25.9	12.7	0.668 JN	20.8 J	32.9	< 0.422 U	23.3 J	-
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	< 0.285 U	< 0.248 U	106	105	0.803 JN	69.0 J	169 J	< 4.62 UJ	82.4 J	-
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	< 0.333 U	< 0.488 U	104	74.1	1.55 JN	86.5 J	243 J	0.963 J	97.7 J	-
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	< 0.265 U	< 0.244 U	60.5	48.1	< 0.286 U	44.4 J	83.4	< 0.268 U	49.9 J	-
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	< 0.355 U	< 0.49 U	62.3	47.9	0.707 JN	52.0 J	107	0.58 JN	60.5 J	-
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.35 U	< 0.301 U	< 2.22 U	< 2.07 U	< 0.351 U	< 1.76 UJ	< 1.6 U	< 0.335 U	< 1.25 UJ	-
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	< 0.299 UJ	< 0.208 UJ	10.6 J	7.04 JN	< 0.229 UJ	10.8 J	16.3 J	< 0.451 UJ	10 J	-
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	< 0.177 U	< 0.196 U	13.7	13.3	< 0.135 U	9.95 J	20.8	< 0.258 U	9.42 J	-
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	1.35 JN	1.47 JN	1560 J+	1030 J+	13.3 J+	1120 J	2090 J+	7.66 J+	1280 J	-
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	< 0.289 U	< 0.259 U	49.1	41.7	0.655 J	40.5 J	85.0	< 0.265 U	41.7 J	-
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	< 0.183 U	< 0.181 U	57.2 J	124 J	0.914 JN	36.5 J	163 J	< 0.253 U	33.2 J	-
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 0.99 UJ	< 0.986 UJ	3.03 J	7.94 J	< 0.982 UJ	2.25 JN	12.5	< 0.524 UJ	2.05 J	-
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	< 0.214 U	< 0.259 U	19.0	36.9	0.369 JN	13.2 J	42.1 J	< 0.403 UJ	14.5 J	-
OCDD	3268-87-9	pg/g	16000	5000	119 J+	87.7	17000 J	9950 J	201 J+	11800 J	43100 J	239 J	12500 J	-
OCDF	39001-02-0	pg/g	16000	5000	< 0.263 U	1.18 JN	1780	892	10.1	1220 J	2790	8.80	1310 J	-
Total HpCDD (a)	RA_Total_HpCDD	pg/g			6.17	7.66	2390	1710	28.4	1640	5360	19.5	1910	-
Total HpCDF (a)	RA_Total_HpCDF	pg/g			1.35	1.47	1610	1080	13.3	1160	2180	7.66	1320	-
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		< 0.355 U	< 0.531 U	192	135	2.93	159	383	1.54	182	-
Total HxCDF (a)	RA_Total_HxCDF	pg/g			< 0.35 U	< 0.301 U	216	195	1.46	154	337	< 4.62 U	174	-
Total PeCDD (a)	RA_Total_PeCDD	pg/g			< 0.299 U	< 0.208 U	10.6	7.04	< 0.229 U	10.8	16.3	< 0.451 U	10	-
Total PeCDF (a)	RA_Total_PeCDF	pg/g			< 0.183 U	< 0.196 U	70.9	137	0.914	46.5	184	< 0.258 U	42.6	-
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.99 U	< 0.986 U	3.03	7.94	< 0.982 U	2.25	12.5	< 0.524 U	2.05	-
Total TCDF (a)	RA_Total_TCDF	pg/g			< 0.214 U	< 0.259 U	19.0	36.9	0.369	13.2	42.1	< 0.403 U	14.5	-
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	2.05 JEB	2.04 JEB	8660 JEB	41900 JEB	64.7 JEB	4300 JEB	62600 JEB	272 JEB	858 JEB	-
PCB-002	2051-61-8	ng/g	230	14.0	< 0.0268 UJ	< 0.0267 UJ	32.1 JEB	130 EB	0.824 JEB	16.5 JEB	355 JEB	1.04 JEB	4.67 JEB	-
PCB-003	2051-62-9	ng/g	230	14.0	0.445 J	0.740 J	728 J	2650 J	9.46 J	461 J	7910 J	34.4 J	118 J	-
PCB-004/010	PCB-4/10	ng/g	230	14.0	6.62 JEB	8.44 JEB	14600 JEB	83200 JEB	216 JEB	7080 JEB	143000 JEB	450 JEB	1370 JEB	-
PCB-005/008	PCB-5/8	ng/g	230	14.0	10.2 JEB	14.7 JEB	3640 JEB	17000 JEB	142 JEB	1570 JEB	26000 JEB	107 JEB	521 JEB	-
PCB-006	25569-80-6	ng/g	230	14.0	5.60 JEB	6.89 JEB	555 JEB	2920 JEB	31.8 JEB	187 JEB	3150 JEB	12.1 EB	102 JEB	-
PCB-007/009	PCB-7/9	ng/g	230	14.0	1.49 J	1.69 J	139 J	640 J	19.4	55.8 J	908 J	3.97 J	21.3 J	-
PCB-011	2050-67-1	ng/g	230	14.0	< 0.0248 U	< 0.0247 U	58.9 JEB	220 JEB	2.51 JEB	30.6 JEB	549 JEB	1.60 JEB	10.7 JEB	-
PCB-012/013	PCB-12/13	ng/g	230	14.0	< 0.0447 U	0.850 J	111 J	388 J	8.98 J	67.4 J	1080 J	2.88 J	28.1 J	-
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0249 U	< 0.0248 U	< 0.0322 U	< 0.212 U	< 0.0248 U	< 0.0578 UJ	11.7 JEB	< 0.0233 U	< 0.0458 UJ	-
PCB-015	2050-68-2	ng/g	230	14.0	8.61 J	12.1 J	653 J	2500 J	109 J	477 J	6600 J	23.3 J	185 J	-
PCB-016/032	PCB-16/32	ng/g	230	14.0	8.42 JEB	11.0 EB	1840 JEB	9740 JEB	84.3 JEB	943 JEB	19000 JEB	51.2 JEB	317 JEB	-
PCB-017	37680-66-3	ng/g	230	14.0	7.75 JEB	10.9 EB	1020 JEB	6660 JEB	105 JEB	501 JEB	10500 JEB	23.7 JEB	199 JEB	-
PCB-018	37680-65-2	ng/g	230	14.0	9.69 JEB	11.2 EB	419 JEB	2350 JEB	22.9 JEB	200 JEB	3400 JEB	10.5 EB	113 JEB	-
PCB-019	38444-73-4	ng/g	230	14.0	1.70 J	2.63 J	2230 J	13400 J	39.9 J	1040 J	22500 J	63.1 J	202 J	-
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	< 0.0693 U	0.597 JEB	49.8 JEB	198 JEB	2.10 JEB	51.9 JEB	192 EB	< 0.0648 U	18.4 JEB	-
PCB-022	38444-85-8	ng/g	230	14.0	1.04 JEB	1.27 JEB	69.5 JEB	158 EB	3.63 JEB	50.9 JEB	846 JEB	2.28 JEB	29.6 JEB	-
PCB-023/034	PCB-23/34	ng/g	230	14.0	< 0.0450 U	< 0.0448 U	50.9 J	296 J	1.96 J	18.7 J	394 J	1.41 J	3.58 J	-
PCB-024/027	PCB-24/27	ng/g	230	14.0	1.62 J	2.40 J	1010 J	6460 J	23.9 J	394 J	7480 J	26.0 J	101 J	-
PCB-025	55712-37-3	ng/g	230	14.0	5.23 J	6.24 J	258 J	1060 J	42.4 J	167 J	3350 J	7.31 J	66.7 J	-
PCB-026	38444-81-4	ng/g	230	14.0	8.29 JEB	10.6 EB	688 JEB	3640 JEB	53.3 JEB	308 JEB	5930 JEB	15.4 EB	124 JEB	-
PCB-028	7012-37-5	ng/g	230	14.0	3.36 JEB	2.54 JEB	209 JEB	612 JEB	12.6 EB	167 JEB	949 JEB	3.95 JEB	115 JEB	-
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0260 U	< 0.0259 U	< 0.0336 U	7.15 J	< 0.0259 U	< 0.0603 UJ	< 0.257 U	< 0.0244 U	< 0.0478 UJ	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0008-PLC1	23A-0008-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0011-B1C1	23A-0011-B1C1
				Sample Name	23A-0008-PLC1-BS	23A-0008-PLC1-CS	23A-0009-PLC1-AS	23A-0009-PLC1-BS	23A-0009-PLC1-CS	23A-0010-PLC1-AS	23A-0010-PLC1-BS	23A-0010-PLC1-CS	23A-0011-B1C1-AS	23A-0011-B1C1-BS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 3 ft	3 - 6.2 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 2.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0238 U	< 0.0237 U	1.28 J	7.06 J	< 0.0237 U	< 0.0553 UJ	15.4 J	< 0.0223 U	< 0.0438 UJ	-
PCB-031	16606-02-3	ng/g	230	14.0	10.9 EB	15.5 EB	1290 JEB	5890 JEB	103 JEB	622 JEB	11300 JEB	32.6 JEB	216 JEB	-
PCB-035	37680-69-6	ng/g	230	14.0	< 0.0283 U	< 0.0282 U	5.32 J+	9.79 J+	< 0.0281 U	3.17 J	23.1 J+	< 0.0265 U	< 0.0520 UJ	-
PCB-036	38444-87-0	ng/g	230	14.0	< 0.0241 U	< 0.0240 U	< 0.0311 U	27.9 J	< 0.0240 U	< 0.0560 UJ	30.8 J	< 0.0226 U	< 0.0443 UJ	-
PCB-037	38444-90-5	ng/g	230	14.0	< 0.0265 U	< 0.0264 U	33.9 J	101	2.94 J	31.9 J	373 J	< 0.0248 U	15.0 J	-
PCB-038	53555-66-1	ng/g	230	14.0	< 0.0200 U	< 0.0199 U	21.6 J	122	1.31 J	< 0.0463 UJ	174	< 0.0187 U	4.17 J	-
PCB-039	38444-88-1	ng/g	230	14.0	< 0.0123 U	< 0.0122 U	11.0 J	54.4 J	< 0.0122 U	6.11 J	125	< 0.0115 U	< 0.0225 UJ	-
PCB-040	38444-93-8	ng/g	230	14.0	0.523 J+EB	0.737 JEB	14.5 EB	36.6 JEB	2.20 JEB	11.5 JEB	20.7 JEB	< 0.0192 U	6.86 JEB	-
PCB-041/064	PCB-41/64	ng/g	230	14.0	2.38 J	2.88 J	109 J	427 J	17.0	54.9 J	356 J	1.35 J	32.5 J	-
PCB-042	36559-22-5	ng/g	230	14.0	1.53 J+	2.06 J	106 J	373 J	7.86 J	74.4 J	782 J	2.05 J	32.2 J	-
PCB-043/049	PCB-43/49	ng/g	230	14.0	6.38 J+EB	9.10 JEB	878 JEB	4680 JEB	44.2 JEB	447 JEB	7150 JEB	17.8 EB	167 JEB	-
PCB-044	41464-39-5	ng/g	230	14.0	4.12 J+EB	5.36 JEB	131 JEB	382 JEB	16.1 EB	94.9 JEB	419 JEB	1.36 JEB	52.5 JEB	-
PCB-045	70362-45-7	ng/g	230	14.0	0.639 J+	0.761 J	40.8 J	252 J	5.34 J	13.1 J	45.9 J	< 0.0208 U	9.12 J	-
PCB-046	41464-47-5	ng/g	230	14.0	< 0.0260 U	< 0.0259 U	26.8 J	98.9	0.976 J	19.2 J	204 J	< 0.0244 U	8.15 J	-
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	3.18 J+EB	4.63 JEB	820 JEB	4840 JEB	36.1 JEB	389 JEB	7060 JEB	15.5 EB	136 JEB	-
PCB-050	62796-65-0	ng/g	230	14.0	< 0.0318 U	< 0.0316 U	17.3	106	0.610 J	7.20 J	160	< 0.0297 U	2.18 J	-
PCB-051	68194-04-7	ng/g	230	14.0	0.794 J+	1.18 J	250 J	1650 J	8.62 J	114 J	2190 J	5.39 J	36.3 J	-
PCB-052/073	PCB-52/73	ng/g	230	14.0	6.78 J+EB	< 0.0619 U	689 JEB	3640 JEB	38.0 JEB	366 JEB	5880 JEB	15.6 EB	142 JEB	-
PCB-053	41464-41-9	ng/g	230	14.0	1.89 J+	2.79 J	483 J	3770 J	14.2	184 J	2960 J	8.54 J	64.2 J	-
PCB-054	15968-05-5	ng/g	230	14.0	< 0.0211 UJ	< 0.0210 UJ	45.3 J	314 J	0.905 J	20.6 J	395 J	1.15 J	4.95 J	-
PCB-055	74338-24-2	ng/g	230	14.0	< 0.0274 U	< 0.0273 U	< 0.0353 U	13.6 J	< 0.0272 U	< 0.0635 UJ	9.66 J	< 0.0256 U	< 0.0503 UJ	-
PCB-056/060	PCB-56/60	ng/g	230	14.0	< 0.0535 U	< 0.0533 U	19.5 J+EB	16.0 JEB	< 0.0532 U	24.1 JEB	18.6 JEB	< 0.0501 U	19.0 JEB	-
PCB-057	70424-67-8	ng/g	230	14.0	< 0.0212 U	< 0.0211 U	16.6 J+	148	< 0.0210 U	6.37 J	96.5 J	< 0.0198 U	2.89 J	-
PCB-058	41464-49-7	ng/g	230	14.0	< 0.0192 U	< 0.0191 U	< 0.0248 U	< 0.163 U	< 0.0191 U	< 0.0445 UJ	< 0.189 U	< 0.0180 U	< 0.0352 UJ	-
PCB-059	74472-33-6	ng/g	230	14.0	0.335 J	0.370 J	13.7 J+	121	2.66 J	5.09 J	18.4 J	< 0.0352 U	3.73 J	-
PCB-061/074	PCB-61/74	ng/g	230	14.0	< 0.0494 U	0.375 JEB	44.3 JEB	85.5 EB	4.20 JEB	37.9 JEB	195 EB	0.702 JEB	24.5 JEB	-
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0262 U	< 0.0261 U	< 0.0338 U	< 0.223 U	< 0.0260 U	< 0.0608 UJ	< 0.259 U	< 0.0245 U	< 0.0481 UJ	-
PCB-063	74472-34-7	ng/g	230	14.0	< 0.0197 U	0.252 J	60.6 J	450 J	1.61 J	27.7 J	445 J	1.39 J	10.6 J	-
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0378 U	< 0.0376 U	1.86 J+	12.8 J	< 0.0375 U	< 0.0876 UJ	12.4 J	< 0.0354 U	< 0.0694 UJ	-
PCB-066/080	PCB-66/80	ng/g	230	14.0	< 0.0479 U	0.284 JEB	59.6 JEB	109 EB	1.64 JEB	61.3 JEB	189 EB	0.724 JEB	40.6 JEB	-
PCB-067	73575-53-8	ng/g	230	14.0	< 0.0232 U	< 0.0231 U	4.43 J+	11.6 J	< 0.0230 U	2.78 J	8.48 J	< 0.0217 U	2.27 J	-
PCB-068	73575-52-7	ng/g	230	14.0	< 0.0274 U	< 0.0273 U	22.2 J+	171 J	< 0.0272 U	11.4 J	212 J	< 0.0256 U	5.35 J	-
PCB-069	60233-24-1	ng/g	230	14.0	< 0.0285 U	< 0.0284 U	7.01 J+	43.2 J	< 0.0283 U	3.71 J	73.9 J	< 0.0267 U	< 0.0523 UJ	-
PCB-070	32598-11-1	ng/g	230	14.0	< 0.0257 U	< 0.0256 U	46.2 JEB	39.2 JEB	0.807 JEB	49.8 JEB	46.9 JEB	< 0.0241 U	38.9 JEB	-
PCB-071	41464-46-4	ng/g	230	14.0	2.54 JEB	3.29 JEB	175 JEB	960 JEB	14.9 EB	91.3 JEB	1400 JEB	4.12 JEB	43.0 JEB	-
PCB-072	41464-42-0	ng/g	230	14.0	< 0.0309 U	< 0.0307 U	32.8 J	216 J	1.41 J	13.7 J	254 J	0.731 J	5.32 J	-
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0379 U	< 0.0377 U	< 0.0489 U	< 0.322 U	< 0.0376 U	< 0.0878 UJ	< 0.374 U	< 0.0355 U	< 0.0696 UJ	-
PCB-077	32598-13-3	ng/g	38.0	14.0	< 0.0224 U	< 0.0223 U	10.9 J+	27.5 J+	1.16 J+	11.1 J	57.0 J+	< 0.0209 U	8.81 J	-
PCB-078	70362-49-1	ng/g	230	14.0	< 0.0194 U	< 0.0193 U	< 0.0250 U	7.11 J	< 0.0193 U	< 0.0449 UJ	< 0.191 U	< 0.0181 U	< 0.0356 UJ	-
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0243 U	< 0.0242 U	< 0.0314 U	< 0.207 U	< 0.0242 U	< 0.0564 UJ	< 0.240 U	< 0.0228 U	< 0.0447 UJ	-
PCB-081	70362-50-4	ng/g	12.0	14.0	< 0.0380 U	< 0.0378 U	< 0.0490 U	< 0.323 U	< 0.0377 U	< 0.0881 UJ	< 0.375 U	< 0.0356 U	< 0.0698 UJ	-
PCB-082	52663-62-4	ng/g	230	14.0	< 0.0140 U	< 0.0139 U	9.46 J	16.7 J	0.796 J	6.57 J	24.1 J	< 0.0131 U	4.69 J	-
PCB-083/109	PCB-83/109	ng/g	230	14.0	< 0.0600 U	< 0.0597 U	16.2	96.7	1.12 J	7.29 J	49.0 J	< 0.0561 U	4.65 J	-
PCB-084	52663-60-2	ng/g	230	14.0	0.632 J	0.765 J	41.5 J	166	4.38 J	23.0 J	98.8	< 0.0226 U	15.0 J	-
PCB-085/120	PCB-85/120	ng/g	230	14.0	< 0.0538 U	< 0.0536 U	23.1	48.0 J	2.03 J	15.1 J	87.5 J	< 0.0504 U	12.1 J	-
PCB-086/097	PCB-86/97	ng/g	230	14.0	< 0.0237 U	< 0.0236 U	22.6	34.3 J	< 0.0235 U	17.6 J	40.6 J	< 0.0221 U	14.5 J	-
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	< 0.0152 U	< 0.0152 U	64.0 J	< 0.130 U	2.82 J	35.7 J	< 0.150 U	< 0.0143 U	23.4 J	-
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.0551 U	< 0.0549 U	1.17 J	6.89 J	< 0.0547 U	< 0.128 UJ	< 0.544 U	< 0.0516 U	< 0.101 UJ	-
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	0.523 J	0.553 J	127 J	507 J	4.92 J	73.2 J	391 J	1.27 J	57.0 J	-
PCB-091	68194-05-8	ng/g	230	14.0	0.565 J	0.873 J	90.3 J	555 J	5.62 J	38.1 J	402 J	1.31 J	19.3 J	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0008-PLC1	23A-0008-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0011-B1C1	23A-0011-B1C1
				Sample Name	23A-0008-PLC1-BS	23A-0008-PLC1-CS	23A-0009-PLC1-AS	23A-0009-PLC1-BS	23A-0009-PLC1-CS	23A-0010-PLC1-AS	23A-0010-PLC1-BS	23A-0010-PLC1-CS	23A-0011-B1C1-AS	23A-0011-B1C1-BS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 3 ft	3 - 6.2 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 2.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-092	52663-61-3	ng/g	230	14.0	0.361 J	0.580 J	89.9 J	576 J	3.83 J	35.6 J	444 J	1.22 J	18.7 J	-
PCB-093/095	PCB-93/95	ng/g	230	14.0	1.49 J	2.04 J	138 J	661 J	13.6	61.4 J	180	0.857 J	48.3 J	-
PCB-094	73575-55-0	ng/g	230	14.0	< 0.0455 U	< 0.0453 U	17.8	149	0.570 J	5.29 J	70.5 J	< 0.0426 U	2.44 J	-
PCB-096	73575-54-9	ng/g	230	14.0	< 0.0215 U	< 0.0214 U	5.82 J	46.8 J	< 0.0213 U	2.61 J	15.1 J	< 0.0201 U	1.24 J	-
PCB-098/102	PCB-98/102	ng/g	230	14.0	0.253 J	0.307 J	26.8 J	158	2.47 J	10.6 J	118	< 0.0372 U	5.23 J	-
PCB-099	38380-01-7	ng/g	230	14.0	0.319 J	0.400 J	67.7 J	212 J	3.51 J	42.9 J	275 J	0.777 J	30.6 J	-
PCB-100	39485-83-1	ng/g	230	14.0	< 0.0242 U	< 0.0241 U	17.0	132	0.424 J	6.74 J	95.9 J	< 0.0227 U	2.80 J	-
PCB-103	60145-21-3	ng/g	230	14.0	< 0.0250 U	< 0.0249 U	13.9	103	0.512 J	5.40 J	77.3 J	< 0.0234 U	2.24 J	-
PCB-104	56558-16-8	ng/g	230	14.0	< 0.0232 U	< 0.0231 U	1.02 J	9.13 J	< 0.0230 U	0.637 J	7.99 J	< 0.0217 U	< 0.0425 UJ	-
PCB-105/127	PCB-105/127	ng/g	120	14.0	< 0.0393 U	< 0.0391 U	21.4	23.2 J	0.563 J	15.1 J	43.9 J	< 0.0368 U	14.1 J	-
PCB-106/118	PCB-106/118	ng/g	120	14.0	< 0.0469 U	< 0.0467 U	77.8 J	120	2.85 J	53.0 J	170	0.758 J	46.7 J	-
PCB-107/108	PCB-107/108	ng/g	230	14.0	< 0.0482 U	< 0.0480 U	10.6 J	39.2 J	< 0.0479 U	6.18 J	33.9 J	< 0.0451 U	5.33 J	-
PCB-110	38380-03-9	ng/g	230	14.0	3.10 JEB	3.83 JEB	244 JEB	1070 JEB	26.6 JEB	111 JEB	654 JEB	2.33 JEB	88.1 JEB	-
PCB-111/117	PCB-111/117	ng/g	230	14.0	< 0.0684 U	< 0.0681 U	< 0.0882 U	222 J	< 0.0679 U	29.7 J	272 J	0.944 J	< 0.126 UJ	-
PCB-112	74472-36-9	ng/g	230	14.0	< 0.0238 U	< 0.0237 U	3.44 J	26.1 J	< 0.0237 U	< 0.0553 UJ	14.4 J	< 0.0223 U	< 0.0438 UJ	-
PCB-113	68194-10-5	ng/g	230	14.0	< 0.0250 U	< 0.0249 U	4.45 J	27.4 J	0.344 J	< 0.0580 UJ	8.84 J	< 0.0234 U	< 0.0460 UJ	-
PCB-114	74472-37-0	ng/g	120	14.0	< 0.0208 U	< 0.0207 U	2.55 J	4.72 J	< 0.0206 U	< 0.0482 UJ	7.27 J	< 0.0194 U	< 0.0382 UJ	-
PCB-119	56558-17-9	ng/g	230	14.0	< 0.0275 U	< 0.0274 U	20.2	124	1.05 J	8.45 J	125	< 0.0257 U	4.72 J	-
PCB-122	76842-07-4	ng/g	230	14.0	< 0.0175 U	< 0.0174 U	< 0.0226 U	< 0.149 U	< 0.0174 U	< 0.0406 UJ	< 0.173 U	< 0.0164 U	< 0.0322 UJ	-
PCB-123	65510-44-3	ng/g	120	14.0	< 0.0162 U	< 0.0162 U	4.10 J+	12.5 J+	< 0.0161 U	2.32 J	15.3 J+	< 0.0152 U	1.82 J	-
PCB-124	70424-70-3	ng/g	230	14.0	< 0.0219 U	< 0.0218 U	2.53 J	5.76 J	< 0.0217 U	2.15 J	< 0.216 U	< 0.0205 U	< 0.0402 UJ	-
PCB-125	74472-39-2	ng/g	230	14.0	< 0.0239 U	< 0.0238 U	< 0.0309 U	3.78 J	< 0.0238 U	< 0.0555 UJ	5.56 J	< 0.0224 U	< 0.0440 UJ	-
PCB-126	57465-28-8	ng/g	0.0360	14.0	< 0.0340 UJ	< 0.0339 UJ	< 0.0439 UJ	15.1 J+	< 0.0338 UJ	< 0.0789 UJ	< 0.336 U	< 0.0319 U	< 0.0625 UJ	-
PCB-128	38380-07-3	ng/g	230	14.0	< 0.0240 U	< 0.0239 U	20.8	60.7 J	0.847 J	13.2 J	72.8 J	< 0.0225 U	13.5 J	-
PCB-129	55215-18-4	ng/g	230	14.0	< 0.0264 U	< 0.0263 U	3.82 J	7.20 J	< 0.0262 U	2.66 J	< 0.261 U	< 0.0247 U	2.16 J	-
PCB-130	52663-66-8	ng/g	230	14.0	< 0.0208 U	< 0.0207 U	9.92 J	47.1 J	0.485 J	4.99 J	38.3 J	< 0.0194 U	4.36 J	-
PCB-131/142	PCB-131/142	ng/g	230	14.0	< 0.0512 U	< 0.0509 U	1.47 J	< 0.435 U	< 0.0508 U	< 0.119 UJ	4.77 J	< 0.0479 U	< 0.0939 UJ	-
PCB-132/168	PCB-132/168	ng/g	230	14.0	0.309 J	0.368 J	42.4 J	151	2.39 J	22.5 J	127	0.668 J	22.9 J	-
PCB-133	35694-04-3	ng/g	230	14.0	< 0.0186 U	< 0.0185 U	5.28 J	47.0 J	< 0.0185 U	1.94 J	18.9 J	< 0.0174 U	< 0.0342 UJ	-
PCB-134	52704-70-8	ng/g	230	14.0	< 0.0493 U	< 0.0491 U	8.40 J	50.4 J	0.396 J	4.13 J	23.3 J	< 0.0461 U	3.41 J	-
PCB-135/144	PCB-135/144	ng/g	230	14.0	< 0.0518 U	0.209 J	24.6	140	1.46 J	10.7 J	68.3 J	< 0.0484 U	8.98 J	-
PCB-136	38411-22-2	ng/g	230	14.0	< 0.0431 U	0.143 J	17.1	83.3 J	1.01 J	8.55 J	38.4 J	< 0.0404 U	7.27 J	-
PCB-137	35694-06-5	ng/g	230	14.0	< 0.0241 U	< 0.0240 U	6.95 J	20.5 J	< 0.0240 U	4.22 J	29.2 J	< 0.0226 U	4.48 J	-
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	0.506 J	0.568 J	137 J	511 J	4.98 J	72.3 J	421 J	1.26 J	67.1 J	-
PCB-139/149	PCB-139/149	ng/g	230	14.0	0.506 J	0.667 J	92.7 J	410 J	5.16 J	46.9 J	277 J	1.08 J	41.5 J	-
PCB-140	59291-64-4	ng/g	230	14.0	< 0.0352 U	< 0.0351 U	1.83 J	9.80 J	< 0.0350 U	< 0.0816 UJ	5.03 J	< 0.0330 U	< 0.0647 UJ	-
PCB-141	52712-04-6	ng/g	230	14.0	< 0.0247 U	< 0.0246 U	12.4 J	26.5 J	0.333 J	8.61 J	32.9 J	< 0.0231 U	8.63 J	-
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0318 U	< 0.0316 U	< 0.0410 U	< 0.270 U	< 0.0316 U	< 0.0736 UJ	< 0.314 U	< 0.0297 U	< 0.0583 UJ	-
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0420 U	< 0.0418 U	< 0.0541 U	< 0.357 U	< 0.0417 U	< 0.0972 UJ	< 0.414 U	< 0.0393 U	< 0.0770 UJ	-
PCB-146	51908-16-8	ng/g	230	14.0	< 0.0284 U	0.168 J	19.0	111	1.01 J	9.35 J	63.7 J	< 0.0266 U	7.26 J	-
PCB-147	68194-13-8	ng/g	230	14.0	< 0.0370 U	< 0.0369 U	13.6	119	0.368 J	5.29 J	49.5 J	< 0.0346 U	3.15 J	-
PCB-148	74472-41-6	ng/g	230	14.0	< 0.0388 U	< 0.0386 U	1.20 J	11.3 J	< 0.0385 U	< 0.0899 UJ	3.84 J	< 0.0363 U	< 0.0712 UJ	-
PCB-150	68194-08-1	ng/g	230	14.0	< 0.0392 U	< 0.0390 U	1.35 J	11.7 J	< 0.0389 U	0.500 J	3.22 J	< 0.0367 U	< 0.0720 UJ	-
PCB-151	52663-63-5	ng/g	230	14.0	< 0.0284 U	0.205 J	30.8 J	205 J	1.48 J	12.8 J	90.2 J	0.484 J	9.55 J	-
PCB-152	68194-09-2	ng/g	230	14.0	< 0.0458 U	< 0.0456 U	1.45 J	12.7 J	< 0.0455 U	< 0.106 UJ	4.40 J	< 0.0429 U	< 0.0841 UJ	-
PCB-153	35065-27-1	ng/g	230	14.0	0.270 J	0.347 J	77.1 J	259 J	2.90 J	46.6 J	231 J	0.747 J	44.0 J	-
PCB-154	60145-22-4	ng/g	230	14.0	< 0.0273 U	< 0.0272 U	6.34 J	56.8 J	0.277 J	2.49 J	20.7 J	< 0.0256 U	1.11 J	-
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0236 U	< 0.0235 U	< 0.0304 U	0.611 J	< 0.0234 U	< 0.0546 UJ	< 0.232 U	< 0.0220 U	< 0.0432 UJ	-
PCB-156	38380-08-4	ng/g	120	14.0	< 0.0198 U	< 0.0197 U	9.24 J	28.8 J	< 0.0197 U	5.60 J	38.6 J	< 0.0185 U	5.38 J	-
PCB-157	69782-90-7	ng/g	120	14.0	< 0.0275 U	< 0.0274 U	4.14 J+	11.8 J+	< 0.0273 U	2.57 J	12.7 J+	< 0.0257 U	2.17 J	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0008-PLC1	23A-0008-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0011-B1C1	23A-0011-B1C1
					Sample Name	23A-0008-PLC1-BS	23A-0008-PLC1-CS	23A-0009-PLC1-AS	23A-0009-PLC1-BS	23A-0009-PLC1-CS	23A-0010-PLC1-AS	23A-0010-PLC1-BS	23A-0010-PLC1-CS	23A-0011-B1C1-AS	23A-0011-B1C1-BS
					Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.5 - 3 ft	3 - 6.2 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 2.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-158/160	PCB-158/160	ng/g	230	14.0	< 0.0604 U	< 0.0601 U	11.0 J	29.2 J	0.425 J	7.04 J	37.6 J	< 0.0565 U	6.05 J	-
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0380 U	< 0.0378 U	< 0.0490 U	6.39 J	< 0.0377 U	< 0.0881 UJ	< 0.375 U	< 0.0356 U	< 0.0698 UJ	-
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0355 U	< 0.0354 U	< 0.0458 U	< 0.302 U	< 0.0353 U	< 0.0823 UJ	< 0.351 U	< 0.0332 U	< 0.0652 UJ	-
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0280 U	< 0.0279 U	< 0.0361 U	< 0.238 U	< 0.0278 U	< 0.0649 UJ	< 0.276 U	< 0.0262 U	< 0.0514 UJ	-
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0384 U	< 0.0382 U	0.918 J	8.14 J	< 0.0381 U	< 0.0890 UJ	< 0.379 U	< 0.0359 U	< 0.0705 UJ	-
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0331 U	< 0.0329 U	< 0.0426 U	< 0.281 U	< 0.0328 U	< 0.0766 UJ	< 0.326 U	< 0.0309 U	< 0.0607 UJ	-
PCB-167	52663-72-6	ng/g	120	14.0	< 0.0254 U	< 0.0253 U	4.69 J	13.2 J	< 0.0253 U	3.29 J	15.9 J+	< 0.0238 U	2.44 J	-
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0280 U	< 0.0279 U	< 0.0361 U	< 0.238 U	< 0.0278 U	< 0.0649 UJ	< 0.276 U	< 0.0262 U	< 0.0514 UJ	-
PCB-170/190	PCB-170/190	ng/g	230	14.0	< 0.0461 U	< 0.0459 U	30.4 J	156	1.24 J	13.6 J	103	< 0.0431 U	10.9 J	-
PCB-171	52663-71-5	ng/g	230	14.0	< 0.0366 U	< 0.0365 U	8.17 J	41.4 J	0.439 J	3.70 J	30.5 J	< 0.0343 U	2.87 J	-
PCB-172/192	PCB-172/192	ng/g	230	14.0	< 0.0608 U	< 0.0605 U	4.32 J	24.8 J	0.199 J	1.93 J	16.3 J	< 0.0569 U	1.54 J	-
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0410 U	< 0.0408 U	< 0.0528 U	< 0.348 U	< 0.0407 U	< 0.0949 UJ	< 0.404 U	< 0.0383 U	< 0.0752 UJ	-
PCB-174	38411-25-5	ng/g	230	14.0	< 0.0514 U	< 0.0511 U	22.8	105	1.07 J	10.9 J	78.3 J	0.411 J	8.12 J	-
PCB-175	40186-70-7	ng/g	230	14.0	< 0.0316 U	< 0.0314 U	1.23 J	6.73 J	< 0.0314 U	< 0.0732 UJ	4.36 J	< 0.0295 U	< 0.0580 UJ	-
PCB-176	52663-65-7	ng/g	230	14.0	< 0.0295 U	< 0.0294 U	3.02 J	17.0 J	0.202 J	1.34 J	11.7 J	< 0.0276 U	0.846 J	-
PCB-177	52663-70-4	ng/g	230	14.0	< 0.0368 U	< 0.0367 U	17.3	101	0.991 J	7.39 J	60.3 J	< 0.0344 U	5.00 J	-
PCB-178	52663-67-9	ng/g	230	14.0	< 0.0462 U	< 0.0460 U	8.29 J	56.8 J	0.440 J	3.14 J	27.0 J	< 0.0432 U	1.90 J	-
PCB-179	52663-64-6	ng/g	230	14.0	< 0.0244 U	< 0.0243 U	11.3 J	72.5 J	0.555 J	4.47 J	35.7 J	< 0.0229 U	3.13 J	-
PCB-180	35065-29-3	ng/g	230	14.0	0.247 J	0.323 J	53.0 J	272 J	2.31 J	24.0 J	194	0.694 J	17.4 J	-
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0280 U	< 0.0279 U	< 0.0361 U	< 0.238 U	< 0.0278 U	< 0.0649 UJ	< 0.276 U	< 0.0262 U	< 0.0514 UJ	-
PCB-182/187	PCB-182/187	ng/g	230	14.0	0.193 J	0.257 J	36.3 J	220 J	1.80 J	15.1 J	129	0.520 J	9.82 J	-
PCB-183	52663-69-1	ng/g	230	14.0	< 0.0366 U	< 0.0365 U	13.6	69.2 J	0.646 J	6.11 J	53.7 J	0.266 J	4.42 J	-
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0265 U	< 0.0264 U	< 0.0342 U	< 0.225 U	< 0.0263 U	< 0.0615 UJ	< 0.262 U	< 0.0248 U	< 0.0487 UJ	-
PCB-185	52712-05-7	ng/g	230	14.0	< 0.0367 U	< 0.0366 U	2.47 J	10.7 J	< 0.0365 U	1.35 J	9.50 J	< 0.0344 U	0.810 J	-
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0332 U	< 0.0330 U	< 0.0427 U	< 0.282 U	< 0.0329 U	< 0.0768 UJ	< 0.327 U	< 0.0310 U	< 0.0609 UJ	-
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0304 U	< 0.0303 U	0.272 J	2.08 J	< 0.0302 U	< 0.0704 UJ	< 0.300 U	< 0.0284 U	< 0.0558 UJ	-
PCB-189	39635-31-9	ng/g	130	14.0	< 0.0309 U	< 0.0307 U	1.60 J	8.16 J	< 0.0307 U	< 0.0716 UJ	6.08 J	< 0.0289 U	< 0.0567 UJ	-
PCB-191	74472-50-7	ng/g	230	14.0	< 0.0279 U	< 0.0278 U	1.06 J	5.12 J	< 0.0277 U	< 0.0647 UJ	3.04 J	< 0.0261 U	< 0.0512 UJ	-
PCB-193	69782-91-8	ng/g	230	14.0	< 0.0352 U	< 0.0351 U	3.71 J	18.7 J	0.208 J	1.51 J	10.1 J	< 0.0330 U	1.00 J	-
PCB-194	35694-08-7	ng/g	230	14.0	< 0.0445 UJ	< 0.0443 UJ	21.3 J	132	0.930 J	8.48 J	74.3 J	< 0.0417 UJ	5.04 J	-
PCB-195	52663-78-2	ng/g	230	14.0	< 0.0789 UJ	< 0.0785 UJ	7.38 J	43.4 J	< 0.0783 UJ	3.25 J	25.9 J	< 0.0738 UJ	1.91 J	-
PCB-196/203	PCB-196/203	ng/g	230	14.0	< 0.0748 UJ	< 0.0745 UJ	22.1 J	127	1.05 J	9.32 J	82.4 J	< 0.0700 UJ	5.97 J	-
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0334 U	< 0.0332 U	0.678 J	4.54 J	< 0.0331 U	< 0.0773 UJ	2.79 J	< 0.0312 U	< 0.0612 UJ	-
PCB-198	68194-17-2	ng/g	230	14.0	< 0.0541 UJ	< 0.0539 UJ	1.06 J	6.20 J	< 0.0538 UJ	< 0.125 UJ	< 0.534 U	< 0.0506 UJ	< 0.0994 UJ	-
PCB-199	52663-75-9	ng/g	230	14.0	< 0.0521 UJ	< 0.0518 UJ	19.5 J	105	0.897 J	7.69 J	71.3 J	< 0.0487 UJ	4.97 J	-
PCB-200	52663-73-7	ng/g	230	14.0	< 0.0265 U	< 0.0264 U	2.02 J	12.6 J	< 0.0263 U	0.988 J	8.59 J	< 0.0248 U	< 0.0487 UJ	-
PCB-201	40186-71-8	ng/g	230	14.0	< 0.0210 U	< 0.0209 U	2.26 J	13.4 J	< 0.0208 U	1.08 J	9.48 J	< 0.0196 U	0.440 J	-
PCB-202	2136-99-4	ng/g	230	14.0	< 0.0358 U	< 0.0357 U	3.44 J	20.1 J	< 0.0356 U	1.60 J	15.1 J	< 0.0335 U	0.778 J	-
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0438 U	< 0.0437 U	< 0.0565 U	< 0.373 U	< 0.0435 U	< 0.102 UJ	< 0.433 U	< 0.0410 U	< 0.0805 UJ	-
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0311 U	< 0.0309 U	1.06 J	6.87 J	< 0.0309 U	< 0.0720 UJ	< 0.307 U	< 0.0291 U	< 0.0571 UJ	-
PCB-206	40186-72-9	ng/g	230	14.0	< 0.0298 U	< 0.0297 U	10.7 J	51.2 J	0.380 J	4.14 J	42.2 J	< 0.0279 UJ	3.96 J	-
PCB-207	52663-79-3	ng/g	230	14.0	< 0.0394 U	< 0.0392 U	1.13 J	5.84 J	< 0.0391 U	0.707 J	4.75 J	< 0.0369 U	< 0.0723 UJ	-
PCB-208	52663-77-1	ng/g	230	14.0	< 0.0394 U	< 0.0392 U	2.89 J	11.7 J	< 0.0391 U	1.52 J	12.6 J	< 0.0369 U	1.37 J	-
PCB-209	2051-24-3	ng/g	230	14.0	< 0.0227 U	< 0.0226 U	5.04 J	15.1 J	< 0.0225 U	2.85 J	14.1 J	< 0.0212 UJ	3.05 J	-
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	< 0.0227 U	< 0.0226 U	5.04	15.1	< 0.0225 U	2.85	14.1	< 0.0212 U	3.05	-
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	0.440	0.580	219	1190	10.1	94.5	773	1.89	67.8	-
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	1.59	2.68	565	2450	23.5	296	1730	4.24	265	-
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	< 0.0789 U	< 0.0785 U	80.8	471	2.88	32.4	290	< 0.0738 U	19.1	-
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	133	169	44600	235000	1440	21900	376000	1240	6430	-
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	7.24	9.35	1160	5170	78.0	616	3730	9.47	423	-
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	32.5	44.7	19800	107000	530	9470	181000	601	2240	-
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	2.50	2.78	9420	44700	75.0	4780	70900	307	981	-
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	< 0.0394 U	< 0.0392 U	14.7	68.7	0.380	6.37	59.6	< 0.0369 U	5.33	-
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	31.1	34.1	4130	23000	220	2140	30700	76.4	899	-
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	58.0	74.9	9210	50800	499	4500	86600	237	1520	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0008-PLC1	23A-0008-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0011-B1C1	23A-0011-B1C1
				Sample Name	23A-0008-PLC1-BS	23A-0008-PLC1-CS	23A-0009-PLC1-AS	23A-0009-PLC1-BS	23A-0009-PLC1-CS	23A-0010-PLC1-AS	23A-0010-PLC1-BS	23A-0010-PLC1-CS	23A-0011-B1C1-AS	23A-0011-B1C1-BS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 3 ft	3 - 6.2 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 2.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	10000	12000	8300	8300	10000	4900	8000	4700	6200	8300
Calcium	7440-70-2	mg/kg			1600	2500	4000	2400	2900	4000	2700	620	4000	2700
Iron	7439-89-6	mg/kg	5500	20000	19000	32000	20000	15000	23000	17000	14000	12000	19000	14000
Magnesium	7439-95-4	mg/kg			3100	3900	2400	2800	4100	1600	2200	1500	1800	2300
Potassium	7440-09-7	mg/kg			1200	1500	620	660	1200	470	560 J	410 J	410 J	520 J
Sodium	7440-23-5	mg/kg			230 J	410 J	480	190 J	140 J	530	250 J	72 J	600	290 J
Antimony	7440-36-0	mg/kg	3.1	2	< 1.1 U	< 0.94 U	1.5	0.86 J	< 0.82 U	1.1 J+	< 2.1 U	0.059 J	1.5	< 1.7 U
Arsenic	7440-38-2	mg/kg	0.68	9.8	5.3	4.0	7.2 J	5.7	3.8	5.3	7.5	1.6 J	8.6	6.1
Barium	7440-39-3	mg/kg	1500	20	51	49	120 J	90	40	75	93	26 J	130	86
Beryllium	7440-41-7	mg/kg	16		0.63	0.77	0.71	0.49 J	0.60	< 0.43 U	< 1.1 U	0.31 J	0.60	< 0.85 U
Cadmium	7440-43-9	mg/kg	0.71	1	< 0.55 U	< 0.47 U	1.7	1.5	0.082 J	1.1	2.9	< 0.45 U	1.9	2.8
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	22	25	65	54	20	35	82	15	59	79
Cobalt	7440-48-4	mg/kg	2.3	50	10	15	11	7.3	10	7.2	6.3	5.8	11	6.2
Copper	7440-50-8	mg/kg	310	31.6	16	19	74	74	17	44	110	13	69	100
Lead	7439-92-1	mg/kg	200	35.8	7.0	8.5	170	180	8.1	93	310	11	150	270
Manganese	7439-96-5	mg/kg	180	460	230	280	440	320	420	410	240	120	720	210
Nickel	7440-02-0	mg/kg	140	22.7	19	25	17	15	19	9.8	17	10	13	15
Selenium	7782-49-2	mg/kg	39	11	< 2.7 U	< 2.4 U	0.85 J	0.54 J	< 2.1 U	< 2.2 U	< 5.3 U	< 2.3 U	0.43 J	< 4.2 U
Silver	7440-22-4	mg/kg	39	1	< 0.55 U	< 0.47 U	0.53	0.45 J	< 0.41 U	0.30 J	1.1	< 0.45 U	0.48 J	1.2
Thallium	7440-28-0	mg/kg	0.078		< 0.55 U	< 0.47 U	< 0.44 U	< 0.62 U	< 0.41 U	< 0.43 U	< 1.1 U	< 0.45 U	< 0.49 U	< 0.85 U
Vanadium	7440-62-2	mg/kg	39		34	34	37	27	27	21	35	22	31	31
Zinc	7440-66-6	mg/kg	2300	121	37 J	60 J	300	220 J	47 J	200	290	35	290	280
Mercury	7439-97-6	mg/kg	2.3	0.18	< 0.10 U	< 0.12 U	0.83	1.4	< 0.11 U	0.64	2.0	0.028 J	0.84	2.1
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.56 U	< 0.62 U	< 0.49 U	< 0.85 U	< 0.59 U	< 0.50 U	< 1.2 U	< 0.53 U	0.26 J	< 1.1 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 UJ	< 4.6 U	< 27 UJ	< 12 UJ
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 5.2 UJ	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 UJ	< 4.6 U	< 27 UJ	< 12 UJ
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 UJ
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 UJ
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 UJ	< 4.6 U	< 27 UJ	< 12 UJ
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 5.2 UJ	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 UJ
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 UJ	< 4.6 U	< 27 UJ	< 12 UJ
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 UJ	< 4.6 U	< 27 UJ	< 12 UJ
2-HEXANONE	591-78-6	ug/kg	20000	45	< 10 U	< 14 U	< 37 UJ	< 20 UJ	< 14 U	< 44 UJ	< 31 U	< 9.2 U	< 54 UJ	< 24 U
ACETONE	67-64-1	ug/kg	7000000	65	18 J+	25 J+	720 J+	240 J+	< 14 U	500 J	410	17	290 J	160
Benzene	71-43-2	ug/kg	1200	10	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 5.2 UJ	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0008-PLC1	23A-0008-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0011-B1C1	23A-0011-B1C1
				Sample Name	23A-0008-PLC1-BS	23A-0008-PLC1-CS	23A-0009-PLC1-AS	23A-0009-PLC1-BS	23A-0009-PLC1-CS	23A-0010-PLC1-AS	23A-0010-PLC1-BS	23A-0010-PLC1-CS	23A-0011-B1C1-AS	23A-0011-B1C1-BS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 3 ft	3 - 6.2 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 2.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 UJ
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	2.6 J	< 4.6 U	< 27 UJ	3.4
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Chlorobenzene	108-90-7	ug/kg	28000	30	< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 UJ	< 4.6 U	< 27 UJ	< 12 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Chloroform	67-66-3	ug/kg	320	87	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Cyclohexane	110-82-7	ug/kg	650000		< 5.2 UJ	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Ethylbenzene	100-41-4	ug/kg	5800	290	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 UJ
m,p-Xylene	179601-23-1	ug/kg	55000		< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	< 10 U	< 14 U	200 J+	65 J	< 14 U	160 J	120	< 9.2 U	140 J	39
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 10 U	< 14 U	< 37 UJ	< 20 U	< 14 U	< 44 UJ	< 31 U	< 9.2 U	< 54 UJ	< 24 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 5.2 UJ	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Methylene Chloride	75-09-2	ug/kg	35000	18	< 5.2 U	< 7.2 U	< 18 UJ	13 J	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Styrene	100-42-5	ug/kg	600000	126	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	2.4 J	3.6 J	7.0 J+	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Toluene	108-88-3	ug/kg	490000	10	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 5.2 U	< 7.2 U	< 18 UJ	< 10 U	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
Vinyl Chloride	75-01-4	ug/kg	59	482	< 5.2 U	< 7.2 U	< 18 UJ	< 10 UJ	< 7.2 U	< 22 UJ	< 16 U	< 4.6 U	< 27 UJ	< 12 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-	-	-	-	< 150 U
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
2-NITROANILINE	88-74-4	ug/kg	63000		< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0008-PLC1	23A-0008-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0011-B1C1	23A-0011-B1C1
				Sample Name	23A-0008-PLC1-BS	23A-0008-PLC1-CS	23A-0009-PLC1-AS	23A-0009-PLC1-BS	23A-0009-PLC1-CS	23A-0010-PLC1-AS	23A-0010-PLC1-BS	23A-0010-PLC1-CS	23A-0011-B1C1-AS	23A-0011-B1C1-BS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 3 ft	3 - 6.2 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 2.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 UJ	< 190 U	< 790 UJ	< 380 UJ
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 UJ	< 360 U	< 1500 UJ	< 740 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 UJ	< 360 U	< 1500 UJ	< 740 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 380 U	< 410 U	350 J	< 580 U	< 400 U	440 J	< 800 U	79 J	330 J	< 740 U
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	< 190 U	< 210 U	270 J	160 J	< 200 U	290 J	420	68 J	290 J	260 J
Caprolactam	105-60-2	ug/kg	3100000		< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 UJ	< 360 U	< 1500 UJ	< 740 UJ
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	230 J	< 410 U	< 190 U	< 790 UJ	< 380 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 190 U	< 210 U	< 640 UJ	< 300 U	< 200 U	< 680 UJ	< 410 U	< 190 U	< 790 UJ	< 380 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	< 1200 U	-	-	-	< 800 U	< 360 U	< 1500 UJ	< 740 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	175	< 380 U	< 410 U	< 1200 UJ	< 580 U	< 400 U	< 1300 UJ	< 800 U	< 360 U	< 1500 UJ	< 740 U
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	-	-	-	-	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0008-PLC1	23A-0008-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0009-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0010-PLC1	23A-0011-B1C1	23A-0011-B1C1
					Sample Name	23A-0008-PLC1-BS	23A-0008-PLC1-CS	23A-0009-PLC1-AS	23A-0009-PLC1-BS	23A-0009-PLC1-CS	23A-0010-PLC1-AS	23A-0010-PLC1-BS	23A-0010-PLC1-CS	23A-0011-B1C1-AS	23A-0011-B1C1-BS
					Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.5 - 3 ft	3 - 6.2 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 2.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 7.5 U	< 8.3 U	< 25 UJ	< 12 U	< 7.9 U	< 27 UJ	< 16 U	< 7.3 UJ	< 31 UJ	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	< 3.8 U	< 4.1 U	< 12 UJ	3.4 JEB	< 4.0 U	< 13 UJ	< 8.0 U	< 3.6 U	< 15 UJ	< 7.4 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	< 3.8 U	< 4.1 U	< 12 UJ	6.1 JEB	1.1 JEB	3.5 JEB	2.2 JEB	< 3.6 U	3.6 JEB	< 7.4 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	< 3.8 U	< 4.1 U	2.9 J	6.4 J+	< 4.0 U	4.4 J	3.2 J	< 3.6 UJ	4.7 J	< 7.4 U
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	< 3.8 U	< 4.1 U	3.4 J	11 J+	2.8 J+	4.3 J	3.7 J	< 3.6 U	< 15 UJ	2.1 J
ANTHRACENE	120-12-7	ug/kg	1800000	57	< 3.8 U	< 4.1 U	2.6 J	8.9 J	1.6 J+	12 J	3.1 J	< 3.6 U	< 15 UJ	< 7.4 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	0.80 JEB	< 4.1 U	29 JEB	66 EB	14 JEB	57 JEB	27 EB	2.1 JEB	12 JEB	12 JEB
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	< 3.8 U	< 4.1 U	< 12 UJ	51	7.8 J+	12 J	< 8.0 U	< 3.6 U	11 J	< 7.4 UJ
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	< 3.8 U	< 4.1 U	60 JEB	59 EB	18 JEB	78 JEB	38 EB	2.5 JEB	26 JEB	15 JEB
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	< 3.8 U	< 4.1 U	< 12 UJ	35	7.3 J+	< 13 UJ	< 8.0 U	< 3.6 U	8.2 J	< 7.4 UJ
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	< 3.8 U	< 4.1 U	25 JEB	25 EB	6.6 JEB	25 JEB	13 EB	< 3.6 U	12 JEB	7.3 JEB
CHRYSENE	218-01-9	ug/kg	110000	166	< 3.8 U	< 4.1 U	45 JEB	68 EB	15 JEB	66 JEB	28 EB	1.9 JEB	21 JEB	9.3 JEB
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	< 3.8 U	< 4.1 U	7.0 JEB	9.2 EB	2.0 JEB	9.1 JEB	5.0 JEB	< 3.6 U	< 15 UJ	2.2 JEB
FLUORANTHENE	206-44-0	ug/kg	240000	423	1.1 JEB	< 4.1 U	70 JEB	93 JEB	19 JEB	170 JEB	58 EB	3.9 EB	47 JEB	19 JEB
FLUORENE	86-73-7	ug/kg	240000	77	< 3.8 U	< 4.1 U	< 12 UJ	7.1 JEB	1.4 JEB	6.4 JEB	2.4 JEB	< 3.6 U	< 15 UJ	1.8 JEB
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	< 3.8 U	< 4.1 U	17 J	31	6.4 J+	16 J	4.9 J	< 3.6 U	15 J	< 7.4 UJ
Naphthalene	91-20-3	ug/kg	2000	176	< 3.8 U	< 4.1 U	17 JEB	8.9 JEB	1.7 JEB	33 JEB	6.7 JEB	4.4 EB	21 JEB	4.1 JEB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 7.6 U	< 8.4 U	-	< 12 U	< 8.0 U	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	< 3.8 U	< 4.1 U	38 J	39 J	11 J+	95 J	20	1.5 J	16 J	8.5
PYRENE	129-00-0	ug/kg	180000	195	< 3.8 U	< 4.1 U	48 J	85	26 J+	74 J	19 J	2.6 J	58 J	6.5 J
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			580	690	120000 J	72000	1300	360000 J	200000	710	1700 J	70000
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			-	-	10 J	-	-	58 J	-	-	41 J	-
Cadmium	7440-43-9	umol/g			-	-	0.015 J	-	-	0.018 J	-	-	0.017 J	-
Copper	7440-50-8	umol/g			-	-	0.88 J	-	-	1.3 J	-	-	0.91 J	-
Lead	7439-92-1	umol/g			-	-	0.65 J	-	-	0.90 J	-	-	0.78 J	-
Nickel	7440-02-0	umol/g			-	-	0.82 J	-	-	0.94 J	-	-	0.18 J	-
Silver	7440-22-4	umol/g			-	-	0.0013 J	-	-	0.0012 J	-	-	0.0013 J	-
Zinc	7440-66-6	umol/g			-	-	3.5 J	-	-	4.9 J	-	-	4.6 J	-
Mercury	7439-97-6	umol/g			-	-	< 0.00010 UJ	-	-	< 0.00012 UJ	-	-	< 0.00015 UJ	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0011-B1C1	23A-0012-PLC1	23A-0012-PLC1	23A-0012-PLC1	23A-0014-PLC2	23A-0015-PLC1	23A-0015-PLC1	23A-0015-PLC1	23A-0018-PLC1	23A-0018-PLC1
				Sample Name	23A-0011-B1C1-CS	23A-0012-PLC1-AS	23A-0012-PLC1-BS	23A-0012-PLC1-CS	23A-0014-PLC2-AS	23A-0015-PLC1-AS	23A-0015-PLC1-BS	23A-0015-PLC1-CS	23A-0018-PLC1-AS	23A-0018-PLC1-BS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/23/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.9 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.9 ft	0 - 0.5 ft	0.5 - 4.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 1.9 U	< 1.9 U	< 2.0 U	< 2.1 U	< 2.1 U	< 6.3 UJ	< 4.1 U	< 1.9 U	< 7.6 UJ	< 4.4 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 1.9 U	< 1.9 U	< 2.0 U	< 2.1 U	< 2.1 U	< 6.3 UJ	< 4.1 U	< 1.9 U	< 7.6 UJ	< 4.4 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 1.9 U	< 1.9 U	< 2.0 U	< 2.1 U	< 2.1 U	< 6.3 UJ	< 4.1 U	< 1.9 U	< 7.6 UJ	< 4.4 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 1.9 U	< 1.9 U	< 2.0 U	< 2.1 U	< 2.1 U	< 6.3 UJ	< 4.1 U	< 1.9 U	< 7.6 UJ	< 4.4 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 3.7 U	< 3.8 U	< 3.9 U	< 4.1 U	< 4.1 U	< 12 UJ	< 8.0 U	< 3.6 U	< 15 UJ	< 8.6 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		< 1.9 U	0.26 J	< 2.0 U	< 2.1 U	< 2.1 U	< 6.3 UJ	< 4.1 U	< 1.9 U	< 7.6 UJ	< 4.4 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		1.1 J	0.96 J	0.84 J	< 2.1 U	1.9 J	< 6.3 UJ	0.71 J	1.7 J	< 7.6 UJ	3.9 J
DIELDRIN	60-57-1	ug/kg	34	1.9	< 3.7 U	< 3.8 U	< 3.9 U	< 4.1 U	< 4.1 U	< 12 UJ	< 8.0 U	< 3.6 U	< 15 UJ	< 8.6 U
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 3.7 U	0.29 J	< 3.9 U	< 4.1 U	< 4.1 U	< 12 UJ	< 8.0 U	< 3.6 U	< 15 UJ	0.43 J
ENDRIN	72-20-8	ug/kg	1900	2.22	< 3.7 U	0.46 J	< 3.9 U	< 4.1 U	0.27 J	< 12 UJ	< 8.0 U	< 3.6 U	< 15 UJ	0.83 J
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 3.7 U	< 3.8 U	< 3.9 U	< 4.1 U	< 4.1 U	< 12 UJ	< 8.0 U	< 3.6 U	< 15 UJ	< 8.6 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 3.7 U	< 3.8 U	< 3.9 U	< 4.1 U	< 4.1 U	< 12 UJ	< 8.0 U	< 3.6 U	< 15 UJ	< 8.6 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	0.93 J	4.0 J	1.0 J	< 2.1 U	4.6 J	< 6.3 UJ	2.1 J	5.9 J	< 7.6 UJ	11
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 1.9 U	< 1.9 U	< 2.0 U	< 2.1 U	< 2.1 U	< 6.3 UJ	< 4.1 U	< 1.9 U	< 7.6 UJ	< 4.4 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	< 1.9 U	0.69 J	0.39 J	< 2.1 U	< 2.1 U	< 6.3 UJ	< 4.1 U	< 1.9 U	< 7.6 UJ	2.3 J
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 19 U	< 19 U	< 20 U	< 21 U	< 21 U	< 63 UJ	< 41 U	< 19 U	< 76 UJ	< 44 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	0.57 J	0.30 J	< 3.9 U	< 4.1 U	0.31 J	< 12 UJ	0.75 J	1.1 J	< 15 UJ	0.47 J
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 3.7 U	< 3.8 U	< 3.9 U	< 4.1 U	< 4.1 U	< 12 UJ	0.42 J	< 3.6 U	< 15 UJ	0.44 J
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	0.80 J	1.9 J	0.44 J	< 4.1 U	1.4 J	2.0 J	1.1 J	1.4 J	0.63 J	3.1 J
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		0.50 J	0.89 J	0.26 J	< 2.1 U	< 2.1 U	< 6.3 UJ	< 4.1 U	< 1.9 U	< 7.6 UJ	< 4.4 U
Grain Size														
%CLAY	%CLAY	%			2.6	12.9	28.1	0	8.7	25.2	25.4	10.3	15.2	14.7
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			0.8	12.7	2	0	9.4	2.2	2	10.1	0.2	0.2
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			10.6	12	6.8	3.5	23.3	54.4	38.8	13.5	20.7	17.4
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			24.3	20.6	7.7	2.3	13.3	5.7	9.3	20.9	1.6	0.9
Gravel	GRAVEL	%			47.3	21.4	6.2	0	37.6	0.9	1.3	37.4	0	0
Hydrometer, Reading 1, Percent Passing	HYD01	%			2.6	15.9	37.6	0	10.2	50.4	36.8	13.4	15.2	48.5
Hydrometer, Reading 2, Percent Passing	HYD02	%			2.6	14.4	36	0	10.2	44.6	33	13.4	15.2	32.9
Hydrometer, Reading 3, Percent Passing	HYD03	%			2.6	14.4	34.5	0	10.2	44.6	33	11.8	15.2	22.5
Hydrometer, Reading 4, Percent Passing	HYD04	%			2.6	12.9	31.3	0	10.2	44.6	29.2	10.3	15.2	19.9
Hydrometer, Reading 5, Percent Passing	HYD05	%			2.6	12.9	28.1	0	8.7	38.8	25.4	10.3	15.2	14.7
Hydrometer, Reading 6, Percent Passing	HYD06	%			2.6	11.4	20.1	0	7.2	33	21.6	8.7	15.2	12.1
Hydrometer, Reading 7, Percent Passing	HYD07	%			2.6	9.9	17	0	7.2	33	21.6	8.7	15.2	6.9
Sand	308075-07-2	%			35.7	45.3	16.5	5.8	46	62.3	50.1	44.5	22.5	18.5
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			51.9	65.9	91.8	100	53	96.9	96.7	52.5	99.8	99.8
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			27.6	45.3	84.1	97.7	39.7	91.2	87.4	31.6	98.2	98.9
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			20.4	38.1	80.5	96.2	26.8	80	73.3	22.8	96.9	97.4
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			38.4	56.9	87.8	99	47.2	94.4	93.3	43.6	98.2	99.5
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			22.1	40.3	81.7	96.9	31.6	86.9	81	25.5	97.3	98.3
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			19.4	36.8	79.7	95.7	23.6	71.4	66.8	21.3	94.2	95.1
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			17	33.3	77.3	94.2	16.4	36.8	48.6	18.1	77.5	81.5
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			52.7	78.6	93.8	100	62.4	99.1	98.7	62.6	100	100
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			68.7	96.9	99.9	100	82.3	99.7	100	77.1	100	100
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	100	100	100	100	100	100	100	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	100	100	100	100	100	100	100	100
SILT	445	%			14.4	20.4	49.2	94.2	7.7	11.6	23.2	7.8	62.3	66.8

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0011-B1C1	23A-0012-PLC1	23A-0012-PLC1	23A-0012-PLC1	23A-0014-PLC2	23A-0015-PLC1	23A-0015-PLC1	23A-0015-PLC1	23A-0018-PLC1	23A-0018-PLC1
				Sample Name	23A-0011-B1C1-CS	23A-0012-PLC1-AS	23A-0012-PLC1-BS	23A-0012-PLC1-CS	23A-0014-PLC2-AS	23A-0015-PLC1-AS	23A-0015-PLC1-BS	23A-0015-PLC1-CS	23A-0018-PLC1-AS	23A-0018-PLC1-BS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/23/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.9 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.9 ft	0 - 0.5 ft	0.5 - 4.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	42.2	44.6	18.9	10.2	61.6	2100 J	1440 J	41.7 J	2690 J	3150
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	0.749 JN	0.912 J	< 0.112 U	< 0.14 U	1.54 JN	50.3 J	30.0	< 0.266 U	67.9 J	50.8
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	< 0.263 U	0.623 JN	0.411 J	0.473 J	< 0.472 U	22.8 J	16.7	< 0.453 U	35.6 J	18.0
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	1.43 J	2.54 J	0.797 J	0.149 J	3.94 J	103 J	59.8 J	1.58 J	137 J	101 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	2.84 J	2.46	0.954 JN	0.46 JN	3.94	104 J	76.0 J	2.74 JN	136 J	129
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	0.981 JN	1.29 J	0.427 JN	0.114 JN	1.97 J	49.9 J	35.3	0.973 J	73.5 J	49.2
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	1.55 J	1.85 J	0.969 J	0.652 JN	2.34 J	65.2 J	43.7	1.27 JN	78.2 J	59.1
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.14 U	< 0.246 U	< 0.147 U	< 0.128 U	< 0.538 U	< 2.84 UJ	< 1.48 U	< 0.305 U	< 2.72 UJ	< 1.58 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	0.282 JN	0.398 JN	< 0.161 UJ	< 0.273 UJ	< 0.572 UJ	8.2 JN	7.91 J	< 0.419 UJ	14.6 J	8.12 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	0.335 J	0.6 J	< 0.173 U	< 0.109 U	0.882 J	10.1 J	7.20 JN	< 0.28 U	15.6 J	15.1
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	30.9	17.7	6.94	0.533 J	44.3 J+	1480 J	916 J+	16.3 J+	1880 J	1120 J+
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	0.988 J	1.19 J	0.354 JN	< 0.115 U	1.81 J	41.1 J	32.0	0.88 J	56.3 J	46.0
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	1.85 J	3.79 J	1.31 J	< 0.107 U	3.67 J	42.8 J	31.9 J	2.36 J	53.6 J	105 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 0.194 U	0.234 JN	< 0.118 U	< 0.154 U	< 0.367 U	2.49 J	1.73 JN	< 0.631 UJ	2.89 JN	6.50
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	0.508	2.00	0.608 J	< 0.146 U	1.11 JN	16.0 J	14.0 J	1.05 JN	24.8 J	32.5
OCDD	3268-87-9	pg/g	16000	5000	226	425	258	397	380	14800 J	9810 J	265 J	18800 J	26600 J
OCDF	39001-02-0	pg/g	16000	5000	20.6	15.1	5.59	0.49 J	39.8	1580 J	997	15.8	2130 J	1930
Total HpCDD (a)	RA_Total_HpCDD	pg/g			42.2	44.6	18.9	10.2	61.6	2100	1440	41.7	2690	3150
Total HpCDF (a)	RA_Total_HpCDF	pg/g			31.6	18.6	6.94	0.533	45.8	1530	946	16.3	1950	1170
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		4.39	4.93	2.33	1.59	6.28	192	136	4.01	250	206
Total HxCDF (a)	RA_Total_HxCDF	pg/g			3.40	5.02	1.58	0.263	7.72	194	127	3.43	267	196
Total PeCDD (a)	RA_Total_PeCDD	pg/g			0.282	0.398	< 0.161 U	< 0.273 U	< 0.572 U	8.2	7.91	< 0.419 U	14.6	8.12
Total PeCDF (a)	RA_Total_PeCDF	pg/g			2.19	4.39	1.31	< 0.109 U	4.55	52.9	39.1	2.36	69.2	120
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.194 U	0.234	< 0.118 U	< 0.154 U	< 0.367 U	2.49	1.73	< 0.631 U	2.89	6.50
Total TCDF (a)	RA_Total_TCDF	pg/g			0.508	2.00	0.608	< 0.146 U	1.11	16.0	14.0	1.05	24.8	32.5
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	355 JEB	184 JEB	33.7 JEB	58.4 JEB	50.2 JEB	650 JEB	1300 JEB	202 JEB	1500 JEB	23800 JEB
PCB-002	2051-61-8	ng/g	230	14.0	1.99 JEB	2.77 JEB	0.837 JEB	< 0.0268 U	0.91 J	4.46 J	12.8	5.92 J	9 J	98.5 J
PCB-003	2051-62-9	ng/g	230	14.0	22.5 J	53.2 J	4.74 J	3.89 J	19.9 J	91.5 J	292 J	71.9 J	310 J	3670 J
PCB-004/010	PCB-4/10	ng/g	230	14.0	347 JEB	880 JEB	148 JEB	61.8 JEB	200 JEB	1060 JEB	2490 JEB	1010 JEB	2700 JEB	68400 JEB
PCB-005/008	PCB-5/8	ng/g	230	14.0	197 JEB	725 JEB	121 JEB	20.4 JEB	252 J	406 J	1340 J	694 J	1380 J	28300 J
PCB-006	25569-80-6	ng/g	230	14.0	61.1 JEB	127 JEB	44.1 JEB	4.30 JEB	40.1 J	79.8 J	267 J	157 J	298 J	6820 J
PCB-007/009	PCB-7/9	ng/g	230	14.0	12.8	53.7 J	20.6 J	0.908 J	6.68 J	14.4 J	40.1 J	23.1 J	33.1 J	385 J
PCB-011	2050-67-1	ng/g	230	14.0	3.81 JEB	6.29 JEB	2.10 JEB	< 0.0248 U	3 JEB	8.61 JEB	25.1 EB	12.7 JEB	21.3 JEB	399 JEB
PCB-012/013	PCB-12/13	ng/g	230	14.0	8.00 J	23.8 J	6.78 J	< 0.0447 U	12.5	23.6	81.0 J	35.7 J	64.6 J	738 J
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0247 U	< 0.0248 U	< 0.0239 U	< 0.0249 U	< 0.0246 U	< 0.0417 U	< 0.0323 U	< 0.0247 U	< 0.0460 UJ	< 0.271 U
PCB-015	2050-68-2	ng/g	230	14.0	49.5 J	323 J	27.8 J	4.75 J	158 J	201 J	494 J	139 J	391 J	3140 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	119 JEB	413 JEB	83.6 JEB	9.79 JEB	151 JEB	313 JEB	959 JEB	496 JEB	658 JEB	12200 JEB
PCB-017	37680-66-3	ng/g	230	14.0	76.7 JEB	476 JEB	94.1 JEB	9.02 JEB	130 JEB	208 JEB	641 JEB	313 JEB	488 JEB	9200 JEB
PCB-018	37680-65-2	ng/g	230	14.0	79.7 JEB	175 JEB	76.7 JEB	2.65 JEB	42.8 JEB	86.9 JEB	206 JEB	86.3 JEB	219 JEB	4050 JEB
PCB-019	38444-73-4	ng/g	230	14.0	48.7 J	185 J	29.8 J	5.84 J	67.5 J	211 J	580 J	320 J	423 J	9360 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	8.81 JEB	12.5 EB	7.28 JEB	< 0.0693 U	4.86 JEB	28.2 EB	35.6 JEB	6.53 JEB	29.2 JEB	314 JEB
PCB-022	38444-85-8	ng/g	230	14.0	15.0 EB	13.0 EB	7.48 JEB	< 0.0247 U	11.5	23.0	53.3 J	22.2 J	61.6 J	817 J
PCB-023/034	PCB-23/34	ng/g	230	14.0	2.30 J	4.63 J	1.52 J	< 0.0450 U	1.89 J	< 0.0752 U	21.2	10.2 J	9.63 J	274 J
PCB-024/027	PCB-24/27	ng/g	230	14.0	22.6 J	120 J	21.7 J	2.91 J	36.2 J	95.8 J	260 J	131 J	196 J	4710 J
PCB-025	55712-37-3	ng/g	230	14.0	37.6 J	110 J	48.2 J	2.08 J	44.3 J	77.6 J	221 J	91.4 J	143 J	1660 J
PCB-026	38444-81-4	ng/g	230	14.0	67.8 JEB	156 JEB	70.5 JEB	2.44 JEB	49.7 J	107 J	274 J	155 J	266 J	5220 J
PCB-028	7012-37-5	ng/g	230	14.0	75.1 JEB	223 JEB	129 JEB	1.99 JEB	43.7 JEB	135 JEB	225 JEB	34.5 JEB	199 JEB	1340 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0258 U	< 0.0259 U	< 0.0250 U	< 0.0260 U	< 0.0257 U	< 0.0435 U	< 0.0337 U	< 0.0258 U	< 0.0480 UJ	< 0.283 U

Table 11
Sediment Analytical Results
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				Location	23A-0011-B1C1	23A-0012-PLC1	23A-0012-PLC1	23A-0012-PLC1	23A-0014-PLC2	23A-0015-PLC1	23A-0015-PLC1	23A-0015-PLC1	23A-0018-PLC1	23A-0018-PLC1
				Sample Name	23A-0011-B1C1-CS	23A-0012-PLC1-AS	23A-0012-PLC1-BS	23A-0012-PLC1-CS	23A-0014-PLC2-AS	23A-0015-PLC1-AS	23A-0015-PLC1-BS	23A-0015-PLC1-CS	23A-0018-PLC1-AS	23A-0018-PLC1-BS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/23/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.9 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.9 ft	0 - 0.5 ft	0.5 - 4.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0236 U	< 0.0237 U	< 0.0229 U	< 0.0239 U	< 0.0235 U	< 0.0398 U	0.741 J	< 0.0237 U	0.401 J	6.98 J
PCB-031	16606-02-3	ng/g	230	14.0	105 JEB	276 JEB	117 JEB	3.83 JEB	109 JEB	216 JEB	614 JEB	336 JEB	455 JEB	7790 JEB
PCB-035	37680-69-6	ng/g	230	14.0	< 0.0280 U	< 0.0282 U	< 0.0271 U	< 0.0283 U	< 0.0279 U	5.30 J+	1.68 J+	< 0.0281 U	< 0.0522 UJ	27.1 J+
PCB-036	38444-87-0	ng/g	230	14.0	< 0.0239 U	< 0.0240 U	< 0.0232 U	< 0.0242 U	< 0.0238 U	< 0.0403 U	< 0.0312 U	< 0.0240 U	< 0.0446 UJ	43.9 J
PCB-037	38444-90-5	ng/g	230	14.0	10.6	16.0	3.17 J	< 0.0265 U	10	21.9	47.3 J	12.4 J	43.1 J	295 J
PCB-038	53555-66-1	ng/g	230	14.0	1.22 J	4.78 J	1.58 J	< 0.0200 U	2.07 J	< 0.0334 U	11.1 J	4.13 J	7.21 J	108
PCB-039	38444-88-1	ng/g	230	14.0	< 0.0121 U	< 0.0122 U	< 0.0118 U	< 0.0123 U	0.558 J	< 0.0205 U	4.18 J	1.89 J	3.02 J	58.7 J
PCB-040	38444-93-8	ng/g	230	14.0	4.32 JEB	5.67 JEB	5.00 JEB	< 0.0205 U	1.31 J	7.57 J	11.3 J	2.38 J	15.9 J	226 J
PCB-041/064	PCB-41/64	ng/g	230	14.0	17.6	29.8 J	19.8 J	< 0.0465 U	7.28 J	34.7 J	47.0 J	16.2 J	75.2 J	1470 J
PCB-042	36559-22-5	ng/g	230	14.0	15.3	26.3 J	16.0	< 0.0512 U	10.1	33.5 J	59.5 J	20.8 J	69.4 J	1070 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	67.2 JEB	169 JEB	70.9 JEB	1.58 JEB	63 J	186 J	397 J	136 J	335 J	5610 J
PCB-044	41464-39-5	ng/g	230	14.0	31.4 JEB	47.3 JEB	36.7 JEB	< 0.0272 U	11.8 EB	57.3 JEB	87.2 JEB	21.7 JEB	120 JEB	1780 JEB
PCB-045	70362-45-7	ng/g	230	14.0	5.04 J	7.64 J	5.79 J	< 0.0223 U	1.57 J	9.77 J	16.0	3.62 J	23.2 J	583 J
PCB-046	41464-47-5	ng/g	230	14.0	3.91 J	6.08 J	2.97 J	< 0.0260 U	2.56 J	8.14 J	17.3	6.92 J	15.5 J	193
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	39.8 JEB	155 JEB	42.8 JEB	1.50 JEB	59.7 J	169 J	402 J	125 J	261 J	4160 J
PCB-050	62796-65-0	ng/g	230	14.0	< 0.0315 U	2.25 J	< 0.0305 U	< 0.0318 U	0.918 J	2.45 J	7.37 J	2.89 J	4.62 J	91 J
PCB-051	68194-04-7	ng/g	230	14.0	11.7	49.4 J	9.67	0.741 J	18.1	43.9 J	136 J	52.6 J	71.2 J	1360 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	68.7 JEB	143 JEB	64.8 JEB	1.45 JEB	48.8 JEB	150 JEB	324 JEB	119 JEB	287 JEB	4790 JEB
PCB-053	41464-41-9	ng/g	230	14.0	22.4 J	102 J	24.4 J	1.08 J	22.7 J	65.9 J	156 J	59.6 J	115 J	2440 J
PCB-054	15968-05-5	ng/g	230	14.0	1.22 J	5.49 J	0.828 J	< 0.0211 U	1.92 J	5.56 J	16.3	7.24 J	8.42 J	159
PCB-055	74338-24-2	ng/g	230	14.0	< 0.0271 U	< 0.0273 U	< 0.0263 U	< 0.0274 U	< 0.0271 U	< 0.0458 U	< 0.0355 U	< 0.0272 U	0.634 J	< 0.298 U
PCB-056/060	PCB-56/60	ng/g	230	14.0	6.23 JEB	5.66 JEB	1.17 JEB	< 0.0536 U	3.25 JEB	22.8 EB	32.1 JEB	3.20 JEB	32.7 JEB	52.7 JEB
PCB-057	70424-67-8	ng/g	230	14.0	0.893 J	3.18 J	1.48 J	< 0.0212 U	0.431 J	3.19 J	5.09 J	1.46 J	5.7 J	170
PCB-058	41464-49-7	ng/g	230	14.0	< 0.0190 U	< 0.0191 U	< 0.0184 U	< 0.0192 U	< 0.0190 U	< 0.0321 U	< 0.0248 U	< 0.0191 U	< 0.0354 UJ	7.61 J
PCB-059	74472-33-6	ng/g	230	14.0	2.36 J	2.16 J	2.71 J	< 0.0376 U	0.547 J	3.94 J	4.79 J	1.32 J	8.71 J	204
PCB-061/074	PCB-61/74	ng/g	230	14.0	14.2 EB	21.2 JEB	5.68 JEB	< 0.0494 U	8.99 J	29.6	42.5 J	8.61 J	49.1 J	247 J
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0260 U	< 0.0261 U	< 0.0252 U	< 0.0262 U	< 0.0259 U	< 0.0438 U	< 0.0339 U	< 0.0260 U	< 0.0484 UJ	< 0.285 U
PCB-063	74472-34-7	ng/g	230	14.0	3.60 J	10.4	4.59 J	< 0.0197 U	2.66 J	11.7 J	21.1	6.56 J	21.9 J	487 J
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0374 U	< 0.0376 U	< 0.0363 U	< 0.0378 U	< 0.0373 U	< 0.0632 U	< 0.0489 U	< 0.0375 U	< 0.0698 UJ	8.24 J
PCB-066/080	PCB-66/80	ng/g	230	14.0	13.2 EB	14.2 EB	3.09 JEB	< 0.0479 U	11.2 EB	52.8 JEB	67.1 JEB	9.09 JEB	77.7 JEB	210 EB
PCB-067	73575-53-8	ng/g	230	14.0	0.927 J	1.50 J	< 0.0222 U	< 0.0232 U	< 0.0229 U	2.69 J	2.91 J	< 0.0230 U	4.02 J	23 J
PCB-068	73575-52-7	ng/g	230	14.0	< 0.0271 U	< 0.0273 U	< 0.0263 U	< 0.0274 U	1.66 J	5.88 J	11.6 J	3.97 J	5.7 J	123
PCB-069	60233-24-1	ng/g	230	14.0	< 0.0282 U	0.877 J	< 0.0273 U	< 0.0285 U	0.348 J	1.29 J	3.28 J	1.38 J	1.95 J	39 J
PCB-070	32598-11-1	ng/g	230	14.0	12.9 EB	7.58 JEB	2.28 JEB	< 0.0257 U	7.31 J	50.4 J	64.8 J	5.68 J	69.3 J	96.1 J
PCB-071	41464-46-4	ng/g	230	14.0	20.2 JEB	52.5 JEB	18.8 EB	< 0.0348 U	17.9	46.2 J	111 J	41.6 J	86.2 J	1510 J
PCB-072	41464-42-0	ng/g	230	14.0	1.32 J	3.87 J	1.24 J	< 0.0309 U	1.65 J	5.99 J	13.7	4.70 J	9.02 J	162
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0375 U	< 0.0377 U	< 0.0364 U	< 0.0379 U	< 0.0374 U	< 0.0633 U	< 0.0490 U	< 0.0376 U	< 0.0699 UJ	< 0.412 U
PCB-077	32598-13-3	ng/g	38.0	14.0	2.88 J+	3.86 J+	0.948 J+	< 0.0224 U	1.86 J+	7.06 J+	10.6 J+	2.83 J+	12.8 J	71.7 J+
PCB-078	70362-49-1	ng/g	230	14.0	< 0.0192 U	< 0.0193 U	< 0.0186 U	< 0.0194 U	< 0.0192 U	< 0.0324 U	< 0.0251 U	< 0.0192 U	< 0.0358 UJ	9.38 J
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0241 U	< 0.0242 U	< 0.0234 U	< 0.0244 U	< 0.0240 U	< 0.0407 U	< 0.0315 U	< 0.0242 U	0.934 J	< 0.265 U
PCB-081	70362-50-4	ng/g	12.0	14.0	< 0.0376 U	< 0.0378 U	< 0.0365 U	< 0.0380 U	< 0.0375 U	< 0.0635 U	< 0.0492 U	< 0.0377 U	1.57 J	7.76 J+
PCB-082	52663-62-4	ng/g	230	14.0	1.72 J	1.76 J	< 0.0134 U	< 0.0140 U	0.767 J	6.28 J	8.05 J	1.18 J	9.74 J	54.4 J
PCB-083/109	PCB-83/109	ng/g	230	14.0	1.25 J	2.74 J	1.83 J	< 0.0600 U	0.599 J	5.10 J	6.89 J	1.36 J	8.15 J	131
PCB-084	52663-60-2	ng/g	230	14.0	4.76 J	8.30 J	5.28 J	< 0.0242 U	1.91 J	17.8	23.6	4.15 J	28.7 J	335 J
PCB-085/120	PCB-85/120	ng/g	230	14.0	3.68 J	3.76 J	1.26 J	< 0.0539 U	1.77 J	13.7 J	18.1	2.40 J	22.4 J	125
PCB-086/097	PCB-86/97	ng/g	230	14.0	3.33 J	4.11 J	1.28 J	< 0.0237 U	1.58 J	16.8	21.9	1.82 J	24.2 J	89.6 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	5.37 J	8.17 J	< 0.0146 U	< 0.0152 U	< 0.0150 U	28.8	45.9 J	< 0.0151 U	42.1 J	< 0.166 U
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.0546 U	< 0.0549 U	< 0.0529 U	< 0.0551 U	< 0.0544 U	< 0.0921 U	< 0.0713 U	< 0.0547 U	< 0.102 UJ	4.07 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	10.4	15.8	5.68 J	< 0.0597 U	6.76 J	69.0 J	94.3 J	9.64 J	95.2 J	488 J
PCB-091	68194-05-8	ng/g	230	14.0	4.78 J	13.5	6.14 J	< 0.0309 U	3.79 J	22.3	38.2 J	9.05 J	36.1 J	607 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0011-B1C1	23A-0012-PLC1	23A-0012-PLC1	23A-0012-PLC1	23A-0014-PLC2	23A-0015-PLC1	23A-0015-PLC1	23A-0015-PLC1	23A-0018-PLC1	23A-0018-PLC1
					Sample Name	23A-0011-B1C1-CS	23A-0012-PLC1-AS	23A-0012-PLC1-BS	23A-0012-PLC1-CS	23A-0014-PLC2-AS	23A-0015-PLC1-AS	23A-0015-PLC1-BS	23A-0015-PLC1-CS	23A-0018-PLC1-AS	23A-0018-PLC1-BS
					Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/23/2023	6/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.9 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.9 ft	0 - 0.5 ft	0.5 - 4.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-092	52663-61-3	ng/g	230	14.0		4.15 J	10.2	5.17 J	< 0.0136 U	2.92 J	22.2	39.0 J	8.47 J	32.8 J	481 J
PCB-093/095	PCB-93/95	ng/g	230	14.0		11.3	25.3 J	15.3	< 0.0399 U	4.78 J	55.5 J	67.9 J	8.73 J	88.2 J	1030 J
PCB-094	73575-55-0	ng/g	230	14.0		< 0.0451 U	2.04 J	< 0.0437 U	< 0.0455 U	0.485 J	2.66 J	5.34 J	1.46 J	4.11 J	90.8 J
PCB-096	73575-54-9	ng/g	230	14.0		0.371 J	1.01 J	0.481 J	< 0.0215 U	0.174 J	1.30 J	1.79 J	0.592 J	2.5 J	59.1 J
PCB-098/102	PCB-98/102	ng/g	230	14.0		1.97 J	5.50 J	2.53 J	< 0.0398 U	1.19 J	6.45 J	11.3 J	2.71 J	10.8 J	186
PCB-099	38380-01-7	ng/g	230	14.0		7.30 J	10.8	3.22 J	< 0.0220 U	4.79 J	37.4 J	50.2 J	5.66 J	53.7 J	295 J
PCB-100	39485-83-1	ng/g	230	14.0		< 0.0240 U	1.84 J	< 0.0233 U	< 0.0243 U	0.912 J	3.26 J	7.36 J	1.81 J	4.45 J	63.5 J
PCB-103	60145-21-3	ng/g	230	14.0		0.466 J	1.82 J	0.492 J	< 0.0250 U	0.654 J	2.77 J	5.19 J	1.52 J	3.89 J	65.4 J
PCB-104	56558-16-8	ng/g	230	14.0		< 0.0229 U	< 0.0231 U	< 0.0222 U	< 0.0232 U	< 0.0229 U	< 0.0387 U	0.597 J	< 0.0230 U	0.202 J	3.22 J
PCB-105/127	PCB-105/127	ng/g	120	14.0		3.01 J	3.81 J	< 0.0377 U	< 0.0393 U	1.76 J	18.2	24.8	1.63 J	26.8 J	83.4 J
PCB-106/118	PCB-106/118	ng/g	120	14.0		9.39 J	12.4	3.32 J	< 0.0469 U	5.92 J	53.1 J	72.2 J	5.12 J	81.6 J	253 J
PCB-107/108	PCB-107/108	ng/g	230	14.0		0.933 J	< 0.0480 U	< 0.0462 U	< 0.0482 U	0.507 J	5.75 J	7.40 J	0.678 J	8.29 J	49.7 J
PCB-110	38380-03-9	ng/g	230	14.0		21.7 JEB	52.9 JEB	29.4 JEB	< 0.0225 U	11.2	92.3 J	127 J	21.3 J	159 J	1600 J
PCB-111/117	PCB-111/117	ng/g	230	14.0		< 0.0677 U	< 0.0681 U	2.79 J	< 0.0684 U	3.19 J	< 0.114 U	36.6 J	5.38 J	< 0.126 UJ	240 J
PCB-112	74472-36-9	ng/g	230	14.0		< 0.0236 U	< 0.0237 U	< 0.0229 U	< 0.0239 U	< 0.0235 U	0.437 J	< 0.0309 U	< 0.0237 U	< 0.0440 UJ	19.5 J
PCB-113	68194-10-5	ng/g	230	14.0		< 0.0248 U	0.897 J	< 0.0240 U	< 0.0250 U	< 0.0247 U	0.684 J	0.774 J	< 0.0248 U	0.868 J	28 J
PCB-114	74472-37-0	ng/g	120	14.0		< 0.0206 U	< 0.0207 U	< 0.0199 U	< 0.0208 U	< 0.0205 U	< 0.0347 U	1.62 J	< 0.0206 U	2.19 J	10.3 J
PCB-119	56558-17-9	ng/g	230	14.0		0.883 J	3.66 J	1.55 J	< 0.0275 U	0.961 J	5.82 J	9.96 J	2.21 J	8.34 J	100 J
PCB-122	76842-07-4	ng/g	230	14.0		< 0.0173 U	< 0.0174 U	< 0.0168 U	< 0.0175 U	< 0.0173 U	< 0.0293 U	< 0.0227 U	< 0.0174 U	< 0.0323 UJ	< 0.190 U
PCB-123	65510-44-3	ng/g	120	14.0		< 0.0161 U	< 0.0162 U	< 0.0156 U	< 0.0162 U	< 0.0160 U	2.35 J+	2.99 J+	< 0.0161 U	3.08 J	14.8 J+
PCB-124	70424-70-3	ng/g	230	14.0		< 0.0217 U	< 0.0218 U	< 0.0210 U	< 0.0219 U	< 0.0216 U	2.06 J	3.27 J	< 0.0217 U	2.81 J	5.89 J
PCB-125	74472-39-2	ng/g	230	14.0		< 0.0237 U	< 0.0238 U	< 0.0230 U	< 0.0240 U	< 0.0236 U	< 0.0400 U	< 0.0310 U	< 0.0238 U	0.56 J	< 0.260 U
PCB-126	57465-28-8	ng/g	0.0360	14.0		< 0.0337 U	< 0.0339 U	< 0.0327 U	< 0.0341 U	< 0.0336 U	< 0.0569 U	1.48 J+	< 0.0338 U	< 0.0628 UJ	< 0.370 U
PCB-128	38380-07-3	ng/g	230	14.0		1.14 J	1.82 J	0.416 J	< 0.0241 U	1.02 J	14.3 J	18.7	1.24 J	20.3 J	81.2 J
PCB-129	55215-18-4	ng/g	230	14.0		< 0.0262 U	< 0.0263 U	< 0.0253 U	< 0.0264 U	< 0.0261 U	3.32 J	3.87 J	< 0.0262 U	4.14 J	12.7 J
PCB-130	52663-66-8	ng/g	230	14.0		< 0.0206 U	1.08 J	< 0.0199 U	< 0.0208 U	0.404 J	4.71 J	7.13 J	0.747 J	6.86 J	44.6 J
PCB-131/142	PCB-131/142	ng/g	230	14.0		< 0.0507 U	< 0.0509 U	< 0.0491 U	< 0.0512 U	< 0.0505 U	0.945 J	1.32 J	< 0.0508 U	1.39 J	5.22 J
PCB-132/168	PCB-132/168	ng/g	230	14.0		2.71 J	4.98 J	2.15 J	< 0.0600 U	1.81 J	23.4	32.9 J	3.02 J	35 J	176
PCB-133	35694-04-3	ng/g	230	14.0		< 0.0184 U	< 0.0185 U	< 0.0178 U	< 0.0186 U	0.194 J	1.67 J	2.79 J	< 0.0185 U	1.96 J	26.4 J
PCB-134	52704-70-8	ng/g	230	14.0		< 0.0488 U	< 0.0491 U	< 0.0473 U	< 0.0493 U	0.259 J	4.00 J	5.37 J	< 0.0489 U	5.51 J	44 J
PCB-135/144	PCB-135/144	ng/g	230	14.0		1.04 J	2.93 J	1.32 J	< 0.0518 U	0.881 J	10.1 J	13.6	1.54 J	14.6 J	116
PCB-136	38411-22-2	ng/g	230	14.0		0.889 J	1.95 J	0.868 J	< 0.0432 U	0.647 J	8.09 J	10.2 J	0.945 J	11.6 J	82.6 J
PCB-137	35694-06-5	ng/g	230	14.0		< 0.0239 U	< 0.0240 U	< 0.0232 U	< 0.0242 U	0.432 J	4.53 J	5.85 J	< 0.0240 U	6.18 J	25.2 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0		6.31 J	11.5	3.69 J	< 0.0773 U	5.88 J	79.4 J	94.8 J	6.67 J	110 J	493 J
PCB-139/149	PCB-139/149	ng/g	230	14.0		4.67 J	10.9	4.51 J	< 0.0713 U	3.89 J	46.2 J	61.7 J	5.99 J	66 J	404 J
PCB-140	59291-64-4	ng/g	230	14.0		< 0.0349 U	< 0.0351 U	< 0.0338 U	< 0.0352 U	< 0.0348 U	0.572 J	1.04 J	< 0.0350 U	0.906 J	< 0.383 U
PCB-141	52712-04-6	ng/g	230	14.0		< 0.0245 U	0.813 J	< 0.0237 U	< 0.0248 U	0.567 J	9.16 J	11.3 J	0.587 J	12.8 J	40.6 J
PCB-143	68194-15-0	ng/g	230	14.0		< 0.0315 U	< 0.0316 U	< 0.0305 U	< 0.0318 U	< 0.0314 U	< 0.0531 U	0.505 J	< 0.0315 U	< 0.0586 UJ	< 0.345 U
PCB-145	74472-40-5	ng/g	230	14.0		< 0.0415 U	< 0.0418 U	< 0.0402 U	< 0.0420 U	< 0.0414 U	< 0.0701 U	< 0.0543 U	< 0.0416 U	< 0.0774 UJ	< 0.456 U
PCB-146	51908-16-8	ng/g	230	14.0		0.946 J	2.39 J	0.977 J	< 0.0284 U	0.865 J	8.87 J	12.9	1.42 J	11.7 J	82.4 J
PCB-147	68194-13-8	ng/g	230	14.0		0.280 J	1.19 J	< 0.0355 U	< 0.0370 U	0.549 J	3.96 J	6.13 J	0.787 J	4.71 J	64.2 J
PCB-148	74472-41-6	ng/g	230	14.0		< 0.0384 U	< 0.0386 U	< 0.0372 U	< 0.0388 U	< 0.0383 U	< 0.0648 U	0.551 J	< 0.0385 U	< 0.0716 UJ	5.09 J
PCB-150	68194-08-1	ng/g	230	14.0		< 0.0388 U	< 0.0390 U	< 0.0376 U	< 0.0392 U	< 0.0387 U	0.305 J	0.447 J	< 0.0389 U	0.384 J	6.16 J
PCB-151	52663-63-5	ng/g	230	14.0		1.24 J	3.17 J	1.34 J	< 0.0284 U	1.06 J	10.9 J	15.3	1.80 J	15.6 J	147
PCB-152	68194-09-2	ng/g	230	14.0		< 0.0454 U	< 0.0456 U	< 0.0440 U	< 0.0458 U	< 0.0452 U	< 0.0765 U	0.528 J	< 0.0455 U	< 0.0846 UJ	6.76 J
PCB-153	35065-27-1	ng/g	230	14.0		4.10 J	7.09 J	2.01 J	< 0.0249 U	3.71 J	50.8 J	61.9 J	4.08 J	68.8 J	267 J
PCB-154	60145-22-4	ng/g	230	14.0		< 0.0270 U	0.850 J	0.347 J	< 0.0273 U	0.232 J	1.86 J	2.94 J	0.550 J	2.18 J	31.6 J
PCB-155	33979-03-2	ng/g	230	14.0		< 0.0233 U	< 0.0235 U	< 0.0226 U	< 0.0236 U	< 0.0233 U	< 0.0393 U	< 0.0305 U	< 0.0234 U	< 0.0435 UJ	< 0.256 U
PCB-156	38380-08-4	ng/g	120	14.0		< 0.0196 U	0.699 J	< 0.0190 U	< 0.0198 U	0.471 J	6.50 J	8.69 J	< 0.0196 U	8.77 J	38 J
PCB-157	69782-90-7	ng/g	120	14.0		< 0.0272 U	< 0.0274 U	< 0.0264 U	< 0.0275 U	0.189 J+	2.27 J+	3.29 J+	< 0.0273 U	3.43 J	11.8 J+

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0011-B1C1	23A-0012-PLC1	23A-0012-PLC1	23A-0012-PLC1	23A-0014-PLC2	23A-0015-PLC1	23A-0015-PLC1	23A-0015-PLC1	23A-0018-PLC1	23A-0018-PLC1
				Sample Name	23A-0011-B1C1-CS	23A-0012-PLC1-AS	23A-0012-PLC1-BS	23A-0012-PLC1-CS	23A-0014-PLC2-AS	23A-0015-PLC1-AS	23A-0015-PLC1-BS	23A-0015-PLC1-CS	23A-0018-PLC1-AS	23A-0018-PLC1-BS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/23/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.9 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.9 ft	0 - 0.5 ft	0.5 - 4.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-158/160	PCB-158/160	ng/g	230	14.0	< 0.0598 U	0.835 J	< 0.0579 U	< 0.0604 U	0.723 J	7.11 J	9.01 J	0.657 J	9.91 J	40 J
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0376 U	< 0.0378 U	< 0.0365 U	< 0.0380 U	< 0.0375 U	< 0.0635 U	< 0.0492 U	< 0.0377 U	< 0.0701 UJ	4.11 J
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0352 U	< 0.0354 U	< 0.0341 U	< 0.0355 U	< 0.0351 U	< 0.0593 U	< 0.0460 U	< 0.0353 U	< 0.0656 UJ	< 0.386 U
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0277 U	< 0.0279 U	< 0.0269 U	< 0.0280 U	< 0.0277 U	< 0.0468 U	< 0.0362 U	< 0.0278 U	< 0.0517 UJ	< 0.305 U
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0380 U	< 0.0382 U	< 0.0368 U	< 0.0384 U	< 0.0379 U	< 0.0641 U	< 0.0497 U	< 0.0381 U	< 0.0709 UJ	4.11 J
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0327 U	< 0.0329 U	< 0.0317 U	< 0.0331 U	< 0.0326 U	< 0.0552 U	< 0.0428 U	< 0.0328 U	< 0.0610 UJ	< 0.359 U
PCB-167	52663-72-6	ng/g	120	14.0	< 0.0252 U	< 0.0253 U	< 0.0244 U	< 0.0254 U	0.193 J	3.49 J	3.91 J+	< 0.0252 U	3.98 J	15.7 J
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0277 U	< 0.0279 U	< 0.0269 U	< 0.0280 U	< 0.0277 U	< 0.0468 U	< 0.0362 U	< 0.0278 U	< 0.0517 UJ	< 0.305 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	1.82 J	3.14 J	0.857 J	< 0.0461 U	1.59 J	13.9 J	17.3	1.89 J	16.6 J	113
PCB-171	52663-71-5	ng/g	230	14.0	0.395 J	< 0.0365 U	< 0.0351 U	< 0.0366 U	0.435 J	3.71 J	4.85 J	0.553 J	4.4 J	31.2 J
PCB-172/192	PCB-172/192	ng/g	230	14.0	< 0.0602 U	< 0.0605 U	< 0.0583 U	< 0.0608 U	0.198 J	1.90 J	2.34 J	0.296 J	2.06 J	16.9 J
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0406 U	< 0.0408 U	< 0.0393 U	< 0.0410 U	< 0.0405 U	< 0.0684 U	< 0.0530 U	< 0.0407 U	< 0.0756 UJ	< 0.445 U
PCB-174	38411-25-5	ng/g	230	14.0	1.45 J	2.51 J	0.680 J	< 0.0514 U	1.11 J	10.8 J	13.3	1.40 J	13.4 J	85.9 J
PCB-175	40186-70-7	ng/g	230	14.0	< 0.0313 U	< 0.0314 U	< 0.0303 U	< 0.0316 U	< 0.0312 U	< 0.0527 U	0.718 J	< 0.0313 U	0.442 J	4.89 J
PCB-176	52663-65-7	ng/g	230	14.0	< 0.0292 U	< 0.0294 U	< 0.0283 U	< 0.0295 U	0.142 J	1.16 J	1.79 J	0.278 J	1.63 J	12.4 J
PCB-177	52663-70-4	ng/g	230	14.0	0.755 J	2.04 J	0.722 J	< 0.0368 U	0.822 J	6.83 J	9.40 J	1.18 J	8.21 J	67.7 J
PCB-178	52663-67-9	ng/g	230	14.0	< 0.0458 U	< 0.0460 U	< 0.0443 U	< 0.0462 U	0.306 J	2.70 J	3.75 J	0.593 J	3.25 J	34.1 J
PCB-179	52663-64-6	ng/g	230	14.0	0.442 J	1.36 J	0.457 J	< 0.0245 U	0.468 J	4.05 J	5.47 J	0.729 J	5.02 J	46.9 J
PCB-180	35065-29-3	ng/g	230	14.0	2.98 J	5.70 J	1.69 J	< 0.0326 U	2.85 J	23.8	29.5 J	3.06 J	28.7 J	204
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0277 U	< 0.0279 U	< 0.0269 U	< 0.0280 U	< 0.0277 U	< 0.0468 U	< 0.0362 U	< 0.0278 U	< 0.0517 UJ	< 0.305 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	1.71 J	4.45 J	1.59 J	< 0.0737 U	1.71 J	13.6 J	18.6	2.35 J	16.1 J	146
PCB-183	52663-69-1	ng/g	230	14.0	0.671 J	1.45 J	< 0.0351 U	< 0.0366 U	0.654 J	5.94 J	7.70 J	0.920 J	7.05 J	53.6 J
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0263 U	< 0.0264 U	< 0.0254 U	< 0.0265 U	< 0.0262 U	< 0.0443 U	< 0.0343 U	< 0.0263 U	< 0.0489 UJ	< 0.288 U
PCB-185	52712-05-7	ng/g	230	14.0	< 0.0363 U	< 0.0366 U	< 0.0352 U	< 0.0367 U	< 0.0363 U	1.27 J	1.31 J	< 0.0364 U	1.42 J	9.28 J
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0328 U	< 0.0330 U	< 0.0318 U	< 0.0332 U	< 0.0327 U	< 0.0554 U	< 0.0429 U	< 0.0329 U	< 0.0612 UJ	< 0.360 U
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0301 U	< 0.0303 U	< 0.0291 U	< 0.0304 U	< 0.0300 U	< 0.0508 U	< 0.0393 U	< 0.0301 U	< 0.0561 UJ	0.983 J
PCB-189	39635-31-9	ng/g	130	14.0	< 0.0306 U	< 0.0307 U	< 0.0296 U	< 0.0309 U	< 0.0305 U	0.606 J	0.796 J	< 0.0306 U	0.863 J	5.95 J
PCB-191	74472-50-7	ng/g	230	14.0	< 0.0276 U	< 0.0278 U	< 0.0268 U	< 0.0279 U	< 0.0276 U	0.440 J	0.557 J	< 0.0277 U	< 0.0515 UJ	3.87 J
PCB-193	69782-91-8	ng/g	230	14.0	< 0.0349 U	< 0.0351 U	< 0.0338 U	< 0.0352 U	0.221 J	1.25 J	1.66 J	< 0.0350 U	1.55 J	11.4 J
PCB-194	35694-08-7	ng/g	230	14.0	< 0.0441 UJ	2.39 J	< 0.0427 UJ	< 0.0446 UJ	1.39 J	7.87 J	10.7 J	1.29 J	8.95 J	81.4 J
PCB-195	52663-78-2	ng/g	230	14.0	< 0.0781 UJ	0.955 J	< 0.0757 UJ	< 0.0789 UJ	0.55 J	2.88 J	3.62 J	< 0.0783 UJ	3.6 J	27.3 J
PCB-196/203	PCB-196/203	ng/g	230	14.0	0.975 J	2.98 J	< 0.0718 UJ	< 0.0748 UJ	1.43 J	8.25 J	11.2 J	1.67 J	9.94 J	82.8 J
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0330 U	< 0.0332 U	< 0.0320 U	< 0.0334 U	< 0.0329 U	< 0.0557 U	0.453 J	< 0.0331 U	0.271 J	2.73 J
PCB-198	68194-17-2	ng/g	230	14.0	< 0.0536 UJ	< 0.0539 UJ	< 0.0519 UJ	< 0.0542 UJ	< 0.0535 UJ	< 0.0904 UJ	< 0.0700 UJ	< 0.0537 UJ	< 0.0999 UJ	3.87 J
PCB-199	52663-75-9	ng/g	230	14.0	0.962 J	2.14 J	1.03 J	< 0.0521 UJ	1.12 J	7.14 J	9.43 J	1.13 J	8.51 J	69.1 J
PCB-200	52663-73-7	ng/g	230	14.0	< 0.0263 U	< 0.0264 U	< 0.0254 U	< 0.0265 U	< 0.0262 U	0.853 J	1.24 J	< 0.0263 U	1.03 J	8.67 J
PCB-201	40186-71-8	ng/g	230	14.0	< 0.0208 U	< 0.0209 U	< 0.0201 U	< 0.0210 U	0.152 J	0.896 J	1.33 J	< 0.0208 U	1.15 J	8.67 J
PCB-202	2136-99-4	ng/g	230	14.0	< 0.0355 U	< 0.0357 U	< 0.0344 U	< 0.0358 U	0.163 J	1.39 J	1.79 J	< 0.0355 U	1.75 J	13.8 J
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0434 U	< 0.0437 U	< 0.0421 U	< 0.0439 U	< 0.0433 U	< 0.0732 U	< 0.0567 U	< 0.0435 U	< 0.0809 UJ	< 0.477 U
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0308 U	< 0.0309 U	< 0.0298 U	< 0.0311 U	< 0.0307 U	< 0.0519 U	< 0.0402 U	< 0.0308 U	0.761 J	4.71 J
PCB-206	40186-72-9	ng/g	230	14.0	< 0.0295 U	0.977 J	< 0.0286 U	< 0.0298 U	0.587 J	4.83 J	5.09 J	< 0.0296 UJ	6.14 J	37.3 J
PCB-207	52663-79-3	ng/g	230	14.0	< 0.0390 U	< 0.0392 U	< 0.0378 U	< 0.0394 U	< 0.0389 U	0.552 J	0.560 J	< 0.0391 U	0.855 J	4.39 J
PCB-208	52663-77-1	ng/g	230	14.0	< 0.0390 U	< 0.0392 U	< 0.0378 U	< 0.0394 U	0.157 J	1.61 J	1.48 J	< 0.0391 U	2.11 J	9.37 J
PCB-209	2051-24-3	ng/g	230	14.0	< 0.0224 U	< 0.0226 U	< 0.0217 U	< 0.0227 U	0.206 J	3.24 J	2.50 J	< 0.0225 UJ	4.48 J	11.7 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	< 0.0224 U	< 0.0226 U	< 0.0217 U	< 0.0227 U	0.206	3.24	2.50	< 0.0225 U	4.48	11.7
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	10.2	20.7	6.00	< 0.0737 U	10.5	92.0	119	13.2	111	848
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	23.3	52.2	17.6	< 0.0773 U	24.0	306	397	30.0	427	2280
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	1.94	8.47	1.03	< 0.0789 U	4.81	29.3	39.8	4.09	36.0	303
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	2230	5710	1550	201	1850	6020	13900	5180	13000	231000
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	96.8	190	85.7	< 0.0684 U	56.6	492	734	96.9	761	6510
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	679	2140	370	92.2	672	1790	4740	2070	4890	108000
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	379	240	39.3	62.3	71.0	746	1600	280	1800	27600
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	< 0.039 U	0.977	< 0.0378 U	< 0.0394 U	0.744	6.99	7.13	< 0.0391 U	9.10	51.1
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	367	876	342	6.35	308	1020	2070	664	1790	27400
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	670	2180	692	40.6	705	1530	4160	2020	3200	57500

Table 11
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				Location	23A-0011-B1C1	23A-0012-PLC1	23A-0012-PLC1	23A-0012-PLC1	23A-0014-PLC2	23A-0015-PLC1	23A-0015-PLC1	23A-0015-PLC1	23A-0018-PLC1	23A-0018-PLC1
				Sample Name	23A-0011-B1C1-CS	23A-0012-PLC1-AS	23A-0012-PLC1-BS	23A-0012-PLC1-CS	23A-0014-PLC2-AS	23A-0015-PLC1-AS	23A-0015-PLC1-BS	23A-0015-PLC1-CS	23A-0018-PLC1-AS	23A-0018-PLC1-BS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/23/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.9 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.9 ft	0 - 0.5 ft	0.5 - 4.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	4500	3200	10000	17000	3300	6000	4500	3200	7500	11000
Calcium	7440-70-2	mg/kg			1500	1000	1800	2000	1100	4100	2000	1200	4400	3100
Iron	7439-89-6	mg/kg	5500	20000	11000	8100	19000	27000	7700	16000	10000	6900	20000	20000
Magnesium	7439-95-4	mg/kg			2500	1600	4100	6200	1700	1900	1900	1600	2000	3200
Potassium	7440-09-7	mg/kg			240 J	260 J	1300	2400	300 J	430	240 J	260 J	510	770 J
Sodium	7440-23-5	mg/kg			93 J	85 J	140 J	210 J	140 J	460	220 J	86 J	560	450 J
Antimony	7440-36-0	mg/kg	3.1	2	< 0.95 U	< 0.98 U	< 0.98 U	< 1.1 U	< 0.97 U	1.6	< 2.2 U	< 0.88 U	2.0	2.5
Arsenic	7440-38-2	mg/kg	0.68	9.8	2.0	1.8	2.2	2.0	9.5 J	6.6 J	4.4 J	1.8 J	9.6	8.6
Barium	7440-39-3	mg/kg	1500	20	40	31	56	80	23	110	80	30	120	110
Beryllium	7440-41-7	mg/kg	16		< 0.48 U	< 0.49 U	0.60	0.87	0.14 J	0.59 J	0.36 J	0.24 J	0.89	0.74 J
Cadmium	7440-43-9	mg/kg	0.71	1	< 0.48 U	0.10 J	< 0.49 U	< 0.57 U	< 0.48 U	1.6	< 1.1 U	< 0.44 U	2.8	2.6
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	21	15	31	36	9.0 JEB	53 JEB	29 JEB	9.9 JEB	82 EB	97 EB
Cobalt	7440-48-4	mg/kg	2.3	50	6.4	4.8	11	13	5.3 J	11 J	6.2 J	4.1 J	14	9.8
Copper	7440-50-8	mg/kg	310	31.6	22	18	23	25	27 J	64 J	41 J	9.3 J	100	120
Lead	7439-92-1	mg/kg	200	35.8	5.1	29	15	8.9	69	130	71	12	200	290
Manganese	7439-96-5	mg/kg	180	460	180	170	350	400	160 JEB	590 JEB	220 JEB	130 JEB	440 EB	350 EB
Nickel	7440-02-0	mg/kg	140	22.7	18	9.0	20	27	7.3 J	15 J	10 J	6.7 J	18	20
Selenium	7782-49-2	mg/kg	39	11	< 2.4 U	< 2.5 U	< 2.5 U	< 2.9 U	< 2.4 U	< 2.4 U	< 5.4 U	< 2.2 U	0.79 J	< 6.3 U
Silver	7440-22-4	mg/kg	39	1	< 0.48 U	0.14 J	0.049 J	0.046 J	< 0.48 U	0.43 J	0.21 J	< 0.44 U	0.67	0.88 J
Thallium	7440-28-0	mg/kg	0.078		< 0.48 U	< 0.49 U	< 0.49 U	< 0.57 U	< 0.48 U	0.071 J	< 1.1 U	< 0.44 U	0.093 J	< 1.3 U
Vanadium	7440-62-2	mg/kg	39		24	15	42	48	9.7	26	19	9.6	37	41
Zinc	7440-66-6	mg/kg	2300	121	33	50	75	58	49 J	310 J	260 J	42 J	500	350
Mercury	7439-97-6	mg/kg	2.3	0.18	0.035 J	0.078 J	0.11	0.055 J	0.046 J	0.71	0.53	0.061 J	1.0	1.6
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.53 U	< 0.55 U	< 0.58 U	< 0.61 U	< 0.61 U	< 0.49 U	< 1.2 U	< 0.55 U	1.4	< 1.3 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 UJ	< 17 UJ	< 13 U	< 4.8 UJ	< 23 UJ	< 12 R
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 5.6 UJ	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 UJ	< 23 UJ	< 12 R
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 UJ	< 17 UJ	< 13 U	< 4.8 UJ	< 23 UJ	< 12 R
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 UJ	< 17 UJ	< 13 U	< 4.8 UJ	< 23 UJ	< 12 R
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 5.6 UJ	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 UJ	< 23 UJ	< 12 R
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 UJ	< 17 UJ	< 13 UJ	< 4.8 R	< 23 UJ	< 12 R
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 UJ	< 17 UJ	< 13 UJ	< 4.8 R	< 23 UJ	< 12 R
2-HEXANONE	591-78-6	ug/kg	20000	45	< 11 U	< 11 U	< 12 U	< 13 U	< 13 U	< 35 UJ	< 26 U	< 9.6 U	< 46 UJ	< 24 R
ACETONE	67-64-1	ug/kg	7000000	65	6.4 J	< 11 U	28	13	22 J+	390 JEB	630 JEB	11 JEB	520 JEB	1000 JEB
Benzene	71-43-2	ug/kg	1200	10	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 5.6 UJ	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 UJ	< 23 UJ	< 12 R

Table 11
Sediment Analytical Results
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				Location	23A-0011-B1C1	23A-0012-PLC1	23A-0012-PLC1	23A-0012-PLC1	23A-0014-PLC2	23A-0015-PLC1	23A-0015-PLC1	23A-0015-PLC1	23A-0018-PLC1	23A-0018-PLC1
				Sample Name	23A-0011-B1C1-CS	23A-0012-PLC1-AS	23A-0012-PLC1-BS	23A-0012-PLC1-CS	23A-0014-PLC2-AS	23A-0015-PLC1-AS	23A-0015-PLC1-BS	23A-0015-PLC1-CS	23A-0018-PLC1-AS	23A-0018-PLC1-BS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/23/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.9 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.9 ft	0 - 0.5 ft	0.5 - 4.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	1.0 J	< 23 UJ	< 12 R
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
Chlorobenzene	108-90-7	ug/kg	28000	30	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 UJ	< 17 UJ	< 13 UJ	< 4.8 UJ	< 23 UJ	< 12 R
CHLOROETHANE	75-00-3	ug/kg	540000		< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
Chloroform	67-66-3	ug/kg	320	87	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
CHLOROMETHANE	74-87-3	ug/kg	11000		< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
Cyclohexane	110-82-7	ug/kg	650000		< 5.6 UJ	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 UJ	< 23 UJ	< 12 R
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
Ethylbenzene	100-41-4	ug/kg	5800	290	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
m,p-Xylene	179601-23-1	ug/kg	55000		< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
METHYL ACETATE	79-20-9	ug/kg	7800000		< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	< 11 U	< 11 U	< 12 U	< 13 U	< 13 U	95 JEB	180 JEB	< 9.6 U	150 JEB	290 JEB
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 11 U	< 11 U	< 12 U	< 13 U	< 13 U	< 35 UJ	< 26 U	< 9.6 U	< 46 UJ	< 24 R
Methylcyclohexane	108-87-2	ug/kg	9800		< 5.6 UJ	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 UJ	< 23 UJ	< 12 R
Methylene Chloride	75-09-2	ug/kg	35000	18	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
Styrene	100-42-5	ug/kg	600000	126	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
Toluene	108-88-3	ug/kg	490000	10	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 U	< 4.8 U	< 23 UJ	< 12 R
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
Vinyl Chloride	75-01-4	ug/kg	59	482	< 5.6 U	< 5.6 U	< 6.1 U	< 6.5 U	< 6.3 U	< 17 UJ	< 13 UJ	< 4.8 U	< 23 UJ	< 12 R
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 190 U	< 190 U	< 200 U	< 210 U	< 210 UJ	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 370 U	< 380 U	< 390 U	< 410 U	< 410 UJ	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
2-NITROANILINE	88-74-4	ug/kg	63000		< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0011-B1C1	23A-0012-PLC1	23A-0012-PLC1	23A-0012-PLC1	23A-0014-PLC2	23A-0015-PLC1	23A-0015-PLC1	23A-0015-PLC1	23A-0018-PLC1	23A-0018-PLC1
				Sample Name	23A-0011-B1C1-CS	23A-0012-PLC1-AS	23A-0012-PLC1-BS	23A-0012-PLC1-CS	23A-0014-PLC2-AS	23A-0015-PLC1-AS	23A-0015-PLC1-BS	23A-0015-PLC1-CS	23A-0018-PLC1-AS	23A-0018-PLC1-BS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/23/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.9 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.9 ft	0 - 0.5 ft	0.5 - 4.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 190 UJ	< 190 UJ	< 200 UJ	< 210 UJ	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 UJ	< 360 U	< 1500 UJ	< 860 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 370 U	< 380 U	< 390 U	< 410 U	< 410 UJ	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 370 U	150 J	290 J	< 410 U	180 J	< 1200 UJ	260 J	< 360 U	390 J	220 J
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	< 190 U	65 J	76 J	< 210 U	99 J	< 630 UJ	250 J	< 190 U	< 760 UJ	240 J
Caprolactam	105-60-2	ug/kg	3100000		< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 190 U	39 J	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	460	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 370 U	< 380 U	< 390 U	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 190 U	< 190 U	< 200 U	< 210 U	< 210 U	< 630 UJ	< 410 U	< 190 U	< 760 UJ	< 440 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 370 U	< 380 U	-	< 410 U	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	470	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	175	< 370 U	< 380 U	80 J	< 410 U	< 410 U	< 1200 UJ	< 800 U	< 360 U	< 1500 UJ	< 860 U
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	-	-	-	-	-

Table 11
Sediment Analytical Results
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				Location	23A-0011-B1C1	23A-0012-PLC1	23A-0012-PLC1	23A-0012-PLC1	23A-0014-PLC2	23A-0015-PLC1	23A-0015-PLC1	23A-0015-PLC1	23A-0018-PLC1	23A-0018-PLC1
				Sample Name	23A-0011-B1C1-CS	23A-0012-PLC1-AS	23A-0012-PLC1-BS	23A-0012-PLC1-CS	23A-0014-PLC2-AS	23A-0015-PLC1-AS	23A-0015-PLC1-BS	23A-0015-PLC1-CS	23A-0018-PLC1-AS	23A-0018-PLC1-BS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/23/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.9 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.9 ft	0 - 0.5 ft	0.5 - 4.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 7.3 U	< 7.5 U	< 7.8 U	< 8.2 U	< 8.2 U	< 25 UJ	< 16 U	< 7.3 U	< 29 UJ	< 17 U
1-Methylnaphthalene	90-12-0	ug/kg	18	141	< 3.7 U	5.7 EB	1.3 JEB	< 4.1 U	3.1 J	< 12 UJ	1.7 J	< 3.6 U	< 15 UJ	< 8.6 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	< 3.7 U	5.9 EB	1.5 JEB	< 4.1 U	3.9 J	< 12 UJ	3.1 J	1.1 J	< 15 UJ	2.3 J
Acenaphthene	83-32-9	ug/kg	360000	6.7	< 3.7 U	12	1.5 J+	< 4.1 U	9.8 J	5.0 J	2.1 J	1.3 J	< 15 UJ	< 8.6 U
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	1.9 J	48	2.4 J+	< 4.1 U	3.0 J	< 12 UJ	3.2 J	3.6	< 15 UJ	2.3 J
ANTHRACENE	120-12-7	ug/kg	1800000	57	1.6 J	96	2.7 J+	< 4.1 U	17	13 J	5.4 J	5.0	< 15 UJ	< 8.6 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	7.9 EB	180 EB	15 JEB	< 4.1 U	74	57 J	40	32	7.6 J	14
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	6.7	46	5.2 J+	< 4.1 U	45	49 J	22	28	< 15 UJ	13
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	8.4 EB	170 EB	13 JEB	< 4.1 U	91	75 J	63	36	14 J	19
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	5.2	2.3 J	< 3.9 R	< 4.1 U	36	34 J	25	14	< 15 UJ	< 8.6 U
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	2.9 JEB	61 EB	5.2 JEB	< 4.1 U	35	28 J	21	12	8.3 J	13
CHRYSENE	218-01-9	ug/kg	110000	166	7.1 EB	140 EB	11 JEB	< 4.1 U	76	64 J	52	27	8.2 J	12
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	1.9 JEB	16 EB	2.2 JEB	< 4.1 U	9.6	8.4 J	6.3 J	3.6	< 15 UJ	< 8.6 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	19 EB	-	21 JEB	< 4.1 U	190	150 J	99	46	18 J	30
FLUORENE	86-73-7	ug/kg	240000	77	< 3.7 U	55 EB	1.4 JEB	< 4.1 U	11	5.5 J	2.7 J	2.1 J	< 15 UJ	2.2 J
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	4.6	35	4.6 J+	< 4.1 U	33	30 J	23	12	6.0 J	7.4 J
Naphthalene	91-20-3	ug/kg	2000	176	0.93 JEB	14 EB	13 JEB	< 4.1 U	22 EB	4.0 JEB	31 EB	1.9 JEB	23 JEB	14 EB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	2.2 J+	-	< 8.3 U	< 25 UJ	< 16 U	< 7.4 U	< 30 UJ	< 17 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	4.8	-	12 J+	< 4.1 U	120	63 J	36	21	6.4 J	16
PYRENE	129-00-0	ug/kg	180000	195	13 J	200 J	24 J	< 4.1 R	160 J	110 J	69 J	43 J	15 J	27
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			600	5500	640	740	6800	190000 J	87000	2400	210000 J	58000
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			-	< 2.8 U	-	-	1.6 J	22 J	-	-	80 J	-
Cadmium	7440-43-9	umol/g			-	0.0010	-	-	0.0011 J	0.011 J	-	-	0.020 J	-
Copper	7440-50-8	umol/g			-	0.17	-	-	0.11 J	0.40 J	-	-	0.57 J	-
Lead	7439-92-1	umol/g			-	0.12	-	-	0.075 J	0.59 J	-	-	0.79 J	-
Nickel	7440-02-0	umol/g			-	0.077	-	-	0.082 J	0.12 J	-	-	0.14 J	-
Silver	7440-22-4	umol/g			-	0.00043	-	-	0.00012 J	0.00030 J	-	-	0.00063 J	-
Zinc	7440-66-6	umol/g			-	0.56	-	-	0.47	3.6 J	-	-	5.2 J	-
Mercury	7439-97-6	umol/g			-	0.000019 J	-	-	< 0.000033 R	< 0.00011 UJ	-	-	< 0.00012 UJ	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0018-PLC1	23A-0019-B2C2	23A-0019-B2C2	23A-0019-B2C2	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC2	23A-0021-PLC1	23A-0021-PLC1
				Sample Name	23A-0018-PLC1-CS	23A-0019-B2C2-AS	23A-0019-B2C2-BS	23A-0019-B2C2-CS	23A-0020-PLC1-AS	23A-0020-PLC1-BS	23A-0020-PLC1-CS	23A-0020-PLC2-AS	23A-0021-PLC1-AS	23A-0021-PLC1-BS
				Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	4.4 - 5.5 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 4.3 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 2.0 U	< 7.0 UJ	< 3.7 U	< 1.9 U	-	< 4.5 U	< 4.2 U	< 6.1 UJ	< 2.0 UJ	< 1.9 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 2.0 U	< 7.0 UJ	< 3.7 U	< 1.9 U	-	< 4.5 U	< 4.2 U	< 6.1 UJ	< 2.0 UJ	< 1.9 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 2.0 U	< 7.0 UJ	< 3.7 U	< 1.9 U	-	< 4.5 U	< 4.2 U	< 6.1 UJ	< 2.0 UJ	< 1.9 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 2.0 U	< 7.0 UJ	< 3.7 U	< 1.9 U	-	< 4.5 U	< 4.2 U	< 6.1 UJ	< 2.0 UJ	< 1.9 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 3.8 U	< 14 UJ	< 7.3 U	< 3.7 U	-	< 8.8 U	< 8.2 U	< 12 UJ	< 4.0 UJ	0.71 J
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		< 2.0 U	< 7.0 UJ	0.98 J	0.18 J	-	1.6 J	< 4.2 U	< 6.1 UJ	< 2.0 UJ	< 1.9 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		10 J	< 7.0 UJ	5.5 J	0.87 J	-	11 J	5.4 J	< 6.1 UJ	< 2.0 UJ	< 1.9 U
DIELDRIN	60-57-1	ug/kg	34	1.9	< 3.8 U	< 14 UJ	< 7.3 U	< 3.7 U	-	< 8.8 U	< 8.2 U	< 12 UJ	< 4.0 UJ	< 3.6 U
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	0.92 J	< 14 UJ	0.59 J	< 3.7 U	-	1.1 J	1.4 J	< 12 UJ	< 4.0 UJ	< 3.6 U
ENDRIN	72-20-8	ug/kg	1900	2.22	2.6 J	< 14 UJ	1.2 J	0.43 J	-	3.1 J+	< 8.2 U	< 12 UJ	< 4.0 UJ	< 3.6 U
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 3.8 U	< 14 UJ	< 7.3 U	< 3.7 U	-	< 8.8 U	< 8.2 U	< 12 UJ	< 4.0 UJ	< 3.6 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 3.8 U	< 14 UJ	< 7.3 U	< 3.7 U	-	< 8.8 U	< 8.2 U	< 12 UJ	< 4.0 UJ	< 3.6 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	13 J	< 7.0 UJ	21 J	2.4 J	-	38 J	31 J	< 6.1 UJ	< 2.0 UJ	< 1.9 U
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 2.0 U	< 7.0 UJ	< 3.7 U	< 1.9 U	-	< 4.5 U	< 4.2 U	< 6.1 UJ	< 2.0 UJ	< 1.9 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	< 2.0 U	< 7.0 UJ	4.2 J	< 1.9 U	-	7.8 J+	4.0 J	0.50 J	< 2.0 UJ	< 1.9 U
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 20 U	< 70 UJ	< 38 U	< 19 U	-	< 45 U	< 42 U	< 61 UJ	< 21 UJ	< 19 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	< 3.8 U	< 14 UJ	0.81 J	0.27 J	-	1.0 J	9.6 J	< 12 UJ	< 4.0 UJ	< 3.6 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 3.8 U	< 14 UJ	< 7.3 U	< 3.7 U	-	1.6 J	3.4 J	< 12 UJ	< 4.0 UJ	< 3.6 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	11 J	0.95 J	4.9 J+	0.99 J	-	7.9 J	10 J+	0.48 J	0.51 J-	0.13 J
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 210 UJ	< 190 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		< 2.0 U	< 7.0 UJ	1.7 J	0.37 J	-	< 4.5 U	< 4.2 U	< 6.1 UJ	< 2.0 UJ	< 1.9 U
Grain Size														
%CLAY	%CLAY	%			3.7	13.1	23.1	3.6	-	12.6	14.4	3.9	-	6.2
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			11.9	3.7	0.2	14.7	-	0	0.4	1.2	-	0
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			12.9	49.9	10.8	22.3	-	14.1	16.5	60.9	-	17
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			9	5.7	0.4	16.1	-	0.8	3.1	3.9	-	27.8
Gravel	GRAVEL	%			30.9	3.6	1.7	23.1	-	0	9.5	2.1	-	26.7
Hydrometer, Reading 1, Percent Passing	HYD01	%			3.7	18.1	41.3	5	-	12.6	45.3	15.7	-	8.8
Hydrometer, Reading 2, Percent Passing	HYD02	%			3.7	13.1	35.2	3.6	-	12.6	32.9	15.7	-	8.8
Hydrometer, Reading 3, Percent Passing	HYD03	%			3.7	13.1	29.2	3.6	-	12.6	26.8	15.7	-	8.8
Hydrometer, Reading 4, Percent Passing	HYD04	%			3.7	13.1	26.2	3.6	-	12.6	23.7	9.8	-	7.5
Hydrometer, Reading 5, Percent Passing	HYD05	%			3.7	13.1	23.1	3.6	-	12.6	14.4	3.9	-	6.2
Hydrometer, Reading 6, Percent Passing	HYD06	%			3.7	13.1	14.1	3.6	-	9.9	8.2	3.9	-	6.2
Hydrometer, Reading 7, Percent Passing	HYD07	%			3.7	3.3	8.1	0.9	-	7.2	8.2	3.9	-	6.2
Sand	308075-07-2	%			33.8	59.3	11.4	53.1	-	14.9	20	66	-	44.8
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			57.2	92.7	98.1	62.2	-	100	90.1	96.7	-	73.3
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			48.2	87	97.7	46.1	-	99.2	87	92.8	-	45.5
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			42.8	59.9	96.3	33.1	-	96.3	77.9	71.9	-	33.4
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			50.9	90.3	98	54.3	-	99.6	89.3	94.9	-	59.1
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			46.8	80.7	97.1	37.9	-	98.1	83.2	89.7	-	37
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			42	52.1	95.4	30.2	-	94.5	75.6	64.3	-	31.8
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			35.3	37.1	86.9	23.8	-	85.1	70.5	31.9	-	28.5
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			69.1	96.4	98.3	76.9	-	100	90.5	97.9	-	73.3
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			96.3	99.8	99.8	90.6	-	100	90.8	99.3	-	83.5
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	100	100	-	100	100	100	-	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	100	100	-	100	100	100	-	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	100	100	-	100	100	100	-	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	100	100	-	100	100	100	-	100
SILT	445	%			31.6	24	63.8	20.2	-	72.5	56.1	28	-	22.3

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0018-PLC1	23A-0019-B2C2	23A-0019-B2C2	23A-0019-B2C2	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC2	23A-0021-PLC1	23A-0021-PLC1
				Sample Name	23A-0018-PLC1-CS	23A-0019-B2C2-AS	23A-0019-B2C2-BS	23A-0019-B2C2-CS	23A-0020-PLC1-AS	23A-0020-PLC1-BS	23A-0020-PLC1-CS	23A-0020-PLC2-AS	23A-0021-PLC1-AS	23A-0021-PLC1-BS
				Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	4.4 - 5.5 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 4.3 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	127	1980 J	3330	12.7	2070	5950 J	7300 J	-	252	12.8
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	3.54	62.6 J	71.3	< 0.398 U	46.9	90.5	153	-	3.44 J	< 0.313 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	1.34 JN	23.4 J	23.0	< 0.567 U	19.8 J	37.2 J	65.0 J	-	2.37 J	< 0.526 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	7.62 J	71.6 J	135 J	1.2 J	79.3 J	204 J	319 J	-	3.11 J	< 4.62 UJ
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	7.86	100 J	161	0.714 JN	103 J	233 J	388 J	-	16.3	1.22 J
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	3.08 JN	47.0 J	65.6	0.74 J	44.7	93.9	130	-	1.72 J+	0.363 J+
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	4.66	56.7 J	75.9	< 0.585 U	52.4 J	111 J	219 J	-	7.29	< 0.547 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.556 U	< 1.93 UJ	< 1.7 U	< 0.299 U	< 1.44 U	< 2.34 U	< 2.75 U	-	< 0.503 U	< 0.366 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	0.881 JN	10.5 J	11.9 JN	< 0.449 UJ	8.41 JN	14.1 JN	23.0 JN	-	0.799 JN	< 0.451 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	1.48 J	9.37 J	19.3	< 0.219 U	9.93	26.8	31.1	-	0.433 JN	< 0.321 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	46.3 J+	1270 J	1310 J+	5.97 J+	1130 J+	1840 J+	2190 J+	-	99.9	5.66
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	2.71	45.4 J	59.5	< 0.241 U	41.7	82.1	103	-	2.61 J	< 0.36 U
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	9.21 J	35.0 J	162 J	1.2 JN	48.8 J+	256 J+	340 J+	-	2.07 J	< 0.357 U
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 0.567 UJ	2.13 JN	9.35	< 0.323 U	2.98	14.2	19.0	-	< 0.594 U	< 0.909 U
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	5.31	16.2 J	48.3	0.591	19.3	70.7	145	-	1.03 JN	< 0.281 U
OCDD	3268-87-9	pg/g	16000	5000	642	13300 J	24200 J	94.0	16200 J	44700 J	37400 J	-	1580	80.0
OCDF	39001-02-0	pg/g	16000	5000	47.4	2440 J	1600	6.82	1300	2310	2510	-	100	4.61 JN
Total HpCDD (a)	RA_Total_HpCDD	pg/g			127	1980	3330	12.7	2070	5950	7300	-	252	12.8
Total HpCDF (a)	RA_Total_HpCDF	pg/g			49.8	1330	1380	5.97	1180	1930	2340	-	103	5.66
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		13.9	180	260	0.714	175	381	672	-	26.0	1.22
Total HxCDF (a)	RA_Total_HxCDF	pg/g			13.4	164	260	1.9	166	380	552	-	7.44	0.363
Total PeCDD (a)	RA_Total_PeCDD	pg/g			0.881	10.5	11.9	< 0.449 U	8.41	14.1	23.0	-	0.799	< 0.451 U
Total PeCDF (a)	RA_Total_PeCDF	pg/g			10.7	44.4	181	1.2	58.7	283	371	-	2.50	< 0.357 U
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.567 U	2.13	9.35	< 0.323 U	2.98	14.2	19.0	-	< 0.594 U	< 0.909 U
Total TCDF (a)	RA_Total_TCDF	pg/g			5.31	16.2	48.3	0.591	19.3	70.7	145	-	1.03	< 0.281 U
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	434 JEB	4340 JEB	53500 JEB	180 JEB	2740 JEB	133000 JEB	118000 JEB	-	3.12 JEB	0.971 JEB
PCB-002	2051-61-8	ng/g	230	14.0	9.49 J	15.3 J	195 J	0.706 J	27.8 J	334 J	215 J	-	< 0.0504 U	< 0.0501 U
PCB-003	2051-62-9	ng/g	230	14.0	123 J	247 J	2920 J	19.2 J	435 J	9290 J	5210 J	-	0.945 JEB	< 0.0488 U
PCB-004/010	PCB-4/10	ng/g	230	14.0	1370 JEB	3710 JEB	104000 JEB	352 JEB	4180 JEB	204000 JEB	224000 JEB	-	25 EB	7.2 JEB
PCB-005/008	PCB-5/8	ng/g	230	14.0	1270 J	957 J	18100 J	171 J	1540 J	63400 J	28100 J	-	16.1 JEB	4.99 JEB
PCB-006	25569-80-6	ng/g	230	14.0	489 J	174 J	3080 J	37.5 J	519 J	9910 J	5440 J	-	3.18 JEB	0.941 JEB
PCB-007/009	PCB-7/9	ng/g	230	14.0	80.4 J	34.3 J	705 J	5.15 J	66.5 J	1250 J	960 J	-	0.81 J	< 0.0842 U
PCB-011	2050-67-1	ng/g	230	14.0	13.7 EB	15.6 JEB	471 JEB	1.58 JEB	39.0 JEB	1320 JEB	585 JEB	-	< 0.0467 U	< 0.0464 U
PCB-012/013	PCB-12/13	ng/g	230	14.0	46.3 J	44.4 J	901 J	2.73 J	178 J	1730 J	834 J	-	0.572 J	< 0.0835 U
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0241 U	< 0.0430 UJ	7.38 J	< 0.0236 U	< 0.0311 U	< 0.335 U	< 0.295 U	-	< 0.0468 U	< 0.0465 U
PCB-015	2050-68-2	ng/g	230	14.0	217 J	259 J	3410 J	14.3	1310 J	5910 J	2420 J	-	7.1 JEB	1.72 JEB
PCB-016/032	PCB-16/32	ng/g	230	14.0	614 JEB	553 JEB	22500 JEB	70.8 JEB	1810 JEB	27000 JEB	19200 JEB	-	14.4 JEB	3.65 JEB
PCB-017	37680-66-3	ng/g	230	14.0	573 JEB	394 JEB	14100 JEB	46.7 JEB	1360 JEB	19500 JEB	14500 JEB	-	9.7 JEB	2.35 JEB
PCB-018	37680-65-2	ng/g	230	14.0	583 JEB	155 JEB	2570 JEB	17 EB	1080 JEB	3620 JEB	5000 JEB	-	5.82 JEB	1.24 JEB
PCB-019	38444-73-4	ng/g	230	14.0	235 J	381 J	16200 J	56.7 J	948 J	30100 J	35700 J	-	6.43 JEB	1.55 JEB
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	57.4 JEB	27.5 JEB	267 JEB	1.89 JEB	73.6 JEB	361 JEB	535 JEB	-	1.5 JEB	< 0.129 U
PCB-022	38444-85-8	ng/g	230	14.0	55.6 J	48.4 J	595 J	1.74 J	301 J	1030 J	416 J	-	1.21 JEB	< 0.0460 U
PCB-023/034	PCB-23/34	ng/g	230	14.0	15.3	7.67 J	425 J	2.56 J	34.1 J	871 J	1030 J	-	< 0.0846 U	< 0.0840 U
PCB-024/027	PCB-24/27	ng/g	230	14.0	182 J	152 J	6350 J	38 J	413 J	13300 J	15200 J	-	3.65 JEB	0.942 JEB
PCB-025	55712-37-3	ng/g	230	14.0	228 J	134 J	2630 J	8.77 J	646 J	3900 J	3220 J	-	3.66 JEB	0.916 JEB
PCB-026	38444-81-4	ng/g	230	14.0	514 J	216 J	5540 J	31.1 J	1020 J	8870 J	7780 J	-	4.78 JEB	1.22 JEB
PCB-028	7012-37-5	ng/g	230	14.0	368 JEB	221 JEB	2340 JEB	11.5 EB	747 JEB	2410 JEB	2200 JEB	-	14 JEB	3.98 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0251 U	< 0.0449 UJ	< 0.235 U	< 0.0246 U	< 0.0325 U	< 0.349 U	29.9 J	-	< 0.0489 U	< 0.0486 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0018-PLC1	23A-0019-B2C2	23A-0019-B2C2	23A-0019-B2C2	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC2	23A-0021-PLC1	23A-0021-PLC1
				Sample Name	23A-0018-PLC1-CS	23A-0019-B2C2-AS	23A-0019-B2C2-BS	23A-0019-B2C2-CS	23A-0020-PLC1-AS	23A-0020-PLC1-BS	23A-0020-PLC1-CS	23A-0020-PLC2-AS	23A-0021-PLC1-AS	23A-0021-PLC1-BS
				Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	4.4 - 5.5 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 4.3 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0230 U	0.418 J	13.3 J	< 0.0225 U	1.17 J	26.3 J	31.6 J	-	< 0.0448 U	< 0.0445 U
PCB-031	16606-02-3	ng/g	230	14.0	743 JEB	373 JEB	8470 JEB	35.5 JEB	1820 JEB	14500 JEB	8860 JEB	-	7.4 JEB	1.86 JEB
PCB-035	37680-69-6	ng/g	230	14.0	0.775 J+	0.872 J	44.1 J+	< 0.0267 U	5.56 J+	34.9 J+	58.6 J	-	< 0.0532 U	< 0.0528 U
PCB-036	38444-87-0	ng/g	230	14.0	3.63 J	< 0.0416 UJ	37.9 J	< 0.0228 U	< 0.0301 U	72.1 J	28.7 J	-	< 0.0454 U	< 0.0451 U
PCB-037	38444-90-5	ng/g	230	14.0	30.8 J	31.8 J	293 J	0.58 J	202 J	420 J	350 J	-	1.13 J	< 0.0495 U
PCB-038	53555-66-1	ng/g	230	14.0	8.84 J	5.98 J	173	0.963 J	< 0.0249 UJ	305 J	375 J	-	< 0.0375 U	< 0.0373 U
PCB-039	38444-88-1	ng/g	230	14.0	2.52 J	1.68 J	81.7 J	< 0.0116 U	8.25 J	189	100 J	-	< 0.0230 U	< 0.0229 U
PCB-040	38444-93-8	ng/g	230	14.0	40.4 J	14.3 J	145	0.541 J	25.4 J	136	< 0.243 U	-	< 0.0385 U	< 0.0382 U
PCB-041/064	PCB-41/64	ng/g	230	14.0	141 J	62.3 J	1170 J	6.05 J	117 J	1630 J	460 J	-	1.97 J	0.417 J
PCB-042	36559-22-5	ng/g	230	14.0	118 J	59 J	1080 J	3.39 J	215 J	1600 J	777 J	-	2.11 J	0.38 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	563 J	286 J	7030 J	32.4 J	1100 J	11900 J	12600 J	-	9.07 JEB	2.11 JEB
PCB-044	41464-39-5	ng/g	230	14.0	292 JEB	108 JEB	1270 JEB	5.56 JEB	258 JEB	1270 JEB	575 JEB	-	4.1 JEB	0.994 JEB
PCB-045	70362-45-7	ng/g	230	14.0	50.9 J	17.7 J	324 J	2.5 J	24.2	657 J	145	-	1 J	< 0.0416 U
PCB-046	41464-47-5	ng/g	230	14.0	19.3 J	12.2 J	212 J	1.04 J	59.1 J	329 J	343 J	-	< 0.0489 U	< 0.0486 U
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	319 J	213 J	6800 J	26.8 J	734 J	12300 J	14400 J	-	7.63 JEB	2.1 JEB
PCB-050	62796-65-0	ng/g	230	14.0	4.63 J	3.33 J	172	0.636 J	11.3 J	259	275 J	-	< 0.0597 U	< 0.0593 U
PCB-051	68194-04-7	ng/g	230	14.0	74.7 J	56.7 J	2830 J	8.5 J	210 J	3460 J	4600 J	-	1.46 J	0.31 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	526 JEB	248 JEB	5370 JEB	25.2 JEB	947 JEB	8310 JEB	8280 JEB	-	7.78 JEB	1.69 JEB
PCB-053	41464-41-9	ng/g	230	14.0	209 J	94.8 J	3440 J	19.8 J	363 J	5190 J	8420 J	-	3.05 JEB	0.756 JEB
PCB-054	15968-05-5	ng/g	230	14.0	7.19 J	6.63 J	355 J	1.37 J	23.7	569 J	918 J	-	< 0.0396 U	< 0.0393 U
PCB-055	74338-24-2	ng/g	230	14.0	< 0.0264 U	0.783 J	< 0.248 U	< 0.0259 U	1.54 J	< 0.368 U	< 0.325 U	-	< 0.0515 U	< 0.0512 U
PCB-056/060	PCB-56/60	ng/g	230	14.0	22.2 JEB	30.1 JEB	28.7 JEB	< 0.0506 U	46.2 JEB	37.5 JEB	57.2 JEB	-	1.42 JEB	0.25 JEB
PCB-057	70424-67-8	ng/g	230	14.0	11.5	5.22 J	284 J	1.39 J	13.1	443 J	347 J	-	< 0.0398 U	< 0.0395 U
PCB-058	41464-49-7	ng/g	230	14.0	1.1 J	< 0.0331 UJ	7.17 J	< 0.0181 U	< 0.0239 U	< 0.258 U	< 0.227 U	-	< 0.0361 U	< 0.0358 U
PCB-059	74472-33-6	ng/g	230	14.0	18.7	6.37 J	91.6	1.51 J	8.90 J	174 J	42.2 J	-	0.345 J	< 0.0702 U
PCB-061/074	PCB-61/74	ng/g	230	14.0	58.8 J	41.8 J	256 J	1.16 J	137 J	332 J	329 J	-	1.84 J	0.523 J
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0253 U	< 0.0452 UJ	< 0.237 U	< 0.0248 U	< 0.0327 U	< 0.352 U	< 0.311 U	-	< 0.0493 U	< 0.0489 U
PCB-063	74472-34-7	ng/g	230	14.0	30 J	19 J	834 J	3.82 J	53.2 J	1440 J	1130 J	-	0.46 J	< 0.0368 U
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0365 U	< 0.0652 UJ	7.65 J	< 0.0357 U	< 0.0472 U	27.5 J	25.6 J+	-	< 0.0710 U	< 0.0706 U
PCB-066/080	PCB-66/80	ng/g	230	14.0	49.3 JEB	62 JEB	220 JEB	1 JEB	173 JEB	350 JEB	525 JEB	-	2.93 JEB	0.705 JEB
PCB-067	73575-53-8	ng/g	230	14.0	6.66 J	3.23 J	20 J	< 0.0219 U	7.43 J	27.7 J	24.6 J	-	< 0.0435 U	< 0.0432 U
PCB-068	73575-52-7	ng/g	230	14.0	11	7.09 J	223 J	1.59 J	17.5	350 J	459 J	-	< 0.0515 UJ	< 0.0512 UJ
PCB-069	60233-24-1	ng/g	230	14.0	1.57 J	1.5 J	67.4 J	< 0.0269 U	4.58 J	127 J	125 J+	-	< 0.0535 U	< 0.0532 U
PCB-070	32598-11-1	ng/g	230	14.0	39.6 J	58.2 J	58.5 J	0.411 J	104 J	83.3 J	184 J+	-	2.71 JEB	0.614 JEB
PCB-071	41464-46-4	ng/g	230	14.0	153 J	73.5 J	1920 J	11.2	257 J	2470 J	2450 J	-	2.43 JEB	0.58 JEB
PCB-072	41464-42-0	ng/g	230	14.0	12.1	7.54 J	260 J	1.61 J	21.9	424 J	475 J	-	< 0.0580 U	< 0.0576 U
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0366 U	< 0.0654 UJ	< 0.343 U	< 0.0358 U	< 0.0473 U	< 0.509 U	< 0.449 U	-	< 0.0712 U	< 0.0707 U
PCB-077	32598-13-3	ng/g	38.0	14.0	11.3 J+	12.5 J	63.5 J+	< 0.0211 U	40.0 J	109 J	90.8 J+	-	< 0.0420 U	< 0.0417 U
PCB-078	70362-49-1	ng/g	230	14.0	0.971 J	0.431 J	10.7 J	< 0.0183 U	1.34 J	17.4 J	< 0.230 U	-	< 0.0364 U	< 0.0362 U
PCB-079	41464-48-6	ng/g	230	14.0	0.773 J	0.812 J	< 0.220 U	< 0.0230 U	1.95 J	< 0.327 U	< 0.288 U	-	< 0.0457 U	< 0.0454 U
PCB-081	70362-50-4	ng/g	12.0	14.0	1.2 J+	1.5 J	< 0.344 U	< 0.0359 U	2.75 J	< 0.510 UJ	< 0.450 U	-	< 0.0714 U	< 0.0709 U
PCB-082	52663-62-4	ng/g	230	14.0	9.85	9.12 J	40.8 J	< 0.0132 U	20.3 J	57.6 J	18.7 J	-	< 0.0262 U	< 0.0260 U
PCB-083/109	PCB-83/109	ng/g	230	14.0	13.5	6.91 J	155	1.07 J	15.4 J	249 J	145 J	-	< 0.113 U	< 0.112 U
PCB-084	52663-60-2	ng/g	230	14.0	48.1 J	26.3 J	320 J	2.01 J	47.5 J	442 J	240 J	-	1.2 J	< 0.0451 U
PCB-085/120	PCB-85/120	ng/g	230	14.0	17.5	19 J	102	< 0.0509 U	44.8 J	154 J	71.4 J	-	0.737 J	< 0.100 U
PCB-086/097	PCB-86/97	ng/g	230	14.0	19.8 J	21.1 J	74.6 J	< 0.0223 U	44.6 J	99.0 J	97.5 J	-	1.09 J	< 0.0441 U
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	36.1 J	39.2 J	< 0.138 U	< 0.0144 U	82.4 J	< 0.205 UJ	< 0.180 UJ	-	1.43 J	< 0.0284 U
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.0532 U	< 0.0950 UJ	8.92 J	< 0.0521 U	< 0.0688 U	< 0.740 U	21.1 J	-	< 0.104 U	< 0.103 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	72.7 J	87.8 J	681 J	3.92 J	157 J	1080 J	1700 J	-	4.07 J	0.848 J
PCB-091	68194-05-8	ng/g	230	14.0	51 J	30.5 J	889 J	4.63 J	69.5 J	1380 J	1160 J	-	1.28 J	< 0.0576 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0018-PLC1	23A-0019-B2C2	23A-0019-B2C2	23A-0019-B2C2	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC2	23A-0021-PLC1	23A-0021-PLC1
					Sample Name	23A-0018-PLC1-CS	23A-0019-B2C2-AS	23A-0019-B2C2-BS	23A-0019-B2C2-CS	23A-0020-PLC1-AS	23A-0020-PLC1-BS	23A-0020-PLC1-CS	23A-0020-PLC2-AS	23A-0021-PLC1-AS	23A-0021-PLC1-BS
					Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023	6/29/2023	6/29/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	4.4 - 5.5 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 4.3 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-092	52663-61-3	ng/g	230	14.0		42.9 J	28.9 J	767 J	4.72 J	65.8 J	1370 J	1430 J	-	1.06 J	< 0.0253 U
PCB-093/095	PCB-93/95	ng/g	230	14.0		145 J	80.7 J	903 J	6.93 J	124 J	1170 J	571 J	-	3.85 J	0.813 J
PCB-094	73575-55-0	ng/g	230	14.0		5.55 J	3.33 J	172	0.925 J	7.96 J	279 J	354 J	-	< 0.0855 U	< 0.0850 U
PCB-096	73575-54-9	ng/g	230	14.0		4.87 J	1.99 J	64.2 J	0.359 J	4.01 J	109 J	67.3 J	-	< 0.0403 U	< 0.0401 U
PCB-098/102	PCB-98/102	ng/g	230	14.0		19.7 J	9.54 J	238 J	1.77 J	22.1 J	352 J	285 J	-	< 0.0747 U	< 0.0743 U
PCB-099	38380-01-7	ng/g	230	14.0		38.8 J	47.4 J	351 J	1.65 J	106 J	628 J	717 J	-	2.14 J	0.35 J
PCB-100	39485-83-1	ng/g	230	14.0		3.32 J	3.74 J	157	0.72 J	9.31 J	242	450 J	-	< 0.0455 U	< 0.0453 U
PCB-103	60145-21-3	ng/g	230	14.0		5.1 J	3.46 J	119	0.547 J	8.82 J	181	262 J	-	< 0.0470 U	< 0.0467 U
PCB-104	56558-16-8	ng/g	230	14.0		0.16 J	0.228 J	8.78 J	< 0.0219 U	0.677 J	14.3 J	42.0 J	-	< 0.0435 U	< 0.0432 U
PCB-105/127	PCB-105/127	ng/g	120	14.0		17.8	24.9 J	60.7 J	< 0.0371 U	56.2 J	90.5 J	59.7 J	-	0.746 J	< 0.0733 U
PCB-106/118	PCB-106/118	ng/g	120	14.0		49.9 J	74.7 J	246 J	0.946 J	147 J	406 J	498 J	-	3.17 J	0.644 J
PCB-107/108	PCB-107/108	ng/g	230	14.0		5.7 J	7.3 J	72 J	< 0.0455 U	15.8	139	162	-	< 0.0905 U	< 0.0900 U
PCB-110	38380-03-9	ng/g	230	14.0		233 J	139 J	1730 J	15.1	262 J	2500 J	1420 J	-	6.24 JEB	1.27 JEB
PCB-111/117	PCB-111/117	ng/g	230	14.0		< 0.0660 U	< 0.118 UJ	325 J	1.57 J	< 0.0853 UJ	579 J	609 J	-	1.62 J	< 0.128 U
PCB-112	74472-36-9	ng/g	230	14.0		1.48 J	0.718 J	28 J	< 0.0225 U	1.69 J	57.9 J	49.3 J	-	< 0.0448 U	< 0.0445 U
PCB-113	68194-10-5	ng/g	230	14.0		2.98 J	0.59 J	31.9 J	0.245 J	2.59 J	47.4 J	20.3 J	-	< 0.0470 U	< 0.0467 U
PCB-114	74472-37-0	ng/g	120	14.0		1.65 J	1.71 J	12.6 J	< 0.0196 U	5.14 J	< 0.279 U	< 0.246 U	-	< 0.0390 U	< 0.0388 U
PCB-119	56558-17-9	ng/g	230	14.0		9.68	7.23 J	175	0.953 J	18.5	301 J	351 J	-	< 0.0517 U	< 0.0514 U
PCB-122	76842-07-4	ng/g	230	14.0		< 0.0169 U	< 0.0302 UJ	< 0.158 U	< 0.0165 U	< 0.0218 U	< 0.235 U	< 0.207 U	-	< 0.0329 U	< 0.0327 U
PCB-123	65510-44-3	ng/g	120	14.0		1.91 J+	3.06 J	17.5 J+	< 0.0153 U	6.00 J+	34.0 J+	21.6 J+	-	< 0.0305 U	< 0.0303 U
PCB-124	70424-70-3	ng/g	230	14.0		1.26 J	2.64 J	< 0.198 U	< 0.0207 U	4.92 J	< 0.294 U	< 0.259 U	-	< 0.0411 U	< 0.0408 U
PCB-125	74472-39-2	ng/g	230	14.0		< 0.0231 U	< 0.0413 UJ	5.22 J	< 0.0226 U	< 0.0299 U	11.4 J	23.3 J	-	< 0.0450 U	< 0.0447 U
PCB-126	57465-28-8	ng/g	0.0360	14.0		1.48 J+	< 0.0587 UJ	< 0.308 U	< 0.0322 U	2.03 J	38.5 J+	47.7 J	-	< 0.0639 U	< 0.0635 U
PCB-128	38380-07-3	ng/g	230	14.0		7.74 J	16.2 J	81.5 J	< 0.0227 U	30.2 J	150 J	106 J	-	0.966 J	< 0.0449 U
PCB-129	55215-18-4	ng/g	230	14.0		1.39 J	3.4 J	11.1 J	< 0.0250 U	5.91 J	< 0.355 U	< 0.313 U	-	< 0.0496 U	< 0.0493 U
PCB-130	52663-66-8	ng/g	230	14.0		4.73 J	5.48 J	51.4 J	< 0.0196 U	10.8 J	96.4 J	93.8 J	-	< 0.0390 U	< 0.0388 U
PCB-131/142	PCB-131/142	ng/g	230	14.0		0.645 J	1.25 J	< 0.463 U	< 0.0483 U	1.97 J	< 0.687 U	< 0.606 U	-	< 0.0961 U	< 0.0955 U
PCB-132/168	PCB-132/168	ng/g	230	14.0		24.3 J	29 J	188 J	1.84 J	51.3 J	272 J	274 J	-	1.41 J	< 0.112 U
PCB-133	35694-04-3	ng/g	230	14.0		2.48 J	1.62 J	49.9 J	0.481 J	3.77 J	75.1 J	154	-	< 0.0349 U	< 0.0347 U
PCB-134	52704-70-8	ng/g	230	14.0		3.97 J	4.29 J	59.3 J	0.398 J	8.58 J	92.4 J	83.7 J	-	< 0.0926 U	< 0.0920 U
PCB-135/144	PCB-135/144	ng/g	230	14.0		14.1	11.9 J	152	1.33 J	21.4 J	230 J	228 J	-	0.544 J	< 0.0966 U
PCB-136	38411-22-2	ng/g	230	14.0		9.43 J	9.84 J	103	0.76 J	16.7 J	163 J	139 J	-	0.494 J	< 0.0805 U
PCB-137	35694-06-5	ng/g	230	14.0		2.11 J	5.41 J	27.3 J	< 0.0228 U	9.69 J	60.0 J	52.7 J	-	< 0.0454 U	< 0.0451 U
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0		50.7 J	85.4 J	616 J	3.17 J	167 J	1090 J	1060 J	-	4.26 J	0.781 J
PCB-139/149	PCB-139/149	ng/g	230	14.0		49.2 J	54 J	506 J	3.83 J	97.5 J	791 J	785 J	-	2.55 J	0.391 J
PCB-140	59291-64-4	ng/g	230	14.0		1.04 J	0.706 J	9.44 J	< 0.0333 U	< 0.0439 U	< 0.473 U	25.6 J	-	< 0.0662 U	< 0.0658 U
PCB-141	52712-04-6	ng/g	230	14.0		4.86 J	10.3 J	36.1 J	< 0.0234 U	17.8 J	72.1 J	57.5 J	-	0.562 J	< 0.0462 U
PCB-143	68194-15-0	ng/g	230	14.0		< 0.0307 U	< 0.0548 UJ	< 0.287 U	< 0.0300 U	< 0.0396 U	< 0.426 U	< 0.376 U	-	< 0.0597 U	< 0.0593 U
PCB-145	74472-40-5	ng/g	230	14.0		< 0.0405 U	< 0.0723 UJ	< 0.379 U	< 0.0396 U	< 0.0523 U	< 0.563 U	< 0.497 U	-	< 0.0788 U	< 0.0783 U
PCB-146	51908-16-8	ng/g	230	14.0		10.7	9.59 J	121	1.34 J	18.6	185	388 J	-	< 0.0533 U	< 0.0530 U
PCB-147	68194-13-8	ng/g	230	14.0		2.82 J	3.88 J	142	0.488 J	7.70 J	235	382 J	-	< 0.0695 U	< 0.0691 U
PCB-148	74472-41-6	ng/g	230	14.0		0.485 J	< 0.0669 UJ	12.5 J	< 0.0366 U	< 0.0484 U	14.2 J	45.8 J	-	< 0.0729 U	< 0.0724 U
PCB-150	68194-08-1	ng/g	230	14.0		0.318 J	0.269 J	14.1 J	< 0.0370 U	0.634 J	21.9 J	30.3 J	-	< 0.0736 U	< 0.0731 U
PCB-151	52663-63-5	ng/g	230	14.0		14.8	12.6 J	223 J	1.41 J	23.0 J	368 J	432 J	-	0.554 J	< 0.0530 U
PCB-152	68194-09-2	ng/g	230	14.0		0.404 J	< 0.0790 UJ	13.8 J	< 0.0433 U	0.703 J	23.5 J	35.7 J	-	< 0.0861 U	< 0.0855 U
PCB-153	35065-27-1	ng/g	230	14.0		30.3 J	55 J	313 J	1.76 J	97.4 J	580 J	796 J	-	2.7 J	0.421 J
PCB-154	60145-22-4	ng/g	230	14.0		3.06 J	1.91 J	65.3 J	0.63 J	3.74 J	91.4 J	184	-	< 0.0513 U	< 0.0510 U
PCB-155	33979-03-2	ng/g	230	14.0		< 0.0227 U	< 0.0406 UJ	< 0.213 U	< 0.0223 U	< 0.0294 U	< 0.316 U	< 0.279 U	-	< 0.0442 U	< 0.0440 U
PCB-156	38380-08-4	ng/g	120	14.0		3.71 J	7.47 J	39.6 J	< 0.0187 U	15.7	85.6 J	55.2 J	-	< 0.0372 U	< 0.0369 U
PCB-157	69782-90-7	ng/g	120	14.0		1.34 J+	2.6 J	14 J+	< 0.0260 U	5.38 J+	29.3 J	27.7 J	-	< 0.0517 U	< 0.0514 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0018-PLC1	23A-0019-B2C2	23A-0019-B2C2	23A-0019-B2C2	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC2	23A-0021-PLC1	23A-0021-PLC1
					Sample Name	23A-0018-PLC1-CS	23A-0019-B2C2-AS	23A-0019-B2C2-BS	23A-0019-B2C2-CS	23A-0020-PLC1-AS	23A-0020-PLC1-BS	23A-0020-PLC1-CS	23A-0020-PLC2-AS	23A-0021-PLC1-AS	23A-0021-PLC1-BS
					Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023	6/29/2023	6/29/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	4.4 - 5.5 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 4.3 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-158/160	PCB-158/160	ng/g	230	14.0		4.29 J	8.26 J	39.9 J	< 0.0570 U	15.0 J	78.7 J	43.3 J	-	0.309 J	< 0.113 U
PCB-159	39635-35-3	ng/g	230	14.0		0.59 J	< 0.0655 UJ	7.66 J	< 0.0359 U	< 0.0474 U	< 0.510 U	23.2 J	-	< 0.0714 U	< 0.0709 U
PCB-161	74472-43-8	ng/g	230	14.0		< 0.0343 U	< 0.0613 UJ	< 0.321 U	< 0.0336 U	< 0.0443 U	< 0.477 U	< 0.421 U	-	< 0.0667 U	< 0.0663 U
PCB-162	39635-34-2	ng/g	230	14.0		< 0.0270 U	< 0.0483 UJ	< 0.253 U	< 0.0265 U	< 0.0349 U	< 0.376 U	< 0.332 U	-	< 0.0526 U	< 0.0523 U
PCB-165	74472-46-1	ng/g	230	14.0		0.485 J	< 0.0662 UJ	8.4 J	< 0.0363 U	< 0.0479 U	< 0.515 U	< 0.455 U	-	< 0.0721 U	< 0.0717 U
PCB-166	41411-63-6	ng/g	230	14.0		< 0.0319 U	< 0.0570 UJ	< 0.299 U	< 0.0312 U	< 0.0412 U	< 0.444 U	< 0.391 U	-	< 0.0621 U	< 0.0617 U
PCB-167	52663-72-6	ng/g	120	14.0		1.51 J	3.95 J	16.8 J	< 0.0240 U	6.57 J	36.1 J	24.3 J	-	< 0.0478 U	< 0.0475 U
PCB-169	32774-16-6	ng/g	0.120	14.0		< 0.0270 U	< 0.0483 UJ	< 0.253 U	< 0.0265 U	< 0.0349 UJ	< 0.376 U	< 0.332 U	-	< 0.0526 U	< 0.0523 U
PCB-170/190	PCB-170/190	ng/g	230	14.0		12.2	14 J	148	0.586 J	28.6 J	354 J	364 J	-	0.736 J	< 0.0861 U
PCB-171	52663-71-5	ng/g	230	14.0		3.41 J	3.66 J	41.1 J	< 0.0346 U	7.54 J	91.5 J	93.3 J	-	< 0.0688 U	< 0.0683 U
PCB-172/192	PCB-172/192	ng/g	230	14.0		1.85 J	1.76 J	23.7 J	< 0.0574 U	3.61 J	54.7 J	67.0 J	-	< 0.114 U	< 0.113 U
PCB-173	68194-16-1	ng/g	230	14.0		< 0.0395 U	< 0.0706 UJ	< 0.370 U	< 0.0387 U	< 0.0511 U	< 0.550 U	< 0.485 U	-	< 0.0770 U	< 0.0765 U
PCB-174	38411-25-5	ng/g	230	14.0		9.64	11.2 J	107	0.612 J	21.9	246	290 J	-	0.525 J	< 0.0959 U
PCB-175	40186-70-7	ng/g	230	14.0		0.597 J	< 0.0544 UJ	6.09 J	< 0.0298 U	1.03 J	14.6 J	13.4 J	-	< 0.0593 U	< 0.0589 U
PCB-176	52663-65-7	ng/g	230	14.0		1.6 J	1.37 J	17 J	< 0.0279 U	2.68 J	36.2 J	44.2 J	-	< 0.0554 U	< 0.0550 U
PCB-177	52663-70-4	ng/g	230	14.0		8.92 J	6.92 J	95.8	0.789 J	13.6	190	295 J	-	0.276 J	< 0.0687 U
PCB-178	52663-67-9	ng/g	230	14.0		3.94 J	2.67 J	56.9 J	0.53 J	5.29 J	103 J	166	-	< 0.0868 U	< 0.0863 U
PCB-179	52663-64-6	ng/g	230	14.0		5.63 J	4.19 J	71.6 J	0.559 J	8.16 J	147 J	193 J	-	0.142 J	< 0.0456 U
PCB-180	35065-29-3	ng/g	230	14.0		22.2 J	24 J	267 J	1.5 J	46.6 J	637 J	718 J	-	1.19 J	0.199 J
PCB-181	74472-47-2	ng/g	230	14.0		< 0.0270 U	< 0.0483 UJ	< 0.253 U	< 0.0265 U	< 0.0349 U	< 0.376 U	< 0.332 U	-	< 0.0526 U	< 0.0523 U
PCB-182/187	PCB-182/187	ng/g	230	14.0		17.4	13.5 J	222 J	1.84 J	26.3 J	434 J	697 J	-	0.612 J	< 0.137 U
PCB-183	52663-69-1	ng/g	230	14.0		5.78 J	6.03 J	70.5 J	0.311 J	11.7 J	159 J	158 J	-	0.273 J	< 0.0683 U
PCB-184	74472-48-3	ng/g	230	14.0		< 0.0256 U	< 0.0457 UJ	< 0.240 U	< 0.0251 U	< 0.0331 U	< 0.356 U	< 0.314 U	-	< 0.0498 U	< 0.0495 U
PCB-185	52712-05-7	ng/g	230	14.0		1.13 J	1.16 J	12.3 J	< 0.0347 U	2.24 J	26.5 J	23.7 J	-	< 0.0690 U	< 0.0685 U
PCB-186	74472-49-4	ng/g	230	14.0		< 0.0320 U	< 0.0572 UJ	< 0.300 U	< 0.0313 U	< 0.0414 U	< 0.445 U	< 0.393 U	-	< 0.0623 U	< 0.0619 U
PCB-188	74487-85-7	ng/g	230	14.0		< 0.0293 U	< 0.0524 UJ	2.84 J	< 0.0287 U	< 0.0379 U	4.12 J	6.81 J	-	< 0.0571 U	< 0.0567 U
PCB-189	39635-31-9	ng/g	130	14.0		0.548 J	0.634 J	7.91 J	< 0.0292 U	1.25 J	15.7 J	19.8 J	-	< 0.0580 U	< 0.0576 U
PCB-191	74472-50-7	ng/g	230	14.0		0.377 J	< 0.0481 UJ	4.96 J	< 0.0264 U	0.833 J	10.5 J	10.8 J	-	< 0.0524 U	< 0.0521 U
PCB-193	69782-91-8	ng/g	230	14.0		1.35 J	1.31 J	17.9 J	< 0.0333 U	2.02 J	38.4 J	64.9 J	-	< 0.0662 U	< 0.0658 U
PCB-194	35694-08-7	ng/g	230	14.0		9.25 J	8.14 J	145	0.704 J	15.1 J	373 J	461 J	-	< 0.0836 U	< 0.0831 U
PCB-195	52663-78-2	ng/g	230	14.0		3.15 J	3.44 J	43.9 J	< 0.0745 UJ	4.90 J	103 J	143	-	< 0.148 U	< 0.147 U
PCB-196/203	PCB-196/203	ng/g	230	14.0		8.77 J	8.07 J	123	1.07 J	15.8 J	291 J	417 J	-	< 0.141 U	< 0.140 U
PCB-197	33091-17-7	ng/g	230	14.0		0.252 J	0.193 J	< 0.302 U	< 0.0315 U	0.584 J	8.16 J	15.1 J	-	< 0.0626 U	< 0.0622 U
PCB-198	68194-17-2	ng/g	230	14.0		< 0.0522 UJ	< 0.0933 UJ	< 0.489 U	< 0.0511 UJ	< 0.0675 U	< 0.727 U	< 0.641 U	-	< 0.102 U	< 0.101 U
PCB-199	52663-75-9	ng/g	230	14.0		8.13 J	7.22 J	105	1.24 J	13.4 J	243 J	385 J	-	< 0.0978 U	< 0.0972 U
PCB-200	52663-73-7	ng/g	230	14.0		0.931 J	0.911 J	13 J	< 0.0251 U	1.40 J	28.7 J	43.1 J	-	< 0.0498 U	< 0.0495 U
PCB-201	40186-71-8	ng/g	230	14.0		1.05 J	1.04 J	14.6 J	< 0.0198 U	1.70 J	25.9 J	45.5 J	-	< 0.0394 U	< 0.0392 U
PCB-202	2136-99-4	ng/g	230	14.0		1.28 J	1.29 J	22.5 J	< 0.0338 U	2.60 J	47.1 J	74.4 J	-	< 0.0673 U	< 0.0669 U
PCB-204	74472-52-9	ng/g	230	14.0		< 0.0423 U	< 0.0756 UJ	< 0.396 U	< 0.0414 U	< 0.0547 U	< 0.589 U	< 0.519 U	-	< 0.0823 U	< 0.0818 U
PCB-205	74472-53-0	ng/g	230	14.0		0.537 J	< 0.0536 UJ	< 0.281 U	< 0.0294 U	< 0.0388 U	< 0.417 U	26.2 J	-	< 0.0584 U	< 0.0580 U
PCB-206	40186-72-9	ng/g	230	14.0		4.76 J	4.34 J	55 J	< 0.0281 U	8.01 J	119 J	196	-	< 0.0560 U	< 0.0556 U
PCB-207	52663-79-3	ng/g	230	14.0		0.26 J	0.541 J	6.06 J	< 0.0372 U	1.07 J	10.8 J	17.8 J	-	< 0.0740 U	< 0.0735 U
PCB-208	52663-77-1	ng/g	230	14.0		0.731 J	1.41 J	13.8 J	< 0.0372 U	2.55 J	24.7 J	42.3 J	-	< 0.0740 U	< 0.0735 U
PCB-209	2051-24-3	ng/g	230	14.0		< 0.0219 U	2.77 J	16.9 J	< 0.0214 U	4.54 J	29.2 J	24.4 J	-	0.176 J	< 0.0423 U
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0		< 0.0219 U	2.77	16.9	< 0.0214 U	4.54	29.2	24.4	-	0.176	< 0.0423 U
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0		96.6	92.4	1170	6.73	183	2560	3220	-	3.75	0.199
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0		252	344	2920	17.4	637	4840	5530	-	14.3	1.59
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0		33.4	30.3	467	3.01	55.5	1120	1610	-	< 0.148 U	< 0.147 U
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0		12300	15200	317000	1340	28700	631000	580000	-	228	50.7
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0		861	681	7760	48.1	1350	12000	10900	-	28.6	3.93
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0		3490	5190	131000	584	7830	288000	262000	-	52.8	14.9
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0		566	4600	56600	200	3200	143000	123000	-	4.07	0.971
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0		5.75	6.29	74.9	< 0.0372 U	11.6	155	256	-	< 0.074 U	< 0.0735 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0		2790	1510	34600	157	4980	54000	58100	-	50.3	11.4
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0		4210	2700	82600	324	10500	127000	115000	-	73.7	17.7

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0018-PLC1	23A-0019-B2C2	23A-0019-B2C2	23A-0019-B2C2	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC2	23A-0021-PLC1	23A-0021-PLC1
				Sample Name	23A-0018-PLC1-CS	23A-0019-B2C2-AS	23A-0019-B2C2-BS	23A-0019-B2C2-CS	23A-0020-PLC1-AS	23A-0020-PLC1-BS	23A-0020-PLC1-CS	23A-0020-PLC2-AS	23A-0021-PLC1-AS	23A-0021-PLC1-BS
				Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	4.4 - 5.5 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 4.3 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	3200	6700	14000	3900	6600	10000	12000	-	4800	6000
Calcium	7440-70-2	mg/kg			930	4400	3100	1100	3500	3200	2800	-	1600	1600
Iron	7439-89-6	mg/kg	5500	20000	6500	18000	22000	7600	18000	18000	20000	-	8800	9800
Magnesium	7439-95-4	mg/kg			1300	1800	4000	1800	2000	2800	3100	-	3000	3300
Potassium	7440-09-7	mg/kg			200 J	460	1100	150 J	410 J	660 J	790 J	-	410 J	650
Sodium	7440-23-5	mg/kg			100 J	510	510 J	110 J	460 J	1000 J	1800	-	300 J	490
Antimony	7440-36-0	mg/kg	3.1	2	< 0.80 U	1.8	< 1.5 U	< 0.98 U	< 2.2 U	2.7	3.8	-	< 0.93 U	< 1.0 U
Arsenic	7440-38-2	mg/kg	0.68	9.8	1.8	7.9	9.0 J	1.5 J	6.2	9.5	9.0	-	1.3 J	0.91 J+
Barium	7440-39-3	mg/kg	1500	20	17	96	140	18	69	130	120	-	23	11
Beryllium	7440-41-7	mg/kg	16		0.14 J	0.67	0.88 J	0.25 J	0.42 J	0.80 J	0.75 J	-	0.23 J	0.16 J
Cadmium	7440-43-9	mg/kg	0.71	1	0.095 J	2.3	2.5	< 0.49 U	1.2	4.3	3.1	-	0.16 J	0.14 J
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	9.2 EB	65 EB	94 JEB	4.1 JEB	43 EB	130 EB	95 EB	-	15 JEB	9.3 EB
Cobalt	7440-48-4	mg/kg	2.3	50	3.3	12	10 J	1.8 J	8.7	8.9	8.4	-	5.6	5.1
Copper	7440-50-8	mg/kg	310	31.6	11	87	120 J	5.1 J	68	160	180	-	17 J	14 J
Lead	7439-92-1	mg/kg	200	35.8	24	180	270	5.6	140	420	320	-	74	7.5
Manganese	7439-96-5	mg/kg	180	460	93 EB	320 EB	420 JEB	200 JEB	300 EB	340 EB	280 EB	-	170 EB	81 EB
Nickel	7440-02-0	mg/kg	140	22.7	4.8	16	22 J	2.7 J	11	22	20	-	9.6 J	8.3
Selenium	7782-49-2	mg/kg	39	11	< 2.0 U	< 2.2 U	< 3.8 U	< 2.5 U	< 5.4 U	< 5.9 U	< 4.3 U	-	< 2.3 U	< 2.6 U
Silver	7440-22-4	mg/kg	39	1	< 0.40 U	0.50	0.63 J	< 0.49 U	0.39 J	1.4	1.2	-	0.051 J	< 0.52 U
Thallium	7440-28-0	mg/kg	0.078		< 0.40 U	0.080 J	0.13 J	< 0.49 U	< 1.1 U	0.11 J	0.11 J	-	< 0.47 U	< 0.52 U
Vanadium	7440-62-2	mg/kg	39		7.4	29	55	5.4	20	47	45	-	17	15 J
Zinc	7440-66-6	mg/kg	2300	121	34	430	310 J	11 J	230	440	430	-	50 JEB	23 EB
Mercury	7439-97-6	mg/kg	2.3	0.18	0.073 J	0.82	1.8	< 0.094 U	0.90	2.9	1.8	-	0.073 J	0.022 J
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.57 U	3.8	< 1.1 U	< 0.54 U	< 1.3 U	< 1.3 U	< 1.2 U	< 0.49 U	< 0.59 R	< 0.55 R
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 6.1 UJ	< 21 UJ	< 10 U	< 5.7 U	< 14 UJ	< 12 U	< 13 U	-	-	< 6.1 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 6.1 UJ	< 21 UJ	< 10 U	< 5.7 U	< 14 UJ	< 12 U	< 13 U	-	-	< 6.1 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 UJ	< 12 U	< 13 U	-	-	< 6.1 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 UJ	< 12 U	< 13 U	-	-	< 6.1 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 6.1 UJ	< 21 UJ	< 10 U	< 5.7 U	< 14 UJ	< 12 U	< 13 U	-	-	< 6.1 U
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 UJ	< 12 U	< 13 U	-	-	< 6.1 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 6.1 UJ	< 21 UJ	< 10 U	< 5.7 U	< 14 UJ	< 12 U	< 13 U	-	-	< 6.1 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 6.1 UJ	< 21 UJ	< 10 U	< 5.7 U	< 14 UJ	< 12 U	< 13 U	-	-	< 6.1 U
2-HEXANONE	591-78-6	ug/kg	20000	45	< 12 U	< 43 UJ	< 21 U	< 11 U	< 28 U	< 24 U	< 25 U	-	-	< 12 U
ACETONE	67-64-1	ug/kg	7000000	65	18 JEB	860 JEB	360 EB	< 11 U	580 EB	450 EB	540 EB	-	-	< 12 U
Benzene	71-43-2	ug/kg	1200	10	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0018-PLC1	23A-0019-B2C2	23A-0019-B2C2	23A-0019-B2C2	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC2	23A-0021-PLC1	23A-0021-PLC1
				Sample Name	23A-0018-PLC1-CS	23A-0019-B2C2-AS	23A-0019-B2C2-BS	23A-0019-B2C2-CS	23A-0020-PLC1-AS	23A-0020-PLC1-BS	23A-0020-PLC1-CS	23A-0020-PLC2-AS	23A-0021-PLC1-AS	23A-0021-PLC1-BS
				Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	4.4 - 5.5 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 4.3 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 UJ	< 12 U	< 13 U	-	-	< 6.1 U
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	3.1 J	3.5 J	-	-	< 6.1 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Chlorobenzene	108-90-7	ug/kg	28000	30	< 6.1 UJ	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Chloroform	67-66-3	ug/kg	320	87	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Cyclohexane	110-82-7	ug/kg	650000		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Ethylbenzene	100-41-4	ug/kg	5800	290	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 UJ	< 12 U	< 13 U	-	-	< 6.1 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	< 12 U	260 JEB	98 EB	< 11 U	150 EB	110 EB	160 EB	-	-	< 12 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 12 U	< 43 UJ	< 21 U	< 11 U	< 28 U	< 24 U	< 25 U	-	-	< 12 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	3.1 J	4.6 J	-	-	< 6.1 U
Methylene Chloride	75-09-2	ug/kg	35000	18	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Styrene	100-42-5	ug/kg	600000	126	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Toluene	108-88-3	ug/kg	490000	10	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
Vinyl Chloride	75-01-4	ug/kg	59	482	< 6.1 U	< 21 UJ	< 10 U	< 5.7 U	< 14 U	< 12 U	< 13 U	-	-	< 6.1 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 UJ	< 190 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 UJ	< 370 U
2-NITROANILINE	88-74-4	ug/kg	63000		< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U

Table 11
Sediment Analytical Results
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				Location	23A-0018-PLC1	23A-0019-B2C2	23A-0019-B2C2	23A-0019-B2C2	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC2	23A-0021-PLC1	23A-0021-PLC1
				Sample Name	23A-0018-PLC1-CS	23A-0019-B2C2-AS	23A-0019-B2C2-BS	23A-0019-B2C2-CS	23A-0020-PLC1-AS	23A-0020-PLC1-BS	23A-0020-PLC1-CS	23A-0020-PLC2-AS	23A-0021-PLC1-AS	23A-0021-PLC1-BS
				Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	4.4 - 5.5 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 4.3 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 UJ	< 1200 UJ	< 400 UJ	< 370 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 UJ	< 610 UJ	< 200 U	< 190 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 UJ	< 610 UJ	< 200 U	< 190 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 UJ	< 370 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		100 J	370 J	< 730 U	< 370 U	-	230 J	210 J	350 J	100 JEB	< 370 U
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	61 J	190 J	170 J	< 190 U	-	< 450 U	< 420 U	< 610 UJ	89 J	< 190 U
Caprolactam	105-60-2	ug/kg	3100000		< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 UJ	< 1200 UJ	< 400 U	< 370 U
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 UJ	< 610 UJ	< 200 U	< 190 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	100 J
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 200 U	< 700 UJ	< 380 U	< 190 U	-	< 450 U	< 420 U	< 610 UJ	< 200 U	< 190 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	175	< 380 U	< 1400 UJ	< 730 U	< 370 U	-	< 870 U	< 820 U	< 1200 UJ	< 400 U	< 370 U
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	-	-	-	-	-

Table 11
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Boston, Massachusetts

				Location	23A-0018-PLC1	23A-0019-B2C2	23A-0019-B2C2	23A-0019-B2C2	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC1	23A-0020-PLC2	23A-0021-PLC1	23A-0021-PLC1
				Sample Name	23A-0018-PLC1-CS	23A-0019-B2C2-AS	23A-0019-B2C2-BS	23A-0019-B2C2-CS	23A-0020-PLC1-AS	23A-0020-PLC1-BS	23A-0020-PLC1-CS	23A-0020-PLC2-AS	23A-0021-PLC1-AS	23A-0021-PLC1-BS
				Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	4.4 - 5.5 ft	0 - 0.5 ft	0.5 - 3.1 ft	3.1 - 4.3 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 4 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 7.6 U	< 27 UJ	< 15 U	< 7.3 U	-	< 17 U	< 16 R	< 24 UJ	< 7.9 U	< 7.3 U
1-Methylnaphthalene	90-12-0	ug/kg	18	141	1.1 J	< 14 UJ	< 7.3 U	< 3.7 U	-	< 8.7 U	< 8.2 U	< 12 UJ	2.8 JEB	< 3.7 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	1.9 J	4.3 J	1.8 J	< 3.7 U	-	< 8.7 U	< 8.2 U	< 12 UJ	3.6 JEB	0.96 JEB
Acenaphthene	83-32-9	ug/kg	360000	6.7	0.89 J	3.4 J	< 7.3 U	< 3.7 U	-	< 8.7 U	< 8.2 U	< 12 UJ	15	2.3 J
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	3.7 J	4.5 J	2.4 J	1.3 J	-	< 8.7 U	< 8.2 U	< 12 UJ	2.3 J	1.6 J
ANTHRACENE	120-12-7	ug/kg	1800000	57	2.4 J	5.8 J	3.4 J	1.1 J	-	< 8.7 U	< 8.2 U	< 12 UJ	18	5.2
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	21	34 J	22	5.6	-	< 8.7 U	3.6 J	11 J	80	13
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	17	29 J	20	4.7	-	< 8.7 U	< 8.2 U	7.4 J	32	10
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	24	62 J	27	6.4	-	< 8.7 U	5.1 J	19 J	81	12
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	1.5 J	8.2 J	11	3.3 J	-	< 8.7 U	< 8.2 U	< 12 UJ	1.9 J	6.3
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	14	22 J	9.4	2.4 J	-	< 8.7 U	3.1 J	7.3 J	34	5.1
CHRYSENE	218-01-9	ug/kg	110000	166	17	43 J	22	6.7	-	< 8.7 U	3.2 J	15 J	62	11
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	3.0 J	6.6 J	2.8 J	< 3.7 U	-	< 8.7 U	< 8.2 U	< 12 UJ	9.6	1.7 J
FLUORANTHENE	206-44-0	ug/kg	240000	423	38	88 J	36	12	-	< 8.7 U	6.9 J	29 J	170	28
FLUORENE	86-73-7	ug/kg	240000	77	1.5 J	3.2 J	3.5 J	< 3.7 U	-	< 8.7 U	< 8.2 UJ	< 12 UJ	13	2.6 J
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	9.2	23 J	9.2	2.6 J	-	< 8.7 U	< 8.2 U	6.9 J	23	5.6
Naphthalene	91-20-3	ug/kg	2000	176	7.2 EB	34 JEB	3.5 JEB	< 3.7 U	-	13 EB	9.2 EB	18 JEB	7.2 EB	1.8 JEB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 7.7 U	< 28 UJ	< 15 U	< 7.4 U	-	< 18 U	< 17 U	< 24 UJ	< 8.0 U	< 7.4 UJ
PHENANTHRENE	85-01-8	ug/kg	1800000	204	12	42 J	19	3.8	-	< 8.7 U	3.9 J	10 J	120	22
PYRENE	129-00-0	ug/kg	180000	195	37	69 J	34 J	11 J	-	< 8.7 U	7.0 J	22 J	110	22
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			5400	140000 J	53000	430	-	2800	4100	100000 J	4800	560
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			-	55 J	-	-	39	-	-	-	-	< 2.1 U
Cadmium	7440-43-9	umol/g			-	0.016 J	-	-	0.021	-	-	-	-	0.0022
Copper	7440-50-8	umol/g			-	0.47 J	-	-	0.48	-	-	-	-	0.16 EB
Lead	7439-92-1	umol/g			-	0.69 J	-	-	1.4	-	-	-	-	0.035
Nickel	7440-02-0	umol/g			-	0.54 J	-	-	0.16	-	-	-	-	0.058
Silver	7440-22-4	umol/g			-	0.00029 J	-	-	0.00053	-	-	-	-	0.00016
Zinc	7440-66-6	umol/g			-	4.1 J	-	-	4.7	-	-	-	-	0.19
Mercury	7439-97-6	umol/g			-	< 0.000093 UJ	-	-	< 0.000080 U	-	-	-	-	0.000015 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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				Location	23A-0022-PLC1	23A-0022-PLC1	23A-0022-PLC1	23A-0023-B2C2	23A-0023-B2C2	23A-0024-PLC2	23A-0025-B1C1	23A-0025-B1C1	23A-0026-B1C1	23A-0026-B1C1
				Sample Name	23A-0022-PLC1-AS	23A-0022-PLC1-BS	23A-0022-PLC1-CS	23A-0023-B2C2-AS	23A-0023-B2C2-BS	23A-0024-PLC2-AS	23A-0025-B1C1-AS	23A-0025-B1C1-BS	23A-0026-B1C1-AS	23A-0026-B1C1-BS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.8 ft	2.8 - 4 ft	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.3 ft	0 - 0.5 ft	0.5 - 1.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 1.9 U	< 1.9 U	< 1.8 U	< 2.4 U	< 2.4 U	-	< 2.1 U	< 2.3 U	< 3.2 U	< 2.0 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 1.9 U	< 1.9 U	< 1.8 U	< 2.4 U	< 2.4 U	-	< 2.1 U	< 2.3 U	< 3.2 U	< 2.0 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 1.9 U	< 1.9 U	< 1.8 U	< 2.4 U	< 2.4 U	-	< 2.1 U	< 2.3 U	< 3.2 U	< 2.0 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 1.9 U	< 1.9 U	< 1.8 U	< 2.4 U	< 2.4 U	-	< 2.1 U	< 2.3 U	< 3.2 U	< 2.0 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 3.6 U	< 3.6 U	< 3.6 U	< 4.8 U	< 4.6 U	-	< 4.2 U	< 4.4 U	< 6.2 U	< 3.8 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		< 1.9 U	< 1.9 U	< 1.8 U	< 2.4 U	< 2.4 U	-	< 2.1 U	5.2 J	< 3.2 U	< 2.0 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		5.1 J	7.0 J	0.40 J	50 J	110 J	-	20 J	45 J	19 J	8.9 J
DIELDRIN	60-57-1	ug/kg	34	1.9	< 3.6 U	< 3.6 U	< 3.6 U	< 4.8 U	< 4.6 U	-	< 4.2 U	< 4.4 U	< 6.2 U	< 3.8 U
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 3.6 U	< 3.6 U	< 3.6 U	< 4.8 U	< 4.6 U	-	< 4.2 U	< 4.4 U	< 6.2 U	< 3.8 U
ENDRIN	72-20-8	ug/kg	1900	2.22	1.5 J	2.1 J	< 3.6 U	< 4.8 U	< 4.6 U	-	1.8 J	3.8 J	< 6.2 U	1.5 J
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 3.6 U	< 3.6 U	< 3.6 U	< 4.8 U	< 4.6 U	-	< 4.2 U	< 4.4 U	< 6.2 U	< 3.8 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 3.6 U	< 3.6 U	< 3.6 U	< 4.8 U	< 4.6 U	-	< 4.2 U	< 4.4 U	< 6.2 U	< 3.8 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	3.0 J	2.3 J	< 1.8 U	16 J	24 J	-	18 J	29 J	15 J	5.3 J
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 1.9 U	< 1.9 U	< 1.8 U	< 2.4 U	< 2.4 U	-	< 2.1 U	< 2.3 U	< 3.2 U	< 2.0 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	2.1 J	4.0 J	0.31 J	11 J	< 2.4 U	-	7.5 J	11 J	< 3.2 U	< 2.0 U
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 19 U	< 19 U	< 18 U	< 25 U	< 24 U	-	< 21 U	< 23 U	< 32 U	< 20 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	1.9 J	1.9 J	< 3.6 U	< 4.8 U	< 4.6 U	-	3.3 J	7.4 J	< 6.2 U	2.7 J
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 3.6 U	< 3.6 U	< 3.6 U	< 4.8 U	< 4.6 U	-	< 4.2 U	< 4.4 U	< 6.2 U	< 3.8 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	4.8 J	9.6 J	0.89 J	16 J	34 J	-	7.1	13 J+	8.4 J+	6.0
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 190 U	< 190 U	< 180 U	< 250 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		3.7 J	6.3 J	0.69 J	16 J	45 J	-	< 2.1 U	8.8 J	< 3.2 U	< 2.0 U
Grain Size														
%CLAY	%CLAY	%			-	0	8.9	8	15.6	-	7	10.9	-	8.6
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			-	36.3	20.5	10	6.5	-	8.3	7.6	-	11.3
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			-	0	8.8	57.9	32.8	-	30.6	41.6	-	25.6
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			-	19.3	18.7	19.9	21.8	-	14	12	-	18.1
Gravel	GRAVEL	%			-	44.4	43.1	1.3	15.1	-	26.2	24.5	-	29.9
Hydrometer, Reading 1, Percent Passing	HYD01	%			-	9.5	9.4	13.2	19.2	-	10	14.6	-	10.2
Hydrometer, Reading 2, Percent Passing	HYD02	%			-	9.5	9.4	11.5	19.2	-	10	14.6	-	10.2
Hydrometer, Reading 3, Percent Passing	HYD03	%			-	9.5	9.4	11.5	19.2	-	8.5	12.9	-	10.2
Hydrometer, Reading 4, Percent Passing	HYD04	%			-	9.5	9.4	9.8	15.6	-	8.5	12.9	-	10.2
Hydrometer, Reading 5, Percent Passing	HYD05	%			-	9.5	9.4	8	15.6	-	7	11.2	-	8.6
Hydrometer, Reading 6, Percent Passing	HYD06	%			-	9.5	6.6	8	12	-	7	9.6	-	8.6
Hydrometer, Reading 7, Percent Passing	HYD07	%			-	9.5	6.6	6.3	12	-	7	9.6	-	8.6
Sand	308075-07-2	%			-	55.6	48	87.8	61.1	-	52.9	61.2	-	55
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			-	19.3	36.4	88.7	78.4	-	65.5	67.9	-	58.8
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			-	0	17.7	68.8	56.6	-	51.5	55.9	-	40.7
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			-	0	11.8	25.9	34	-	35	35.7	-	23.3
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			-	0.4	19.3	83.8	71.4	-	59.4	63.3	-	52.4
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			-	0	14	42.2	43.5	-	42	45.6	-	29.2
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			-	0	10.6	20.7	30.7	-	30.6	29.2	-	20.4
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			-	0	8.9	10.9	23.8	-	20.9	14.3	-	15.1
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			-	55.6	56.9	98.7	84.9	-	73.8	75.5	-	70.1
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			-	95.1	84.4	100	87.4	-	89.8	86.3	-	89.3
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			-	100	100	100	100	-	100	100	-	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			-	100	100	100	100	-	100	100	-	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			-	100	100	100	100	-	100	100	-	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			-	100	100	100	100	-	100	100	-	100
SILT	445	%			-	0	0	2.9	8.2	-	13.9	3.4	-	6.5

Table 11
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					Location	23A-0022-PLC1	23A-0022-PLC1	23A-0022-PLC1	23A-0023-B2C2	23A-0023-B2C2	23A-0024-PLC2	23A-0025-B1C1	23A-0025-B1C1	23A-0026-B1C1	23A-0026-B1C1
					Sample Name	23A-0022-PLC1-AS	23A-0022-PLC1-BS	23A-0022-PLC1-CS	23A-0023-B2C2-AS	23A-0023-B2C2-BS	23A-0024-PLC2-AS	23A-0025-B1C1-AS	23A-0025-B1C1-BS	23A-0026-B1C1-AS	23A-0026-B1C1-BS
					Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 2.8 ft	2.8 - 4 ft	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.3 ft	0 - 0.5 ft	0.5 - 1.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	90.6 J	38.5 J	8.99 J	868	1250	14.0	138	313	1020	82.3
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	1.8 J	0.986 J	0.432 J	17.4	24.0	< 0.573 UJ	2.46 J	5.4	17.8	2.66 JN
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	1.38 J	0.845 J	0.765 J	10.2 JN	14.2	< 0.615 U	2.5 J	3.12 JN	9.28	< 0.789 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	5.18 J	2.82 J	0.745 J	47.4 J	72.9 J	1.72	6.91 J	12 J	45.1 J	5.16 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	7.02 J	3.22 J	0.877 J	62.2	82.6	< 0.662 U	10.3	20.2	58.3	6.05
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	3.07 J	1.2 J	0.317 J	18.6 J+	27.5 J+	< 0.36 U	3.14 JN	6.67	21.2	2.78 J
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	3.33 J	1.38 J	0.438 JN	34.7	47.3	< 0.611 U	4.74 JN	11.3	29.1	3.54 J
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.212 UJ	< 0.206 UJ	< 0.182 UJ	< 0.943 U	< 0.967 U	< 0.477 U	< 1.14 U	< 1.29 U	< 1.22 U	< 0.68 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	0.618 JN	< 0.418 UJ	< 0.24 UJ	5.04 JN	6.61 JN	< 0.606 UJ	< 0.652 UJ	3.01 J	5.59 JN	< 0.844 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	1.13 J	0.689 J	< 0.134 UJ	10.1 J+	16.0 J+	< 0.77 U	1.45 JN	2.87 J	9.01	0.913 JN
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	51.8 J	25.5 J	5.50 J	557	567	8.69 J+	87.2 J+	184 J+	517 J+	54.4 J+
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	4.87 J	1.51 J	0.373 JN	22.9	31.5	< 0.423 U	4.45 J	7.59 JN	22.4	4.28 J
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	13.0 J	6.48 J	1.07 J	76.9	122	< 0.732 U	10.4 J+	18.8 J+	57.2 J+	8.64 J+
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 0.351 UJ	< 0.474 UJ	< 0.365 UJ	1.68	2.00 JN	< 1.90 UJ	< 0.897 U	1.93	2.26 JN	< 0.479 U
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	2.48 J	1.38 J	< 0.223 UJ	25.2	39.1	< 0.71 U	4.11	9.9	19.5	2.92
OCDD	3268-87-9	pg/g	16000	5000	591 J	184 J	46.2 J	4590	6840	88.5	732	1670	7270	497
OCDF	39001-02-0	pg/g	16000	5000	41.2 J	17.7 J	4.32 J	389	474	6.17 JN	63.6	154	510	41.1
Total HpCDD (a)	RA_Total_HpCDD	pg/g			90.6	38.5	8.99	868	1250	14.0	138	313	1020	82.3
Total HpCDF (a)	RA_Total_HpCDF	pg/g			53.6	26.5	5.93	574	591	8.69	89.7	189	535	57.1
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		11.7	5.45	2.08	107	144	< 0.662 U	17.5	34.6	96.7	9.59
Total HxCDF (a)	RA_Total_HxCDF	pg/g			13.1	5.53	1.44	88.9	132	1.72	14.5	26.3	88.7	12.2
Total PeCDD (a)	RA_Total_PeCDD	pg/g			0.618	< 0.418 U	< 0.24 U	5.04	6.61	< 0.606 U	< 0.652 U	3.01	5.59	< 0.844 U
Total PeCDF (a)	RA_Total_PeCDF	pg/g			14.1	7.17	1.07	87.0	138	< 0.77 U	11.9	21.7	66.2	9.55
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.351 U	< 0.474 U	< 0.365 U	1.68	2.00	< 1.9 U	< 0.897 U	1.93	2.26	< 0.479 U
Total TCDF (a)	RA_Total_TCDF	pg/g			2.48	1.38	< 0.223 U	25.2	39.1	< 0.71 U	4.11	9.9	19.5	2.92
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	8.40 JEB	16.2 JEB	0.841 JEB	256 JEB	316 JEB	66.9 JEB	74.6 JEB	113 JEB	1940 JEB	117 JEB
PCB-002	2051-61-8	ng/g	230	14.0	< 0.0514 U	0.615 JEB	< 0.0518 U	6.52 JEB	11.5 JEB	1.22 JEB	1.49 JEB	3.43 JEB	35.5 JEB	2.22 JEB
PCB-003	2051-62-9	ng/g	230	14.0	2.93 JEB	6.71 JEB	< 0.0504 U	46.8 JEB	51.9 JEB	33.2	7.91 J	17.6 J	502 J	25.2
PCB-004/010	PCB-4/10	ng/g	230	14.0	57.0 JEB	53.4 JEB	3.36 JEB	3460 JEB	5220 JEB	218 J	569 JEB	1350 JEB	14700 JEB	924 JEB
PCB-005/008	PCB-5/8	ng/g	230	14.0	58.1 JEB	108 JEB	4.82 JEB	2640 JEB	3890 JEB	146 J	407 JEB	1050 JEB	11400 JEB	746 JEB
PCB-006	25569-80-6	ng/g	230	14.0	17.0 JEB	33.5 EB	1.38 JEB	1230 JEB	2100 JEB	45.6 J	216 JEB	552 JEB	1680 JEB	197 JEB
PCB-007/009	PCB-7/9	ng/g	230	14.0	2.30 J	4.25 J	< 0.0871 U	285 J	461 J	8.66 J	37.2	100 J	471 J	45.8 J
PCB-011	2050-67-1	ng/g	230	14.0	3.49 JEB	4.98 JEB	0.205 JEB	69.7 JEB	231 JEB	10.8 JEB	16.6 JEB	41.5 JEB	179 JEB	16.4 JEB
PCB-012/013	PCB-12/13	ng/g	230	14.0	12.2 J	16.4 J	0.623 J	184 J	928 J	21.9	46.6 J	109 J	655 J	46.7 J
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0478 U	< 0.0481 U	< 0.0481 U	< 0.0496 U	< 0.0463 U	< 0.0478 U	< 0.0496 U	< 0.0480 U	< 0.195 U	< 0.0491 U
PCB-015	2050-68-2	ng/g	230	14.0	78.5 JEB	47.3 JEB	2.54 JEB	631 JEB	1570 JEB	313 J	223 J	444 J	5820 J	261 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	188 JEB	61.9 JEB	7.85 JEB	3520 JEB	8020 JEB	245 JEB	492 JEB	1130 JEB	6610 JEB	535 JEB
PCB-017	37680-66-3	ng/g	230	14.0	136 JEB	54.6 JEB	4.84 JEB	3500 JEB	8590 JEB	121 JEB	449 JEB	1050 JEB	7280 JEB	539 JEB
PCB-018	37680-65-2	ng/g	230	14.0	95.0 JEB	46.5 JEB	4.18 JEB	4230 JEB	8060 JEB	74.8 JEB	501 JEB	1320 JEB	1800 JEB	414 JEB
PCB-019	38444-73-4	ng/g	230	14.0	44.9 JEB	12.9 JEB	1.93 JEB	968 JEB	2130 JEB	85 J	152 J	367 J	3230 J	194 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	25.4 EB	18.2 JEB	1.20 JEB	916 JEB	1820 JEB	13 JEB	62.8 JEB	160 JEB	344 JEB	68.3 JEB
PCB-022	38444-85-8	ng/g	230	14.0	32.9 EB	24.1 EB	1.34 JEB	828 JEB	1170 JEB	17.3 JEB	92.5 JEB	217 JEB	643 JEB	78.6 JEB
PCB-023/034	PCB-23/34	ng/g	230	14.0	3.05 J	1.70 J	< 0.0869 U	71.1 J	184 J	2.04 J	9.78 J	21.9	77.3 J	8.92 J
PCB-024/027	PCB-24/27	ng/g	230	14.0	47.9 JEB	16.6 JEB	2.24 JEB	633 JEB	1460 JEB	54.6 J	94.9 J	223 J	1460 J	108 J
PCB-025	55712-37-3	ng/g	230	14.0	114 JEB	64.8 JEB	3.68 JEB	1940 JEB	4510 JEB	61.6 J	299 J	727 J	2850 J	289 J
PCB-026	38444-81-4	ng/g	230	14.0	143 JEB	73.1 JEB	6.81 JEB	2790 JEB	6320 JEB	82.8 J	412 JEB	1030 JEB	2750 JEB	372 JEB
PCB-028	7012-37-5	ng/g	230	14.0	318 JEB	166 JEB	13.6 JEB	6270 JEB	15500 JEB	173 JEB	577 JEB	1460 JEB	6500 JEB	759 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0498 U	< 0.0502 U	< 0.0502 U	5.33 J	9.18 J	< 0.0499 U	< 0.0518 U	< 0.0501 U	< 0.204 U	< 0.0513 U

Table 11
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Boston, Massachusetts

					Location	23A-0022-PLC1	23A-0022-PLC1	23A-0022-PLC1	23A-0023-B2C2	23A-0023-B2C2	23A-0024-PLC2	23A-0025-B1C1	23A-0025-B1C1	23A-0026-B1C1	23A-0026-B1C1
					Sample Name	23A-0022-PLC1-AS	23A-0022-PLC1-BS	23A-0022-PLC1-CS	23A-0023-B2C2-AS	23A-0023-B2C2-BS	23A-0024-PLC2-AS	23A-0025-B1C1-AS	23A-0025-B1C1-BS	23A-0026-B1C1-AS	23A-0026-B1C1-BS
					Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 2.8 ft	2.8 - 4 ft	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.3 ft	0 - 0.5 ft	0.5 - 1.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0457 U	< 0.0460 U	< 0.0460 U	2.08 J	7.53 J	< 0.0458 U	< 0.0475 U	0.564 J	5.71 J	< 0.0470 U
PCB-031	16606-02-3	ng/g	230	14.0	238 JEB	135 JEB	9.55 JEB	5010 JEB	13600 JEB	136 JEB	659 JEB	1580 JEB	5620 JEB	607 JEB
PCB-035	37680-69-6	ng/g	230	14.0	1.23 J+	0.791 J+	< 0.0546 U	28.5 J+	81.1 J	0.878 J+	2.67 J+	3.83 J+	35.6 J+	2.10 J+
PCB-036	38444-87-0	ng/g	230	14.0	0.984 J	< 0.0466 U	< 0.0466 U	26.5	50.9 J	< 0.0463 U	1.78 J	5.71 J	14.6 J	2.79 J
PCB-037	38444-90-5	ng/g	230	14.0	33.3 J	18.9 J	1.70 J	571 J	792 J	25.8	56.7 J	116 J	655 J	54.1 J
PCB-038	53555-66-1	ng/g	230	14.0	5.18 J	2.07 J	< 0.0386 U	64.1 J	150 J	2.39 J	7.40 J	15.0 J	67.1 J	6.89 J
PCB-039	38444-88-1	ng/g	230	14.0	0.743 J	0.561 J	< 0.0237 U	13.7 J	41.7 J	< 0.0235 U	2.05 J	4.25 J	20.7 J	1.72 J
PCB-040	38444-93-8	ng/g	230	14.0	19.5	8.07 J	1.19 J	388 J	608 J	6.84 J	31.4 EB	90.9 JEB	165 JEB	39.1 JEB
PCB-041/064	PCB-41/64	ng/g	230	14.0	84.8 J	37.9 J	5.17 J	1330 J	2180 J	32	120 J	321 J	944 J	129 J
PCB-042	36559-22-5	ng/g	230	14.0	84.5 J	35.0	4.93 J	1010 J	1960 J	29.4	127 J	308 J	714 J	102 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	307 JEB	125 JEB	17.6 JEB	3580 JEB	7540 JEB	111 J	496 JEB	1100 JEB	3060 JEB	401 JEB
PCB-044	41464-39-5	ng/g	230	14.0	159 JEB	64.3 JEB	9.18 JEB	2540 JEB	4510 JEB	54.1 JEB	268 JEB	714 JEB	1170 JEB	261 JEB
PCB-045	70362-45-7	ng/g	230	14.0	18.8 J	6.25 J	0.927 J	479 J	883 J	7.53 J	31.8	94.6 J	326 J	49.0 J
PCB-046	41464-47-5	ng/g	230	14.0	15.8 J	5.21 J	0.842 J	194 J	378 J	6.42 J	30.9	71.0 J	124	20.9
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	197 JEB	79.4 JEB	11.0 JEB	2200 JEB	5230 JEB	84.7 J	290 JEB	577 JEB	2720 JEB	258 JEB
PCB-050	62796-65-0	ng/g	230	14.0	1.87 J	< 0.0613 U	< 0.0613 U	21.1	55.3 J	1.18 J	3.36 J	6.94 J	40.0 J	3.28 J
PCB-051	68194-04-7	ng/g	230	14.0	37.2	11.2 J	1.76 J	377 J	897 J	18.8 J	67.5 J	135 J	640 J	53.0 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	258 JEB	102 JEB	14.5 JEB	3630 JEB	7390 JEB	98.3 JEB	462 JEB	1120 JEB	2350 JEB	392 JEB
PCB-053	41464-41-9	ng/g	230	14.0	72.7 JEB	22.6 EB	3.50 JEB	1000 JEB	2060 JEB	36.4	159 J	359 J	890 J	118 J
PCB-054	15968-05-5	ng/g	230	14.0	2.50 J	0.700 J	0.125 J	30	68 J	1.91 J	5.52 J	11.9 J	57.0 J	4.71 J
PCB-055	74338-24-2	ng/g	230	14.0	1.13 J	< 0.0529 U	< 0.0529 U	27.7	34 J+	0.569 J	1.07 J	3.02 J	12.1 J	2.04 J
PCB-056/060	PCB-56/60	ng/g	230	14.0	54.4 JEB	42.8 JEB	4.40 JEB	715 JEB	820 JEB	27.4	30.4 EB	48.7 JEB	286 JEB	35.6 EB
PCB-057	70424-67-8	ng/g	230	14.0	5.64 J	2.93 J	0.317 J	53.9 J	94.5 J	1.37 J	8.74 J	21.5	50.1 J	8.56 J
PCB-058	41464-49-7	ng/g	230	14.0	0.889 J	0.546 J	< 0.0370 U	12 J	20.8 J+	< 0.0368 U	0.880 J	2.04 J	6.73 J	0.832 J
PCB-059	74472-33-6	ng/g	230	14.0	9.79 J	3.46 J	0.523 J	162 J	274 J	3.39 J	9.99 J	27.5	106	18.8 J
PCB-061/074	PCB-61/74	ng/g	230	14.0	66.8 J	54.1 J	4.85 J	1310 J	1940 J	33.1	76.8 JEB	154 JEB	713 JEB	75.0 JEB
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0502 U	< 0.0506 U	< 0.0506 U	< 0.0522 U	< 0.0487 U	< 0.0503 U	< 0.0522 U	< 0.0505 U	< 0.205 U	< 0.0516 U
PCB-063	74472-34-7	ng/g	230	14.0	16.2 J	11.0 J	0.895 J	205 J	337 J	5.85 J	25.6	55.9 J	185 J	23.1
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0724 U	< 0.0730 U	< 0.0729 U	1.01 J	3.12 J+	< 0.0725 U	< 0.0753 U	< 0.0727 U	< 0.296 U	< 0.0744 U
PCB-066/080	PCB-66/80	ng/g	230	14.0	112 JEB	77.6 JEB	9.41 JEB	1280 JEB	2650 JEB	49.1 JEB	75.5 JEB	115 JEB	688 JEB	67.7 JEB
PCB-067	73575-53-8	ng/g	230	14.0	5.51 J	4.05 J	0.431 J	115 J	188 J	2.15 J	5.43 J	12.4 J	45.5 J	6.43 J
PCB-068	73575-52-7	ng/g	230	14.0	2.54 J	1.68 J	< 0.0529 U	1260 J	< 0.0509 UJ	1.15 J	5.11 J	9.19 J	37.9 J	< 0.0540 U
PCB-069	60233-24-1	ng/g	230	14.0	1.02 J	< 0.0550 U	< 0.0550 U	7.6 J	21.4 J+	< 0.0547 U	1.41 J	2.65 J	18.0 J	1.19 J
PCB-070	32598-11-1	ng/g	230	14.0	101 JEB	74.1 JEB	9.52 JEB	1150 JEB	2640 JEB	45.5 JEB	59.8 JEB	80.4 JEB	535 JEB	57.3 JEB
PCB-071	41464-46-4	ng/g	230	14.0	60.4 JEB	23.9 EB	3.37 JEB	988 JEB	2030 JEB	32	154 JEB	331 JEB	853 JEB	110 JEB
PCB-072	41464-42-0	ng/g	230	14.0	5.26 J	2.46 J	0.353 J	45.5 J	96.8 J	1.67 J	8.09 J	17.5 J	57.4 J	6.73 J
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0726 U	< 0.0732 U	< 0.0731 U	< 0.0754 U	< 0.0704 U	< 0.0727 U	< 0.0755 U	< 0.0729 U	< 0.297 U	< 0.0746 U
PCB-077	32598-13-3	ng/g	38.0	14.0	15.0 J+	11.3 J+	1.39 J+	165 J	313 J	7.29 J+	14.6 J+	24.8 J+	128 J+	13.3 J+
PCB-078	70362-49-1	ng/g	230	14.0	0.525 J	< 0.0374 U	< 0.0374 U	5.75 J	8.51 J+	< 0.0372 U	0.594 J	1.54 J	3.53 J	0.570 J
PCB-079	41464-48-6	ng/g	230	14.0	0.863 J	< 0.0470 U	< 0.0470 U	< 0.0485 U	< 0.0452 U	< 0.0467 U	< 0.0485 U	< 0.0468 U	< 0.191 U	< 0.0479 U
PCB-081	70362-50-4	ng/g	12.0	14.0	1.28 J+	0.942 J+	< 0.0733 U	15.8 J+	25.4 J+	< 0.0729 U	0.707 J+	1.54 J+	7.05 J+	1.05 J+
PCB-082	52663-62-4	ng/g	230	14.0	10.1 J	7.63 J	1.00 J	151 J	229 J	4.03 J	8.12 J	20.0	61.7 J	10.1 J
PCB-083/109	PCB-83/109	ng/g	230	14.0	7.39 J	4.95 J	0.792 J	91.1 J	168 J	2.42 J	8.78 J	21.2	56.5 J	8.56 J
PCB-084	52663-60-2	ng/g	230	14.0	25.0 J	14.2 J	2.15 J	393 J	722 J	8.98 J	30.7	81.1 J	200 J	35.4
PCB-085/120	PCB-85/120	ng/g	230	14.0	20.5	16.3 J	2.26 J	264 J	380 J	8.47 J	16.4 J	38.4 J	130	18.6 J
PCB-086/097	PCB-86/97	ng/g	230	14.0	23.3	17.9 J	2.49 J	344 J	631 J	9.6 J	17.0 J	36.5	132	17.8 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	< 0.0292 U	< 0.0294 U	< 0.0294 U	< 0.0303 U	< 0.0283 U	< 0.0292 U	< 0.0303 U	< 0.0293 U	< 0.119 U	< 0.0300 U
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.106 U	< 0.106 U	< 0.106 U	5.56 J	10.3 J	< 0.106 U	< 0.110 U	< 0.106 U	< 0.431 U	< 0.109 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	66.7 J	48.8 J	7.03 J	917 J	1690 J	25.2	52.6 J	110 J	391 J	53.3 J
PCB-091	68194-05-8	ng/g	230	14.0	28.3	16.2 J	2.50 J	337 J	676 J	9.82 J	37.0	84.0 J	263 J	33.4

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0022-PLC1	23A-0022-PLC1	23A-0022-PLC1	23A-0023-B2C2	23A-0023-B2C2	23A-0024-PLC2	23A-0025-B1C1	23A-0025-B1C1	23A-0026-B1C1	23A-0026-B1C1
					Sample Name	23A-0022-PLC1-AS	23A-0022-PLC1-BS	23A-0022-PLC1-CS	23A-0023-B2C2-AS	23A-0023-B2C2-BS	23A-0024-PLC2-AS	23A-0025-B1C1-AS	23A-0025-B1C1-BS	23A-0026-B1C1-AS	23A-0026-B1C1-BS
					Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 2.8 ft	2.8 - 4 ft	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.3 ft	0 - 0.5 ft	0.5 - 1.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-092	52663-61-3	ng/g	230	14.0	22.1	13.7 J	2.00 J	235 J	436 J	6.47 J	27.5	61.4 J	167 J	25.0
PCB-093/095	PCB-93/95	ng/g	230	14.0	60.5 J	33.9 J	4.94 J	1010 J	1900 J	22.5	74.9 J	204 J	555 J	94.6 J
PCB-094	73575-55-0	ng/g	230	14.0	2.63 J	1.33 J	0.189 J	26.4	53.1 J	0.931 J	4.01 J	8.47 J	25.0 J	3.21 J
PCB-096	73575-54-9	ng/g	230	14.0	2.38 J	1.20 J	0.180 J	35.1	68.6 J	0.814 J	3.23 J	8.19 J	24.4 J	3.44 J
PCB-098/102	PCB-98/102	ng/g	230	14.0	8.46 J	4.82 J	0.697 J	133 J	275 J	3.25 J	12.9 J	30.0	92.5	12.3 J
PCB-099	38380-01-7	ng/g	230	14.0	44.8 J	34.6	4.83 J	613 J	1230 J	17.1 J	37.2	73.1 J	298 J	33.4
PCB-100	39485-83-1	ng/g	230	14.0	1.91 J	1.05 J	0.140 J	12.6 J	27.8	0.652 J	2.88 J	5.20 J	20.6 J	2.09 J
PCB-103	60145-21-3	ng/g	230	14.0	2.33 J	1.18 J	0.162 J	21.3	45.4 J	0.76 J	3.41 J	7.07 J	21.8 J	2.58 J
PCB-104	56558-16-8	ng/g	230	14.0	< 0.0443 U	< 0.0447 U	< 0.0447 U	0.666 J	1.43 J	< 0.0444 U	< 0.0461 U	0.278 J	1.28 J	< 0.0456 U
PCB-105/127	PCB-105/127	ng/g	120	14.0	29.6	26.3	3.05 J	393 J	628 J	12.5 J	17.5 J	36.7	163 J	20.0
PCB-106/118	PCB-106/118	ng/g	120	14.0	69.6 J	59.8 J	7.89 J	818 J	1510 J	26	43.8 J	80.6 J	384 J	42.6 J
PCB-107/108	PCB-107/108	ng/g	230	14.0	6.91 J	6.01 J	0.870 J	81 J	161 J	2.44 J	5.26 J	10.1 J	45.3 J	4.75 J
PCB-110	38380-03-9	ng/g	230	14.0	108 JEB	73.0 JEB	10.4 JEB	1480 JEB	2870 JEB	37.1	125 JEB	309 JEB	842 JEB	134 JEB
PCB-111/117	PCB-111/117	ng/g	230	14.0	26.7	20.0	2.80 J	387 J	655 J	11.7 J	23.7	54.0 J	189 J	27.8
PCB-112	74472-36-9	ng/g	230	14.0	0.706 J	0.497 J	< 0.0460 U	7.61 J	17.3 J	< 0.0458 U	0.883 J	1.89 J	7.45 J	0.814 J
PCB-113	68194-10-5	ng/g	230	14.0	0.748 J	< 0.0483 U	< 0.0483 U	10.6 J	22.5	< 0.0480 U	1.27 J	3.45 J	8.33 J	1.58 J
PCB-114	74472-37-0	ng/g	120	14.0	2.34 J	2.23 J	< 0.0401 U	35.3	58.8 J	1.11 J	1.83 J	3.46 J	15.2 J	1.70 J
PCB-119	56558-17-9	ng/g	230	14.0	5.93 J	3.80 J	0.620 J	55.4 J	122 J	1.82 J	7.94 J	16.6 J	49.4 J	6.26 J
PCB-122	76842-07-4	ng/g	230	14.0	1.07 J	0.765 J	< 0.0338 U	11.6 J	19.6	< 0.0336 U	0.551 J	1.29 J	5.90 J	0.476 J
PCB-123	65510-44-3	ng/g	120	14.0	2.11 J+	1.60 J+	< 0.0313 U	24.8 J+	46.8 J	0.853 J+	1.65 J+	2.97 J+	13.3 J+	1.59 J+
PCB-124	70424-70-3	ng/g	230	14.0	2.05 J	1.86 J	0.217 J	27.4	47.9 J	0.935 J	1.31 J	2.24 J	10.1 J	1.23 J
PCB-125	74472-39-2	ng/g	230	14.0	0.523 J	< 0.0462 U	< 0.0462 U	6.45 J	16.9 J	< 0.0459 U	< 0.0477 U	< 0.0461 U	< 0.187 U	< 0.0472 U
PCB-126	57465-28-8	ng/g	0.0360	14.0	0.690 J+	< 0.0657 U	< 0.0657 U	7.04 J+	11.9 J+	< 0.0653 U	< 0.0678 U	< 0.0655 U	< 0.266 U	< 0.0670 U
PCB-128	38380-07-3	ng/g	230	14.0	6.32 J	4.73 J	0.757 J	73.9 J	120 J	2.05 J	5.96 J	11.8 J	44.6 J	6.40 J
PCB-129	55215-18-4	ng/g	230	14.0	1.56 J	1.24 J	< 0.0510 U	19.1 J	30.3	< 0.0507 U	1.07 J	2.35 J	9.87 J	1.25 J
PCB-130	52663-66-8	ng/g	230	14.0	2.67 J	2.14 J	0.294 J	29.8	51.1 J	0.792 J	2.96 J	5.97 J	19.0 J	2.97 J
PCB-131/142	PCB-131/142	ng/g	230	14.0	0.473 J	0.367 J	< 0.0987 U	6.38 J	11 J	< 0.0981 U	0.435 J	1.09 J	3.87 J	< 0.101 U
PCB-132/168	PCB-132/168	ng/g	230	14.0	11.7 J	8.92 J	1.31 J	145 J	246 J	3.74 J	12.0 J	27.2	82.9	13.6 J
PCB-133	35694-04-3	ng/g	230	14.0	1.00 J	0.683 J	< 0.0359 U	7.21 J	13.2 J	< 0.0357 U	1.20 J	2.46 J	6.14 J	0.964 J
PCB-134	52704-70-8	ng/g	230	14.0	2.18 J	1.58 J	< 0.0951 U	23.2	40.8 J	< 0.0945 U	2.19 J	4.98 J	15.6 J	2.39 J
PCB-135/144	PCB-135/144	ng/g	230	14.0	5.74 J	4.15 J	0.564 J	66.8 J	115 J	1.86 J	6.29 J	14.5 J	41.4 J	6.63 J
PCB-136	38411-22-2	ng/g	230	14.0	4.42 J	2.99 J	0.505 J	52.3 J	90 J	1.48 J	4.53 J	10.7 J	32.3 J	5.04 J
PCB-137	35694-06-5	ng/g	230	14.0	2.15 J	1.71 J	0.231 J	26	44.1 J	0.904 J	1.83 J	3.45 J	16.2 J	1.94 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	35.9	28.1	4.02 J	390 J	623 J	11.7 J	33.0	64.8 J	239 J	34.2
PCB-139/149	PCB-139/149	ng/g	230	14.0	23.9	17.6 J	2.62 J	274 J	474 J	7.45 J	24.7	54.6 J	169 J	25.5
PCB-140	59291-64-4	ng/g	230	14.0	< 0.0675 U	< 0.0680 U	< 0.0680 U	3.41 J	6.13 J	< 0.0676 U	< 0.0701 U	< 0.0678 U	< 0.276 U	< 0.0694 U
PCB-141	52712-04-6	ng/g	230	14.0	4.62 J	3.69 J	0.492 J	59.9 J	91.2 J	1.75 J	3.63 J	6.76 J	30.4 J	4.03 J
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0608 U	< 0.0613 U	< 0.0613 U	1.98 J	3.31 J	< 0.0609 U	< 0.0632 U	< 0.0611 U	< 0.249 U	< 0.0626 U
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0804 U	< 0.0810 U	< 0.0810 U	0.456 J	1.05 J	< 0.0805 U	< 0.0835 U	< 0.0807 U	< 0.328 U	< 0.0826 U
PCB-146	51908-16-8	ng/g	230	14.0	4.67 J	3.68 J	0.588 J	49.1 J	83.8 J	1.25 J	4.85 J	10.3 J	31.3 J	4.52 J
PCB-147	68194-13-8	ng/g	230	14.0	1.99 J	1.21 J	0.192 J	13.1 J	24.7	0.513 J	2.64 J	4.67 J	16.2 J	1.82 J
PCB-148	74472-41-6	ng/g	230	14.0	< 0.0743 U	< 0.0749 U	< 0.0749 U	0.944 J	1.8 J	< 0.0744 U	0.192 J	0.455 J	< 0.304 U	< 0.0764 U
PCB-150	68194-08-1	ng/g	230	14.0	0.161 J	< 0.0756 U	< 0.0756 U	1 J	1.98 J	< 0.0752 U	0.213 J	0.369 J	1.29 J	< 0.0772 U
PCB-151	52663-63-5	ng/g	230	14.0	6.46 J	4.53 J	0.703 J	72.7 J	123 J	2.01 J	7.33 J	16.2 J	47.2 J	7.09 J
PCB-152	68194-09-2	ng/g	230	14.0	0.161 J	< 0.0884 U	< 0.0884 U	1.67 J	3.23 J	< 0.0879 U	0.263 J	0.504 J	1.62 J	< 0.0902 U
PCB-153	35065-27-1	ng/g	230	14.0	22.4	17.3 J	2.66 J	249 J	402 J	7.21 J	18.7 J	36.1	142	19.0 J
PCB-154	60145-22-4	ng/g	230	14.0	1.04 J	0.710 J	0.108 J	7.78 J	14.2 J	0.245 J	1.24 J	2.69 J	7.21 J	0.977 J
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0451 U	< 0.0455 U	< 0.0454 U	< 0.0469 U	< 0.0438 U	< 0.0452 U	< 0.0469 U	< 0.0453 U	< 0.184 U	< 0.0464 U
PCB-156	38380-08-4	ng/g	120	14.0	3.91 J-	3.14 J-	0.439 J-	41.9 J	69 J	1.18 J	2.69 J	5.29 J	23.9 J	3.10 J
PCB-157	69782-90-7	ng/g	120	14.0	0.985 J	0.824 J	0.117 J	11.1 J+	18.3 J+	< 0.0528 U	0.910 J+	1.72 J+	7.25 J+	0.922 J+

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0022-PLC1	23A-0022-PLC1	23A-0022-PLC1	23A-0023-B2C2	23A-0023-B2C2	23A-0024-PLC2	23A-0025-B1C1	23A-0025-B1C1	23A-0026-B1C1	23A-0026-B1C1
				Sample Name	23A-0022-PLC1-AS	23A-0022-PLC1-BS	23A-0022-PLC1-CS	23A-0023-B2C2-AS	23A-0023-B2C2-BS	23A-0024-PLC2-AS	23A-0025-B1C1-AS	23A-0025-B1C1-BS	23A-0026-B1C1-AS	23A-0026-B1C1-BS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.8 ft	2.8 - 4 ft	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.3 ft	0 - 0.5 ft	0.5 - 1.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-158/160	PCB-158/160	ng/g	230	14.0	3.42 J	2.69 J	0.352 J	41.6 J	70.9 J	1.18 J	3.09 J	5.96 J	24.5 J	3.43 J
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0728 U	< 0.0734 U	< 0.0733 U	2.37 J	3.53 J	< 0.0729 U	< 0.0757 U	< 0.0731 U	< 0.297 U	< 0.0748 U
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0680 U	< 0.0686 U	< 0.0686 U	< 0.0707 U	< 0.0660 U	< 0.0682 U	< 0.0707 U	< 0.0684 U	< 0.278 U	< 0.0700 U
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0536 U	< 0.0541 U	< 0.0540 U	1.98 J	3.6 J	< 0.0537 U	< 0.0558 U	< 0.0539 U	< 0.219 U	< 0.0552 U
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0735 U	< 0.0741 U	< 0.0741 U	0.731 J	1.18 J	< 0.0737 U	< 0.0764 U	< 0.0739 U	< 0.301 U	< 0.0756 U
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0633 U	< 0.0638 U	< 0.0638 U	2.37 J	4.05 J	< 0.0634 U	< 0.0658 U	< 0.0636 U	< 0.259 U	< 0.0651 U
PCB-167	52663-72-6	ng/g	120	14.0	1.30 J	1.19 J	0.166 J	14.5 J	24	0.363 J	0.952 J+	2.09 J+	9.40 J+	1.09 J+
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0536 U	< 0.0541 U	< 0.0540 U	< 0.0557 U	< 0.0520 U	< 0.0537 U	< 0.0558 U	< 0.0539 U	< 0.219 U	< 0.0552 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	7.07 J	5.64 J	0.953 J	81.6 J	125 J	1.75 J	6.93 J	13.6 J	47.6 J	6.10 J
PCB-171	52663-71-5	ng/g	230	14.0	1.73 J	1.46 J	0.195 J	19.7	30.6	0.475 J	1.84 J	3.68 J	12.5 J	1.66 J
PCB-172/192	PCB-172/192	ng/g	230	14.0	1.00 J	0.801 J	< 0.117 U	10.8 J	16.5 J	< 0.117 U	0.966 J	1.97 J	6.83 J	0.941 J
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0785 U	< 0.0791 U	< 0.0791 U	1.6 J	2.44 J	< 0.0786 U	< 0.0816 U	< 0.0788 U	< 0.321 U	< 0.0807 U
PCB-174	38411-25-5	ng/g	230	14.0	5.49 J	4.23 J	0.676 J	66.1 J	99.1 J	1.47 J	5.28 J	10.7 J	37.2 J	4.91 J
PCB-175	40186-70-7	ng/g	230	14.0	0.243 J	< 0.0609 U	< 0.0609 U	2.69 J	4.2 J	< 0.0606 U	0.250 J	0.604 J	1.76 J	0.242 J
PCB-176	52663-65-7	ng/g	230	14.0	0.659 J	0.599 J	0.0932 J	7.84 J	12.6 J	0.186 J	0.730 J	1.57 J	4.67 J	0.641 J
PCB-177	52663-70-4	ng/g	230	14.0	3.71 J	2.82 J	0.451 J	41.3 J	63.7 J	0.826 J	3.97 J	8.41 J	25.3 J	3.45 J
PCB-178	52663-67-9	ng/g	230	14.0	1.45 J	1.10 J	0.164 J	15.1 J	23.7	0.332 J	1.61 J	3.54 J	9.91 J	1.40 J
PCB-179	52663-64-6	ng/g	230	14.0	2.23 J	1.85 J	0.289 J	26	41.4 J	0.607 J	2.54 J	5.37 J	15.7 J	2.26 J
PCB-180	35065-29-3	ng/g	230	14.0	12.4 J	9.87 J	1.64 J	150 J	227 J	3.29 J	12.0 J	24.1	85.8	10.8 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0536 U	< 0.0541 U	< 0.0540 U	< 0.0557 U	< 0.0520 U	< 0.0537 U	< 0.0558 U	< 0.0539 U	< 0.219 U	< 0.0552 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	7.13 J	5.55 J	0.945 J	79.8 J	125 J	1.91 J	7.88 J	16.4 J	50.6 J	6.86 J
PCB-183	52663-69-1	ng/g	230	14.0	2.98 J	2.33 J	0.365 J	34.5	53.7 J	0.87 J	3.03 J	6.30 J	21.0 J	2.87 J
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0508 U	< 0.0512 U	< 0.0512 U	< 0.0528 U	< 0.0493 U	< 0.0509 U	< 0.0528 U	< 0.0510 U	< 0.208 U	< 0.0522 U
PCB-185	52712-05-7	ng/g	230	14.0	0.653 J	0.522 J	< 0.0708 U	8.04 J	11.6 J	< 0.0704 U	0.618 J	1.20 J	4.24 J	0.548 J
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0635 U	< 0.0640 U	< 0.0640 U	< 0.0660 U	< 0.0616 U	< 0.0636 U	< 0.0660 U	< 0.0638 U	< 0.259 U	< 0.0653 U
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0582 U	< 0.0586 U	< 0.0586 U	< 0.0605 U	< 0.0565 U	< 0.0583 U	< 0.0605 U	< 0.0585 U	< 0.238 U	< 0.0598 U
PCB-189	39635-31-9	ng/g	130	14.0	0.387 J	0.223 J	< 0.0596 U	3.59 J	5.08 J	< 0.0592 U	0.294 J	0.619 J	< 0.242 U	< 0.0608 U
PCB-191	74472-50-7	ng/g	230	14.0	0.230 J	0.158 J	< 0.0539 U	2.66 J	4.02 J	< 0.0535 U	0.259 J	0.443 J	1.62 J	< 0.0550 U
PCB-193	69782-91-8	ng/g	230	14.0	0.653 J	0.551 J	0.0852 J	7.23 J	10.3 J	< 0.0676 U	0.665 J	1.25 J	4.23 J	< 0.0694 U
PCB-194	35694-08-7	ng/g	230	14.0	4.12 J	3.68 J	0.660 J	47.5 J	74.2 J	< 0.0854 U	3.84 J	8.30 J	29.2 J	3.65 J
PCB-195	52663-78-2	ng/g	230	14.0	1.42 J	1.23 J	< 0.152 U	15.3 J	24.2	< 0.151 U	1.54 J	2.89 J	10.3 J	1.24 J
PCB-196/203	PCB-196/203	ng/g	230	14.0	4.09 J	3.20 J	0.598 J	44.6 J	71.6 J	1.06 J	4.15 J	8.57 J	30.0 J	3.90 J
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0639 U	< 0.0644 U	< 0.0644 U	1.4 J	2.04 J	< 0.0640 U	< 0.0664 U	0.242 J	< 0.261 U	< 0.0657 U
PCB-198	68194-17-2	ng/g	230	14.0	< 0.104 U	< 0.104 U	< 0.104 U	2.2 J	3.23 J	< 0.104 U	< 0.108 U	< 0.104 U	< 0.424 U	< 0.107 U
PCB-199	52663-75-9	ng/g	230	14.0	3.38 J	2.72 J	0.645 J	37.1	60.8 J	0.803 J	3.63 J	7.07 J	25.5 J	3.27 J
PCB-200	52663-73-7	ng/g	230	14.0	0.368 J	< 0.0512 U	< 0.0512 U	4.32 J	7 J	< 0.0509 U	0.362 J	0.968 J	2.65 J	0.386 J
PCB-201	40186-71-8	ng/g	230	14.0	0.428 J	0.240 J	< 0.0405 U	4.43 J	6.99 J	< 0.0402 U	0.454 J	0.961 J	2.91 J	0.374 J
PCB-202	2136-99-4	ng/g	230	14.0	0.548 J	0.399 J	< 0.0691 U	6.3 J	10.1 J	< 0.0687 U	0.565 J	1.43 J	5.31 J	0.590 J
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0840 U	< 0.0846 U	< 0.0846 U	< 0.0872 U	< 0.0815 U	< 0.0841 U	< 0.0873 U	< 0.0844 U	< 0.343 U	< 0.0863 U
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0595 U	< 0.0600 U	< 0.0600 U	2.31 J	3.46 J	< 0.0596 U	< 0.0619 U	< 0.0598 U	< 0.243 U	< 0.0612 U
PCB-206	40186-72-9	ng/g	230	14.0	1.44 J	0.941 J	0.197 J	18.2 J	29	< 0.0571 U	1.64 J	4.13 J	16.1 J	1.75 J
PCB-207	52663-79-3	ng/g	230	14.0	0.152 J	< 0.0760 U	< 0.0760 U	1.94 J	2.76 J	< 0.0756 U	< 0.0784 U	0.334 J	1.49 J	< 0.0776 U
PCB-208	52663-77-1	ng/g	230	14.0	0.391 J	0.252 J	< 0.0760 U	4.85 J	7.51 J	< 0.0756 U	0.404 J	1.21 J	5.24 J	0.460 J
PCB-209	2051-24-3	ng/g	230	14.0	0.750 J	< 0.0437 U	< 0.0437 U	7.42 J	11.2 J	< 0.0435 U	0.644 J	1.89 J	7.68 J	0.675 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	0.750	< 0.0437 U	< 0.0437 U	7.42	11.2	< 0.0435 U	0.644	1.89	7.68	0.675
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	48.0	37.7	5.86	559	856	11.7	48.9	99.8	329	42.7
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	149	113	16.1	1690	2810	45.7	143	297	1020	147
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	14.4	11.5	1.90	165	264	1.86	14.5	30.4	106	13.4
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	4180	2370	260	74900	151000	2930	8820	20800	99900	9480
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	583	414	57.2	7930	14700	215	567	1310	4170	597
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	229	268	12.9	8500	14400	764	1520	3650	34900	2240
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	11.3	23.5	0.841	309	379	101	84.0	134	2480	144
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	1.98	1.19	0.197	25.0	39.3	< 0.0756 U	2.04	5.67	22.8	2.21
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	1720	808	106	24300	45300	699	2570	5820	16900	2260
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	1430	698	58.9	31400	72500	1100	3870	9430	40000	4040

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0022-PLC1	23A-0022-PLC1	23A-0022-PLC1	23A-0023-B2C2	23A-0023-B2C2	23A-0024-PLC2	23A-0025-B1C1	23A-0025-B1C1	23A-0026-B1C1	23A-0026-B1C1
				Sample Name	23A-0022-PLC1-AS	23A-0022-PLC1-BS	23A-0022-PLC1-CS	23A-0023-B2C2-AS	23A-0023-B2C2-BS	23A-0024-PLC2-AS	23A-0025-B1C1-AS	23A-0025-B1C1-BS	23A-0026-B1C1-AS	23A-0026-B1C1-BS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.8 ft	2.8 - 4 ft	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.3 ft	0 - 0.5 ft	0.5 - 1.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	5300	5100	4700	8100	6800	3500	2900	3400	4400	4400
Calcium	7440-70-2	mg/kg			2400	2400	1400	2000	1700	1100	1200	1800	3100	1300
Iron	7439-89-6	mg/kg	5500	20000	32000	11000	6800	20000	13000	11000	9500	7000	21000	13000
Magnesium	7439-95-4	mg/kg			1600	2900	2400	2900	2600	1500	1200	1500	1700	2700
Potassium	7440-09-7	mg/kg			260 J	320 J	250 J	670 J	430 J	170 J	180 J	310 J	330 J	240 J
Sodium	7440-23-5	mg/kg			580	810	760	3900	4600	110 J	290 J	510 J	690	180 J
Antimony	7440-36-0	mg/kg	3.1	2	< 0.93 U	< 0.96 U	< 0.83 U	< 1.4 U	1.1	< 1.1 U	2.2	< 1.0 U	< 1.6 U	< 0.79 U
Arsenic	7440-38-2	mg/kg	0.68	9.8	1.2 J+	1.1 J+	0.70 J+	7.0 J+	3.6 J+	1.9	1.4	2.2 J	4.5 J	0.98
Barium	7440-39-3	mg/kg	1500	20	12	8.5	6.2	77	34	23	35	57 J	49 J	11
Beryllium	7440-41-7	mg/kg	16		0.14 J	0.14 J	0.11 J	0.54 J	0.24 J	0.15 J	0.14 J	0.16 J	0.28 J	0.15 J
Cadmium	7440-43-9	mg/kg	0.71	1	< 0.47 U	< 0.48 U	< 0.42 U	1.2	0.87	< 0.53 U	0.16 J	0.32 J	0.82	0.098 J
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	14 EB	9.4 EB	6.7 EB	35 EB	28 EB	7.0	8.8	16	31	4.0
Cobalt	7440-48-4	mg/kg	2.3	50	3.8	3.6	4.3	8.7	5.0	3.2	2.5	3.6	5.9	2.5
Copper	7440-50-8	mg/kg	310	31.6	16 J	14 J	12 J	64 J	48 J	15	18	34	66	25
Lead	7439-92-1	mg/kg	200	35.8	68	15	4.0	380	120	18	44	62	140	22
Manganese	7439-96-5	mg/kg	180	460	110 EB	67 EB	58 EB	290 EB	110 EB	130	100	160	190	72
Nickel	7440-02-0	mg/kg	140	22.7	9.6	6.8	6.9	15	9.4	5.5	4.3	7.4	14	4.7
Selenium	7782-49-2	mg/kg	39	11	< 2.3 U	< 2.4 U	< 2.1 U	0.71 J	< 2.7 U	< 2.6 U	< 3.1 U	< 2.5 U	< 4.0 U	< 2.0 U
Silver	7440-22-4	mg/kg	39	1	0.033 J	< 0.48 U	< 0.42 U	1.3	0.25 J	< 0.53 U	0.069 J	0.095 J	0.21 J	< 0.39 U
Thallium	7440-28-0	mg/kg	0.078		< 0.47 U	< 0.48 U	< 0.42 U	< 0.71 U	< 0.54 U	< 0.53 U	< 0.62 U	< 0.50 U	< 0.79 U	< 0.39 U
Vanadium	7440-62-2	mg/kg	39		10 J	9.7 J	8.3 J	42 J	17 J	7.7	6.2	11	17	5.1
Zinc	7440-66-6	mg/kg	2300	121	44 EB	33 EB	37 EB	180 EB	150 EB	42 J	74 J	150	1200	67 J
Mercury	7439-97-6	mg/kg	2.3	0.18	0.061 J	0.065 J	< 0.10 U	0.57	0.73	< 0.11 U	0.21	0.40	0.78	0.078 J
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		0.28 J-	< 0.52 R	< 0.53 R	< 0.70 R	< 0.68 R	< 0.56 U	< 0.62 U	< 0.61 U	< 0.91 U	< 0.56 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 U	-	12	-	< 11 U	< 5.7 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 U	-	3.9 J	-	< 11 U	< 5.7 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	50	-	< 11 U	< 5.7 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 UJ	-	2.7 J	1.9 J
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 UJ	-	< 7.3 UJ	-	< 11 U	< 5.7 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 UJ	-	< 11 U	< 5.7 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 UJ	-	< 7.3 UJ	-	< 11 U	< 5.7 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 UJ	-	1.5 J-	-	< 11 U	< 5.7 U
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 U	-	1.4 J	-	< 11 U	< 5.7 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 UJ	-	< 11 U	< 5.7 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 UJ	-	< 7.3 UJ	-	< 11 U	< 5.7 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 UJ	-	< 7.3 UJ	-	< 11 U	< 5.7 U
2-HEXANONE	591-78-6	ug/kg	20000	45	< 12 U	< 12 U	< 10 U	< 15 U	< 16 U	-	< 15 UJ	-	< 23 U	< 11 U
ACETONE	67-64-1	ug/kg	7000000	65	< 12 UJ	14 J+	< 10 U	140	110	-	< 15 U	-	73 J+	27 J+
Benzene	71-43-2	ug/kg	1200	10	< 6.0 U	1.6 J	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 UJ	-	< 11 U	< 5.7 U

Table 11
Sediment Analytical Results
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				Location	23A-0022-PLC1	23A-0022-PLC1	23A-0022-PLC1	23A-0023-B2C2	23A-0023-B2C2	23A-0024-PLC2	23A-0025-B1C1	23A-0025-B1C1	23A-0026-B1C1	23A-0026-B1C1
				Sample Name	23A-0022-PLC1-AS	23A-0022-PLC1-BS	23A-0022-PLC1-CS	23A-0023-B2C2-AS	23A-0023-B2C2-BS	23A-0024-PLC2-AS	23A-0025-B1C1-AS	23A-0025-B1C1-BS	23A-0026-B1C1-AS	23A-0026-B1C1-BS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.8 ft	2.8 - 4 ft	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.3 ft	0 - 0.5 ft	0.5 - 1.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 6.0 U	2.5 J	4.1 J	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	1.1 J
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 U	-	< 7.3 UJ	-	< 11 U	< 5.7 U
Chlorobenzene	108-90-7	ug/kg	28000	30	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 UJ	-	< 7.3 UJ	-	< 11 U	< 5.7 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	7.6	-	< 11 U	< 5.7 U
Chloroform	67-66-3	ug/kg	320	87	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	3.2 J-	-	19	18
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
Cyclohexane	110-82-7	ug/kg	650000		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 UJ	-	< 11 U	< 5.7 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
Ethylbenzene	100-41-4	ug/kg	5800	290	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 U	-	< 7.3 UJ	-	< 11 U	< 5.7 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	< 12 U	< 12 U	< 10 U	33	29	-	< 15 UJ	-	24 J+	7.4 J+
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 12 U	< 12 U	< 10 U	< 15 U	< 16 U	-	< 15 U	-	< 23 U	< 11 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 UJ	-	< 11 U	< 5.7 U
Methylene Chloride	75-09-2	ug/kg	35000	18	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	1.3 J	-	< 11 U	< 5.7 U
Styrene	100-42-5	ug/kg	600000	126	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	11	1.8 J
Toluene	108-88-3	ug/kg	490000	10	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 UJ	-	< 11 U	< 5.7 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	< 11 U	< 5.7 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	< 7.3 U	-	19 J	4.4 J
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 UJ	< 8.1 U	-	< 7.3 UJ	-	< 11 U	< 5.7 U
Vinyl Chloride	75-01-4	ug/kg	59	482	< 6.0 U	< 5.8 U	< 5.2 U	< 7.6 U	< 8.1 U	-	7.8 J-	-	6.0 J	11
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 190 U	< 190 UJ	< 180 U	< 240 U	< 240 U	-	< 210 UJ	< 230 UJ	< 320 U	< 200 UJ
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 360 U	< 360 U	< 360 U	< 470 U	< 460 U	-	< 420 UJ	< 440 UJ	< 630 U	< 380 UJ
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 360 U	< 360 UJ	< 360 U	< 470 U	< 460 U	-	< 420 UJ	< 440 UJ	< 630 U	< 380 UJ
2-NITROANILINE	88-74-4	ug/kg	63000		< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 360 U	< 360 U	< 360 U	< 470 U	< 460 U	-	< 420 U	< 440 U	< 630 U	< 380 U

Table 11
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				Location	23A-0022-PLC1	23A-0022-PLC1	23A-0022-PLC1	23A-0023-B2C2	23A-0023-B2C2	23A-0024-PLC2	23A-0025-B1C1	23A-0025-B1C1	23A-0026-B1C1	23A-0026-B1C1
				Sample Name	23A-0022-PLC1-AS	23A-0022-PLC1-BS	23A-0022-PLC1-CS	23A-0023-B2C2-AS	23A-0023-B2C2-BS	23A-0024-PLC2-AS	23A-0025-B1C1-AS	23A-0025-B1C1-BS	23A-0026-B1C1-AS	23A-0026-B1C1-BS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.8 ft	2.8 - 4 ft	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.3 ft	0 - 0.5 ft	0.5 - 1.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 360 U	< 360 U	< 360 U	< 470 U	< 460 U	-	< 420 U	< 440 U	< 630 U	< 380 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 360 U	< 360 UJ	< 360 U	< 470 U	< 460 U	-	< 420 U	< 440 UJ	< 630 U	< 380 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 UJ	< 320 U	< 200 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 360 U	< 360 U	< 360 U	< 470 U	< 460 U	-	< 420 UJ	< 440 UJ	< 630 U	< 380 UJ
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 360 U	< 360 UJ	< 360 U	< 470 U	< 460 U	-	< 420 UJ	< 440 UJ	< 630 U	< 380 UJ
4-Nitroaniline	100-01-6	ug/kg	25000		< 360 U	< 360 U	< 360 U	< 470 U	< 460 U	-	< 420 U	< 440 U	< 630 U	< 380 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 360 U	< 360 U	< 360 U	< 470 U	< 460 U	-	< 420 U	< 440 U	< 630 U	< 380 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		72 JEB	180 JEB	< 360 U	85 JEB	55 JEB	-	160 JEB	67 J	130 JEB	120 JEB
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	470	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 360 U	< 360 U	< 360 U	< 470 U	< 460 U	-	< 420 U	< 440 U	< 630 U	< 380 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 360 U	< 360 U	< 360 U	< 470 U	< 460 U	-	< 420 U	< 440 U	< 630 U	< 380 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	760	-	-	-	620	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	510 J	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	770	-	-	-	680	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 360 U	< 360 U	< 360 U	< 470 U	< 460 U	-	45 J	140 J	< 630 U	< 380 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 360 U	< 360 U	< 360 U	< 470 U	< 460 U	-	< 420 U	< 440 U	< 630 U	< 380 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	50 J	71 J	< 180 U	67 J	51 J	-	110 J	120 J	190 J	92 J
Caprolactam	105-60-2	ug/kg	3100000		< 360 U	< 360 U	< 360 U	< 470 U	< 460 U	-	< 420 U	< 440 U	< 630 U	< 380 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 360 U	< 360 U	< 360 U	250 J	< 460 U	-	< 420 U	63 J	< 630 U	< 380 U
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	710	-	-	-	660	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 190 U	< 190 U	< 180 U	140 J	< 240 U	-	< 210 U	64 J	< 320 U	< 200 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	130 J	53 J	120 J	110 J	200 J	-	< 210 U	< 230 U	< 320 U	< 200 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 360 U	< 360 U	< 360 U	< 470 U	< 460 U	-	< 420 U	< 440 U	< 630 U	< 380 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	2200	-	-	530	1500	-	410
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 360 U	< 360 U	< 360 U	< 470 U	< 460 U	-	< 420 U	< 440 U	< 630 U	< 380 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 190 U	< 190 U	< 180 U	< 240 U	< 240 U	-	< 210 U	< 230 U	< 320 U	< 200 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	2000	-	-	370	1200	-	-
PHENOL	108-95-2	ug/kg	1900000	175	< 360 U	65 J	< 360 U	59 J	< 460 U	-	< 420 U	< 440 U	< 630 U	< 380 U
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	1700	-	-	-	710 J	-	-

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				Location	23A-0022-PLC1	23A-0022-PLC1	23A-0022-PLC1	23A-0023-B2C2	23A-0023-B2C2	23A-0024-PLC2	23A-0025-B1C1	23A-0025-B1C1	23A-0026-B1C1	23A-0026-B1C1
				Sample Name	23A-0022-PLC1-AS	23A-0022-PLC1-BS	23A-0022-PLC1-CS	23A-0023-B2C2-AS	23A-0023-B2C2-BS	23A-0024-PLC2-AS	23A-0025-B1C1-AS	23A-0025-B1C1-BS	23A-0026-B1C1-AS	23A-0026-B1C1-BS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.8 ft	2.8 - 4 ft	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.3 ft	0 - 0.5 ft	0.5 - 1.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 7.2 U	< 7.2 U	< 7.1 U	< 9.5 U	< 9.2 U	-	6.4 J	< 8.8 U	< 13 UJ	5.7 J-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	3.7 EB	2.6 JEB	< 3.6 U	23 EB	5.0 EB	-	12 EB	25	7.6 EB	6.5 EB
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	5.1 EB	3.3 JEB	< 3.6 U	32 EB	6.2 EB	-	14 EB	30 EB	8.1 EB	8.3 EB
Acenaphthene	83-32-9	ug/kg	360000	6.7	8.9 J	6.4 J	1.0 J	210 J	23 J	-	33	55 J	30	33
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	9.8	8.8	1.8 J	19	7.5	-	26	46	9.9	21
ANTHRACENE	120-12-7	ug/kg	1800000	57	20	20	3.2 J	-	45	-	58	120	36	51
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	94	79	9.2	-	140	-	280 JEB	-	140 EB	160 JEB
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	86	29	6.9	-	94	-	31	65	28	44
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	110	70	8.1	-	130	-	270 JEB	-	140 EB	150 JEB
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	44	2.4 J	4.2	250	46	-	1.8 J-	5.4	4.9 J	2.8 J-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	28	27	3.5 J	260	44	-	110 JEB	160	78 EB	64 JEB
CHRYSENE	218-01-9	ug/kg	110000	166	89	70	7.6	-	120	-	250 EB	-	120 EB	130 EB
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	12	10	1.2 J	84	15	-	31 JEB	59	24 EB	22 JEB
FLUORANTHENE	206-44-0	ug/kg	240000	423	220	150	16	-	320	-	-	-	350 EB	-
FLUORENE	86-73-7	ug/kg	240000	77	11	7.0	1.3 J	250	22	-	40 EB	60	38 EB	34 EB
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	42	20	3.7	260	47	-	36 J-	85	58	45 J-
Naphthalene	91-20-3	ug/kg	2000	176	7.0 JEB	4.5 JEB	1.1 JEB	40 JEB	10 JEB	-	26 EB	33 EB	15 EB	17 EB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 7.3 UJ	< 7.3 UJ	< 7.2 UJ	< 9.6 UJ	< 9.3 UJ	-	1.9 J	< 8.9 U	< 13 U	< 7.8 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	120	66	9.8	-	170	-	-	-	270	220
PYRENE	129-00-0	ug/kg	180000	195	170	110	13	-	280	-	240	-	240	220
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			-	4200	340	19000	18000	-	9000	14000	-	5200
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			< 2.2 U	-	-	10	-	-	< 2.4 UJ	-	25 J	-
Cadmium	7440-43-9	umol/g			0.00067	-	-	0.0053	-	-	0.0029	-	0.0071	-
Copper	7440-50-8	umol/g			0.14 EB	-	-	0.41 EB	-	-	0.34 J	-	0.39 J	-
Lead	7439-92-1	umol/g			0.13	-	-	0.51	-	-	0.29	-	0.52	-
Nickel	7440-02-0	umol/g			0.030	-	-	0.050	-	-	0.028	-	0.10	-
Silver	7440-22-4	umol/g			0.00024	-	-	0.00017 J	-	-	0.00025 J	-	0.00023 J	-
Zinc	7440-66-6	umol/g			0.35	-	-	2.0	-	-	1.3 J	-	20 J	-
Mercury	7439-97-6	umol/g			0.000032	-	-	< 0.000038 U	-	-	< R	-	< R	-

Table 11
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				Location	23A-0028-PLC2	23A-0028-PLC2	23A-0029-PLC1	23A-0029-PLC1	23A-0029-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0031-PLC1	23A-0031-PLC1
				Sample Name	23A-0028-PLC2-AS	23A-0028-PLC2-BS	23A-0029-PLC1-AS	23A-0029-PLC1-BS	23A-0029-PLC1-CS	23A-0030-PLC1-AS	23A-0030-PLC1-BS	23A-0030-PLC1-CS	23A-0031-PLC1-AS	23A-0031-PLC1-BS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 3.3 ft	3.3 - 5.8 ft	0 - 0.5 ft	0.5 - 1.8 ft	1.8 - 2.8 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 2.1 U	< 1.8 U	< 7.9 UJ	< 3.2 U	< 1.9 U	< 5.0 U	< 3.9 U	< 1.9 U	< 2.7 U	< 2.5 UJ
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 2.1 U	< 1.8 U	< 7.9 UJ	< 3.2 U	< 1.9 U	< 5.0 U	< 3.9 U	< 1.9 U	< 2.7 U	< 2.5 UJ
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 2.1 U	< 1.8 U	< 7.9 UJ	< 3.2 U	< 1.9 U	< 5.0 U	< 3.9 U	< 1.9 U	< 2.7 U	< 2.5 UJ
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 2.1 U	< 1.8 U	< 7.9 UJ	< 3.2 U	< 1.9 U	< 5.0 U	< 3.9 U	< 1.9 U	< 2.7 U	< 2.5 UJ
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 4.1 U	< 3.6 U	< 15 UJ	< 6.2 U	< 3.7 U	< 9.8 U	< 7.6 U	< 3.7 U	< 5.2 U	< 4.9 UJ
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		0.55 J	< 1.8 U	< 7.9 UJ	1.8 J	< 1.9 U	< 5.0 U	1.8 J	< 1.9 U	< 2.7 U	< 2.5 UJ
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		1.4 J	< 1.8 U	< 7.9 UJ	14 J	0.64 J	2.8 J	26 J	18 J	3.2 J	6.6 J
DIELDRIN	60-57-1	ug/kg	34	1.9	< 4.1 U	< 3.6 U	< 15 UJ	< 6.2 U	< 3.7 U	< 9.8 U	< 7.6 U	< 3.7 U	< 5.2 U	< 4.9 UJ
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 4.1 U	< 3.6 U	< 15 UJ	0.90 J	< 3.7 U	< 9.8 U	1.5 J	0.85 J	1.5 J	2.3 J
ENDRIN	72-20-8	ug/kg	1900	2.22	< 4.1 U	< 3.6 U	< 15 UJ	2.0 J	< 3.7 U	1.0 J	2.4 J	2.3 J	0.64 J	4.0 J
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 4.1 U	< 3.6 U	< 15 UJ	< 6.2 U	< 3.7 U	< 9.8 U	< 7.6 U	< 3.7 U	< 5.2 U	< 4.9 UJ
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 4.1 U	< 3.6 U	< 15 UJ	< 6.2 U	< 3.7 U	< 9.8 U	< 7.6 U	< 3.7 U	< 5.2 U	< 4.9 UJ
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	0.92 J	< 1.8 R	< 7.9 UJ	27 J+	0.46 J	< 5.0 U	56 J	21 J	12 J	24 J
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 2.1 U	< 1.8 U	< 7.9 UJ	< 3.2 U	< 1.9 U	< 5.0 U	< 3.9 U	< 1.9 U	< 2.7 U	< 2.5 UJ
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	1.8 J	< 1.8 U	< 7.9 UJ	6.6 J	< 1.9 U	< 5.0 U	5.4 J	4.9 J	< 2.7 U	9.1 J
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 21 U	< 18 U	< 79 UJ	< 32 U	< 19 U	< 50 U	< 39 U	< 19 U	< 27 U	< 25 UJ
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	0.85 J	< 3.6 U	< 15 UJ	< 6.2 U	< 3.7 U	< 9.8 U	1.1 J	0.71 J	0.91 J	1.6 J
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 4.1 U	< 3.6 U	< 15 UJ	< 6.2 U	< 3.7 U	< 9.8 U	< 7.6 U	< 3.7 U	< 5.2 U	< 4.9 UJ
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	1.3 J	0.34 J	< 15 UJ	8.1 J+	0.39 J	1.4 J	8.7 J	8.6 J+	4.8 J+	15 J
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 UJ
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		< 2.1 U	0.34 J	< 7.9 UJ	2.8 J	0.41 J	< 5.0 U	2.8 J	4.8 J	2.1 J+	6.5 J
Grain Size														
%CLAY	%CLAY	%			9.3	8.7	55.1	26.4	8.8	31	30.7	11.2	18.2	17.9
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			15.2	13.8	1.4	1.9	15	3.8	0.5	14	9.5	4
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			6.4	7.6	24.9	19.4	12	33.3	25.2	14.8	45.2	25.3
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			10.3	9.8	9.7	6.3	26.5	9.9	3.5	18	19.5	23.7
Gravel	GRAVEL	%			49.5	57.3	0.9	0.3	36.2	3	0.3	38.7	2.9	12.1
Hydrometer, Reading 1, Percent Passing	HYD01	%			10.9	12.2	85.9	46.3	11.6	55.4	52.9	12.7	25.3	26.2
Hydrometer, Reading 2, Percent Passing	HYD02	%			10.9	10.8	85.9	41.3	11.6	50.7	49.7	12.7	22.9	24.1
Hydrometer, Reading 3, Percent Passing	HYD03	%			10.9	10.8	77.9	36.4	11.6	50.7	43.4	12.7	22.9	22.1
Hydrometer, Reading 4, Percent Passing	HYD04	%			10.9	10.8	77.9	31.4	11.6	45.9	40.2	11.2	20.5	20
Hydrometer, Reading 5, Percent Passing	HYD05	%			9.3	9.4	77.9	26.4	10.1	36.4	30.7	11.2	18.2	17.9
Hydrometer, Reading 6, Percent Passing	HYD06	%			9.3	8	69.8	21.5	10.1	31.7	27.5	11.2	15.8	15.9
Hydrometer, Reading 7, Percent Passing	HYD07	%			7.6	8	53.7	19	10.1	31.7	24.3	9.7	15.8	13.8
Sand	308075-07-2	%			31.9	31.2	36	27.6	53.5	47	29.2	46.8	74.2	53
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			35.3	28.9	97.7	97.8	48.8	93.2	99.2	47.3	87.6	83.9
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			25	19.1	88	91.5	22.3	83.3	95.7	29.3	68.1	60.2
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			20.5	14.1	80	86	12.8	73.4	90.8	19.2	39.4	40.3
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			30.5	23.1	93	95.1	39.6	88.2	97.8	39	81.1	76.7
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			22	16	83.6	88.3	14.7	79.1	93.4	22.5	49.7	43
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			19.8	13.2	76.8	84.1	11.8	68	88	17.5	33.5	39.1
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			18.6	11.5	63.1	72.1	10.3	50	70.5	14.5	22.9	34.9
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			50.5	42.7	99.1	99.7	63.8	97	99.7	61.3	97.1	87.9
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			69.9	69.1	99.7	99.9	81.4	99.8	99.9	83.9	100	89.3
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	100	100	100	100	100	100	100	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	100	100	100	100	100	100	100	100
SILT	445	%			9.3	2.8	8	45.7	1.5	19	39.8	3.3	4.7	17

Table 11
Sediment Analytical Results
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				Location	23A-0028-PLC2	23A-0028-PLC2	23A-0029-PLC1	23A-0029-PLC1	23A-0029-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0031-PLC1	23A-0031-PLC1
				Sample Name	23A-0028-PLC2-AS	23A-0028-PLC2-BS	23A-0029-PLC1-AS	23A-0029-PLC1-BS	23A-0029-PLC1-CS	23A-0030-PLC1-AS	23A-0030-PLC1-BS	23A-0030-PLC1-CS	23A-0031-PLC1-AS	23A-0031-PLC1-BS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 3.3 ft	3.3 - 5.8 ft	0 - 0.5 ft	0.5 - 1.8 ft	1.8 - 2.8 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	53.6	7.52	3080 J	2040	9.36	2400	4520	42.6	1080	605
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	1.53 J	< 0.208 U	65.0 J	45.4	< 0.191 U	39.9	80.8	1.92 J	19.2	29.1
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	1.37 J	< 0.473 U	39.7 J	19.1	0.436 JN	21.4	27.9	0.759 JN	8.84	5.11
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	2.17 J	0.344 J	153 J	101 J	0.5 JN	83.4 J	153	4.47 JN	43.0 J	79.7 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	3.84 J	< 0.511 U	196 J	120	0.814 J	120	200	2.55 JN	52.6	29.6
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	1.39 J	0.262 JN	93.8 J	56.0	0.395 J	45.8	74.9	1.79 J	21.9	30.5
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	2.15 J	< 0.466 U	121 J	77.4	0.461 JN	59.8	84.6	1.2 JN	25.7	14.9
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.224 U	< 0.194 U	< 1.82 UJ	< 0.927 U	< 0.237 U	< 0.858 U	< 4.69 U	< 0.47 U	< 0.761 U	< 0.69 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	0.599 JN	< 0.303 UJ	23.8 J	11.7 JN	< 0.326 UJ	9.81 JN	11.3 JN	< 0.45 UJ	4.74 J	2.75 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	0.439 JN	< 0.195 U	15.2 J	16.5	< 0.167 U	11.1	23.6	0.896 J	6.83	11.7
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	31.9 J+	3.28 J+	2160 J	1150 J+	4.47 J+	1240 J+	1700 J+	22.4 J+	559	291
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	1.46 J	0.38 J	77.4 J	44.3	0.364 JN	40.5	73.5	1.75 J	20.9	28.1
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	2.5 J+	0.423 JN	52.5 J	124 J+	0.754 J+	46.8 J+	179	6.88 J+	49.9	117
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 0.547 U	< 0.581 U	3.89 J	12.3	< 1.06 UJ	3.12	8.56 J	< 0.408 U	2.42	2.25
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	0.838 JN	< 0.27 U	21.5 J	61.3	0.545 JN	20.2	36.4	1.98	13.8	34.0
OCDD	3268-87-9	pg/g	16000	5000	367	48.6	20500 J	11000	46.5	19000	37000 J	281	8870	5330
OCDF	39001-02-0	pg/g	16000	5000	32.6	3.76 J	2090 J	885	4.4 J	1390	2180	22.0	571	378
Total HpCDD (a)	RA_Total_HpCDD	pg/g			53.6	7.52	3080	2040	9.36	2400	4520	42.6	1080	605
Total HpCDF (a)	RA_Total_HpCDF	pg/g			33.4	3.28	2230	1200	4.47	1280	1780	24.3	578	320
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		7.36	< 0.511 U	357	217	1.71	201	313	4.51	87.1	49.6
Total HxCDF (a)	RA_Total_HxCDF	pg/g			5.02	0.986	324	201	1.26	170	301	8.01	85.8	138
Total PeCDD (a)	RA_Total_PeCDD	pg/g			0.599	< 0.303 U	23.8	11.7	< 0.326 U	9.81	11.3	< 0.45 U	4.74	2.75
Total PeCDF (a)	RA_Total_PeCDF	pg/g			2.94	0.423	67.7	141	0.754	57.9	203	7.78	56.7	129
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.547 U	< 0.581 U	3.89	12.3	< 1.06 U	3.12	8.56	< 0.408 U	2.42	2.25
Total TCDF (a)	RA_Total_TCDF	pg/g			0.838	< 0.27 U	21.5	61.3	0.545	20.2	36.4	1.98	13.8	34.0
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	5.36 JEB	4.85 J+EB	535 JEB	17400 JEB	27.4 JEB	1930 JEB	21200 JEB	178 JEB	36400 JEB	79800 JEB
PCB-002	2051-61-8	ng/g	230	14.0	< 0.0496 U	< 0.0474 U	2.17 JEB	129 EB	< 0.0537 U	52.0 JEB	412 JEB	6.26 JEB	81.4 JEB	132 JEB
PCB-003	2051-62-9	ng/g	230	14.0	1.18 J	0.770 J	27.5 J	1070 J	1.53 J	771 J	9900 J	147 J	1820 J	5480 J
PCB-004/010	PCB-4/10	ng/g	230	14.0	23.2 JEB	7.69 JEB	877 JEB	38000 JEB	45.6 JEB	5330 JEB	94000 J	1420 JEB	52100 JEB	200000 JEB
PCB-005/008	PCB-5/8	ng/g	230	14.0	18.3 JEB	9.49 JEB	232 JEB	10000 JEB	28.2 JEB	3400 JEB	93700 J	2120 JEB	11200 JEB	23500 JEB
PCB-006	25569-80-6	ng/g	230	14.0	4.17 JEB	1.68 JEB	78.5 JEB	5920 JEB	8.66 JEB	1550 JEB	26300 J	515 JEB	957 JEB	1990 JEB
PCB-007/009	PCB-7/9	ng/g	230	14.0	0.788 J	< 0.0797 U	14.4 J	967 J	2.04 J	84.1 J	549 J	34.1	321 J	779 J
PCB-011	2050-67-1	ng/g	230	14.0	1.07 JEB	< 0.0439 U	6.50 JEB	357 JEB	0.517 JEB	63.8 JEB	889 JEB	19.6 JEB	214 JEB	509 JEB
PCB-012/013	PCB-12/13	ng/g	230	14.0	4.17 J	< 0.0790 U	13.6 J	946 J	1.25 J	217 J	1480 J	63.7 J	414 J	531 J
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0461 U	< 0.0441 U	< 0.0586 UJ	< 0.205 U	< 0.0500 U	< 0.0501 U	10.2 J	< 0.0500 U	< 0.216 U	6.93 JEB
PCB-015	2050-68-2	ng/g	230	14.0	40.0 J	2.15 J	118 J	7130 J	8.60 J	1260 J	11500 J	822 J	2490 J	3930 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	59.1 JEB	4.30 JEB	189 JEB	9210 JEB	21.2 EB	2590 JEB	37000 JEB	911 JEB	5930 JEB	16600 JEB
PCB-017	37680-66-3	ng/g	230	14.0	36.8 JEB	2.85 JEB	117 JEB	7390 JEB	16.9 JEB	1920 JEB	31100 JEB	1010 JEB	3420 JEB	5470 JEB
PCB-018	37680-65-2	ng/g	230	14.0	19.7 EB	2.32 JEB	122 JEB	10100 JEB	18.9 JEB	1910 JEB	15400 JEB	635 JEB	669 JEB	1090 JEB
PCB-019	38444-73-4	ng/g	230	14.0	18.6	1.24 J	148 J	7700 J	8.15 J	1040 J	14800 J	323 J	7230 J	34800 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	5.34 JEB	0.382 JEB	21.3 JEB	649 JEB	3.16 JEB	91.9 JEB	828 JEB	70.6 JEB	62.7 JEB	164 JEB
PCB-022	38444-85-8	ng/g	230	14.0	8.17 JEB	0.755 JEB	22.0 JEB	1270 JEB	3.07 JEB	463 JEB	2600 JEB	108 JEB	185 JEB	114 JEB
PCB-023/034	PCB-23/34	ng/g	230	14.0	0.811 J	< 0.0795 U	4.17 J	295 J	0.524 J	43.6 J	551 J	14.8 J	76.4 J	544 J
PCB-024/027	PCB-24/27	ng/g	230	14.0	13.4 J	1.07 J	81.3 J	4120 J	5.33 J	515 J	9910 J	227 J	2500 J	11100 J
PCB-025	55712-37-3	ng/g	230	14.0	23.9	1.45 J	72.1 J	5820 J	9.27 J	838 J	3950 J	289 J	933 J	1510 J
PCB-026	38444-81-4	ng/g	230	14.0	28.2 EB	3.06 JEB	119 JEB	9410 JEB	15.0 JEB	1490 JEB	11700 J	500 JEB	1260 JEB	3260 JEB
PCB-028	7012-37-5	ng/g	230	14.0	63.3 JEB	6.94 JEB	112 JEB	2920 JEB	20.9 EB	881 JEB	1420 JEB	327 JEB	703 JEB	1520 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0481 U	< 0.0460 U	< 0.0611 UJ	< 0.214 U	< 0.0522 U	< 0.0522 U	6.75 J	< 0.0522 U	3.67 J	16.4 J

Table 11
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				Location	23A-0028-PLC2	23A-0028-PLC2	23A-0029-PLC1	23A-0029-PLC1	23A-0029-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0031-PLC1	23A-0031-PLC1
				Sample Name	23A-0028-PLC2-AS	23A-0028-PLC2-BS	23A-0029-PLC1-AS	23A-0029-PLC1-BS	23A-0029-PLC1-CS	23A-0030-PLC1-AS	23A-0030-PLC1-BS	23A-0030-PLC1-CS	23A-0031-PLC1-AS	23A-0031-PLC1-BS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 3.3 ft	3.3 - 5.8 ft	0 - 0.5 ft	0.5 - 1.8 ft	1.8 - 2.8 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0441 U	< 0.0421 U	< 0.0560 UJ	6.27 J	< 0.0478 U	1.87 J	8.72 J	< 0.0478 U	< 0.206 U	28.6 J
PCB-031	16606-02-3	ng/g	230	14.0	53.8 JEB	4.21 JEB	191 JEB	13100 JEB	27.7 EB	2250 JEB	12500 JEB	761 JEB	2940 JEB	6830 JEB
PCB-035	37680-69-6	ng/g	230	14.0	0.514 J+	< 0.0500 U	< 0.0665 UJ	72.8 J+	< 0.0567 U	5.64 J+	52.6 J+	1.04 J+	9.92 J+	21.0 J+
PCB-036	38444-87-0	ng/g	230	14.0	0.208 J	< 0.0427 U	< 0.0567 UJ	40.6 J	< 0.0484 U	< 0.0485 U	84.6 J	3.80 J	< 0.209 U	50.2 J
PCB-037	38444-90-5	ng/g	230	14.0	8.22 J	0.714 J	16.4 J	330 J	2.04 J	206 J	453 J	41.7 J	152	115 J
PCB-038	53555-66-1	ng/g	230	14.0	1.29 J	< 0.0353 U	3.85 J	165 J	0.346 J	23.8	250 J	11.7 J	51.4 J	230 J
PCB-039	38444-88-1	ng/g	230	14.0	0.239 J	< 0.0217 U	< 0.0288 UJ	51.5 J	< 0.0246 U	8.73 J	109 J	2.63 J	25.6 J	103
PCB-040	38444-93-8	ng/g	230	14.0	2.85 JEB	< 0.0362 U	10.1 JEB	557 JEB	1.55 JEB	35.7 EB	721 J	44.8 JEB	18.4 JEB	27.4 JEB
PCB-041/064	PCB-41/64	ng/g	230	14.0	14.5 J	1.75 J	37.0 J	1860 J	6.09 J	157 J	2930 J	152 J	260 J	532 J
PCB-042	36559-22-5	ng/g	230	14.0	12.4 J	1.11 J	37.7 J	2200 J	4.33 J	298 J	3600 J	143 J	238 J	349 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	50.5 JEB	5.33 JEB	178 JEB	9910 JEB	18.8 JEB	1510 JEB	16200 J	629 JEB	1530 JEB	4890 JEB
PCB-044	41464-39-5	ng/g	230	14.0	22.6 EB	3.10 JEB	76.1 JEB	4890 JEB	11.4 JEB	387 JEB	6340 JEB	322 JEB	211 JEB	287 JEB
PCB-045	70362-45-7	ng/g	230	14.0	4.25 J	0.404 J	11.7 J	530 J	2.00 J	39.2	1240 J	59.2 J	71.9 J	377 J
PCB-046	41464-47-5	ng/g	230	14.0	2.53 J	< 0.0460 U	8.71 J	500 J	0.940 J	85.6 J	781 J	28.3	54.1 J	74.0
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	43.6 JEB	3.50 JEB	129 JEB	6260 JEB	12.1 JEB	832 JEB	9750 J	410 JEB	2000 JEB	8700 JEB
PCB-050	62796-65-0	ng/g	230	14.0	0.506 J	< 0.0561 U	1.69 J	77.5 J	< 0.0637 U	12.7 J	191	5.32 J	42.0 J	155 J
PCB-051	68194-04-7	ng/g	230	14.0	7.81 J	0.584 J	26.2 J	1210 J	2.45 J	279 J	3530 J	101 J	468 J	933 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	40.7 JEB	4.79 JEB	157 JEB	9030 JEB	18.2 JEB	1310 JEB	14000 JEB	522 JEB	1100 JEB	2400 JEB
PCB-053	41464-41-9	ng/g	230	14.0	14.2 J	1.38 J	63.9 J	3800 J	6.23 J	515 J	6320 J	231 J	626 J	2050 J
PCB-054	15968-05-5	ng/g	230	14.0	0.845 J	< 0.0372 U	4.05 J	186 J	0.233 J	26.5	275 J	8.04 J	105	580 J
PCB-055	74338-24-2	ng/g	230	14.0	0.345 J	< 0.0484 U	< 0.0644 UJ	21.2 J	< 0.0549 U	1.56 J	< 0.304 U	1.05 J	< 0.237 U	< 0.144 U
PCB-056/060	PCB-56/60	ng/g	230	14.0	9.61 JEB	0.888 JEB	20.8 JEB	29.3 JEB	3.11 JEB	35.1 EB	48.7 J	41.0 JEB	22.4 JEB	23.9 JEB
PCB-057	70424-67-8	ng/g	230	14.0	0.517 J	< 0.0374 U	3.78 J	206 J	0.287 J	20.2	205	10.5 J	28.4 J	327 J
PCB-058	41464-49-7	ng/g	230	14.0	< 0.0355 U	< 0.0339 U	< 0.0451 UJ	10.1 J	< 0.0385 U	1.93 J	18.7 J	1.05 J	< 0.166 U	5.67 J
PCB-059	74472-33-6	ng/g	230	14.0	1.50 J	0.311 J	4.04 J	173 J	0.811 J	16.7 J	432 J	19.5 J	28.4 J	139 J
PCB-061/074	PCB-61/74	ng/g	230	14.0	13.1 JEB	1.41 JEB	26.7 JEB	244 JEB	5.49 JEB	124 JEB	267 J	57.4 JEB	213 JEB	276 JEB
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0485 U	< 0.0463 U	< 0.0616 UJ	< 0.216 U	< 0.0526 U	< 0.0526 U	< 0.291 U	< 0.0526 U	< 0.227 U	< 0.138 U
PCB-063	74472-34-7	ng/g	230	14.0	2.57 J	0.449 J	10.5 J	524 J	1.36 J	72.5 J	640 J	29.0	122	1020 J
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0699 U	< 0.0668 U	< 0.0888 UJ	11.1 J	< 0.0758 U	< 0.0759 U	7.75 J	< 0.0758 U	< 0.327 U	23.5 J
PCB-066/080	PCB-66/80	ng/g	230	14.0	20.4 EB	1.92 JEB	50.2 JEB	215 JEB	6.06 JEB	185 JEB	356 JEB	78.4 JEB	135 EB	196 JEB
PCB-067	73575-53-8	ng/g	230	14.0	1.07 J	< 0.0409 U	2.91 J	26.3 J	0.420 J	6.70 J	23.8 J	5.88 J	14.3 J	33.4 J
PCB-068	73575-52-7	ng/g	230	14.0	0.779 J	< 0.0484 U	5.24 J	180 J	< 0.0549 U	22.9	218	8.48 J	53.2 J	240 J
PCB-069	60233-24-1	ng/g	230	14.0	0.291 J	< 0.0503 U	0.911 J	35.6 J	< 0.0571 U	5.17 J	58 J	1.87 J	24.0 J	103
PCB-070	32598-11-1	ng/g	230	14.0	19.8 EB	1.68 JEB	48.4 JEB	64.1 JEB	6.06 JEB	85.5 JEB	106 JEB	68.4 JEB	64.3 JEB	69.0 EB
PCB-071	41464-46-4	ng/g	230	14.0	12.8 JEB	1.38 JEB	42.5 JEB	2300 JEB	5.90 JEB	399 JEB	2610 J	161 JEB	381 JEB	769 JEB
PCB-072	41464-42-0	ng/g	230	14.0	1.01 J	< 0.0545 U	5.06 J	216 J	0.343 J	29.7	308 J	12.5 J	59.8 J	269 J
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0701 U	< 0.0670 U	< 0.0890 UJ	< 0.311 U	< 0.0760 U	< 0.0761 U	< 0.420 U	< 0.0760 U	< 0.328 U	< 0.200 U
PCB-077	32598-13-3	ng/g	38.0	14.0	3.01 J+	0.441 J+	6.21 J	66.2 J+	0.883 J+	31.1 J+	108 J+	11.7 J+	40.3 J+	55.8 J+
PCB-078	70362-49-1	ng/g	230	14.0	< 0.0359 U	< 0.0343 U	< 0.0455 UJ	14.4 J	< 0.0389 U	1.39 J	14.6 J	1.02 J	< 0.168 U	8.48 J
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0450 U	< 0.0430 U	0.908 J	< 0.200 U	< 0.0488 U	1.58 J	< 0.270 U	0.716 J	< 0.211 U	3.27 J
PCB-081	70362-50-4	ng/g	12.0	14.0	0.253 J+	< 0.0671 U	0.778 J	7.89 J+	< 0.0762 U	< 0.0763 U	< 0.421 U	1.15 J+	< 0.329 U	7.56 J+
PCB-082	52663-62-4	ng/g	230	14.0	1.60 J	0.329 J	6.63 J	44.7 J	0.683 J	14.0 J	79 J	8.76 J	17.1 J	26.3 J
PCB-083/109	PCB-83/109	ng/g	230	14.0	0.935 J	0.205 J	6.12 J	197 J	0.439 J	16.8 J	241 J	12.6 J	23.3 J	141 J
PCB-084	52663-60-2	ng/g	230	14.0	3.80 J	0.636 J	21.6 J	500 J	1.76 J	46.5 J	657 J	38.8	58.3 J	194 J
PCB-085/120	PCB-85/120	ng/g	230	14.0	3.38 J	0.692 J	15.7 J	99.6	1.33 J	30.2	172	16.6 J	48.6 J	75.7
PCB-086/097	PCB-86/97	ng/g	230	14.0	3.65 J	0.631 J	20.1 J	81.0 J	1.41 J	30.5	99.4 J	17.2 J	35.6 J	63.3
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	< 0.0282 U	< 0.0269 U	< 0.0358 UJ	< 0.125 U	< 0.0305 U	< 0.0306 U	< 0.169 U	< 0.0306 U	< 0.132 U	< 0.0802 U
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.102 U	< 0.0974 U	< 0.129 UJ	7.02 J	< 0.110 U	< 0.111 U	< 0.611 U	< 0.111 U	< 0.477 U	9.12 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	10.7 J	1.68 J	80.7 J	640 J	4.24 J	123 J	644 J	60.1 J	163	792 J
PCB-091	68194-05-8	ng/g	230	14.0	4.38 J	0.640 J	23.7 J	877 J	1.90 J	78.1 J	1070 J	49.4 J	146	843 J

Table 11
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					Location	23A-0028-PLC2	23A-0028-PLC2	23A-0029-PLC1	23A-0029-PLC1	23A-0029-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0031-PLC1	23A-0031-PLC1
					Sample Name	23A-0028-PLC2-AS	23A-0028-PLC2-BS	23A-0029-PLC1-AS	23A-0029-PLC1-BS	23A-0029-PLC1-CS	23A-0030-PLC1-AS	23A-0030-PLC1-BS	23A-0030-PLC1-CS	23A-0031-PLC1-AS	23A-0031-PLC1-BS
					Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 3.3 ft	3.3 - 5.8 ft	0 - 0.5 ft	0.5 - 1.8 ft	1.8 - 2.8 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-092	52663-61-3	ng/g	230	14.0	2.95 J	0.428 J	24.0 J	688 J	1.46 J	72.3 J	808 J	37.4	108	804 J
PCB-093/095	PCB-93/95	ng/g	230	14.0	9.92 J	1.69 J	68.4 J	1340 J	4.50 J	114 J	1920 J	112 J	162	818 J
PCB-094	73575-55-0	ng/g	230	14.0	0.496 J	< 0.0804 U	2.91 J	152	0.192 J	9.17 J	128	5.21 J	23.5 J	239 J
PCB-096	73575-54-9	ng/g	230	14.0	0.402 J	< 0.0379 U	1.66 J	86.7	0.187 J	5.03 J	109 J	5.11 J	10.2 J	59.9
PCB-098/102	PCB-98/102	ng/g	230	14.0	1.36 J	< 0.0703 U	6.17 J	226 J	0.620 J	21.4	245 J	13.8 J	52.3 J	301 J
PCB-099	38380-01-7	ng/g	230	14.0	6.92 J	1.08 J	42.3 J	329 J	2.65 J	84.6 J	386 J	35.5	150	525 J
PCB-100	39485-83-1	ng/g	230	14.0	0.390 J	< 0.0428 U	2.92 J	107	< 0.0486 U	9.83 J	99.1 J	3.79 J	20.2 J	156 J
PCB-103	60145-21-3	ng/g	230	14.0	0.378 J	< 0.0442 U	2.64 J	98.9	0.151 J	10.7 J	124	5.04 J	17.6 J	108 J
PCB-104	56558-16-8	ng/g	230	14.0	< 0.0428 U	< 0.0409 U	< 0.0544 UJ	4.74 J	< 0.0464 U	0.784 J	6.42 J	0.248 J	1.42 J	9.36 J
PCB-105/127	PCB-105/127	ng/g	120	14.0	4.72 J	0.872 J	18.0 J	43.7 J	1.34 J	40.0 J	84.9 J	16.4 J	39.9 J	57.1
PCB-106/118	PCB-106/118	ng/g	120	14.0	10.4 J	1.75 J	60.7 J	210 J	3.49 J	104 J	319 J	46.1 J	144	340 J
PCB-107/108	PCB-107/108	ng/g	230	14.0	1.12 J	< 0.0851 U	6.37 J	74.3 J	0.333 J	13.4 J	76.9 J	6.33 J	21.3 J	109 J
PCB-110	38380-03-9	ng/g	230	14.0	16.5 JEB	3.23 JEB	108 JEB	2250 JEB	7.21 JEB	225 JEB	2660 J	172 JEB	331 JEB	1350 JEB
PCB-111/117	PCB-111/117	ng/g	230	14.0	4.60 J	0.622 J	24.2 J	262 J	1.57 J	52.0 J	381 J	27.9	93.2	366 J
PCB-112	74472-36-9	ng/g	230	14.0	0.110 J	< 0.0421 U	0.450 J	26.2 J	< 0.0478 U	1.53 J	28.8 J	1.21 J	6.01 J	48.6 J
PCB-113	68194-10-5	ng/g	230	14.0	< 0.0463 U	< 0.0442 U	< 0.0588 UJ	34.0 J	< 0.0502 U	2.32 J	49.5 J	2.41 J	5.26 J	33.8 J
PCB-114	74472-37-0	ng/g	120	14.0	0.409 J	< 0.0367 U	1.38 J	< 0.171 U	< 0.0416 U	3.49 J	13.6 J	1.51 J	5.85 J	11.5 J
PCB-119	56558-17-9	ng/g	230	14.0	0.835 J	< 0.0486 U	5.43 J	180 J	0.418 J	20.7	164	9.41 J	30.8 J	186 J
PCB-122	76842-07-4	ng/g	230	14.0	0.197 J	< 0.0309 U	< 0.0411 UJ	< 0.144 U	< 0.0351 U	1.40 J	< 0.194 U	0.545 J	< 0.152 U	< 0.0922 U
PCB-123	65510-44-3	ng/g	120	14.0	0.635 J+	< 0.0287 U	2.15 J	15.3 J+	< 0.0325 U	4.76 J+	19.9 J+	1.86 J+	6.05 J+	20.5 J+
PCB-124	70424-70-3	ng/g	230	14.0	0.321 J	< 0.0386 U	2.56 J	< 0.180 U	< 0.0438 U	3.22 J	< 0.242 U	1.15 J	4.22 J	5.74 J
PCB-125	74472-39-2	ng/g	230	14.0	< 0.0443 U	< 0.0423 U	< 0.0562 UJ	3.22 J	< 0.0480 U	1.26 J	< 0.265 U	< 0.0480 U	< 0.207 U	9.95 J
PCB-126	57465-28-8	ng/g	0.0360	14.0	0.775 J+	< 0.0601 U	< 0.0799 UJ	13.5 J+	< 0.0682 U	1.98 J+	< 0.377 U	0.710 J+	< 0.295 U	20.1 J+
PCB-128	38380-07-3	ng/g	230	14.0	2.06 J	< 0.0425 U	18.8 J	70.3 J	0.330 J	25.3	119	6.46 J	29.0 J	92.3
PCB-129	55215-18-4	ng/g	230	14.0	0.419 J	< 0.0467 U	3.44 J	8.24 J	< 0.0530 U	5.28 J	15.9 J	1.22 J	4.79 J	19.7 J
PCB-130	52663-66-8	ng/g	230	14.0	0.911 J	< 0.0367 U	6.10 J	47.7 J	< 0.0416 U	8.97 J	65.6 J	3.61 J	14.2 J	63.0
PCB-131/142	PCB-131/142	ng/g	230	14.0	0.140 J	< 0.0904 U	0.979 J	4.11 J	< 0.103 U	1.51 J	7.47 J	0.450 J	< 0.443 U	5.04 J
PCB-132/168	PCB-132/168	ng/g	230	14.0	5.15 J	0.353 J	29.0 J	173 J	0.766 J	40.1 J	247 J	14.3 J	49.7 J	176 J
PCB-133	35694-04-3	ng/g	230	14.0	0.218 J	< 0.0329 U	1.75 J	42.7 J	< 0.0373 U	2.96 J	35.2 J	1.77 J	5.62 J	54.8
PCB-134	52704-70-8	ng/g	230	14.0	0.660 J	< 0.0871 U	4.65 J	63.1 J	< 0.0988 U	7.19 J	68.7 J	3.55 J	11.3 J	68.3
PCB-135/144	PCB-135/144	ng/g	230	14.0	2.55 J	< 0.0914 U	11.9 J	144	0.307 J	17.9 J	170	9.30 J	29.4 J	175 J
PCB-136	38411-22-2	ng/g	230	14.0	1.56 J	< 0.0762 U	9.75 J	108	0.269 J	14.0 J	129	7.17 J	20.4 J	109 J
PCB-137	35694-06-5	ng/g	230	14.0	0.445 J	< 0.0427 U	5.79 J	21.5 J	< 0.0484 U	8.02 J	33.5 J	2.08 J	11.3 J	44.4 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	23.3	1.26 J	99.9 J	574 J	1.72 J	131 J	691 J	42.0 J	167	834 J
PCB-139/149	PCB-139/149	ng/g	230	14.0	12.7 J	0.800 J	55.8 J	486 J	1.50 J	80.7 J	541 J	32.7	116	580 J
PCB-140	59291-64-4	ng/g	230	14.0	< 0.0652 U	< 0.0622 U	< 0.0827 UJ	8.44 J	< 0.0706 U	1.08 J	< 0.391 U	0.502 J	< 0.305 U	9.94 J
PCB-141	52712-04-6	ng/g	230	14.0	5.16 J	< 0.0437 U	12.1 J	26.0 J	0.291 J	14.5 J	49.8 J	3.82 J	17.6 J	53.4
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0588 U	< 0.0561 U	< 0.0746 UJ	< 0.261 U	< 0.0637 U	0.562 J	< 0.352 U	< 0.0637 U	< 0.275 U	< 0.167 U
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0776 U	< 0.0741 U	< 0.0985 UJ	< 0.345 U	< 0.0841 U	< 0.0842 U	< 0.465 U	< 0.0842 U	< 0.363 U	< 0.221 U
PCB-146	51908-16-8	ng/g	230	14.0	2.30 J	< 0.0502 U	10.1 J	114	0.318 J	15.1 J	109 J	6.75 J	23.5 J	149 J
PCB-147	68194-13-8	ng/g	230	14.0	0.382 J	< 0.0654 U	3.89 J	132	< 0.0742 U	8.03 J	81.4 J	3.91 J	17.5 J	183 J
PCB-148	74472-41-6	ng/g	230	14.0	< 0.0718 U	< 0.0685 U	< 0.0911 UJ	9.79 J	< 0.0777 U	0.587 J	5.15 J	0.271 J	< 0.336 U	12.9 J
PCB-150	68194-08-1	ng/g	230	14.0	< 0.0725 U	< 0.0692 U	0.225 J	13.1 J	< 0.0785 U	0.645 J	7.73 J	0.414 J	1.19 J	16.5 J
PCB-151	52663-63-5	ng/g	230	14.0	3.51 J	< 0.0502 U	12.7 J	217 J	0.391 J	20.6	223 J	11.0 J	37.8 J	279 J
PCB-152	68194-09-2	ng/g	230	14.0	< 0.0848 U	< 0.0809 U	0.271 J	12.9 J	< 0.0918 U	0.644 J	8.43 J	0.463 J	1.87 J	20.1 J
PCB-153	35065-27-1	ng/g	230	14.0	18.2 J	0.630 J	62.4 J	284 J	1.24 J	81.5 J	344 J	22.8	104	461 J
PCB-154	60145-22-4	ng/g	230	14.0	0.167 J	< 0.0482 U	1.63 J	60.5 J	< 0.0547 U	3.25 J	35.4 J	2.04 J	7.64 J	83.4
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0436 U	< 0.0416 U	< 0.0553 UJ	0.479 J	< 0.0472 U	< 0.0473 U	< 0.261 U	< 0.0473 U	< 0.204 U	0.724 J
PCB-156	38380-08-4	ng/g	120	14.0	1.57 J	< 0.0350 U	7.82 J	30.0 J	< 0.0397 U	13.1 J	52 J	3.60 J	16.1 J	63.7
PCB-157	69782-90-7	ng/g	120	14.0	0.541 J+	< 0.0486 U	3.59 J	10.6 J+	< 0.0551 U	4.80 J+	15.6 J+	1.01 J+	5.69 J+	20.1 J+

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0028-PLC2	23A-0028-PLC2	23A-0029-PLC1	23A-0029-PLC1	23A-0029-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0031-PLC1	23A-0031-PLC1
				Sample Name	23A-0028-PLC2-AS	23A-0028-PLC2-BS	23A-0029-PLC1-AS	23A-0029-PLC1-BS	23A-0029-PLC1-CS	23A-0030-PLC1-AS	23A-0030-PLC1-BS	23A-0030-PLC1-CS	23A-0031-PLC1-AS	23A-0031-PLC1-BS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 3.3 ft	3.3 - 5.8 ft	0 - 0.5 ft	0.5 - 1.8 ft	1.8 - 2.8 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-158/160	PCB-158/160	ng/g	230	14.0	2.01 J	< 0.107 U	8.70 J	34.1 J	0.178 J	12.4 J	57.6 J	3.46 J	16.2 J	54.1
PCB-159	39635-35-3	ng/g	230	14.0	0.486 J	< 0.0671 U	< 0.0892 UJ	6.93 J	< 0.0762 U	0.869 J	6.48 J	0.377 J	< 0.329 U	9.05 J
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0657 U	< 0.0628 U	< 0.0834 UJ	< 0.292 U	< 0.0712 U	< 0.0713 U	< 0.394 U	< 0.0713 U	< 0.307 U	< 0.187 U
PCB-162	39635-34-2	ng/g	230	14.0	0.220 J	< 0.0495 U	< 0.0658 UJ	< 0.230 U	< 0.0561 U	< 0.0562 U	< 0.310 U	0.250 J	< 0.242 U	5.80 J
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0710 U	< 0.0678 U	< 0.0901 UJ	7.30 J	< 0.0769 U	< 0.0771 U	6.01 J	0.300 J	< 0.332 U	8.89 J
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0611 U	< 0.0584 U	< 0.0776 UJ	< 0.272 U	< 0.0662 U	0.667 J	< 0.366 U	0.264 J	< 0.286 U	3.94 J
PCB-167	52663-72-6	ng/g	120	14.0	0.691 J	< 0.0449 U	4.10 J	13.8 J	< 0.0510 U	6.01 J	21.8 J	1.43 J	6.33 J	26.2 J
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0518 U	< 0.0495 U	< 0.0658 UJ	< 0.230 U	< 0.0561 U	< 0.0562 U	< 0.310 U	< 0.0562 U	< 0.242 U	< 0.147 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	11.2 J	< 0.0815 U	14.3 J	151	0.580 J	24.4	167	9.17 J	40.1 J	240 J
PCB-171	52663-71-5	ng/g	230	14.0	3.90 J	< 0.0647 U	3.86 J	40.2 J	< 0.0734 U	6.60 J	48.6 J	2.53 J	10.5 J	57.2
PCB-172/192	PCB-172/192	ng/g	230	14.0	1.65 J	< 0.107 U	1.77 J	23.9 J	< 0.122 U	3.10 J	24.7 J	1.34 J	5.02 J	35.1 J
PCB-173	68194-16-1	ng/g	230	14.0	0.252 J	< 0.0724 U	< 0.0962 UJ	< 0.337 U	< 0.0821 U	0.506 J	< 0.454 U	< 0.0822 U	< 0.355 U	< 0.216 U
PCB-174	38411-25-5	ng/g	230	14.0	13.4 J	< 0.0907 U	11.2 J	102	0.304 J	17.9 J	127	6.69 J	29.8 J	162 J
PCB-175	40186-70-7	ng/g	230	14.0	0.592 J	< 0.0558 U	0.434 J	6.89 J	< 0.0633 U	0.829 J	< 0.350 U	0.373 J	< 0.273 U	8.87 J
PCB-176	52663-65-7	ng/g	230	14.0	1.69 J	< 0.0521 U	1.33 J	16.2 J	< 0.0591 U	2.28 J	18 J	1.01 J	3.99 J	22.3 J
PCB-177	52663-70-4	ng/g	230	14.0	7.60 J	< 0.0650 U	7.10 J	92.3	0.252 J	11.4 J	99.2 J	5.28 J	20.7 J	126 J
PCB-178	52663-67-9	ng/g	230	14.0	2.60 J	< 0.0816 U	2.71 J	54.5 J	< 0.0926 U	4.57 J	49.4 J	2.61 J	8.66 J	74.2
PCB-179	52663-64-6	ng/g	230	14.0	4.70 J	< 0.0432 U	4.37 J	71.9 J	0.165 J	7.17 J	67.7 J	3.68 J	13.7 J	100
PCB-180	35065-29-3	ng/g	230	14.0	24.3	0.643 J	24.3 J	272 J	0.805 J	40.9 J	296 J	15.7 J	72.1 J	427 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0518 U	< 0.0495 U	< 0.0658 UJ	< 0.230 U	< 0.0561 U	< 0.0562 U	< 0.310 U	< 0.0562 U	< 0.242 U	< 0.147 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	14.5 J	0.236 J	13.3 J	223 J	0.482 J	22.3	204	10.6 J	43.4 J	311 J
PCB-183	52663-69-1	ng/g	230	14.0	7.30 J	< 0.0647 U	5.88 J	71.4 J	0.160 J	10.2 J	81 J	4.11 J	17.8 J	103
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0491 U	< 0.0469 U	< 0.0623 UJ	< 0.218 U	< 0.0532 U	< 0.0532 U	< 0.294 U	< 0.0532 U	< 0.229 U	< 0.140 U
PCB-185	52712-05-7	ng/g	230	14.0	1.82 J	< 0.0649 U	1.29 J	11.2 J	< 0.0736 U	2.09 J	14 J	0.656 J	3.19 J	18.2 J
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0613 U	< 0.0586 U	< 0.0778 UJ	< 0.272 U	< 0.0664 U	< 0.0665 U	< 0.367 U	< 0.0665 U	< 0.287 U	< 0.175 U
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0562 U	< 0.0537 U	< 0.0713 UJ	2.57 J	< 0.0609 U	< 0.0610 U	< 0.337 U	< 0.0610 U	< 0.263 U	3.37 J
PCB-189	39635-31-9	ng/g	130	14.0	0.317 J	< 0.0545 U	1.04 J	8.05 J	< 0.0619 U	1.00 J	9.22 J	0.543 J	< 0.267 U	12.4 J+
PCB-191	74472-50-7	ng/g	230	14.0	0.475 J	< 0.0493 U	0.554 J	4.97 J	< 0.0559 U	0.794 J	5.35 J	0.292 J	1.32 J	8.13 J
PCB-193	69782-91-8	ng/g	230	14.0	1.17 J	0.394 J	1.12 J	17.9 J	< 0.0706 U	2.00 J	17.6 J	0.998 J	4.06 J	28.8 J
PCB-194	35694-08-7	ng/g	230	14.0	3.69 J	< 0.0787 U	7.02 J	131	< 0.0892 U	12.8 J	186	6.34 J	25.5 J	190 J
PCB-195	52663-78-2	ng/g	230	14.0	2.06 J	< 0.139 U	2.71 J	42.9 J	< 0.158 U	4.28 J	37.8 J	2.30 J	9.42 J	60.8
PCB-196/203	PCB-196/203	ng/g	230	14.0	6.50 J	< 0.132 U	7.57 J	123	< 0.150 U	14.1 J	115	6.21 J	27.7 J	179 J
PCB-197	33091-17-7	ng/g	230	14.0	0.310 J	< 0.0589 U	< 0.0783 UJ	3.82 J	< 0.0668 U	0.485 J	3.26 J	< 0.0669 U	< 0.289 U	5.57 J
PCB-198	68194-17-2	ng/g	230	14.0	0.384 J	< 0.0956 U	< 0.127 UJ	5.55 J	< 0.108 U	0.635 J	< 0.600 U	< 0.109 U	< 0.468 U	8.18 J
PCB-199	52663-75-9	ng/g	230	14.0	4.94 J	< 0.0920 U	7.30 J	104	< 0.104 U	11.8 J	99.4 J	5.09 J	23.2 J	147 J
PCB-200	52663-73-7	ng/g	230	14.0	0.856 J	< 0.0469 U	1.04 J	12.8 J	< 0.0532 U	1.19 J	12.3 J	0.631 J	2.28 J	16.9 J
PCB-201	40186-71-8	ng/g	230	14.0	0.903 J	< 0.0371 U	0.881 J	13.1 J	< 0.0420 U	1.44 J	13.5 J	0.585 J	2.25 J	18.7 J
PCB-202	2136-99-4	ng/g	230	14.0	0.994 J	< 0.0633 U	1.22 J	20.0 J	< 0.0718 U	2.13 J	20.4 J	0.869 J	3.81 J	28.9 J
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0811 U	< 0.0774 U	< 0.103 UJ	< 0.360 U	< 0.0879 U	< 0.0880 U	< 0.486 U	< 0.0880 U	< 0.379 U	< 0.231 U
PCB-205	74472-53-0	ng/g	230	14.0	0.464 J	< 0.0549 U	< 0.0730 UJ	6.39 J	< 0.0623 U	0.593 J	8.34 J	< 0.0623 U	< 0.269 U	9.58 J
PCB-206	40186-72-9	ng/g	230	14.0	0.781 J	< 0.0526 U	5.03 J	56.2 J	< 0.0597 U	7.17 J	51.2 J	2.49 J	13.0 J	67.3
PCB-207	52663-79-3	ng/g	230	14.0	0.127 J	< 0.0696 U	0.580 J	5.93 J	< 0.0789 U	0.778 J	5.19 J	< 0.0790 U	< 0.341 U	8.03 J
PCB-208	52663-77-1	ng/g	230	14.0	0.293 J	< 0.0696 U	1.83 J	15.3 J	< 0.0789 U	2.24 J	12.5 J	0.386 J	2.75 J	15.0 J
PCB-209	2051-24-3	ng/g	230	14.0	< 0.0419 U	< 0.0400 U	4.57 J	21.0 J	< 0.0454 U	4.74 J	14 J	< 0.0455 U	4.07 J	12.4 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	< 0.0419 U	< 0.04 U	4.57	21.0	< 0.0454 U	4.74	14	< 0.0455 U	4.07	12.4
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	97.5	1.27	94.6	1170	2.75	158	1230	65.6	274	1740
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	85.3	3.04	375	2720	7.31	527	3150	187	714	3680
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	21.1	< 0.139 U	27.7	463	< 0.158 U	49.5	496	22.0	94.2	665
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	1040	105	5160	213000	437	37400	490000	14700	143000	439000
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	91.9	14.5	555	8590	35.9	1140	10600	709	1720	7720
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	91.7	21.0	1340	63300	94.9	11900	228000	4990	67700	231000
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	6.54	5.62	565	18600	28.9	2750	31500	331	38300	85400
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	1.20	< 0.0696 U	7.44	77.4	< 0.0789 U	10.2	68.9	2.88	15.8	90.3
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	304	30.4	970	45400	115	6530	71300	3170	7910	24900
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	342	29.3	1220	72700	152	14300	143000	5240	26200	83600

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Location					23A-0028-PLC2	23A-0028-PLC2	23A-0029-PLC1	23A-0029-PLC1	23A-0029-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0031-PLC1	23A-0031-PLC1
Sample Name					23A-0028-PLC2-AS	23A-0028-PLC2-BS	23A-0029-PLC1-AS	23A-0029-PLC1-BS	23A-0029-PLC1-CS	23A-0030-PLC1-AS	23A-0030-PLC1-BS	23A-0030-PLC1-CS	23A-0031-PLC1-AS	23A-0031-PLC1-BS
Sample Date					6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023
Sample Type					N	N	N	N	N	N	N	N	N	N
Depth Interval					0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 3.3 ft	3.3 - 5.8 ft	0 - 0.5 ft	0.5 - 1.8 ft	1.8 - 2.8 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	3600	6100	6800	9000	3500	8000	10000	2800	3800	4500
Calcium	7440-70-2	mg/kg			1400	2300	4300	3000	1400	4600	3000	1200	1500	1500
Iron	7439-89-6	mg/kg	5500	20000	11000	15000	17000	14000	9100	19000	13000	7300	9700	9300
Magnesium	7439-95-4	mg/kg			2000	5000	1900	3200	2300	2800	2600	1600	1400	1700
Potassium	7440-09-7	mg/kg			250 J	420	460 J	590 J	260 J	460 J	600 J	190 J	250 J	380 J
Sodium	7440-23-5	mg/kg			110 J	210 J	700	500 J	110 J	570 J	780 J	130 J	200 J	160 J
Antimony	7440-36-0	mg/kg	3.1	2	< 0.92 U	< 0.96 U	1.7	1.8	< 0.96 U	< 2.6 U	2.6	< 1.0 U	< 1.3 U	< 1.2 U
Arsenic	7440-38-2	mg/kg	0.68	9.8	1.4	2.5	7.2 J	11 J	1.5 J	6.2 J	6.7 J	1.4 J	2.7	5.3
Barium	7440-39-3	mg/kg	1500	20	17	28	110 J	110 J	9.6 J	76 J	100 J	32 J	53	53
Beryllium	7440-41-7	mg/kg	16		0.14 J	0.26 J	0.64	0.55 J	0.12 J	0.49 J	0.56 J	0.17 J	< 0.64 U	< 0.57 U
Cadmium	7440-43-9	mg/kg	0.71	1	< 0.46 U	< 0.48 U	1.6	1.9	< 0.48 U	1.7	3.5	0.17 J	0.96	0.95
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	8.9	13	58	110	8.2	57	110	18	23	30
Cobalt	7440-48-4	mg/kg	2.3	50	3.4	6.8	9.7	8.3	4.7	8.6	7.2	6.7	4.0	8.2
Copper	7440-50-8	mg/kg	310	31.6	13	22	74	130	13	64	140	11	34	61
Lead	7439-92-1	mg/kg	200	35.8	15	9.3	150	290	4.9	180	330	9.9	120	120
Manganese	7439-96-5	mg/kg	180	460	160	180	520	330	120	210	230	640	150	640
Nickel	7440-02-0	mg/kg	140	22.7	7.2	18	14	16	9.3	14	21	11	7.3	19
Selenium	7782-49-2	mg/kg	39	11	< 2.3 U	< 2.4 U	0.76 J	1.0 J	< 2.4 U	< 6.6 U	< 4.5 U	< 2.5 U	< 3.2 U	< 2.9 U
Silver	7440-22-4	mg/kg	39	1	0.18 J	< 0.48 U	0.41 J	0.61 J	< 0.48 U	0.48 J	1.1	0.056 J	0.30 J	0.33 J
Thallium	7440-28-0	mg/kg	0.078		< 0.46 U	< 0.48 U	< 0.46 U	< 0.77 U	< 0.48 U	< 1.3 U	< 0.89 U	< 0.51 U	< 0.64 U	< 0.57 U
Vanadium	7440-62-2	mg/kg	39		11	21	33	34	13	27	42	19	13	24
Zinc	7440-66-6	mg/kg	2300	121	32 J	29 J	300	290	24	240	360	33	130	210
Mercury	7439-97-6	mg/kg	2.3	0.18	< 0.12 U	< 0.10 U	0.91	2.0	< 0.096 U	0.88	2.1	0.029 J	0.54	0.64
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.59 U	< 0.53 U	< 0.50 U	< 0.91 U	< 0.55 U	< 1.5 U	< 1.1 U	< 0.53 U	< 0.78 U	< 0.72 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 UJ	< 12 UJ	< 6.8 U	< 7.4 UJ	< 7.4 UJ
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 UJ	< 12 UJ	< 6.8 U	< 7.4 UJ	< 7.4 UJ
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 UJ	< 12 UJ	< 6.8 U	< 7.4 U	< 7.4 UJ
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 UJ	< 12 UJ	< 6.8 U	< 7.4 U	< 7.4 UJ
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 UJ	< 12 UJ	< 6.8 U	< 7.4 UJ	< 7.4 UJ
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 UJ	< 12 UJ	< 6.8 U	< 7.4 U	< 7.4 UJ
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 UJ	< 12 UJ	< 6.8 U	< 7.4 UJ	< 7.4 UJ
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 UJ	< 12 UJ	< 6.8 U	< 7.4 UJ	< 7.4 UJ
2-HEXANONE	591-78-6	ug/kg	20000	45	< 9.3 UJ	-	< 53 UJ	< 19 U	< 13 U	< 31 U	< 25 U	< 14 U	< 15 U	< 15 U
ACETONE	67-64-1	ug/kg	7000000	65	< 9.3 U	-	1000 J	210	< 13 U	390	400	7.8 J	130	310
Benzene	71-43-2	ug/kg	1200	10	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0028-PLC2	23A-0028-PLC2	23A-0029-PLC1	23A-0029-PLC1	23A-0029-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0031-PLC1	23A-0031-PLC1
				Sample Name	23A-0028-PLC2-AS	23A-0028-PLC2-BS	23A-0029-PLC1-AS	23A-0029-PLC1-BS	23A-0029-PLC1-CS	23A-0030-PLC1-AS	23A-0030-PLC1-BS	23A-0030-PLC1-CS	23A-0031-PLC1-AS	23A-0031-PLC1-BS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 3.3 ft	3.3 - 5.8 ft	0 - 0.5 ft	0.5 - 1.8 ft	1.8 - 2.8 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 UJ	< 12 UJ	< 6.8 U	< 7.4 U	< 7.4 UJ
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	5.8 J	< 6.8 U	< 7.4 U	2.0
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 4.6 UJ	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
Chlorobenzene	108-90-7	ug/kg	28000	30	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 UJ	< 12 U	< 6.8 U	< 7.4 UJ	< 7.4 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
Chloroform	67-66-3	ug/kg	320	87	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
Cyclohexane	110-82-7	ug/kg	650000		< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
Ethylbenzene	100-41-4	ug/kg	5800	290	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 UJ	< 12 UJ	< 6.8 U	< 7.4 U	< 7.4 UJ
m,p-Xylene	179601-23-1	ug/kg	55000		< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	3.2 J	< 6.8 U	< 7.4 U	< 7.4 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 4.6 UJ	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	< 9.3 UJ	-	340 J	56	< 13 U	100	60	< 14 U	36	86
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 9.3 U	-	< 53 UJ	< 19 U	< 13 U	< 31 U	< 25 U	< 14 U	< 15 U	< 15 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 4.6 U	-	< 26 UJ	2.6 J	< 6.7 U	< 16 U	3.8 J+	< 6.8 U	7.8	15
Methylene Chloride	75-09-2	ug/kg	35000	18	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 UJ	< 12 UJ	< 6.8 U	< 7.4 U	< 7.4 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
Styrene	100-42-5	ug/kg	600000	126	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	6.3 J	< 6.8 U	< 7.4 U	< 7.4 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	29	< 6.8 U	< 7.4 U	< 7.4 U
Toluene	108-88-3	ug/kg	490000	10	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	8.1 J	< 6.8 U	< 7.4 U	< 7.4 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 4.6 UJ	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
Vinyl Chloride	75-01-4	ug/kg	59	482	< 4.6 U	-	< 26 UJ	< 9.5 U	< 6.7 U	< 16 U	< 12 U	< 6.8 U	< 7.4 U	< 7.4 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 210 UJ	< 180 U	< 790 UJ	< 320 UJ	< 190 U	< 500 UJ	< 390 UJ	< 190 U	< 270 U	< 250 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 410 U	< 360 U	< 1500 UJ	< 620 U	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 410 UJ	< 360 U	< 1500 UJ	< 620 UJ	< 370 U	< 980 UJ	< 760 UJ	< 370 U	< 520 U	< 490 U
2-NITROANILINE	88-74-4	ug/kg	63000		< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 410 U	< 360 U	< 1500 UJ	< 620 U	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U

Table 11
Sediment Analytical Results
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Lower Neponset River
Boston, Massachusetts

				Location	23A-0028-PLC2	23A-0028-PLC2	23A-0029-PLC1	23A-0029-PLC1	23A-0029-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0031-PLC1	23A-0031-PLC1
				Sample Name	23A-0028-PLC2-AS	23A-0028-PLC2-BS	23A-0029-PLC1-AS	23A-0029-PLC1-BS	23A-0029-PLC1-CS	23A-0030-PLC1-AS	23A-0030-PLC1-BS	23A-0030-PLC1-CS	23A-0031-PLC1-AS	23A-0031-PLC1-BS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 3.3 ft	3.3 - 5.8 ft	0 - 0.5 ft	0.5 - 1.8 ft	1.8 - 2.8 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 410 U	< 360 U	< 1500 UJ	< 620 U	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 410 UJ	< 360 U	< 1500 UJ	< 620 U	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 UJ	< 250 UJ
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 410 UJ	< 360 U	< 1500 UJ	< 620 UJ	< 370 U	< 980 UJ	< 760 UJ	< 370 U	< 520 U	< 490 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 410 UJ	< 360 UJ	< 1500 UJ	< 620 UJ	< 370 U	< 980 UJ	< 760 UJ	< 370 U	< 520 U	< 490 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 410 U	< 360 U	< 1500 UJ	< 620 U	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 410 U	< 360 U	< 1500 UJ	< 620 UJ	< 370 U	< 980 U	< 760 UJ	< 370 U	< 520 U	< 490 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		210 JEB	< 360 U	< 1500 UJ	250 J	< 370 U	270 J	200 J	120 J	210 J	150 J
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 410 U	< 360 U	< 1500 UJ	< 620 U	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 410 U	< 360 U	< 1500 UJ	< 620 U	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	460 J-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 410 U	< 360 U	< 1500 UJ	< 620 U	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 410 U	< 360 U	< 1500 UJ	< 620 U	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	100 J	< 180 U	< 790 UJ	150 J	< 190 U	330 J	310 J	76 J	260 J	130 J
Caprolactam	105-60-2	ug/kg	3100000		< 410 U	< 360 U	< 1500 UJ	< 620 U	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 410 U	< 360 U	< 1500 UJ	< 620 U	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	110 J	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 410 U	< 360 U	< 1500 UJ	< 620 U	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	1300	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 410 U	< 360 U	< 1500 UJ	< 620 U	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 210 U	< 180 U	< 790 UJ	< 320 U	< 190 U	< 500 U	< 390 U	< 190 U	< 270 U	< 250 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	< 1500 U	< 620 U	-	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	1400	-	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	175	54 J	< 360 U	< 1500 UJ	64 J	< 370 U	< 980 U	< 760 U	< 370 U	< 520 U	< 490 U
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	-	-	-	-	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
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					Location	23A-0028-PLC2	23A-0028-PLC2	23A-0029-PLC1	23A-0029-PLC1	23A-0029-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0030-PLC1	23A-0031-PLC1	23A-0031-PLC1
					Sample Name	23A-0028-PLC2-AS	23A-0028-PLC2-BS	23A-0029-PLC1-AS	23A-0029-PLC1-BS	23A-0029-PLC1-CS	23A-0030-PLC1-AS	23A-0030-PLC1-BS	23A-0030-PLC1-CS	23A-0031-PLC1-AS	23A-0031-PLC1-BS
					Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023	6/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 3.3 ft	3.3 - 5.8 ft	0 - 0.5 ft	0.5 - 1.8 ft	1.8 - 2.8 ft	0 - 0.5 ft	0.5 - 1.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		5.9 J	< 7.1 U	< 31 UJ	< 12 U	< 7.5 U	< 20 U	< 15 U	< 7.3 U	< 10 U	< 9.8 U	
1-Methylnaphthalene	90-12-0	ug/kg	18	141	57 EB	< 3.6 U	< 15 UJ	1.7 JEB	2.2 JEB	< 9.8 U	3.8 JEB	< 3.7 U	17 EB	15 EB	
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	66 EB	< 3.6 U	< 15 UJ	2.4 JEB	2.4 JEB	2.1 JEB	4.2 JEB	< 3.7 U	22 EB	7.5 EB	
Acenaphthene	83-32-9	ug/kg	360000	6.7	130	< 3.6 U	< 15 UJ	2.4 J	2.0 J	< 9.8 UJ	7.5 J	< 3.7 UJ	44	60	
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	24	1.3 J+	< 15 UJ	3.8 J	5.4	3.6 J	5.1 J	3.3 J	12	7.9	
ANTHRACENE	120-12-7	ug/kg	1800000	57	180	1.6 J+	< 15 UJ	1.8 J	5.3	3.4 J	3.9 J	2.3 J	55	31 J-	
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	7.0 EB	22 JEB	18 EB	17 EB	23 EB	35 EB	14 EB	150 EB	150 EB	
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	35	4.8	20 J	2.4 J	14	5.3 J	4.9 J	2.5 J	44 J-	25	
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	280 JEB	6.5 EB	34 JEB	29 JEB	20 EB	47 EB	49 JEB	19 EB	120 EB	150 EB	
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	1.8 J-	3.8	17 J	< 6.2 U	9.4	< 9.8 U	< 7.6 U	< 3.7 U	2.0 J-	< 4.9 U	
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	120 JEB	2.9 JEB	11 JEB	12 JEB	8.7 EB	17 EB	15 JEB	5.9 EB	52 JEB	40 EB	
CHRYSENE	218-01-9	ug/kg	110000	166	300 EB	6.1 EB	22 JEB	21 EB	14 EB	29 EB	33 EB	12 EB	120 EB	130 EB	
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	40 JEB	0.94 JEB	3.9 JEB	3.5 JEB	3.8 EB	5.2 JEB	5.4 JEB	2.1 JEB	16 JEB	11 EB	
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	9.4 EB	40 JEB	39 EB	21 EB	53 EB	69 EB	27 EB	200 EB	380 EB	
FLUORENE	86-73-7	ug/kg	240000	77	160 EB	< 3.6 U	< 15 UJ	3.4 JEB	3.0 JEB	2.7 JEB	10 EB	1.7 JEB	51 EB	56 EB	
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	34 J-	3.3 J	14 J	8.1	9.0	13	13	5.1	29 J-	20	
Naphthalene	91-20-3	ug/kg	2000	176	97 EB	< 3.6 U	< 15 UJ	6.8 EB	2.8 JEB	11 EB	13 EB	3.0 JEB	51 EB	16 EB	
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 8.2 U	< 7.2 U	-	-	2.8 J	-	-	-	-	-	
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	6.2 J+	16 J	21	12	25	53	13	320	330	
PYRENE	129-00-0	ug/kg	180000	195	240	7.9	32 J	27 J	21 J	36 J	48 J	17 J	180 J	180 J	
Total Organic Carbon															
TOTAL ORGANIC CARBON	TOC	mg/kg			16000	400	380000 J	50000	320 J	16000	100000	920	34000	19000	
AVS/SEM															
Acid Volatile Sulfide	AVS	umol/g			< 2.4 U	-	44 J	-	-	20	-	-	3.5	-	
Cadmium	7440-43-9	umol/g			0.00056	-	0.016 J	-	-	0.019	-	-	0.0073	-	
Copper	7440-50-8	umol/g			0.16	-	0.84 J	-	-	0.85	-	-	0.54	-	
Lead	7439-92-1	umol/g			0.080	-	0.73 J	-	-	1.1	-	-	0.42	-	
Nickel	7440-02-0	umol/g			0.25	-	0.17 J	-	-	0.14	-	-	0.23	-	
Silver	7440-22-4	umol/g			0.0016	-	0.00094 J	-	-	0.0011	-	-	0.00098	-	
Zinc	7440-66-6	umol/g			0.42	-	4.0 J	-	-	3.4	-	-	1.7	-	
Mercury	7439-97-6	umol/g			0.000035	-	< 0.00013 UJ	-	-	< 0.000078 U	-	-	< 0.000042 U	-	

Table 11
Sediment Analytical Results
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				Location	23A-0031-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0033-B2C1	23A-0033-B2C1	23A-0033-B2C1	23A-0034-PLC1	23A-0034-PLC1	23A-0034-PLC1
				Sample Name	23A-0031-PLC1-CS	23A-0032-PLC1-AS	23A-0032-PLC1-BS	23A-0032-PLC1-CS	23A-0033-B2C1-AS	23A-0033-B2C1-BS	23A-0033-B2C1-CS	23A-0034-PLC1-AS	23A-0034-PLC1-BS	23A-0034-PLC1-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 2.2 U	< 1.8 U	< 2.1 U	< 2.2 U	< 3.6 U	< 2.0 U	< 1.9 U	< 2.1 U	< 1.9 U	< 2.0 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 2.2 U	< 1.8 U	< 2.1 U	< 2.2 U	< 3.6 U	< 2.0 U	< 1.9 U	< 2.1 U	< 1.9 U	< 2.0 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 2.2 U	< 1.8 U	< 2.1 U	< 2.2 U	< 3.6 U	< 2.0 U	< 1.9 U	< 2.1 U	< 1.9 U	< 2.0 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 2.2 U	< 1.8 U	< 2.1 U	< 2.2 U	< 3.6 U	< 2.0 U	< 1.9 U	< 2.1 U	< 1.9 U	< 2.0 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	< 7.0 U	< 4.0 U	< 3.7 U	< 4.1 U	< 3.7 U	< 3.9 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		< 2.2 U	< 1.8 U	< 2.1 U	< 2.2 U	< 3.6 U	< 2.0 U	< 1.9 U	< 2.1 U	< 1.9 U	< 2.0 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		0.28 J	< 1.8 U	< 2.1 U	< 2.2 U	1.3 J	0.90 J	< 1.9 U	11 J	1.6 J	< 2.0 U
DIELDRIN	60-57-1	ug/kg	34	1.9	< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	< 7.0 U	< 4.0 U	< 3.7 U	< 4.1 U	< 3.7 U	< 3.9 U
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	< 7.0 U	< 4.0 U	< 3.7 U	0.80 J	< 3.7 U	< 3.9 U
ENDRIN	72-20-8	ug/kg	1900	2.22	< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	< 7.0 U	< 4.0 U	< 3.7 U	1.3 J	< 3.7 U	< 3.9 U
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	< 7.0 U	< 4.0 U	< 3.7 U	< 4.1 U	< 3.7 U	< 3.9 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	< 7.0 U	< 4.0 U	< 3.7 U	< 4.1 U	< 3.7 U	< 3.9 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	0.49 J	< 1.8 U	< 2.1 U	< 2.2 U	1.7 J	1.4 J	< 1.9 U	12 J	4.5 J	< 2.0 U
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 2.2 U	< 1.8 U	< 2.1 U	< 2.2 U	< 3.6 U	< 2.0 U	< 1.9 U	< 2.1 U	< 1.9 U	< 2.0 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	0.37 J	< 1.8 U	< 2.1 U	< 2.2 U	< 3.6 U	0.47 J	< 1.9 U	3.1 J	< 1.9 U	< 2.0 U
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 22 U	< 18 U	< 21 U	< 22 U	< 36 U	< 21 U	< 19 U	< 21 U	< 19 U	< 20 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	< 7.0 U	< 4.0 U	< 3.7 U	< 4.1 U	< 3.7 U	< 3.9 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	< 7.0 U	< 4.0 U	< 3.7 U	< 4.1 U	< 3.7 U	< 3.9 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	0.29 J	0.31 J	< 4.0 U	< 4.3 U	0.71 J	0.82 J	0.11 J	6.9	1.1 J	< 3.9 U
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 220 U	< 180 U	< 210 U	< 220 U	< 360 U	< 210 U	< 190 U	< 210 U	< 190 U	< 200 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		< 2.2 U	0.32 J	< 2.1 U	< 2.2 U	< 3.6 U	0.47 J	< 1.9 U	4.3 J	0.59 J	< 2.0 U
Grain Size														
%CLAY	%CLAY	%			27.1	21.8	28.1	24.2	7.4	18.8	29.2	15.2	15.8	19.8
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			0.7	0	0	0	3.6	6.3	0.1	3.7	9	0.4
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			1.3	1.9	2.6	2.4	36.2	16.8	4.3	34.2	12.6	4.4
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			0.9	0.3	1.5	0.5	5.8	18.1	2.3	14.1	14.4	1.6
Gravel	GRAVEL	%			11.5	0	0	0	1.8	8.6	1.3	1.4	23.6	0
Hydrometer, Reading 1, Percent Passing	HYD01	%			53.2	52.7	36.5	32.5	12.9	22	37	21.5	20.2	60.4
Hydrometer, Reading 2, Percent Passing	HYD02	%			50	49.3	34.8	30.8	7.4	22	35.5	19.9	18.7	51
Hydrometer, Reading 3, Percent Passing	HYD03	%			43.4	39	33.1	29.2	7.4	20.4	33.9	18.3	18.7	38.5
Hydrometer, Reading 4, Percent Passing	HYD04	%			36.9	32.1	31.4	27.5	7.4	20.4	32.4	16.8	17.3	32.3
Hydrometer, Reading 5, Percent Passing	HYD05	%			27.1	21.8	28.1	24.2	7.4	18.8	29.2	15.2	15.8	19.8
Hydrometer, Reading 6, Percent Passing	HYD06	%			14.1	9.7	21.3	19.3	7.4	15.6	23	12	12.8	10.4
Hydrometer, Reading 7, Percent Passing	HYD07	%			7.6	4.6	16.3	14.3	7.4	14	18.3	10.5	12.8	7.3
Sand	308075-07-2	%			2.9	2.2	4.1	2.9	45.6	41.2	6.7	52	36	6.4
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			87.8	100	100	100	94.6	85.1	98.6	94.9	67.4	99.6
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			86.9	99.7	98.5	99.5	88.8	67	96.3	80.8	53	98
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			86.4	99.5	97.6	99.1	81.4	60	95.1	58.5	44.9	97.1
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			87.4	99.9	99.3	99.8	91.9	74.6	97.2	91.2	61.1	98.6
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			86.6	99.6	98	99.3	85.4	62.9	95.6	66	47.5	97.7
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			86.2	99.2	97.3	98.9	76.3	57.9	94.6	54.5	43.6	96.6
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			85.6	97.8	95.9	97.1	52.6	50.2	92	46.6	40.4	93.6
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			88.5	100	100	100	98.2	91.4	98.7	98.6	76.4	100
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			88.5	100	100	100	100	100	100	100	86.4	100
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	100	100	100	100	100	100	100	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	100	100	100	100	100	100	100	100
SILT	445	%			58.5	76	67.8	72.9	45.2	31.4	62.8	31.4	24.6	73.8

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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				Location	23A-0031-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0033-B2C1	23A-0033-B2C1	23A-0033-B2C1	23A-0034-PLC1	23A-0034-PLC1	23A-0034-PLC1
				Sample Name	23A-0031-PLC1-CS	23A-0032-PLC1-AS	23A-0032-PLC1-BS	23A-0032-PLC1-CS	23A-0033-B2C1-AS	23A-0033-B2C1-BS	23A-0033-B2C1-CS	23A-0034-PLC1-AS	23A-0034-PLC1-BS	23A-0034-PLC1-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	7.25	28.3	24.5 J	8.42 J	551	52.7 J	7.41	67.1 J	51.8	10.0
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	< 0.188 U	0.464 JN	< 0.442 U	< 0.263 U	13.9	< 0.356 U	< 0.185 U	2.17 J	1.02 JN	< 0.121 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	< 0.284 U	0.377 JN	< 0.41 U	< 0.63 U	5.50	0.983 J	0.343 J	< 0.383 U	0.689 J	0.249 JN
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	< 4.94 UJ	0.973 J	1.16 J	< 4.96 UJ	24.3 J	1.67 JN	< 4.95 UJ	5.57 J	2.41 J	0.149 JN
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	< 0.298 U	1.6 J	1.89 J	< 0.649 UJ	28.8	2.24 JN	< 0.231 U	4.01 J	2.8	0.442 JN
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	< 0.14 U	0.51 JN	< 0.621 U	< 0.252 U	11.5	1.24 J	< 0.154 U	2.35 JN	1.17 J	< 0.0887 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	< 0.29 U	1.05 J	1.27 J	< 0.606 U	16.7	1.52 JN	0.563 J	2.56	1.54 J	0.568 J
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.184 U	< 0.174 U	< 0.668 U	< 0.278 U	< 0.589 U	< 0.219 U	< 0.197 U	< 0.333 U	< 0.247 U	< 0.109 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	< 0.217 UJ	< 0.355 UJ	< 0.485 UJ	< 0.552 UJ	2.48 JN	< 0.392 UJ	< 0.181 UJ	< 0.694 UJ	0.359 JN	< 0.143 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	< 0.115 U	< 0.111 U	< 0.299 U	< 0.323 U	2.91 J	0.779 JN	< 0.147 U	1.22 JN	0.535 J	< 0.101 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	0.923 J	14.7	13.2 J+	< 0.18 U	324	26.2 J+	0.444 J	36.6 J+	22.1	2.02 J
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	< 0.145 U	0.555 J	0.569	< 0.253 U	10.2	1.48 J	< 0.172 U	2.85 JN	1.24 J	< 0.0984 U
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	< 0.118 U	0.9 J	1.09 JN	< 0.35 U	18.4	2.46 JN	< 0.139 U	10.7 J	3.10 J	0.256 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 0.184 U	< 0.15 U	< 0.503 UJ	< 0.668 UJ	0.958	< 0.54 UJ	0.206 J	< 0.576 UJ	< 0.236 U	< 0.0918 U
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	< 0.265 U	0.404 J	0.600 JN	< 0.259 UJ	6.61	1.38 JN	< 0.109 U	2.83 J	1.11 J	< 0.148 U
OCDD	3268-87-9	pg/g	16000	5000	93.2	344	129 J	299 J	3510	444 J	330	447 J	421	273
OCDF	39001-02-0	pg/g	16000	5000	1.18 J	14.2	8.50 JN	< 0.67 U	343	15.4	< 0.377 U	42.4	24.7	1.68 JN
Total HpCDD (a)	RA_Total_HpCDD	pg/g			7.25	28.3	24.5	8.42	551	52.7	7.41	67.1	51.8	10.0
Total HpCDF (a)	RA_Total_HpCDF	pg/g			0.923	15.2	13.2	< 0.263 U	338	26.2	0.444	38.8	23.1	2.02
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		< 0.298 U	3.03	3.16	< 0.649 U	51.0	4.74	0.906	6.57	5.03	1.26
Total HxCDF (a)	RA_Total_HxCDF	pg/g			< 4.94 U	2.04	1.73	< 4.96 U	46.0	4.39	< 4.95 U	10.8	4.82	0.149
Total PeCDD (a)	RA_Total_PeCDD	pg/g			< 0.217 U	< 0.355 U	< 0.485 U	< 0.552 U	2.48	< 0.392 U	< 0.181 U	< 0.694 U	0.359	< 0.143 U
Total PeCDF (a)	RA_Total_PeCDF	pg/g			< 0.118 U	0.9	1.09	< 0.35 U	21.3	3.24	< 0.147 U	11.9	3.64	0.256
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.184 U	< 0.15 U	< 0.503 U	< 0.668 U	0.958	< 0.54 U	0.206	< 0.576 U	< 0.236 U	< 0.0918 U
Total TCDF (a)	RA_Total_TCDF	pg/g			< 0.265 U	0.404	0.600	< 0.259 U	6.61	1.38	< 0.109 U	2.83	1.11	< 0.148 U
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	122 JEB	5.37 JEB	12.6 EB	126 JEB	109 JEB	59.5 JEB	1.44 JEB	396 JEB	253 JEB	12.6 JEB
PCB-002	2051-61-8	ng/g	230	14.0	< 0.0267 U	< 0.0255 U	< 0.0256 U	0.447 JEB	3.54 JEB	2.18 JEB	< 0.0269 U	5.59 J	4.72 JEB	< 0.0263 U
PCB-003	2051-62-9	ng/g	230	14.0	4.61 J	1.13 J	1.10 J	11.2	36.8 J	8.56 J	< 0.0262 UJ	86.6 J	74.3 J	2.65 J
PCB-004/010	PCB-4/10	ng/g	230	14.0	195 JEB	14.6 JEB	15.8 EB	152 JEB	657 JEB	333 JEB	5.59 JEB	1070 JEB	964 JEB	37.7 JEB
PCB-005/008	PCB-5/8	ng/g	230	14.0	140 JEB	18.6 JEB	4.13 JEB	33.5 JEB	381 JEB	272 JEB	5.28 JEB	789 J	377 JEB	26.8 JEB
PCB-006	25569-80-6	ng/g	230	14.0	10.7 JEB	4.52 JEB	0.634 JEB	4.17 JEB	96.8 JEB	95.2 JEB	1.49 JEB	243 J	105 JEB	5.63 JEB
PCB-007/009	PCB-7/9	ng/g	230	14.0	5.26 J-	< 0.0429 U	< 0.0431 U	1.32 J	35.2 J	42.6 J	< 0.0452 U	48.5 J	34.0 J	2.89 J
PCB-011	2050-67-1	ng/g	230	14.0	< 0.0248 UJ	< 0.0236 U	< 0.0237 U	0.463 JEB	12.9 EB	4.85 JEB	< 0.0249 U	25.5 JEB	6.61 JEB	< 0.0243 U
PCB-012/013	PCB-12/13	ng/g	230	14.0	< 0.0446 UJ	< 0.0425 U	< 0.0427 U	0.859 J	43.3 J	15.9	< 0.0448 U	131 J	27.4 J	1.26 J
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0249 UJ	< 0.0237 U	< 0.0238 U	< 0.0250 U	< 0.0250 U	< 0.0240 U	< 0.0250 U	< 0.0238 U	< 0.0251 U	< 0.0244 U
PCB-015	2050-68-2	ng/g	230	14.0	< R	13.6 J	0.903 J	5.54 J	375 J	88.4 J	< 0.0229 UJ	766 J	264 J	15.7 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	25.0 JEB	23.7 JEB	1.71 JEB	11.6 EB	802 JEB	204 JEB	3.99 JEB	1050 JEB	423 JEB	25.7 JEB
PCB-017	37680-66-3	ng/g	230	14.0	8.10 JEB	15.3 JEB	1.18 JEB	7.35 JEB	544 JEB	220 JEB	4.60 JEB	890 JEB	274 JEB	21.6 JEB
PCB-018	37680-65-2	ng/g	230	14.0	6.87 JEB	17.3 JEB	0.389 JEB	2.48 JEB	369 JEB	138 JEB	2.93 JEB	469 JEB	84.3 JEB	6.61 JEB
PCB-019	38444-73-4	ng/g	230	14.0	29.9 J	5.94 J	1.79 J	15.2	293 J	71.0 J	1.19 J	311 J	250 J	9.73
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	< 0.0691 U	7.43 JEB	< 0.0662 U	< 0.0693 U	64.3 JEB	21.7 JEB	< 0.0694 U	82.0 JEB	8.91 JEB	< 0.0678 U
PCB-022	38444-85-8	ng/g	230	14.0	< 0.0246 U	6.03 JEB	< 0.0235 U	0.310 JEB	62.4 JEB	20.5 JEB	< 0.0247 U	132 J	17.9 EB	1.34 JEB
PCB-023/034	PCB-23/34	ng/g	230	14.0	0.594 J	< 0.0428 U	< 0.0430 U	< 0.0451 U	9.87 J	3.82 J	< 0.0451 U	14.0	2.95 J	< 0.0441 U
PCB-024/027	PCB-24/27	ng/g	230	14.0	16.9 J	4.61 J	0.592 J	4.56 J	176 J	50.8 J	1.18 J	181 J	101 J	5.97 J
PCB-025	55712-37-3	ng/g	230	14.0	1.02 J	5.26 J	0.333 J	1.37 J	282 J	103 J	1.57 J	393 J	107 J	6.97 J
PCB-026	38444-81-4	ng/g	230	14.0	5.05 JEB	8.07 JEB	0.493 JEB	2.67 JEB	366 JEB	140 JEB	2.52 JEB	387 J	105 JEB	7.04 JEB
PCB-028	7012-37-5	ng/g	230	14.0	5.44 JEB	27.8 JEB	0.367 JEB	0.609 JEB	870 JEB	304 JEB	5.86 JEB	790 JEB	87.4 JEB	12.3 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0260 U	< 0.0248 U	< 0.0249 U	< 0.0261 U	< 0.0261 U	< 0.0251 U	< 0.0261 U	1.30 J	< 0.0262 U	< 0.0255 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0031-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0033-B2C1	23A-0033-B2C1	23A-0033-B2C1	23A-0034-PLC1	23A-0034-PLC1	23A-0034-PLC1
				Sample Name	23A-0031-PLC1-CS	23A-0032-PLC1-AS	23A-0032-PLC1-BS	23A-0032-PLC1-CS	23A-0033-B2C1-AS	23A-0033-B2C1-BS	23A-0033-B2C1-CS	23A-0034-PLC1-AS	23A-0034-PLC1-BS	23A-0034-PLC1-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0238 U	< 0.0227 U	< 0.0228 U	< 0.0239 U	0.507 J	< 0.0230 U	< 0.0239 U	0.453 J	< 0.0240 U	< 0.0234 U
PCB-031	16606-02-3	ng/g	230	14.0	8.82 JEB	19.5 JEB	0.828 JEB	4.74 JEB	746 JEB	250 JEB	4.19 JEB	1120 JEB	229 JEB	15.5 JEB
PCB-035	37680-69-6	ng/g	230	14.0	< 0.0282 U	< 0.0269 U	< 0.0270 U	< 0.0283 U	6.63 J+	< 0.0272 U	< 0.0283 U	5.89 J+	< 0.0285 U	< 0.0277 U
PCB-036	38444-87-0	ng/g	230	14.0	< 0.0241 U	< 0.0230 U	< 0.0231 U	< 0.0242 U	3.32 J	< 0.0232 U	< 0.0242 U	< 0.0230 U	< 0.0243 U	< 0.0236 U
PCB-037	38444-90-5	ng/g	230	14.0	< R	5.36 J	< 0.0253 U	< 0.0265 U	109 J	14.1	< 0.0266 U	70.0 J	13.7	< 0.0260 U
PCB-038	53555-66-1	ng/g	230	14.0	< 0.0199 U	< 0.0190 U	< 0.0191 U	< 0.0200 U	15.7	< 0.0192 U	< 0.0200 U	< 0.0190 U	3.39 J	< 0.0196 U
PCB-039	38444-88-1	ng/g	230	14.0	< 0.0122 U	< 0.0117 U	< 0.0117 U	< 0.0123 U	2.53 J	< 0.0118 U	< 0.0123 U	3.47 J	< 0.0123 U	< 0.0120 U
PCB-040	38444-93-8	ng/g	230	14.0	< 0.0204 U	1.68 JEB	< 0.0196 U	< 0.0205 U	41.1 JEB	9.09 JEB	< 0.0205 U	15.6	3.10 JEB	< 0.0201 U
PCB-041/064	PCB-41/64	ng/g	230	14.0	0.882 J+	7.34 J	< 0.0444 U	< 0.0466 U	159 J	36.5 J	0.616 J	87.3 J	19.5	2.19 J
PCB-042	36559-22-5	ng/g	230	14.0	< 0.0510 U	3.77 J	< 0.0489 U	0.194 J	165 J	31.2 J	0.388 J	121 J	21.1 J	1.70 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	5.23 JEB	15.3 JEB	0.346 JEB	1.84 JEB	700 JEB	144 JEB	2.69 JEB	720 J	119 JEB	7.97 JEB
PCB-044	41464-39-5	ng/g	230	14.0	< 0.0271 U	9.77 EB	< 0.0260 U	0.236 JEB	300 JEB	67.3 JEB	1.27 JEB	160 JEB	28.0 JEB	2.77 JEB
PCB-045	70362-45-7	ng/g	230	14.0	< 0.0222 U	2.17 J	< 0.0213 U	< 0.0223 U	55.2 J	10.8	< 0.0223 U	14.9	5.03 J	0.507 J
PCB-046	41464-47-5	ng/g	230	14.0	< 0.0260 U	1.11 J	< 0.0249 U	< 0.0261 U	35.7 J	5.91 J	< 0.0261 U	27.4 J	5.26 J	< 0.0255 U
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	9.18 JEB	12.6 JEB	0.313 JEB	1.66 JEB	570 JEB	105 JEB	1.82 JEB	548 J	109 JEB	6.76 JEB
PCB-050	62796-65-0	ng/g	230	14.0	< 0.0317 U	< 0.0302 U	< 0.0304 U	< 0.0318 U	6.22 J	1.45 J	< 0.0318 U	7.02 J	2.32 J	< 0.0311 U
PCB-051	68194-04-7	ng/g	230	14.0	1.02 J+	2.61 J	< 0.0258 U	0.805 J	115 J	27.0 J	0.428 J	151 J	34.0 J	2.13 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	2.70 JEB	14.2 JEB	0.305 JEB	1.56 JEB	550 JEB	127 JEB	2.35 JEB	529 JEB	88.0 JEB	6.33 JEB
PCB-053	41464-41-9	ng/g	230	14.0	2.12 J+	4.66 J	< 0.0230 U	1.23 J	196 J	56.8 J	0.972 J	228 J	44.8 J	2.89 J
PCB-054	15968-05-5	ng/g	230	14.0	0.574 J+	0.222 J	< 0.0201 U	0.200 J	9.63 J	2.52 J	< 0.0211 U	13.4	5.41 J	0.281 J
PCB-055	74338-24-2	ng/g	230	14.0	< 0.0273 U	< 0.0261 U	< 0.0262 U	< 0.0274 U	2.71 J	< 0.0264 U	< 0.0274 U	< 0.0261 U	< 0.0276 U	< 0.0268 U
PCB-056/060	PCB-56/60	ng/g	230	14.0	< 0.0534 U	7.33 JEB	< 0.0512 U	< 0.0536 U	108 JEB	11.6 EB	< 0.0536 U	77.9 JEB	5.93 JEB	< 0.0524 U
PCB-057	70424-67-8	ng/g	230	14.0	< 0.0211 U	< 0.0201 U	< 0.0202 U	< 0.0212 U	7.09 J	3.32 J	< 0.0212 U	4.53 J	1.11 J	< 0.0207 U
PCB-058	41464-49-7	ng/g	230	14.0	< 0.0191 U	< 0.0183 U	< 0.0183 U	< 0.0192 U	1.57 J	< 0.0185 U	< 0.0192 U	1.31 J	< 0.0193 U	< 0.0188 U
PCB-059	74472-33-6	ng/g	230	14.0	< 0.0375 U	1.03 J	< 0.0359 U	< 0.0376 U	16.7	3.49 J	< 0.0377 U	6.18 J	2.18 J	0.327 J
PCB-061/074	PCB-61/74	ng/g	230	14.0	< 0.0493 U	5.91 JEB	< 0.0472 U	< 0.0494 U	122 JEB	27.3 JEB	< 0.0494 U	157 J	18.8 EB	0.898 JEB
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0262 U	< 0.0249 U	< 0.0251 U	< 0.0263 U	< 0.0263 U	< 0.0252 U	< 0.0263 U	< 0.0250 U	< 0.0264 U	< 0.0257 U
PCB-063	74472-34-7	ng/g	230	14.0	1.95 J+	1.02 J	< 0.0188 U	< 0.0197 U	28.1 J	9.86	< 0.0197 U	31.7 J	4.19 J	0.378 J
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0377 U	< 0.0360 U	< 0.0361 U	< 0.0378 U	< 0.0379 U	< 0.0364 U	< 0.0379 U	< 0.0360 U	< 0.0380 U	< 0.0370 U
PCB-066/080	PCB-66/80	ng/g	230	14.0	< 0.0478 UJ	10.2 EB	< 0.0458 U	< 0.0479 U	193 JEB	22.8 JEB	< 0.0480 U	263 JEB	18.1 EB	0.878 JEB
PCB-067	73575-53-8	ng/g	230	14.0	< 0.0231 U	< 0.0220 U	< 0.0221 U	< 0.0232 U	10.9	2.60 J	< 0.0232 U	9.40 J	0.992 J	< 0.0227 U
PCB-068	73575-52-7	ng/g	230	14.0	0.941 J+	< 0.0261 U	< 0.0262 U	< 0.0274 U	9.67 J	2.57 J	< 0.0274 U	9.57	2.16 J	< 0.0268 U
PCB-069	60233-24-1	ng/g	230	14.0	2.76 J+	< 0.0271 U	< 0.0272 U	< 0.0285 U	2.68 J	< 0.0274 U	< 0.0285 U	2.71 J	0.852 J	< 0.0279 U
PCB-070	32598-11-1	ng/g	230	14.0	< 0.0257 U	10.2 EB	< 0.0246 U	< 0.0258 U	213 JEB	17.7 EB	< 0.0258 U	255 J	13.6 EB	0.672 JEB
PCB-071	41464-46-4	ng/g	230	14.0	1.29 J+EB	4.74 JEB	< 0.0333 U	0.477 JEB	162 JEB	41.5 JEB	0.694 JEB	150 J	33.5 JEB	2.57 JEB
PCB-072	41464-42-0	ng/g	230	14.0	< 0.0308 U	< 0.0294 U	< 0.0295 U	< 0.0309 U	12.1	< 0.0297 U	< 0.0309 U	10.8	3.04 J	< 0.0302 U
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0378 U	< 0.0360 U	< 0.0362 U	< 0.0379 U	< 0.0380 U	< 0.0365 U	< 0.0380 U	< 0.0361 U	< 0.0381 U	< 0.0371 U
PCB-077	32598-13-3	ng/g	38.0	14.0	< R	< 0.0213 U	< 0.0214 U	< 0.0224 U	27.3 J	4.14 J+	< 0.0224 U	17.5 J+	3.73 J+	< 0.0219 U
PCB-078	70362-49-1	ng/g	230	14.0	< 0.0193 U	< 0.0184 U	< 0.0185 U	< 0.0194 U	< 0.0195 U	< 0.0187 U	< 0.0194 U	0.560 J	< 0.0195 U	< 0.0190 U
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0243 U	< 0.0232 U	< 0.0233 U	< 0.0244 U	0.837 J	< 0.0234 U	< 0.0244 U	< 0.0232 U	< 0.0245 U	< 0.0238 U
PCB-081	70362-50-4	ng/g	12.0	14.0	< R	< 0.0361 U	< 0.0363 U	< 0.0380 U	1.52 J+	< 0.0366 U	< 0.0380 U	1.42 J+	< 0.0382 U	< 0.0372 U
PCB-082	52663-62-4	ng/g	230	14.0	< 0.0139 U	< 0.0133 U	< 0.0133 U	< 0.0140 U	10.8	2.15 J	< 0.0140 U	11.4	1.25 J	< 0.0137 U
PCB-083/109	PCB-83/109	ng/g	230	14.0	< 0.0598 U	< 0.0570 U	< 0.0573 U	< 0.0600 U	9.40 J	2.94 J	< 0.0600 U	8.27 J	1.32 J	< 0.0587 U
PCB-084	52663-60-2	ng/g	230	14.0	< 0.0241 U	1.49 J	< 0.0231 U	< 0.0242 U	33.7 J	9.41 J	< 0.0242 U	25.4 J	4.99 J	0.495 J
PCB-085/120	PCB-85/120	ng/g	230	14.0	< 0.0537 U	1.19 J	< 0.0514 U	< 0.0539 U	18.8	4.83 J	< 0.0539 U	24.4 J	3.48 J	< 0.0527 U
PCB-086/097	PCB-86/97	ng/g	230	14.0	< 0.0236 U	1.53 J	< 0.0226 U	< 0.0237 U	24.1 J	5.14 J	< 0.0237 U	34.8 J	3.55 J	< 0.0232 U
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	< 0.0152 U	2.51 J	< 0.0146 U	< 0.0153 U	46.6 J	9.00 J	< 0.0153 U	44.9 J	< 0.0153 U	< 0.0149 U
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.0550 U	< 0.0524 U	< 0.0527 U	< 0.0552 U	< 0.0553 U	< 0.0531 U	< 0.0552 U	< 0.0525 U	< 0.0554 U	< 0.0540 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	0.534 J	4.11 J	< 0.0570 U	< 0.0597 U	94.1 J	16.9	< 0.0598 U	107 J	13.3	0.732 J
PCB-091	68194-05-8	ng/g	230	14.0	1.12 J	1.52 J	< 0.0295 U	< 0.0309 U	47.9 J	11.8	< 0.0309 U	37.1 J	9.52 J	0.698 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0031-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0033-B2C1	23A-0033-B2C1	23A-0033-B2C1	23A-0034-PLC1	23A-0034-PLC1	23A-0034-PLC1
				Sample Name	23A-0031-PLC1-CS	23A-0032-PLC1-AS	23A-0032-PLC1-BS	23A-0032-PLC1-CS	23A-0033-B2C1-AS	23A-0033-B2C1-BS	23A-0033-B2C1-CS	23A-0034-PLC1-AS	23A-0034-PLC1-BS	23A-0034-PLC1-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-092	52663-61-3	ng/g	230	14.0	0.898 J	1.32 J	< 0.0130 U	< 0.0136 U	33.9 J	8.96 J	< 0.0136 U	28.6 J	5.37 J	0.536 J
PCB-093/095	PCB-93/95	ng/g	230	14.0	0.581 J	3.66 J	< 0.0381 U	< 0.0399 U	85.4 J	26.7 J	< 0.0399 U	65.7 J	12.7	1.24 J
PCB-094	73575-55-0	ng/g	230	14.0	< 0.0454 U	< 0.0433 U	< 0.0435 U	< 0.0456 U	6.02 J	1.55 J	< 0.0456 U	3.68 J	1.02 J	< 0.0446 U
PCB-096	73575-54-9	ng/g	230	14.0	< 0.0214 U	< 0.0204 U	< 0.0205 U	< 0.0215 U	3.64 J	1.27 J	< 0.0215 U	2.51 J	0.665 J	< 0.0210 U
PCB-098/102	PCB-98/102	ng/g	230	14.0	0.581 J	< 0.0378 U	< 0.0380 U	< 0.0398 U	13.8	4.36 J	< 0.0398 U	13.1	3.29 J	< 0.0390 U
PCB-099	38380-01-7	ng/g	230	14.0	< 0.0219 U	2.47 J	< 0.0210 U	< 0.0220 U	54.7 J	10.9	< 0.0220 U	75.6 J	10.1	0.422 J
PCB-100	39485-83-1	ng/g	230	14.0	< 0.0242 U	< 0.0231 U	< 0.0232 U	< 0.0243 U	11.2	1.00 J	< 0.0243 U	6.22 J	1.44 J	< 0.0237 U
PCB-103	60145-21-3	ng/g	230	14.0	< 0.0250 U	< 0.0238 U	< 0.0239 U	< 0.0251 U	6.20 J	1.22 J	< 0.0251 U	5.30 J	1.25 J	< 0.0245 U
PCB-104	56558-16-8	ng/g	230	14.0	< 0.0231 U	< 0.0220 U	< 0.0221 U	< 0.0232 U	0.708 J	< 0.0223 U	< 0.0232 U	0.658 J	< 0.0233 U	< 0.0227 U
PCB-105/127	PCB-105/127	ng/g	120	14.0	< 0.0392 U	1.95 J	< 0.0375 U	< 0.0393 U	26.1 J	5.57 J	< 0.0393 U	36.9 J	3.59 J	< 0.0385 U
PCB-106/118	PCB-106/118	ng/g	120	14.0	< 0.0468 U	4.10 J	< 0.0448 U	< 0.0470 U	77.3 J	13.2	< 0.0470 U	118 J	12.4	< 0.0459 U
PCB-107/108	PCB-107/108	ng/g	230	14.0	< 0.0481 U	< 0.0458 U	< 0.0461 U	< 0.0482 U	10.1	1.54 J	< 0.0483 U	12.2	1.07 J	< 0.0472 U
PCB-110	38380-03-9	ng/g	230	14.0	4.73 JEB	6.67 JEB	< 0.0215 U	0.157 JEB	136 JEB	44.3 JEB	0.826 JEB	128 J	25.9 JEB	2.29 JEB
PCB-111/117	PCB-111/117	ng/g	230	14.0	< 0.0682 U	< 0.0650 U	< 0.0653 U	< 0.0685 U	< 0.0686 U	7.84 J	< 0.0685 U	35.3 J	6.24 J	< 0.0670 U
PCB-112	74472-36-9	ng/g	230	14.0	< 0.0238 U	< 0.0227 U	< 0.0228 U	< 0.0239 U	1.21 J	< 0.0230 U	< 0.0239 U	1.16 J	< 0.0240 U	< 0.0234 U
PCB-113	68194-10-5	ng/g	230	14.0	< 0.0250 U	< 0.0238 U	< 0.0239 U	< 0.0251 U	< 0.0251 U	< 0.0241 U	< 0.0251 U	< 0.0238 U	< 0.0252 U	< 0.0245 U
PCB-114	74472-37-0	ng/g	120	14.0	< 0.0207 U	< 0.0198 U	< 0.0199 U	< 0.0208 U	2.21 J	< 0.0200 U	< 0.0208 U	3.27 J	< 0.0209 U	< 0.0204 U
PCB-119	56558-17-9	ng/g	230	14.0	< 0.0274 U	< 0.0262 U	< 0.0263 U	< 0.0275 U	12.8	2.71 J	< 0.0275 U	9.77	1.67 J	< 0.0269 U
PCB-122	76842-07-4	ng/g	230	14.0	< 0.0175 U	< 0.0167 U	< 0.0167 U	< 0.0175 U	< 0.0176 U	< 0.0169 U	< 0.0175 U	1.38 J	< 0.0176 U	< 0.0172 U
PCB-123	65510-44-3	ng/g	120	14.0	< 0.0162 U	< 0.0154 U	< 0.0155 U	< 0.0162 U	1.97 J+	< 0.0156 U	< 0.0163 U	3.20 J+	< 0.0163 U	< 0.0159 U
PCB-124	70424-70-3	ng/g	230	14.0	< 0.0218 U	< 0.0208 U	< 0.0209 U	< 0.0219 U	1.93 J	< 0.0211 U	< 0.0219 U	3.12 J	< 0.0220 U	< 0.0214 U
PCB-125	74472-39-2	ng/g	230	14.0	< 0.0239 U	< 0.0228 U	< 0.0229 U	< 0.0240 U	< 0.0240 U	< 0.0231 U	< 0.0240 U	0.999 J	< 0.0241 U	< 0.0235 U
PCB-126	57465-28-8	ng/g	0.0360	14.0	< 0.0340 UJ	< 0.0324 U	< 0.0325 U	< 0.0341 U	< 0.0342 U	< 0.0328 U	< 0.0341 U	0.965 J+	< 0.0342 U	< 0.0333 U
PCB-128	38380-07-3	ng/g	230	14.0	< 0.0240 U	< 0.0229 U	< 0.0230 U	< 0.0241 U	7.41 J	1.65 J	< 0.0241 U	9.51	1.96 J	< 0.0236 U
PCB-129	55215-18-4	ng/g	230	14.0	< 0.0264 U	< 0.0251 U	< 0.0252 U	< 0.0264 U	1.73 J	< 0.0254 U	< 0.0265 U	2.46 J	< 0.0266 U	< 0.0259 U
PCB-130	52663-66-8	ng/g	230	14.0	< 0.0207 U	< 0.0198 U	< 0.0199 U	< 0.0208 U	3.24 J	0.788 J	< 0.0208 U	3.75 J	< 0.0209 U	< 0.0204 U
PCB-131/142	PCB-131/142	ng/g	230	14.0	< 0.0510 U	< 0.0487 U	< 0.0489 U	< 0.0512 U	< 0.0513 U	< 0.0493 U	< 0.0512 U	< 0.0487 U	< 0.0514 U	< 0.0501 U
PCB-132/168	PCB-132/168	ng/g	230	14.0	< 0.0598 U	0.972 J	< 0.0573 U	< 0.0600 U	15.8	3.88 J	< 0.0600 U	17.1	3.95 J	< 0.0587 U
PCB-133	35694-04-3	ng/g	230	14.0	< 0.0186 U	< 0.0177 U	< 0.0178 U	< 0.0186 U	2.88 J	0.525 J	< 0.0186 U	1.11 J	< 0.0187 U	< 0.0182 U
PCB-134	52704-70-8	ng/g	230	14.0	< 0.0492 U	< 0.0469 U	< 0.0471 U	< 0.0493 U	3.50 J	0.845 J	< 0.0493 U	2.72 J	< 0.0496 U	< 0.0483 U
PCB-135/144	PCB-135/144	ng/g	230	14.0	< 0.0516 U	< 0.0492 U	< 0.0495 U	< 0.0518 U	8.47 J	2.39 J	< 0.0518 U	7.46 J	1.80 J	< 0.0507 U
PCB-136	38411-22-2	ng/g	230	14.0	< 0.0430 U	0.289 J	< 0.0412 U	< 0.0432 U	7.13 J	1.72 J	< 0.0432 U	5.78 J	1.46 J	< 0.0423 U
PCB-137	35694-06-5	ng/g	230	14.0	< 0.0241 U	< 0.0230 U	< 0.0231 U	< 0.0242 U	3.05 J	0.625 J	< 0.0242 U	3.64 J	< 0.0243 U	< 0.0236 U
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	< 0.0771 U	2.60 J	< 0.0739 U	< 0.0774 U	56.1 J	9.47 J	< 0.0774 U	50.5 J	11.7	0.671 J
PCB-139/149	PCB-139/149	ng/g	230	14.0	0.739 J	1.57 J	< 0.0681 U	< 0.0713 U	35.2 J	8.81 J	< 0.0713 U	34.0 J	8.18 J	0.554 J
PCB-140	59291-64-4	ng/g	230	14.0	< 0.0351 U	< 0.0335 U	< 0.0337 U	< 0.0353 U	< 0.0354 U	< 0.0339 U	< 0.0353 U	< 0.0336 U	< 0.0354 U	< 0.0345 U
PCB-141	52712-04-6	ng/g	230	14.0	< 0.0247 U	< 0.0235 U	< 0.0236 U	< 0.0248 U	5.25 J	1.07 J	< 0.0248 U	6.97 J	1.14 J	< 0.0242 U
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0317 U	< 0.0302 U	< 0.0304 U	< 0.0318 U	< 0.0319 U	< 0.0306 U	< 0.0318 U	0.426 J	< 0.0319 U	< 0.0311 U
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0419 U	< 0.0399 U	< 0.0401 U	< 0.0420 U	< 0.0421 U	< 0.0404 U	< 0.0420 U	< 0.0400 U	< 0.0422 U	< 0.0411 U
PCB-146	51908-16-8	ng/g	230	14.0	< 0.0283 U	< 0.0270 U	< 0.0271 U	< 0.0284 U	8.88 J	1.64 J	< 0.0284 U	7.27 J	1.49 J	< 0.0278 U
PCB-147	68194-13-8	ng/g	230	14.0	< 0.0369 U	< 0.0352 U	< 0.0354 U	< 0.0370 U	15.2	0.854 J	< 0.0371 U	3.46 J	0.977 J	< 0.0362 U
PCB-148	74472-41-6	ng/g	230	14.0	< 0.0387 U	< 0.0369 U	< 0.0371 U	< 0.0388 U	1.04 J	< 0.0373 U	< 0.0388 U	< 0.0370 U	< 0.0390 U	< 0.0380 U
PCB-150	68194-08-1	ng/g	230	14.0	< 0.0391 U	< 0.0373 U	< 0.0374 U	< 0.0392 U	1.14 J	< 0.0377 U	< 0.0392 U	0.299 J	< 0.0394 U	< 0.0384 U
PCB-151	52663-63-5	ng/g	230	14.0	< 0.0283 U	< 0.0270 U	< 0.0271 U	< 0.0284 U	13.0	2.68 J	< 0.0284 U	8.80 J	2.12 J	< 0.0278 U
PCB-152	68194-09-2	ng/g	230	14.0	< 0.0457 U	< 0.0436 U	< 0.0438 U	< 0.0459 U	1.10 J	< 0.0441 U	< 0.0459 U	0.392 J	< 0.0461 U	< 0.0449 U
PCB-153	35065-27-1	ng/g	230	14.0	< 0.0249 U	1.48 J	< 0.0238 U	< 0.0250 U	34.3 J	5.80 J	< 0.0250 U	36.4 J	6.66 J	0.356 J
PCB-154	60145-22-4	ng/g	230	14.0	< 0.0272 U	< 0.0260 U	< 0.0261 U	< 0.0273 U	4.73 J	0.648 J	< 0.0273 U	1.53 J	< 0.0275 U	< 0.0268 U
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0235 U	< 0.0224 U	< 0.0225 U	< 0.0236 U	< 0.0236 U	< 0.0227 U	< 0.0236 U	< 0.0224 U	< 0.0237 U	< 0.0231 U
PCB-156	38380-08-4	ng/g	120	14.0	< 0.0197 U	< 0.0188 U	< 0.0189 U	< 0.0198 U	4.09 J	0.852 J	< 0.0198 U	5.56 J	0.994 J	< 0.0194 U
PCB-157	69782-90-7	ng/g	120	14.0	< 0.0274 U	< 0.0262 U	< 0.0263 U	< 0.0275 U	1.60 J+	< 0.0265 U	< 0.0275 U	1.63 J+	< 0.0277 U	< 0.0269 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0031-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0033-B2C1	23A-0033-B2C1	23A-0033-B2C1	23A-0034-PLC1	23A-0034-PLC1	23A-0034-PLC1
					Sample Name	23A-0031-PLC1-CS	23A-0032-PLC1-AS	23A-0032-PLC1-BS	23A-0032-PLC1-CS	23A-0033-B2C1-AS	23A-0033-B2C1-BS	23A-0033-B2C1-CS	23A-0034-PLC1-AS	23A-0034-PLC1-BS	23A-0034-PLC1-CS
					Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-158/160	PCB-158/160	ng/g	230	14.0	< 0.0602 U	< 0.0574 U	< 0.0577 U	< 0.0604 U	4.35 J	0.919 J	< 0.0604 U	5.35 J	1.20 J	< 0.0591 U
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0379 U	< 0.0361 U	< 0.0363 U	< 0.0380 U	< 0.0381 U	< 0.0366 U	< 0.0380 U	0.372 J	< 0.0382 U	< 0.0372 U
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0354 U	< 0.0338 U	< 0.0339 U	< 0.0356 U	< 0.0356 U	< 0.0342 U	< 0.0356 U	< 0.0338 U	< 0.0357 U	< 0.0348 U
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0279 U	< 0.0266 U	< 0.0268 U	< 0.0280 U	< 0.0281 U	< 0.0270 U	< 0.0280 U	< 0.0267 U	< 0.0282 U	< 0.0274 U
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0383 U	< 0.0365 U	< 0.0367 U	< 0.0384 U	< 0.0385 U	< 0.0370 U	< 0.0384 U	< 0.0366 U	< 0.0386 U	< 0.0376 U
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0330 U	< 0.0314 U	< 0.0316 U	< 0.0331 U	< 0.0332 U	< 0.0318 U	< 0.0331 U	< 0.0315 U	< 0.0332 U	< 0.0324 U
PCB-167	52663-72-6	ng/g	120	14.0	< 0.0254 U	< 0.0242 U	< 0.0243 U	< 0.0255 U	1.45 J	0.318 J+	< 0.0255 U	2.24 J+	< 0.0256 U	< 0.0249 U
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0279 U	< 0.0266 U	< 0.0268 U	< 0.0280 U	< 0.0281 U	< 0.0270 U	< 0.0280 U	< 0.0267 U	< 0.0282 U	< 0.0274 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	< 0.0460 U	< 0.0439 U	< 0.0441 U	< 0.0462 U	13.5	2.42 J	< 0.0462 U	11.6	2.57 J	< 0.0452 U
PCB-171	52663-71-5	ng/g	230	14.0	< 0.0365 U	< 0.0348 U	< 0.0350 U	< 0.0367 U	3.21 J	0.766 J	< 0.0367 U	2.93 J	< 0.0368 U	< 0.0359 U
PCB-172/192	PCB-172/192	ng/g	230	14.0	< 0.0606 U	< 0.0578 U	< 0.0581 U	< 0.0608 U	2.31 J	0.469 J	< 0.0608 U	1.57 J	< 0.0611 U	< 0.0595 U
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0409 U	< 0.0390 U	< 0.0391 U	< 0.0410 U	< 0.0411 U	< 0.0394 U	< 0.0410 U	< 0.0390 U	< 0.0412 U	< 0.0401 U
PCB-174	38411-25-5	ng/g	230	14.0	< 0.0512 U	0.276 J	< 0.0491 U	< 0.0514 U	9.05 J	1.83 J	< 0.0514 U	9.12 J	1.74 J	< 0.0503 U
PCB-175	40186-70-7	ng/g	230	14.0	< 0.0315 U	< 0.0300 U	< 0.0302 U	< 0.0316 U	< 0.0317 U	< 0.0304 U	< 0.0316 U	< 0.0301 U	< 0.0317 U	< 0.0309 U
PCB-176	52663-65-7	ng/g	230	14.0	< 0.0294 U	< 0.0280 U	< 0.0282 U	< 0.0295 U	1.10 J	0.325 J	< 0.0295 U	1.15 J	0.292 J	< 0.0289 U
PCB-177	52663-70-4	ng/g	230	14.0	< 0.0367 U	< 0.0350 U	< 0.0352 U	< 0.0369 U	6.86 J	1.48 J	< 0.0369 U	5.97 J	1.32 J	< 0.0361 U
PCB-178	52663-67-9	ng/g	230	14.0	< 0.0461 U	< 0.0440 U	< 0.0442 U	< 0.0463 U	4.90 J	0.800 J	< 0.0463 U	2.29 J	0.471 J	< 0.0453 U
PCB-179	52663-64-6	ng/g	230	14.0	< 0.0244 U	< 0.0232 U	< 0.0234 U	< 0.0245 U	5.82 J	1.04 J	< 0.0245 U	3.35 J	0.841 J	< 0.0239 U
PCB-180	35065-29-3	ng/g	230	14.0	< 0.0325 U	0.754 J	< 0.0311 U	< 0.0326 U	25.6 J	4.28 J	< 0.0326 U	21.2 J	4.29 J	0.316 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0279 U	< 0.0266 U	< 0.0268 U	< 0.0280 U	< 0.0281 U	< 0.0270 U	< 0.0280 U	< 0.0267 U	< 0.0282 U	< 0.0274 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	< 0.0734 U	0.428 J	< 0.0704 U	< 0.0737 U	18.8	3.12 J	< 0.0737 U	11.7	2.66 J	< 0.0721 U
PCB-183	52663-69-1	ng/g	230	14.0	< 0.0365 U	< 0.0348 U	< 0.0350 U	< 0.0367 U	5.71 J	1.12 J	< 0.0367 U	5.09 J	1.09 J	< 0.0359 U
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0265 U	< 0.0252 U	< 0.0253 U	< 0.0265 U	< 0.0266 U	< 0.0255 U	< 0.0266 U	< 0.0253 U	< 0.0267 U	< 0.0260 U
PCB-185	52712-05-7	ng/g	230	14.0	< 0.0366 U	< 0.0349 U	< 0.0351 U	< 0.0368 U	< 0.0368 U	< 0.0353 U	< 0.0368 U	1.05 J	< 0.0369 U	< 0.0360 U
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0331 U	< 0.0315 U	< 0.0317 U	< 0.0332 U	< 0.0333 U	< 0.0319 U	< 0.0332 U	< 0.0316 U	< 0.0333 U	< 0.0325 U
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0303 U	< 0.0289 U	< 0.0290 U	< 0.0304 U	0.426 J	< 0.0292 U	< 0.0304 U	< 0.0289 U	< 0.0305 U	< 0.0298 U
PCB-189	39635-31-9	ng/g	130	14.0	< 0.0308 U	< 0.0294 U	< 0.0295 U	< 0.0309 U	0.716 J+	< 0.0297 U	< 0.0309 U	0.528 J	< 0.0310 U	< 0.0302 U
PCB-191	74472-50-7	ng/g	230	14.0	< 0.0278 U	< 0.0265 U	< 0.0267 U	< 0.0279 U	< 0.0280 U	< 0.0269 U	< 0.0279 U	< 0.0266 U	< 0.0281 U	< 0.0273 U
PCB-193	69782-91-8	ng/g	230	14.0	< 0.0351 U	< 0.0335 U	< 0.0337 U	< 0.0353 U	2.35 J	0.297 J	< 0.0353 U	1.18 J	< 0.0354 U	< 0.0345 U
PCB-194	35694-08-7	ng/g	230	14.0	1.25 J	< 0.0424 UJ	< 0.0426 U	< 0.0446 U	15.7 J	1.63 J	< 0.0446 UJ	6.95 J	2.05 J	< 0.0436 UJ
PCB-195	52663-78-2	ng/g	230	14.0	< 0.0787 UJ	< 0.0750 UJ	< 0.0754 U	< 0.0790 U	5.07 J	0.732 J	< 0.0790 UJ	2.34 J	< 0.0793 UJ	< 0.0772 UJ
PCB-196/203	PCB-196/203	ng/g	230	14.0	< 0.0746 UJ	< 0.0712 UJ	< 0.0715 U	< 0.0749 U	14.0 J	1.64 J	< 0.0749 UJ	6.98 J	2.06 J	< 0.0733 UJ
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0333 U	< 0.0317 U	< 0.0319 U	< 0.0334 U	< 0.0335 U	< 0.0321 U	< 0.0334 U	< 0.0318 U	< 0.0335 U	< 0.0327 U
PCB-198	68194-17-2	ng/g	230	14.0	< 0.0540 UJ	< 0.0515 UJ	< 0.0517 U	< 0.0542 U	< 0.0543 UJ	< 0.0521 UJ	< 0.0542 UJ	< 0.0516 UJ	< 0.0544 UJ	< 0.0530 UJ
PCB-199	52663-75-9	ng/g	230	14.0	< 0.0519 UJ	< 0.0495 UJ	< 0.0497 U	< 0.0521 U	11.7 J	1.30 J	< 0.0521 UJ	5.77 J	1.49 J	< 0.0510 UJ
PCB-200	52663-73-7	ng/g	230	14.0	< 0.0265 U	< 0.0252 U	< 0.0253 U	< 0.0265 U	1.15 J	< 0.0255 U	< 0.0266 U	0.613 J	< 0.0267 U	< 0.0260 U
PCB-201	40186-71-8	ng/g	230	14.0	< 0.0209 U	< 0.0200 U	< 0.0200 U	< 0.0210 U	1.38 J	< 0.0202 U	< 0.0210 U	0.649 J	< 0.0211 U	< 0.0205 U
PCB-202	2136-99-4	ng/g	230	14.0	< 0.0357 U	< 0.0341 U	< 0.0342 U	< 0.0359 U	2.30 J	< 0.0345 U	< 0.0359 U	0.938 J	< 0.0360 U	< 0.0351 U
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0437 U	< 0.0417 U	< 0.0419 U	< 0.0439 U	< 0.0440 U	< 0.0422 U	< 0.0439 U	< 0.0418 U	< 0.0441 U	< 0.0429 U
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0310 U	< 0.0296 U	< 0.0297 U	< 0.0311 U	1.11 J	< 0.0299 U	< 0.0311 U	< 0.0296 U	< 0.0312 U	< 0.0304 U
PCB-206	40186-72-9	ng/g	230	14.0	< 0.0297 U	< 0.0283 U	< 0.0285 U	< 0.0298 U	8.75 J	0.704 J	< 0.0298 U	2.39 J	0.638 J	< 0.0292 U
PCB-207	52663-79-3	ng/g	230	14.0	< 0.0393 U	< 0.0375 U	< 0.0376 U	< 0.0394 U	0.820 J	< 0.0379 U	< 0.0394 U	0.288 J	< 0.0396 U	< 0.0386 U
PCB-208	52663-77-1	ng/g	230	14.0	< 0.0393 U	< 0.0375 U	< 0.0376 U	< 0.0394 U	2.57 J	< 0.0379 U	< 0.0394 U	0.585 J	< 0.0396 U	< 0.0386 U
PCB-209	2051-24-3	ng/g	230	14.0	< 0.0226 U	< 0.0216 U	< 0.0217 U	< 0.0227 U	8.74 J	< 0.0218 UJ	< 0.0227 U	0.637 J	< 0.0228 U	< 0.0222 U
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	< 0.0226 U	< 0.0216 U	< 0.0217 U	< 0.0227 U	8.74	< 0.0218 U	< 0.0227 U	0.637	< 0.0228 U	< 0.0222 U
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	< 0.0734 U	1.46	< 0.0704 U	< 0.0737 U	100	17.9	< 0.0737 U	78.7	15.3	0.316
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	0.739	6.91	< 0.0739 U	< 0.0774 U	241	45.5	< 0.0774 U	219	43.6	1.58
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	1.25	< 0.075 U	< 0.0754 U	< 0.079 U	52.4	5.30	< 0.079 U	24.2	5.60	< 0.0772 U
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	624	361	43.8	395	11500	3500	53.9	14300	4600	266
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	8.44	32.5	< 0.0653 U	0.157	771	193	0.826	849	124	6.41
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	351	51.3	21.5	198	1600	852	12.4	3070	1780	90.0
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	127	6.50	13.7	138	149	70.2	1.44	488	332	15.3
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	< 0.0393 U	< 0.0375 U	< 0.0376 U	< 0.0394 U	12.1	0.704	< 0.0394 U	3.26	0.638	< 0.0386 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	28.6	116	0.964	8.20	3820	771	11.2	3620	593	39.3
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	108	146	7.68	50.9	4720	1540	28.0	5900	1710	113

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0031-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0033-B2C1	23A-0033-B2C1	23A-0033-B2C1	23A-0034-PLC1	23A-0034-PLC1	23A-0034-PLC1
				Sample Name	23A-0031-PLC1-CS	23A-0032-PLC1-AS	23A-0032-PLC1-BS	23A-0032-PLC1-CS	23A-0033-B2C1-AS	23A-0033-B2C1-BS	23A-0033-B2C1-CS	23A-0034-PLC1-AS	23A-0034-PLC1-BS	23A-0034-PLC1-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	13000	6800	18000	15000	5000	6200	13000 EB	2500	7600 EB	10000
Calcium	7440-70-2	mg/kg			2800	1200	2100	2100	4100	1600	1900 EB	1100	1500 EB	1800
Iron	7439-89-6	mg/kg	5500	20000	27000	11000	23000	20000	28000	14000	20000 EB	21000	15000 EB	16000
Magnesium	7439-95-4	mg/kg			4400	2400	5400	4600	1800	2600	4700 EB	1400	2700 EB	3600
Potassium	7440-09-7	mg/kg			1200	730	2000	1500	460 J	680	1600	170 J	720	1100
Sodium	7440-23-5	mg/kg			150 J	130 J	140 J	120 J	390 J	110 J	140 J	240 J	310 J	400 J
Antimony	7440-36-0	mg/kg	3.1	2	< 1.1 U	< 0.90 U	< 0.84 U	< 1.3 U	< 1.9 U	< 1.1 U	< 0.84 UJ	< 1.1 U	< 0.82 UJ	< 1.1 U
Arsenic	7440-38-2	mg/kg	0.68	9.8	3.6	2.6	5.8	2.2	6.6	1.2	1.6	4.9	1.7	2.0
Barium	7440-39-3	mg/kg	1500	20	60	39	91	57	97	51	78	41	53	75
Beryllium	7440-41-7	mg/kg	16		0.95	< 0.45 U	0.98	0.75	< 0.93 U	< 0.53 U	0.82	< 0.54 U	0.45	0.58 J+
Cadmium	7440-43-9	mg/kg	0.71	1	< 0.55 U	< 0.45 U	< 0.42 U	< 0.64 U	0.95	< 0.53 U	< 0.42 U	0.51 J	< 0.41 U	< 0.57 U
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	22	17	34	25	30 EB	18 EB	30 EB	16 EB	16 EB	20 EB
Cobalt	7440-48-4	mg/kg	2.3	50	13	6.6	13	12	8.8	8.0	12	4.4	6.5	8.3
Copper	7440-50-8	mg/kg	310	31.6	19	14	20	17	55	16	22	29	14	15
Lead	7439-92-1	mg/kg	200	35.8	11	11	9.9	7.6	74	7.2	8.2	49	23	7.1
Manganese	7439-96-5	mg/kg	180	460	430	190	250	240	1200 EB	160 EB	230 JEB	150 EB	170 JEB	220 EB
Nickel	7440-02-0	mg/kg	140	22.7	24	12	25	21	24	15	21	12	11	16
Selenium	7782-49-2	mg/kg	39	11	< 2.7 U	< 2.3 U	0.40 J	0.74 J	< 4.7 U	< 2.6 U	< 2.1 U	< 2.7 U	< 2.1 U	< 2.8 U
Silver	7440-22-4	mg/kg	39	1	< 0.55 U	0.041 J	< 0.42 U	< 0.64 U	0.16 J	< 0.53 U	< 0.42 U	0.065 J	< 0.41 U	< 0.57 U
Thallium	7440-28-0	mg/kg	0.078		< 0.55 U	< 0.45 U	< 0.42 U	< 0.64 U	< 0.93 U	< 0.53 U	0.17 J	< 0.54 U	0.065 J	< 0.57 U
Vanadium	7440-62-2	mg/kg	39		41	23	46	39	18	27	37	12	21	28
Zinc	7440-66-6	mg/kg	2300	121	58	48	51 J	47 J	160	33	50	460	40	35
Mercury	7439-97-6	mg/kg	2.3	0.18	0.060 J	0.030 J	0.025 J	< 0.11 U	0.18 J	0.057 J	< 0.096 U	0.085 J	0.028 J	< 0.10 U
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.63 U	< 0.53 U	< 0.61 U	< 0.63 U	< 1.0 U	< 0.57 U	< 0.55 U	0.36 J	< 0.53 U	< 0.57 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 6.4 U	< 5.6 U	< 7.0 UJ	< 7.3 UJ	< 10 U	< 4.7 U	< 5.2 UJ	< 5.7 U	< 5.4 UJ	< 6.3 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 6.4 UJ	< 5.6 U	< 7.0 U	< 7.3 UJ	< 10 U	< 4.7 U	< 5.2 UJ	< 5.7 U	< 5.4 UJ	< 6.3 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 UJ	< 5.7 U	< 5.4 UJ	< 6.3 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 6.4 U	< 5.6 U	< 7.0 UJ	< 7.3 UJ	< 10 U	< 4.7 U	< 5.2 UJ	< 5.7 U	< 5.4 UJ	< 6.3 U
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 6.4 UJ	< 5.6 U	< 7.0 U	< 7.3 UJ	< 10 U	< 4.7 U	< 5.2 UJ	< 5.7 U	< 5.4 UJ	< 6.3 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 6.4 U	< 5.6 U	< 7.0 UJ	< 7.3 UJ	< 10 U	< 4.7 U	< 5.2 UJ	< 5.7 U	< 5.4 UJ	< 6.3 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 6.4 U	< 5.6 U	< 7.0 UJ	< 7.3 UJ	< 10 U	< 4.7 U	< 5.2 UJ	< 5.7 U	< 5.4 UJ	< 6.3 U
2-HEXANONE	591-78-6	ug/kg	20000	45	< 13 U	< 11 U	< 14 U	< 15 U	< 20 U	< 9.5 U	< 10 U	< 11 U	< 11 U	< 13 U
ACETONE	67-64-1	ug/kg	7000000	65	< 13 U	< 11 U	< 14 U	< 15 U	38	9.2 J	< 10 U	150 J+	14 J+	15 EB
Benzene	71-43-2	ug/kg	1200	10	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 6.4 UJ	< 5.6 U	< 7.0 U	< 7.3 UJ	< 10 U	< 4.7 U	< 5.2 UJ	< 5.7 U	< 5.4 UJ	< 6.3 U

Table 11
Sediment Analytical Results
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				Location	23A-0031-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0033-B2C1	23A-0033-B2C1	23A-0033-B2C1	23A-0034-PLC1	23A-0034-PLC1	23A-0034-PLC1
				Sample Name	23A-0031-PLC1-CS	23A-0032-PLC1-AS	23A-0032-PLC1-BS	23A-0032-PLC1-CS	23A-0033-B2C1-AS	23A-0033-B2C1-BS	23A-0033-B2C1-CS	23A-0034-PLC1-AS	23A-0034-PLC1-BS	23A-0034-PLC1-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	1.5 J	< 5.4 U	< 6.3 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Chlorobenzene	108-90-7	ug/kg	28000	30	< 6.4 U	< 5.6 U	< 7.0 UJ	< 7.3 UJ	< 10 U	< 4.7 U	< 5.2 UJ	< 5.7 U	< 5.4 UJ	< 6.3 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Chloroform	67-66-3	ug/kg	320	87	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Cyclohexane	110-82-7	ug/kg	650000		< 6.4 UJ	< 5.6 U	< 7.0 U	< 7.3 UJ	< 10 U	< 4.7 U	< 5.2 UJ	< 5.7 U	< 5.4 UJ	< 6.3 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Ethylbenzene	100-41-4	ug/kg	5800	290	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	< 13 U	< 11 U	< 14 U	< 15 U	11 J	< 9.5 U	< 10 U	43 J+	< 11 U	< 13 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 13 U	< 11 U	< 14 U	< 15 U	< 20 U	< 9.5 U	< 10 U	< 11 U	< 11 U	< 13 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 6.4 UJ	< 5.6 U	< 7.0 U	< 7.3 UJ	< 10 U	< 4.7 U	< 5.2 UJ	< 5.7 U	< 5.4 UJ	< 6.3 U
Methylene Chloride	75-09-2	ug/kg	35000	18	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Styrene	100-42-5	ug/kg	600000	126	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	2.9 J	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Toluene	108-88-3	ug/kg	490000	10	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
Vinyl Chloride	75-01-4	ug/kg	59	482	< 6.4 U	< 5.6 U	< 7.0 U	< 7.3 U	< 10 U	< 4.7 U	< 5.2 U	< 5.7 U	< 5.4 U	< 6.3 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	< 80 U	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 220 U	< 110 UJ	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 420 U	< 210 UJ	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
2-NITROANILINE	88-74-4	ug/kg	63000		< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0031-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0033-B2C1	23A-0033-B2C1	23A-0033-B2C1	23A-0034-PLC1	23A-0034-PLC1	23A-0034-PLC1
				Sample Name	23A-0031-PLC1-CS	23A-0032-PLC1-AS	23A-0032-PLC1-BS	23A-0032-PLC1-CS	23A-0033-B2C1-AS	23A-0033-B2C1-BS	23A-0033-B2C1-CS	23A-0034-PLC1-AS	23A-0034-PLC1-BS	23A-0034-PLC1-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 220 UJ	< 110 UJ	< 210 U	< 220 U	< 360 UJ	< 200 UJ	< 190 U	< 210 UJ	< 190 U	< 120 UJ
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 420 U	< 210 UJ	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 420 U	< 210 UJ	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 420 U	< 210 UJ	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 420 U	62 J	< 400 U	< 430 U	310 J	80 J	< 370 U	130 J	100 J	< 240 U
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	360	< 190 U	< 120 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	< 220 U	46 J	< 210 U	< 220 U	130 J	87 J	< 190 U	180 J	110 J	< 120 U
Caprolactam	105-60-2	ug/kg	3100000		< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 UJ	< 370 U	< 410 UJ	< 370 U	< 240 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 220 U	< 110 U	< 210 U	< 220 U	< 360 U	< 200 U	< 190 U	< 210 U	< 190 U	< 120 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 420 U	< 210 U	-	-	< 700 U	< 400 U	-	< 410 U	-	< 240 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	-	810	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	175	< 420 U	< 210 U	< 400 U	< 430 U	< 700 U	< 400 U	< 370 U	< 410 U	< 370 U	< 240 U
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	-	-	-	-	-

Table 11
Sediment Analytical Results
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Lower Neponset River
Boston, Massachusetts

				Location	23A-0031-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0032-PLC1	23A-0033-B2C1	23A-0033-B2C1	23A-0033-B2C1	23A-0034-PLC1	23A-0034-PLC1	23A-0034-PLC1
				Sample Name	23A-0031-PLC1-CS	23A-0032-PLC1-AS	23A-0032-PLC1-BS	23A-0032-PLC1-CS	23A-0033-B2C1-AS	23A-0033-B2C1-BS	23A-0033-B2C1-CS	23A-0034-PLC1-AS	23A-0034-PLC1-BS	23A-0034-PLC1-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1.5 - 3.4 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 3 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 8.6 U	< 7.1 U	< 8.1 U	< 8.6 U	< 14 U	-	< 7.5 U	< 8.3 U	< 7.4 U	< 7.9 U
1-Methylnaphthalene	90-12-0	ug/kg	18	141	< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	12 EB	< 4.0 UJ	< 3.7 U	7.2	< 3.7 U	< 3.9 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	15 EB	< 4.0 UJ	< 3.7 U	9.8	1.2 J	< 3.9 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	69	< 4.0 UJ	< 3.7 U	15	< 3.7 U	< 3.9 U
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	4.4 J	< 4.0 UJ	< 3.7 U	9.2	< 3.7 U	< 3.9 U
ANTHRACENE	120-12-7	ug/kg	1800000	57	< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	68	< 4.0 UJ	< 3.7 U	30	< 3.7 U	< 3.9 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	1.0 JEB	2.3 JEB	< 4.0 U	< 4.3 U	270 EB	1.2 JEB	< 3.7 U	130	1.9 J	2.2 J
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	< 4.2 U	< 3.6 UJ	< 4.0 U	< 4.3 U	57 J-	< 4.0 R	< 3.7 U	17 J-	< 3.7 U	1.6 J
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	< 4.2 U	3.7 JEB	< 4.0 U	< 4.3 U	230 EB	1.9 JEB	< 3.7 U	130	2.1 J	2.0 J
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	< 4.2 U	< 3.6 UJ	< 4.0 U	< 4.3 U	2.6 J-	< 4.0 R	< 3.7 U	1.1 J-	< 3.7 U	0.84 J
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	< 4.2 U	1.0 JEB	< 4.0 U	< 4.3 U	75 JEB	< 4.0 R	< 3.7 U	40 J-	0.97 J	< 3.9 U
CHRYSENE	218-01-9	ug/kg	110000	166	0.94 JEB	1.9 JEB	< 4.0 U	< 4.3 U	280 EB	1.0 JEB	< 3.7 U	110	2.0 J	1.6 J
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	< 4.2 U	< 3.6 UJ	< 4.0 U	< 4.3 U	21 JEB	< 4.0 R	< 3.7 U	12 J-	< 3.7 U	< 3.9 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	1.7 JEB	3.8 JEB	< 4.0 U	< 4.3 U	430 EB	2.5 JEB	< 3.7 U	300	3.9	3.4 J
FLUORENE	86-73-7	ug/kg	240000	77	< 4.2 U	< 3.6 U	< 4.0 U	< 4.3 U	69 EB	< 4.0 UJ	< 3.7 U	17	< 3.7 U	< 3.9 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	< 4.2 U	< 3.6 UJ	< 4.0 U	< 4.3 U	38 J-	< 4.0 R	< 3.7 U	16 J-	< 3.7 U	< 3.9 U
Naphthalene	91-20-3	ug/kg	2000	176	< 4.2 U	4.3 EB	< 4.0 U	< 4.3 U	25 EB	4.7 JEB	< 3.7 U	27 EB	15 EB	< 3.9 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	< 8.2 U	< 8.7 U	-	-	< 7.6 U	-	< 7.5 U	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	1.3 J	1.2 J	< 4.0 U	< 4.3 U	-	2.3 J-	< 3.7 U	200	1.9 J	1.9 J
PYRENE	129-00-0	ug/kg	180000	195	1.6 J	2.6 J	< 4.0 U	< 4.3 U	360 J	1.9 J	< 3.7 U	120 J	3.2 J	3.1 J
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			290 J	1100	1000	800	34000	8900	350 J	31000	1800	1200
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			-	< 2.5 U	-	-	< 4.4 U	-	-	24	-	-
Cadmium	7440-43-9	umol/g			-	0.00064	-	-	0.0010	-	-	0.0042	-	-
Copper	7440-50-8	umol/g			-	0.21	-	-	0.43	-	-	0.38 B	-	-
Lead	7439-92-1	umol/g			-	0.056	-	-	0.14	-	-	0.14 B	-	-
Nickel	7440-02-0	umol/g			-	0.18	-	-	0.18	-	-	0.38 B	-	-
Silver	7440-22-4	umol/g			-	0.00029	-	-	0.00025	-	-	0.00020	-	-
Zinc	7440-66-6	umol/g			-	0.66	-	-	0.75	-	-	4.4 B	-	-
Mercury	7439-97-6	umol/g			-	0.000029 J	-	-	< 0.000054 U	-	-	< 0.000031 U	-	-

Table 11
Sediment Analytical Results
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				Location	23A-0036-PLC3	23A-0037-B2C1	23A-0039-PLC1	23A-0039-PLC1	23A-0039-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0041-PLC1	23A-0041-PLC1
				Sample Name	23A-0036-PLC3-AS	23A-0037-B2C1-AS	23A-0039-PLC1-AS	23A-0039-PLC1-BS	23A-0039-PLC1-CS	23A-0040-PLC1-AS	23A-0040-PLC1-BS	23A-0040-PLC1-CS	23A-0041-PLC1-AS	23A-0041-PLC1-BS
				Sample Date	6/24/2023	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 5.6 ft	0 - 0.5 ft	0.5 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 3.2 U	< 3.7 U	< 2.2 U	< 1.8 U	< 1.9 U	< 2.9 UJ	< 2.4 U	< 2.0 U	< 3.6 U	< 2.8 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 3.2 U	< 3.7 U	< 2.2 U	< 1.8 U	< 1.9 U	< 2.9 UJ	< 2.4 U	< 2.0 U	< 3.6 U	< 2.8 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 3.2 U	< 3.7 U	< 2.2 U	< 1.8 U	< 1.9 U	< 2.9 UJ	< 2.4 U	< 2.0 U	< 3.6 U	< 2.8 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 3.2 U	< 3.7 U	< 2.2 U	< 1.8 U	< 1.9 U	< 2.9 UJ	< 2.4 U	< 2.0 U	< 3.6 U	< 2.8 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 6.3 U	< 7.2 U	< 4.3 U	< 3.5 U	< 3.7 U	< 5.7 UJ	< 4.7 U	< 3.8 U	< 6.9 U	< 5.5 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		0.39 J	0.70 J	< 2.2 U	< 1.8 U	< 1.9 U	< 2.9 UJ	< 2.4 U	< 2.0 U	< 3.6 U	< 2.8 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		0.48 J	< 3.7 U	1.6 J	2.7 J	< 1.9 U	3.6 J	5.4 J	< 2.0 U	6.1	23 J
DIELDRIN	60-57-1	ug/kg	34	1.9	< 6.3 U	< 7.2 U	< 4.3 U	< 3.5 U	< 3.7 U	< 5.7 UJ	< 4.7 U	< 3.8 U	< 6.9 U	< 5.5 U
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 6.3 U	< 7.2 U	0.40 J	0.24 J	< 3.7 U	0.45 J	< 4.7 U	< 3.8 U	0.84 J	< 5.5 U
ENDRIN	72-20-8	ug/kg	1900	2.22	< 6.3 U	< 7.2 U	0.39 J	0.24 J	< 3.7 U	0.86 J	1.7 J	< 3.8 U	0.85 J	8.4 J+
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 6.3 U	< 7.2 U	< 4.3 U	< 3.5 U	< 3.7 U	< 5.7 UJ	< 4.7 U	< 3.8 U	< 6.9 U	< 5.5 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 6.3 U	< 7.2 U	< 4.3 U	< 3.5 U	< 3.7 U	< 5.7 UJ	< 4.7 U	< 3.8 U	< 6.9 U	< 5.5 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	0.87 J	< 3.7 U	1.9 J	3.5 J	0.19	2.1 J	1.7 J	< 2.0 U	2.7 J	6.4 J
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 3.2 U	< 3.7 U	< 2.2 U	< 1.8 U	< 1.9 U	< 2.9 UJ	< 2.4 U	< 2.0 U	< 3.6 U	< 2.8 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	< 3.2 U	2.1 J	< 2.2 U	< 1.8 U	< 1.9 U	3.4 J-	< 2.4 U	< 2.0 U	< 3.6 U	< 2.8 U
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 32 U	< 37 U	< 22 U	< 18 U	< 19 U	< 30 UJ	< 24 U	< 20 U	< 36 U	< 28 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	0.43 J	1.4 J	0.67 J	0.62 J	< 3.7 U	1.9 J	2.4 J	< 3.8 U	4.4 J	< 5.5 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 6.3 U	0.55 J	< 4.3 U	< 3.5 U	< 3.7 U	0.99 J	2.1 J	< 3.8 U	1.1 J	< 5.5 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	0.81 J	2.3 J	2.4 J	1.6 J	< 3.7 U	3.3 J	7.1 J	< 3.8 U	5.6 J	8.8 J+
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 UJ	< 240 U	< 200 U	< 360 U	< 280 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		< 3.2 U	< 3.7 U	< 2.2 U	< 1.8 U	< 1.9 U	1.9 J	3.2 J	< 2.0 U	2.6 J	< 2.8 U
Grain Size														
%CLAY	%CLAY	%			10.7	11.7	0.9	3.2	3.6	0	5.6	3.9	15.5	-
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			0.7	5	16	12.3	10.5	2.6	0.5	8.8	27.1	-
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			23.3	48.4	4.1	28.8	23.2	0	77	31	25.9	-
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			3.1	8.7	0.9	26.3	15	0	2.3	18.4	8.7	-
Gravel	GRAVEL	%			7.8	20.2	16.4	16.9	32.9	97.5	0.2	20.6	12.3	-
Hydrometer, Reading 1, Percent Passing	HYD01	%			13.9	26	3.5	5.5	6.3	660	9.8	6.9	15.5	-
Hydrometer, Reading 2, Percent Passing	HYD02	%			13.9	23	0.9	3.2	3.6	462	7.7	5.4	15.5	-
Hydrometer, Reading 3, Percent Passing	HYD03	%			12.3	20	0.9	3.2	3.6	363	7.7	5.4	15.5	-
Hydrometer, Reading 4, Percent Passing	HYD04	%			12.3	20	0.9	3.2	3.6	264	5.6	3.9	15.5	-
Hydrometer, Reading 5, Percent Passing	HYD05	%			10.7	20	0.9	3.2	3.6	165	5.6	3.9	15.5	-
Hydrometer, Reading 6, Percent Passing	HYD06	%			9.1	17	0.9	3.2	3.6	66	5.6	3.9	11.9	-
Hydrometer, Reading 7, Percent Passing	HYD07	%			9.1	17	0.9	3.2	3.6	66	1.4	1	11.9	-
Sand	308075-07-2	%			27.1	62.1	21	67.4	48.7	2.6	79.8	58.2	61.7	-
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			91.5	74.8	67.6	70.8	56.6	0	99.3	70.6	60.6	-
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			88.4	66.1	66.7	44.5	41.6	0	97	52.2	51.9	-
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			75.4	46.6	66.1	26.6	27.8	0	73	36.4	35.3	-
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			90.7	72	67.2	59.4	49.4	0	99.2	63.8	58.2	-
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			81.7	57.1	66.3	32.7	32.6	0	88.4	42.3	41.7	-
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			71.9	38.4	65.2	23.1	23.8	0	59.7	32.6	32.4	-
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			65.1	17.7	62.6	15.7	18.4	0	20	21.2	26	-
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			92.2	79.8	83.6	83.1	67.1	2.6	99.8	79.4	87.7	-
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			94.6	87.3	97.9	93.2	81.9	90.1	100	99.9	94.3	-
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	100	100	100	100	100	100	100	-
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	100	100	100	100	100	100	100	-
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	100	100	100	100	100	100	100	-
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	100	100	100	100	100	100	100	-
SILT	445	%			54.4	6	61.7	12.6	14.8	0	14.4	17.3	10.5	-

Table 11
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				Location	23A-0036-PLC3	23A-0037-B2C1	23A-0039-PLC1	23A-0039-PLC1	23A-0039-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0041-PLC1	23A-0041-PLC1
				Sample Name	23A-0036-PLC3-AS	23A-0037-B2C1-AS	23A-0039-PLC1-AS	23A-0039-PLC1-BS	23A-0039-PLC1-CS	23A-0040-PLC1-AS	23A-0040-PLC1-BS	23A-0040-PLC1-CS	23A-0041-PLC1-AS	23A-0041-PLC1-BS
				Sample Date	6/24/2023	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 5.6 ft	0 - 0.5 ft	0.5 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	1420 J	504 J	97.4	72.7	3.92	1350	1570	0.839 J	2380	3060
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	29.4 J	12.1	1.79	2.28 J	< 0.627 U	18.6	13.5	< 0.155 U	33.9	36.5
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	16.6 J	6.28	1.51 J	< 0.515 U	< 0.338 U	13.8 J	15.6 J	< 0.216 U	21.7	20.9
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	57.2 J	20.2 J	3.82 J	5.98 J	< 4.68 UJ	37.3 J	27.8 J	< 4.94 UJ	74.3 J	63.8 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	74.0 J	26.1 J	7.07	3.61	< 0.303 U	84.1 J	95.2 J	< 0.227 U	141	155
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	30.7 J	12.1	1.70 JN	2.40	< 0.235 U	17.2	16.3	< 0.111 U	35.6 J+	29.4
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	46.5 J	16.6	3.99	1.67 JN	< 0.328 U	46.7 J	52.7 J	< 0.212 U	69.1	67.8
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 1.27 UJ	< 1.01 U	< 0.682 U	< 0.529 U	< 0.307 U	< 0.923 U	< 1.01 U	< 0.144 U	< 1.39 U	< 0.83 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	7.66 J	2.67 JN	< 0.503 UJ	< 0.661 UJ	< 0.314 UJ	6.21 J	7.16 J	< 0.265 UJ	10.6 J	8.90 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	6.69 J	2.89	0.724 J	0.831 J	< 0.225 U	4.66	3.93	< 0.126 U	9.42 J+	12.8
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	877 J	330 J+	41.9 J+	26.8 J+	1.58 JN	412 J+	385 J+	0.286 JN	1280	1240
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	29.9 J	12.2	2.23 J	2.46 JN	< 0.277 U	19.8	17.7	< 0.125 U	36.3	35.9
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	25.3 J	11.4 J	4.64 J	5.35 J	< 0.216 U	34.9 J+	26.6 J+	< 0.136 U	41.7	63.7 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	2.3 J	< 0.608 UJ	< 0.408 U	< 0.454 U	< 0.318 U	1.59 JN	1.65	< 0.296 U	2.67 JN	3.35
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	12.0 J	4.82 J	1.69	1.13 JN	< 0.164 U	11.7	9.24	< 0.141 U	20.4	29.6
OCDD	3268-87-9	pg/g	16000	5000	9960 J	3570 J	595	421	28.5	7690	7580	5.48	17300	23700 J
OCDF	39001-02-0	pg/g	16000	5000	971 J	443	46.4	30.9	2.43 J	469	390	< 0.227 U	1220	1420
Total HpCDD (a)	RA_Total_HpCDD	pg/g			1420	504	97.4	72.7	3.92	1350	1570	0.839	2380	3060
Total HpCDF (a)	RA_Total_HpCDF	pg/g			906	342	43.7	29.1	1.58	431	399	0.286	1310	1280
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		137	49.0	12.6	5.28	< 0.338 U	145	164	< 0.227 U	232	244
Total HxCDF (a)	RA_Total_HxCDF	pg/g			118	44.5	7.75	10.8	< 4.68 U	74.3	61.8	< 4.94 U	146	129
Total PeCDD (a)	RA_Total_PeCDD	pg/g			7.66	2.67	< 0.503 U	< 0.661 U	< 0.314 U	6.21	7.16	< 0.265 U	10.6	8.90
Total PeCDF (a)	RA_Total_PeCDF	pg/g			32.0	14.3	5.36	6.18	< 0.225 U	39.6	30.5	< 0.136 U	51.1	76.5
Total TCDD (a)	RA_Total_TCDD	pg/g			2.3	< 0.608 U	< 0.408 U	< 0.454 U	< 0.318 U	1.59	1.65	< 0.296 U	2.67	3.35
Total TCDF (a)	RA_Total_TCDF	pg/g			12.0	4.82	1.69	1.13	< 0.164 U	11.7	9.24	< 0.141 U	20.4	29.6
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	124 JEB	44.3 JEB	107 JEB	83.5 JEB	5.97 JEB	501 JEB	394 JEB	1.11 J+EB	76.7 JEB	205 JEB
PCB-002	2051-61-8	ng/g	230	14.0	2.09 J	0.739 J	1.19 J	< 0.0266 U	< 0.0254 U	2.81 J	4.15 J	< 0.0268 U	3.18 JEB	11.2 JEB
PCB-003	2051-62-9	ng/g	230	14.0	39.6 J	15.2	40.3 J	15.3	0.729 J	55.3 J	24.2 J	< 0.0261 U	24 EB	58.2 JEB
PCB-004/010	PCB-4/10	ng/g	230	14.0	373 JEB	122 JEB	247 JEB	289 JEB	13 EB	1130 JEB	940 JEB	1.36 J+EB	993 JEB	4090 JEB
PCB-005/008	PCB-5/8	ng/g	230	14.0	309 J	91.5 J	251 J	221 J	12.5	329 J	255 J	0.56 J	517 JEB	2330 JEB
PCB-006	25569-80-6	ng/g	230	14.0	63.5 J	29.7 J	31 J	36.8 J	2.09 J	202 J	147 J	< 0.0260 U	252 JEB	1590 JEB
PCB-007/009	PCB-7/9	ng/g	230	14.0	8.87 J	5.14 J	10.6	13.3	0.585 J	14.1 J	17.3 J	< 0.0451 U	37.7	235 J
PCB-011	2050-67-1	ng/g	230	14.0	6.65 JEB	2.82 JEB	4.3 JEB	4.1 JEB	< 0.0235 U	14.2 JEB	11.9 JEB	< 0.0248 U	15.2 JEB	82.0 JEB
PCB-012/013	PCB-12/13	ng/g	230	14.0	20.8 J	7.99 J	15.7	14.2	< 0.0423 U	60.2 J	59.7 J	< 0.0447 U	55.2 J	389 J
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0358 UJ	< 0.0249 U	< 0.0251 U	< 0.0247 U	< 0.0236 U	< 0.0246 UJ	< 0.0248 UJ	< 0.0249 U	< 0.0491 U	< 0.0493 U
PCB-015	2050-68-2	ng/g	230	14.0	161 J	62.5 J	205 J	117 J	4.87 J	435 J	140 J	< 0.0228 U	416 JEB	1180 JEB
PCB-016/032	PCB-16/32	ng/g	230	14.0	226 JEB	74.6 JEB	110 JEB	171 JEB	8.3 JEB	1350 JEB	636 JEB	0.514 JEB	909 JEB	4150 JEB
PCB-017	37680-66-3	ng/g	230	14.0	175 JEB	52.9 JEB	82.9 JEB	125 JEB	5.87 JEB	825 JEB	540 JEB	0.317 JEB	731 JEB	3140 JEB
PCB-018	37680-65-2	ng/g	230	14.0	92.5 JEB	43.1 JEB	29.2 JEB	42.4 JEB	2.02 JEB	1140 JEB	560 JEB	0.187 JEB	757 JEB	4840 JEB
PCB-019	38444-73-4	ng/g	230	14.0	117 J	34.6 J	50.1 J	84.3 J	3.59 J	417 J	208 J	0.208 J	286 JEB	1180 JEB
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	16.0 JEB	53.4 JEB	7.99 JEB	9.17 JEB	< 0.0656 U	122 JEB	203 JEB	< 0.0692 U	184 JEB	947 JEB
PCB-022	38444-85-8	ng/g	230	14.0	21.4 J	10.2	10.1	14	0.603 J	239 J	241 J	< 0.0246 U	229 JEB	1600 JEB
PCB-023/034	PCB-23/34	ng/g	230	14.0	3.76 J	1.49 J	1.49 J	2.09 J	< 0.0426 U	28.7 J	15.5 J	< 0.0450 U	13.9 J	75.0 J
PCB-024/027	PCB-24/27	ng/g	230	14.0	71.8 J	21.4 J	28.8 J	41.6 J	2.15 J	275 J	116 J	0.119 J	149 JEB	608 JEB
PCB-025	55712-37-3	ng/g	230	14.0	60.9 J	31.3 J	35.6 J	50.7 J	1.93 J	286 J	183 J	< 0.0253 U	405 JEB	2060 JEB
PCB-026	38444-81-4	ng/g	230	14.0	98.4 J	47.0 J	42.6 J	62 J	2.73 J	572 J	355 J	0.229 J	532 JEB	2840 JEB
PCB-028	7012-37-5	ng/g	230	14.0	113 JEB	68.8 JEB	84 JEB	80 JEB	4.77 JEB	395 JEB	355 JEB	< 0.0237 U	1230 JEB	5570 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0374 UJ	< 0.0260 U	< 0.0262 U	< 0.0258 U	< 0.0246 U	< 0.0257 UJ	< 0.0259 UJ	< 0.0260 U	2.14 J	10.4 J

Table 11
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Lower Neponset River
Boston, Massachusetts

				Location	23A-0036-PLC3	23A-0037-B2C1	23A-0039-PLC1	23A-0039-PLC1	23A-0039-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0041-PLC1	23A-0041-PLC1
				Sample Name	23A-0036-PLC3-AS	23A-0037-B2C1-AS	23A-0039-PLC1-AS	23A-0039-PLC1-BS	23A-0039-PLC1-CS	23A-0040-PLC1-AS	23A-0040-PLC1-BS	23A-0040-PLC1-CS	23A-0041-PLC1-AS	23A-0041-PLC1-BS
				Sample Date	6/24/2023	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 5.6 ft	0 - 0.5 ft	0.5 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0343 UJ	< 0.0238 U	< 0.0240 U	< 0.0237 U	< 0.0226 U	< 0.0235 UJ	< 0.0237 UJ	< 0.0238 U	1.06 J	4.84 J
PCB-031	16606-02-3	ng/g	230	14.0	172 JEB	75.7 JEB	75.2 JEB	104 JEB	4.4 JEB	922 JEB	748 JEB	0.321 JEB	989 JEB	6370 JEB
PCB-035	37680-69-6	ng/g	230	14.0	< 0.0406 UJ	< 0.0282 U	0.536 J+	< 0.0281 U	< 0.0268 U	9.72 J	4.33 J	< 0.0283 U	14.3 J+	39.9 J
PCB-036	38444-87-0	ng/g	230	14.0	< 0.0347 UJ	< 0.0241 U	< 0.0243 U	< 0.0240 U	< 0.0229 U	< 0.0238 UJ	4.54 J	< 0.0241 U	3.41 J	20.3
PCB-037	38444-90-5	ng/g	230	14.0	22.5 J	8.69 J	14.7	14.3	< 0.0251 U	181 J	82.6 J	< 0.0265 U	157 J	874 J
PCB-038	53555-66-1	ng/g	230	14.0	4.14 J	1.63 J	2.14 J	2.72 J	< 0.0189 U	< 0.0197 UJ	10.7 J	< 0.0200 U	9.49 J	36.3
PCB-039	38444-88-1	ng/g	230	14.0	1.41 J	< 0.0122 U	0.79 J	0.479 J	< 0.0116 U	7.48 J	3.12 J	< 0.0123 U	4 J	13.7 J
PCB-040	38444-93-8	ng/g	230	14.0	7.42 J	4.62 J	2.18 J	3.3 J	< 0.0194 U	27.1 J	44.0 J	< 0.0205 U	61.3 J	267 J
PCB-041/064	PCB-41/64	ng/g	230	14.0	34.0 J	17.4	13.4	19.1	0.902 J	94.7 J	176 J	< 0.0464 U	228 J	844 J
PCB-042	36559-22-5	ng/g	230	14.0	31.0 J	15.3	12.1	16.6	0.854 J	190 J	152 J	< 0.0511 U	191 J	910 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	156 J	66.1 J	61.8 J	90.1 J	4.34 J	908 J	533 J	0.253 J	657 JEB	2890 JEB
PCB-044	41464-39-5	ng/g	230	14.0	55.0 JEB	32.6 JEB	18.1 EB	33.7 JEB	1.04 JEB	273 JEB	317 JEB	< 0.0272 U	404 JEB	1830 JEB
PCB-045	70362-45-7	ng/g	230	14.0	9.17 J	5.70 J	3.32 J	3.98 J	< 0.0211 U	20.7 J	54.5 J	< 0.0222 U	80.6 J	321 J
PCB-046	41464-47-5	ng/g	230	14.0	6.78 J	3.06 J	2.39 J	3.86 J	< 0.0246 U	57.5 J	34.2 J	< 0.0260 U	45 J	232 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	125 J	48.0 J	67.6 J	84.4 J	4.37 J	563 J	303 J	0.16 J	424 JEB	1500 JEB
PCB-050	62796-65-0	ng/g	230	14.0	1.66 J	0.712 J	0.793 J	1.26 J	< 0.0301 U	3.87 J	2.44 J	< 0.0317 U	4.75 J	18.0 J
PCB-051	68194-04-7	ng/g	230	14.0	28.6 J	9.88	13.4	21 J	1.02 J	104 J	61.7 J	< 0.0270 U	84.5 J	310 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	127 JEB	59.2 JEB	43.1 JEB	85.4 JEB	2.95 JEB	776 JEB	540 JEB	0.199 JEB	610 JEB	2710 JEB
PCB-053	41464-41-9	ng/g	230	14.0	51.8 J	19.2	17.4	26.6 J	1.17 J	178 J	129 J	0.0998 J	165 JEB	721 JEB
PCB-054	15968-05-5	ng/g	230	14.0	3.53 J	1.23 J	1.52 J	2.78 J	< 0.0200 U	17.8	6.21 J	< 0.0210 U	6.87 J	23.8
PCB-055	74338-24-2	ng/g	230	14.0	< 0.0394 UJ	< 0.0273 U	< 0.0276 U	< 0.0272 U	< 0.0259 U	< 0.0270 U	< 0.0273 U	< 0.0274 U	4.73 J	28.2
PCB-056/060	PCB-56/60	ng/g	230	14.0	27.0 JEB	9.10 JEB	8.81 JEB	13.3 EB	< 0.0507 U	80.6 JEB	73.4 JEB	< 0.0535 U	139 JEB	647 JEB
PCB-057	70424-67-8	ng/g	230	14.0	2.99 J	1.13 J	0.742 J	1.03 J	< 0.0200 U	5.85 J	5.15 J	< 0.0211 U	10.1 J	39.4 J
PCB-058	41464-49-7	ng/g	230	14.0	< 0.0276 UJ	< 0.0192 U	< 0.0193 U	< 0.0190 U	< 0.0182 U	1.70 J	2.01 J	< 0.0192 U	2.34 J	8.10 J
PCB-059	74472-33-6	ng/g	230	14.0	3.80 J	2.24 J	1.11 J	1.58 J	< 0.0356 U	6.20 J	13.6 J	< 0.0376 U	26.9	106 J
PCB-061/074	PCB-61/74	ng/g	230	14.0	32.1 J	12.4	17.3	23.7 J	0.919 J	155 J	143 J	< 0.0493 U	188 J	865 J
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0377 UJ	< 0.0262 U	< 0.0264 U	< 0.0260 U	< 0.0248 U	< 0.0259 U	< 0.0261 U	< 0.0262 U	< 0.0517 U	< 0.0518 U
PCB-063	74472-34-7	ng/g	230	14.0	11.1 J	4.52 J	4.48 J	5.29 J	0.273 J	32.2 J	27.8 J	< 0.0197 U	36.2	166 J
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0543 UJ	< 0.0377 U	< 0.0380 U	< 0.0375 U	< 0.0358 U	< 0.0373 U	< 0.0376 U	< 0.0377 U	< 0.0745 U	1.47 J
PCB-066/080	PCB-66/80	ng/g	230	14.0	52.7 JEB	18.0 EB	19 EB	27 JEB	0.996 JEB	287 JEB	244 JEB	< 0.0478 UJ	250 JEB	1110 JEB
PCB-067	73575-53-8	ng/g	230	14.0	2.38 J	1.12 J	1.31 J	1.35 J	< 0.0219 U	7.23 J	8.60 J	< 0.0231 U	16.3 J	73.0 J
PCB-068	73575-52-7	ng/g	230	14.0	4.24 J	< 0.0273 U	1.83 J	1.58 J	< 0.0259 U	12.9	< 0.0273 U	< 0.0274 U	9.4 J	23.5
PCB-069	60233-24-1	ng/g	230	14.0	< 0.0409 UJ	< 0.0284 U	< 0.0287 U	0.52 J	< 0.0270 U	1.90 J	1.15 J	< 0.0285 U	2.66 J	6.50 J
PCB-070	32598-11-1	ng/g	230	14.0	47.5 J	17.1	16.1	38.1 J	0.789 J	262 J	270 J	< 0.0257 U	236 JEB	999 JEB
PCB-071	41464-46-4	ng/g	230	14.0	39.3 J	17.4	18.3	25.5 J	1.6 J	211 J	127 J	0.0796 J	184 JEB	812 JEB
PCB-072	41464-42-0	ng/g	230	14.0	4.39 J	1.75 J	1.82 J	2.05 J	< 0.0292 U	15.4	7.65 J	< 0.0308 U	9.93 J	32.3
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0544 UJ	< 0.0378 U	< 0.0381 U	< 0.0376 U	< 0.0359 U	< 0.0374 U	< 0.0377 U	< 0.0378 U	< 0.0747 U	< 0.0749 U
PCB-077	32598-13-3	ng/g	38.0	14.0	11.0 J	3.31 J+	4.3 J+	5.32 J+	< 0.0212 U	28.5 J	21.9 J	< 0.0223 U	32.2 J+	128 J
PCB-078	70362-49-1	ng/g	230	14.0	< 0.0279 UJ	< 0.0193 U	< 0.0195 U	< 0.0192 U	< 0.0184 U	< 0.0191 U	1.58 J	< 0.0194 U	< 0.0382 U	3.72 J
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0350 UJ	< 0.0243 U	< 0.0245 U	0.604 J	< 0.0230 U	2.15 J	1.71 J	< 0.0243 U	< 0.0480 U	6.16 J
PCB-081	70362-50-4	ng/g	12.0	14.0	< 0.0546 UJ	< 0.0379 U	< 0.0382 U	1.45 J+	< 0.0360 U	2.85 J	2.81 J	< 0.0379 U	3.29 J+	11.6 J+
PCB-082	52663-62-4	ng/g	230	14.0	5.24 J	2.30 J	1.45 J	5.45 J	< 0.0132 U	14.9 J	27.5 J	< 0.0139 U	24	91.3 J
PCB-083/109	PCB-83/109	ng/g	230	14.0	4.41 J	1.81 J	1.29 J	2.83 J	< 0.0568 U	11.5 J	17.0 J	< 0.0599 U	16.9 J	52.9 J
PCB-084	52663-60-2	ng/g	230	14.0	15.7 J	7.00 J	3.69 J	14.8	0.243 J	42.4 J	61.8 J	< 0.0241 U	70.4 J	206 J
PCB-085/120	PCB-85/120	ng/g	230	14.0	12.1 J	4.97 J	3.07 J	10.1	< 0.0510 U	31.9 J	41.0 J	< 0.0538 U	49.6 J	171 J
PCB-086/097	PCB-86/97	ng/g	230	14.0	14.9 J	6.11 J	3.44 J	15.3	< 0.0224 U	51.3 J	84.9 J	< 0.0236 U	67.2 J	209 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	24.4 J	10.4	6.44 J	29 J	< 0.0144 U	70.5 J	112 J	< 0.0152 U	< 0.0300 U	< 0.0301 U
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.0792 UJ	< 0.0550 U	< 0.0555 U	< 0.0547 U	< 0.0522 U	< 0.0543 UJ	< 0.0549 UJ	< 0.0550 U	< 0.109 U	3.80 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	56.8 J	21.9 J	12.7	61.3 J	0.836 J	182 J	223 J	< 0.0596 U	208 J	582 J
PCB-091	68194-05-8	ng/g	230	14.0	18.2 J	7.60 J	6.13 J	11.8	0.411 J	59.5 J	64.7 J	< 0.0308 U	60.6 J	180 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0036-PLC3	23A-0037-B2C1	23A-0039-PLC1	23A-0039-PLC1	23A-0039-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0041-PLC1	23A-0041-PLC1
				Sample Name	23A-0036-PLC3-AS	23A-0037-B2C1-AS	23A-0039-PLC1-AS	23A-0039-PLC1-BS	23A-0039-PLC1-CS	23A-0040-PLC1-AS	23A-0040-PLC1-BS	23A-0040-PLC1-CS	23A-0041-PLC1-AS	23A-0041-PLC1-BS
				Sample Date	6/24/2023	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 5.6 ft	0 - 0.5 ft	0.5 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-092	52663-61-3	ng/g	230	14.0	18.0 J	7.22 J	4.44 J	12.1	0.373 J	53.2 J	47.1 J	< 0.0135 U	50.4 J	149 J
PCB-093/095	PCB-93/95	ng/g	230	14.0	47.7 J	20.8 J	10.1	47.2 J	0.593 J	110 J	228 J	< 0.0398 U	197 J	501 J
PCB-094	73575-55-0	ng/g	230	14.0	2.08 J	0.805 J	0.736 J	0.981 J	< 0.0431 U	7.72 J	4.22 J	< 0.0455 U	5.03 J	13.7 J
PCB-096	73575-54-9	ng/g	230	14.0	1.21 J	0.547 J	0.421 J	0.689 J	< 0.0203 U	3.92 J	4.09 J	< 0.0214 U	5.15 J	16.3 J
PCB-098/102	PCB-98/102	ng/g	230	14.0	5.37 J	2.35 J	2.05 J	3.3 J	< 0.0377 U	20.0 J	19.8 J	< 0.0397 U	19.1 J	63.6 J
PCB-099	38380-01-7	ng/g	230	14.0	31.0 J	11.7	8.88 J	26 J	0.508 J	114 J	107 J	< 0.0219 U	113 J	367 J
PCB-100	39485-83-1	ng/g	230	14.0	2.33 J	0.802 J	1.11 J	1.18 J	< 0.0229 U	10.3 J	3.66 J	< 0.0242 U	3.75 J	8.79 J
PCB-103	60145-21-3	ng/g	230	14.0	2.06 J	0.729 J	0.795 J	0.878 J	< 0.0237 U	8.15 J	4.88 J	< 0.0250 U	4.8 J	13.3 J
PCB-104	56558-16-8	ng/g	230	14.0	< 0.0333 UJ	< 0.0231 U	< 0.0233 U	< 0.0230 U	< 0.0219 U	1.03 J	0.247 J	< 0.0231 U	< 0.0456 U	0.470 J
PCB-105/127	PCB-105/127	ng/g	120	14.0	15.0 J	5.51 J	4.52 J	24.5 J	< 0.0372 U	52.3 J	44.1 J	< 0.0392 U	70.7 J	288 J
PCB-106/118	PCB-106/118	ng/g	120	14.0	47.6 J	18.5	13	64.8 J	0.683 J	179 J	206 J	< 0.0468 U	178 J	576 J
PCB-107/108	PCB-107/108	ng/g	230	14.0	4.98 J	1.88 J	1.25 J	4.5 J	< 0.0456 U	17.0 J	17.2 J	< 0.0481 U	16.5 J	55.6 J
PCB-110	38380-03-9	ng/g	230	14.0	79.8 J	35.2 J	21.1 J	85.6 J	1.53 J	162 J	262 J	< 0.0224 U	289 JEB	766 JEB
PCB-111/117	PCB-111/117	ng/g	230	14.0	20.4 J	8.42 J	< 0.0688 U	< 0.0678 U	< 0.0647 U	< 0.0674 UJ	67.5 J	< 0.0683 U	79.2 J	241 J
PCB-112	74472-36-9	ng/g	230	14.0	< 0.0343 UJ	< 0.0238 U	< 0.0240 U	< 0.0237 U	< 0.0226 U	1.12 J	0.847 J	< 0.0238 U	0.957 J	4.00 J
PCB-113	68194-10-5	ng/g	230	14.0	< 0.0360 UJ	< 0.0250 U	< 0.0252 U	< 0.0248 U	< 0.0237 U	0.751 J	< 0.0249 UJ	< 0.0250 U	1.55 J	4.07 J
PCB-114	74472-37-0	ng/g	120	14.0	1.24 J	< 0.0207 U	< 0.0209 U	1.28 J	< 0.0197 U	4.03 J	3.11 J	< 0.0208 U	5.75 J	24.7
PCB-119	56558-17-9	ng/g	230	14.0	4.81 J	1.74 J	1.79 J	2.38 J	< 0.0260 U	13.3 J	8.72 J	< 0.0275 U	12.1 J	33.8
PCB-122	76842-07-4	ng/g	230	14.0	< 0.0252 UJ	< 0.0175 U	< 0.0176 U	0.475 J	< 0.0166 U	< 0.0173 UJ	1.39 J	< 0.0175 U	< 0.0345 U	8.94 J
PCB-123	65510-44-3	ng/g	120	14.0	1.93 J	< 0.0162 U	< 0.0163 U	2.04 J+	< 0.0154 U	5.22 J	5.21 J	< 0.0162 U	6.08 J+	19.0 J+
PCB-124	70424-70-3	ng/g	230	14.0	1.77 J	0.662 J	< 0.0220 U	2.37 J	< 0.0207 U	5.23 J	6.45 J	< 0.0218 U	6.38 J	21.0
PCB-125	74472-39-2	ng/g	230	14.0	< 0.0344 UJ	< 0.0239 U	< 0.0241 U	< 0.0238 U	< 0.0227 U	2.25 J	1.69 J	< 0.0239 U	< 0.0472 U	4.67 J
PCB-126	57465-28-8	ng/g	0.0360	14.0	< 0.0489 UJ	< 0.0340 U	< 0.0343 U	< 0.0338 U	< 0.0322 U	2.36 J	1.59 J	< 0.0340 U	< 0.0671 U	4.42 J+
PCB-128	38380-07-3	ng/g	230	14.0	11.6 J	4.44 J	1.61 J	11.2	< 0.0228 U	24.7 J	35.4 J	< 0.0240 U	31	61.0 J
PCB-129	55215-18-4	ng/g	230	14.0	2.18 J	1.39 J	< 0.0266 U	2.97 J	< 0.0250 U	6.15 J	8.88 J	< 0.0264 U	8.19 J	15.8 J
PCB-130	52663-66-8	ng/g	230	14.0	3.75 J	1.69 J	0.669 J	3.61 J	< 0.0197 U	9.86 J	12.3 J	< 0.0208 U	9.93 J	20.3
PCB-131/142	PCB-131/142	ng/g	230	14.0	< 0.0735 UJ	< 0.0510 U	< 0.0515 U	0.927 J	< 0.0484 U	1.71 J	2.03 J	< 0.0511 U	2.01 J	4.76 J
PCB-132/168	PCB-132/168	ng/g	230	14.0	19.7 J	7.67 J	3.02 J	18.8	< 0.0568 U	45.7 J	51.4 J	< 0.0599 U	51.9 J	107 J
PCB-133	35694-04-3	ng/g	230	14.0	1.10 J	< 0.0186 U	< 0.0187 U	0.678 J	< 0.0176 U	4.44 J	2.43 J	< 0.0186 U	2.43 J	4.60 J
PCB-134	52704-70-8	ng/g	230	14.0	3.03 J	1.28 J	0.579 J	2.79 J	< 0.0466 U	7.55 J	7.85 J	< 0.0492 U	8.23 J	17.2 J
PCB-135/144	PCB-135/144	ng/g	230	14.0	8.22 J	3.29 J	1.36 J	7.51 J	< 0.0490 U	20.1 J	26.4 J	< 0.0517 U	20.8	43.2 J
PCB-136	38411-22-2	ng/g	230	14.0	6.62 J	2.65 J	1.07 J	6.31 J	< 0.0408 U	12.4 J	23.3 J	< 0.0431 U	17.2 J	37.2
PCB-137	35694-06-5	ng/g	230	14.0	3.64 J	1.56 J	0.57 J	3.95 J	< 0.0229 U	8.58 J	11.5 J	< 0.0241 U	10.3 J	21.9
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	55.5 J	21.9 J	10.1	60.2 J	0.731 J	152 J	167 J	< 0.0772 U	158 J	311 J
PCB-139/149	PCB-139/149	ng/g	230	14.0	36.9 J	14.4	6.07 J	33.4 J	0.367 J	93.3 J	125 J	< 0.0711 U	93.8 J	198 J
PCB-140	59291-64-4	ng/g	230	14.0	< 0.0506 UJ	< 0.0351 U	< 0.0354 U	< 0.0350 U	< 0.0333 U	1.45 J	1.27 J	< 0.0352 U	< 0.0694 U	2.03 J
PCB-141	52712-04-6	ng/g	230	14.0	6.88 J	3.02 J	1.12 J	9 J	< 0.0234 U	19.0 J	28.4 J	< 0.0247 U	22.4	45.6 J
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0456 UJ	< 0.0317 U	< 0.0320 U	< 0.0315 U	< 0.0301 U	0.914 J	< 0.0316 U	< 0.0317 U	< 0.0626 U	1.36 J
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0603 UJ	< 0.0419 U	< 0.0422 U	< 0.0416 U	< 0.0397 U	< 0.0414 U	< 0.0418 U	< 0.0419 U	< 0.0827 U	0.313 J
PCB-146	51908-16-8	ng/g	230	14.0	6.76 J	2.70 J	1.25 J	5.4 J	< 0.0269 U	23.1 J	19.0	< 0.0284 U	16.3 J	33.3
PCB-147	68194-13-8	ng/g	230	14.0	2.88 J	1.12 J	1.06 J	1.84 J	< 0.0350 U	10.1 J	5.33 J	< 0.0370 U	5.26 J	10.1 J
PCB-148	74472-41-6	ng/g	230	14.0	< 0.0557 UJ	< 0.0387 U	< 0.0390 U	< 0.0385 U	< 0.0367 U	0.840 J	< 0.0386 U	< 0.0387 U	< 0.0764 U	0.528 J
PCB-150	68194-08-1	ng/g	230	14.0	0.274 J	< 0.0391 U	< 0.0394 U	0.107 J	< 0.0371 U	0.862 J	0.379 J	< 0.0391 U	0.363 J	0.690 J
PCB-151	52663-63-5	ng/g	230	14.0	8.74 J	3.50 J	1.7 J	7.02 J	< 0.0269 U	25.2 J	29.2 J	< 0.0284 U	21.1	44.0 J
PCB-152	68194-09-2	ng/g	230	14.0	< 0.0658 UJ	< 0.0457 U	< 0.0461 U	< 0.0455 U	< 0.0434 U	0.965 J	< 0.0456 U	< 0.0458 U	0.337 J	0.947 J
PCB-153	35065-27-1	ng/g	230	14.0	39.2 J	15.2	6.34 J	34.4 J	0.454 J	104 J	106 J	< 0.0249 U	98.6 J	202 J
PCB-154	60145-22-4	ng/g	230	14.0	1.28 J	0.523 J	0.365 J	0.546 J	< 0.0259 U	4.00 J	3.45 J	< 0.0273 U	2.46 J	4.56 J
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0338 UJ	< 0.0235 U	< 0.0237 U	< 0.0234 U	< 0.0223 U	< 0.0232 UJ	< 0.0235 UJ	< 0.0235 U	< 0.0464 U	< 0.0465 U
PCB-156	38380-08-4	ng/g	120	14.0	4.56 J	2.02 J	0.884 J	7.23 J	< 0.0187 U	11.9	16.4	< 0.0198 U	14.1 J	35.3
PCB-157	69782-90-7	ng/g	120	14.0	1.67 J	0.916 J+	0.269 J+	1.66 J+	< 0.0260 U	3.92 J	4.04 J+	< 0.0275 U	4.35 J+	10.4 J+

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0036-PLC3	23A-0037-B2C1	23A-0039-PLC1	23A-0039-PLC1	23A-0039-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0041-PLC1	23A-0041-PLC1
				Sample Name	23A-0036-PLC3-AS	23A-0037-B2C1-AS	23A-0039-PLC1-AS	23A-0039-PLC1-BS	23A-0039-PLC1-CS	23A-0040-PLC1-AS	23A-0040-PLC1-BS	23A-0040-PLC1-CS	23A-0041-PLC1-AS	23A-0041-PLC1-BS
				Sample Date	6/24/2023	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 5.6 ft	0 - 0.5 ft	0.5 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-158/160	PCB-158/160	ng/g	230	14.0	5.44 J	2.45 J	0.843 J	6.65 J	< 0.0571 U	12.9 J	17.8 J	< 0.0603 U	15.2 J	31.9
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0546 UJ	< 0.0379 U	< 0.0382 U	< 0.0377 U	< 0.0360 U	1.39 J	< 0.0378 U	< 0.0379 U	< 0.0749 U	1.14 J
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0510 UJ	< 0.0354 U	< 0.0357 U	< 0.0352 U	< 0.0336 U	< 0.0350 U	< 0.0354 U	< 0.0355 U	< 0.0700 U	< 0.0702 U
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0402 UJ	< 0.0279 U	< 0.0282 U	< 0.0278 U	< 0.0265 U	< 0.0276 U	1.14 J	< 0.0280 U	< 0.0552 U	1.55 J
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0551 UJ	< 0.0383 U	< 0.0386 U	< 0.0381 U	< 0.0363 U	< 0.0379 U	< 0.0382 U	< 0.0383 U	< 0.0757 U	< 0.0758 U
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0475 UJ	< 0.0330 U	< 0.0333 U	< 0.0328 U	< 0.0313 U	0.635 J	< 0.0329 U	< 0.0330 U	< 0.0651 U	1.71 J
PCB-167	52663-72-6	ng/g	120	14.0	2.47 J	1.11 J+	0.369 J	1.91 J	< 0.0241 U	5.62 J	7.53 J	< 0.0254 U	6.39 J	13.9 J+
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0402 UJ	< 0.0279 U	< 0.0282 U	< 0.0278 U	< 0.0265 U	< 0.0276 UJ	< 0.0279 U	< 0.0280 U	< 0.0552 U	< 0.0553 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	9.52 J	3.73 J	2.9 J	8 J	< 0.0436 U	34.7 J	36.1 J	< 0.0460 U	22.3	48.7 J
PCB-171	52663-71-5	ng/g	230	14.0	2.65 J	1.06 J	0.75 J	2.37 J	< 0.0347 U	6.31 J	6.49 J	< 0.0366 U	5.99 J	11.8 J
PCB-172/192	PCB-172/192	ng/g	230	14.0	1.18 J	0.573 J	0.329 J	1.03 J	< 0.0575 U	5.10 J	3.31 J	< 0.0607 U	2.84 J	5.76 J
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0588 UJ	< 0.0409 U	< 0.0412 U	< 0.0406 U	< 0.0388 U	< 0.0404 U	< 0.0408 U	< 0.0409 U	< 0.0807 U	0.938 J
PCB-174	38411-25-5	ng/g	230	14.0	7.57 J	3.06 J	2.01 J	6.31 J	0.142 J	28.3 J	23.7 J	< 0.0513 U	17.8 J	36.6
PCB-175	40186-70-7	ng/g	230	14.0	< 0.0453 UJ	< 0.0315 U	< 0.0318 U	< 0.0313 U	< 0.0299 U	< 0.0311 U	1.03 J	< 0.0315 U	0.712 J	1.50 J
PCB-176	52663-65-7	ng/g	230	14.0	0.895 J	0.377 J	0.219 J	0.694 J	< 0.0279 U	3.50 J	3.36 J	< 0.0294 U	2.17 J	4.44 J
PCB-177	52663-70-4	ng/g	230	14.0	4.56 J	1.92 J	1.29 J	3.84 J	< 0.0348 U	14.3	14.5	< 0.0368 U	10.3 J	21.4
PCB-178	52663-67-9	ng/g	230	14.0	1.80 J	0.768 J	0.446 J	1.29 J	< 0.0437 U	7.48 J	6.35 J	< 0.0461 U	3.75 J	7.60 J
PCB-179	52663-64-6	ng/g	230	14.0	2.72 J	1.12 J	0.721 J	2.01 J	< 0.0231 U	11.5 J	10.6 J	< 0.0244 U	6.61 J	13.6 J
PCB-180	35065-29-3	ng/g	230	14.0	15.9 J	6.26 J	5.08 J	13.8	0.476 J	63.6 J	48.5 J	< 0.0325 U	38.7	82.1 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0402 UJ	< 0.0279 U	< 0.0282 U	< 0.0278 U	< 0.0265 U	< 0.0276 U	< 0.0279 U	< 0.0280 U	< 0.0552 U	< 0.0553 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	9.19 J	3.65 J	2.66 J	6.65 J	0.2 J	38.6 J	33.1 J	< 0.0735 U	20.5	40.6 J
PCB-183	52663-69-1	ng/g	230	14.0	4.14 J	1.56 J	1.15 J	3.78 J	< 0.0347 U	14.4 J	14.3 J	< 0.0366 U	9.81 J	19.5
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0381 UJ	< 0.0265 U	< 0.0267 U	< 0.0263 U	< 0.0251 U	< 0.0261 U	< 0.0264 U	< 0.0265 U	< 0.0523 U	< 0.0524 U
PCB-185	52712-05-7	ng/g	230	14.0	0.868 J	< 0.0366 U	< 0.0369 U	0.815 J	< 0.0347 U	3.18 J	3.22 J	< 0.0367 U	1.97 J	4.20 J
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0476 UJ	< 0.0331 U	< 0.0334 U	< 0.0329 U	< 0.0314 U	< 0.0327 U	< 0.0330 U	< 0.0331 U	< 0.0653 U	< 0.0655 U
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0436 UJ	< 0.0303 U	< 0.0306 U	< 0.0301 U	< 0.0288 U	< 0.0300 U	< 0.0303 U	< 0.0303 U	< 0.0599 U	< 0.0600 U
PCB-189	39635-31-9	ng/g	130	14.0	0.386 J	< 0.0308 U	< 0.0311 U	< 0.0306 U	< 0.0292 U	1.65 J	1.22 J	< 0.0308 U	0.987 J	2.07 J
PCB-191	74472-50-7	ng/g	230	14.0	< 0.0401 UJ	< 0.0278 U	< 0.0281 U	< 0.0277 U	< 0.0264 U	1.15 J	0.974 J	< 0.0279 U	0.71 J	1.47 J
PCB-193	69782-91-8	ng/g	230	14.0	0.823 J	0.535 J	< 0.0354 U	< 0.0350 U	< 0.0333 U	3.78 J	2.43 J	< 0.0352 U	1.76 J	3.59 J
PCB-194	35694-08-7	ng/g	230	14.0	4.81 J	2.01 J	2.14 J	3.15 J	< 0.0421 UJ	37.3 J	15.4 J	< 0.0445 UJ	10.7 J	23.5 J
PCB-195	52663-78-2	ng/g	230	14.0	1.79 J	0.749 J	0.622 J	1.3 J	< 0.0746 UJ	12.2	5.16 J	< 0.0788 UJ	3.8 J	7.80 J
PCB-196/203	PCB-196/203	ng/g	230	14.0	5.25 J	2.29 J	2.19 J	4.21 J	< 0.0708 UJ	34.8 J	20.3 J	< 0.0747 UJ	12.5 J	24.9 J
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0479 UJ	< 0.0333 U	< 0.0336 U	< 0.0331 U	< 0.0316 U	1.00 J	0.409 J	< 0.0333 U	0.463 J	0.731 J
PCB-198	68194-17-2	ng/g	230	14.0	< 0.0777 UJ	< 0.0540 UJ	< 0.0545 UJ	< 0.0537 UJ	< 0.0512 UJ	< 0.0534 U	1.02 J	< 0.0541 UJ	< 0.107 U	1.11 J
PCB-199	52663-75-9	ng/g	230	14.0	4.17 J	1.76 J	1.4 J	3.24 J	< 0.0493 UJ	31.4 J	17.3 J	< 0.0520 UJ	10 J	21.4 J
PCB-200	52663-73-7	ng/g	230	14.0	0.559 J	< 0.0265 U	< 0.0267 U	< 0.0263 U	< 0.0251 U	3.47 J	1.75 J	< 0.0265 U	1.33 J	2.29 J
PCB-201	40186-71-8	ng/g	230	14.0	0.577 J	< 0.0209 U	< 0.0211 U	0.372 J	< 0.0199 U	2.27 J	1.20 J	< 0.0209 U	1.19 J	2.29 J
PCB-202	2136-99-4	ng/g	230	14.0	0.757 J	0.449 J	0.245 J	0.579 J	< 0.0339 U	3.56 J	1.99 J	< 0.0358 U	1.88 J	3.30 J
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0630 UJ	< 0.0437 U	< 0.0441 U	< 0.0435 U	< 0.0415 U	< 0.0432 U	< 0.0437 U	< 0.0438 U	< 0.0864 U	< 0.0866 U
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0446 UJ	< 0.0310 U	< 0.0313 U	< 0.0308 U	< 0.0294 U	1.76 J	0.844 J	< 0.0310 U	< 0.0612 U	0.928 J
PCB-206	40186-72-9	ng/g	230	14.0	3.19 J	1.36 J	0.922 J	1.44 J	< 0.0282 U	10.7	6.41 J	< 0.0297 U	6.85 J	10.2 J
PCB-207	52663-79-3	ng/g	230	14.0	0.445 J	< 0.0393 U	< 0.0396 U	< 0.0391 U	< 0.0373 U	1.12 J	0.710 J	< 0.0393 U	0.679 J	1.15 J
PCB-208	52663-77-1	ng/g	230	14.0	1.03 J	0.458 J	< 0.0396 U	0.221 J	< 0.0373 U	2.81 J	1.71 J	< 0.0393 U	2.03 J	2.92 J
PCB-209	2051-24-3	ng/g	230	14.0	2.29 J	0.919 J	< 0.0228 U	< 0.0225 U	< 0.0214 U	3.07 J	2.36 J	< 0.0226 U	4.14 J	4.47 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	2.29	0.919	< 0.0228 U	< 0.0225 U	< 0.0214 U	3.07	2.36	< 0.0226 U	4.14	4.47
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	62.2	24.6	17.6	50.6	0.818	238	209	< 0.0735 U	147	306
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	232	92.8	39.2	228	1.55	613	713	< 0.0772 U	621	1280
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	17.9	7.26	6.60	12.9	< 0.0746 U	128	65.4	< 0.0788 U	41.9	88.2
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	3940	1580	2010	2860	105	16100	12200	5.72	15500	68600
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	439	179	108	431	5.18	1240	1680	< 0.0683 U	1560	4680
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	943	322	765	695	33.0	2180	1570	1.92	2290	9900
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	166	60.2	148	98.8	6.70	559	422	1.11	104	274
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	4.67	1.82	0.922	1.66	< 0.0373 U	14.6	8.83	< 0.0393 U	9.56	14.3
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	875	371	352	540	21.2	4330	3300	0.791	4110	17600
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	1200	525	576	804	36.4	6770	4270	1.90	6610	34400

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0036-PLC3	23A-0037-B2C1	23A-0039-PLC1	23A-0039-PLC1	23A-0039-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0041-PLC1	23A-0041-PLC1
				Sample Name	23A-0036-PLC3-AS	23A-0037-B2C1-AS	23A-0039-PLC1-AS	23A-0039-PLC1-BS	23A-0039-PLC1-CS	23A-0040-PLC1-AS	23A-0040-PLC1-BS	23A-0040-PLC1-CS	23A-0041-PLC1-AS	23A-0041-PLC1-BS
				Sample Date	6/24/2023	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 5.6 ft	0 - 0.5 ft	0.5 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	2900	2800	3100	2100	3400	4100	4900	3600	5700	7600
Calcium	7440-70-2	mg/kg			1800	1600	950	860	1700	2600	1400	1700	2700	1600
Iron	7439-89-6	mg/kg	5500	20000	10000	7600	10000	5700	11000	8800	8500	8100	17000	18000
Magnesium	7439-95-4	mg/kg			960	980	1500	1100	2900	1300	2000	1900	1800	1900
Potassium	7440-09-7	mg/kg			170 J	170 J	190 J	90 J	220 J	220 J	280 J	210 J	330 J	290 J
Sodium	7440-23-5	mg/kg			230 J	220 J	110 J	110 J	180 J	240 J	140 J	92 J	3500	3600
Antimony	7440-36-0	mg/kg	3.1	2	< 1.4 U	< 1.8 U	< 0.93 U	< 1.0 U	< 1.0 U	< 1.3 U	< 0.95 U	< 1.0 U	< 1.7 U	1.3
Arsenic	7440-38-2	mg/kg	0.68	9.8	3.3 J	3.3 J	1.6	0.95	1.1	3.1 J	2.0 J	0.75 J	6.8 J+	6.5 J
Barium	7440-39-3	mg/kg	1500	20	51	29	15	13	19	50	36	17	53	45
Beryllium	7440-41-7	mg/kg	16		0.25 J	0.13 J	0.12 J	0.17 J	0.24 J	0.23 J	0.34 J	0.16 J	0.41 J	0.43 J
Cadmium	7440-43-9	mg/kg	0.71	1	0.75	< 0.92 U	0.088 J	< 0.51 U	< 0.52 U	0.90	0.51	< 0.52 U	1.7	1.5
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	23 JEB	8.5 JEB	5.8 EB	7.0 EB	7.9 EB	19 JEB	30 JEB	5.0 JEB	59 EB	47 JEB
Cobalt	7440-48-4	mg/kg	2.3	50	6.2 J	6.3 J	3.2	2.7	3.7	3.1 J	4.5 J	3.1 J	8.1	6.9
Copper	7440-50-8	mg/kg	310	31.6	28 J	13 J	8.8	10	11	41 J	41 J	6.3 J	85 J	57 J
Lead	7439-92-1	mg/kg	200	35.8	54	22	18	15	6.8	120	120	3.3	200	210
Manganese	7439-96-5	mg/kg	180	460	350 JEB	190 JEB	160 EB	98 EB	130 EB	230 JEB	140 JEB	76 JEB	320 EB	370 EB
Nickel	7440-02-0	mg/kg	140	22.7	6.3 J	8.6 J	4.7	4.5	6.9	5.7 J	9.0 J	4.6 J	17	14 J
Selenium	7782-49-2	mg/kg	39	11	< 3.5 U	< 4.6 U	< 2.3 U	< 2.6 U	< 2.6 U	< 3.3 U	< 2.4 U	< 2.6 U	< 4.3 U	< 2.8 U
Silver	7440-22-4	mg/kg	39	1	0.15 J	< 0.92 U	< 0.47 U	< 0.51 U	< 0.52 U	0.16 J	0.12 J	< 0.52 U	0.48 J	0.47 J
Thallium	7440-28-0	mg/kg	0.078		< 0.70 U	< 0.92 U	< 0.47 U	< 0.51 U	< 0.52 U	< 0.66 U	< 0.47 U	< 0.52 U	< 0.85 U	< 0.56 U
Vanadium	7440-62-2	mg/kg	39		12	6.7	6.8	7.8	13	12	16	8.2	24 J	21
Zinc	7440-66-6	mg/kg	2300	121	140 J	110 J	61	32	24	140 J	90 J	17 J	280 EB	170 JEB
Mercury	7439-97-6	mg/kg	2.3	0.18	0.35	0.20	0.024 J	0.021 J	< 0.099 U	0.54	0.35	< 0.11 U	0.82	0.91
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.91 U	< 1.0 U	< 0.62 U	< 0.51 U	< 0.55 U	< 0.83 U	< 0.69 U	< 0.56 U	< 1.0 R	< 0.81 R
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 11 UJ	-	< 5.8 UJ	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 UJ	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 11 UJ	-	< 5.8 UJ	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 11 UJ	-	< 5.8 UJ	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 UJ	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 11 UJ	-	< 5.8 UJ	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 11 UJ	-	< 5.8 UJ	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
2-HEXANONE	591-78-6	ug/kg	20000	45	< 21 U	-	< 12 U	< 8.5 U	< 9.5 U	< 18 U	< 12 U	< 12 U	< 25 U	-
ACETONE	67-64-1	ug/kg	7000000	65	< 21 U	-	13 JEB	20 EB	6.0 JEB	200 EB	110 EB	9.4 JEB	500	-
Benzene	71-43-2	ug/kg	1200	10	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 UJ	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-

Table 11
Sediment Analytical Results
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				Location	23A-0036-PLC3	23A-0037-B2C1	23A-0039-PLC1	23A-0039-PLC1	23A-0039-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0041-PLC1	23A-0041-PLC1
				Sample Name	23A-0036-PLC3-AS	23A-0037-B2C1-AS	23A-0039-PLC1-AS	23A-0039-PLC1-BS	23A-0039-PLC1-CS	23A-0040-PLC1-AS	23A-0040-PLC1-BS	23A-0040-PLC1-CS	23A-0041-PLC1-AS	23A-0041-PLC1-BS
				Sample Date	6/24/2023	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 5.6 ft	0 - 0.5 ft	0.5 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	2.1 J	< 5.8 U	30	-
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Chlorobenzene	108-90-7	ug/kg	28000	30	< 11 UJ	-	< 5.8 UJ	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
CHLOROETHANE	75-00-3	ug/kg	540000		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Chloroform	67-66-3	ug/kg	320	87	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
CHLOROMETHANE	74-87-3	ug/kg	11000		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Cyclohexane	110-82-7	ug/kg	650000		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 UJ	< 9.0 U	< 6.1 U	< 5.8 U	19	-
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Ethylbenzene	100-41-4	ug/kg	5800	290	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
m,p-Xylene	179601-23-1	ug/kg	55000		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
METHYL ACETATE	79-20-9	ug/kg	7800000		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	< 21 U	-	< 12 U	< 8.5 U	< 9.5 U	56 EB	31 EB	< 12 U	97	-
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 21 U	-	< 12 U	< 8.5 U	< 9.5 U	< 18 U	< 12 U	< 12 U	< 25 U	-
Methylcyclohexane	108-87-2	ug/kg	9800		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 UJ	3.5 J	3.3 J	< 5.8 U	< 12 U	-
Methylene Chloride	75-09-2	ug/kg	35000	18	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Styrene	100-42-5	ug/kg	600000	126	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Toluene	108-88-3	ug/kg	490000	10	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
Vinyl Chloride	75-01-4	ug/kg	59	482	< 11 U	-	< 5.8 U	< 4.2 U	< 4.8 U	< 9.0 U	< 6.1 U	< 5.8 U	< 12 U	-
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	< 70 U	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 UJ	< 200 U	< 360 U	< 280 UJ
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 UJ	< 380 U	< 690 U	< 550 UJ
2-NITROANILINE	88-74-4	ug/kg	63000		< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U

Table 11
Sediment Analytical Results
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				Location	23A-0036-PLC3	23A-0037-B2C1	23A-0039-PLC1	23A-0039-PLC1	23A-0039-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0041-PLC1	23A-0041-PLC1
				Sample Name	23A-0036-PLC3-AS	23A-0037-B2C1-AS	23A-0039-PLC1-AS	23A-0039-PLC1-BS	23A-0039-PLC1-CS	23A-0040-PLC1-AS	23A-0040-PLC1-BS	23A-0040-PLC1-CS	23A-0041-PLC1-AS	23A-0041-PLC1-BS
				Sample Date	6/24/2023	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 5.6 ft	0 - 0.5 ft	0.5 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 UJ	< 460 U	< 380 U	< 690 U	< 550 UJ
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 UJ	< 380 U	< 690 U	< 550 UJ
4-Nitroaniline	100-01-6	ug/kg	25000		< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		150 J	270 J	220 J	140 J	110 J	150 J	130 J	< 380 U	140 JEB	230 JEB
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	150 J	360 J	70 J	61 J	44 J	180 J	160 J	< 200 U	360	660
Caprolactam	105-60-2	ug/kg	3100000		< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	370
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	< 550 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 320 U	< 370 U	< 220 U	< 180 U	< 190 U	< 300 U	< 240 U	< 200 U	< 360 U	< 280 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	175	< 630 U	< 720 U	< 430 U	< 350 U	< 370 U	< 570 U	< 460 U	< 380 U	< 690 U	89 J
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	-	-	-	-	-

Table 11
Sediment Analytical Results
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				Location	23A-0036-PLC3	23A-0037-B2C1	23A-0039-PLC1	23A-0039-PLC1	23A-0039-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0040-PLC1	23A-0041-PLC1	23A-0041-PLC1
				Sample Name	23A-0036-PLC3-AS	23A-0037-B2C1-AS	23A-0039-PLC1-AS	23A-0039-PLC1-BS	23A-0039-PLC1-CS	23A-0040-PLC1-AS	23A-0040-PLC1-BS	23A-0040-PLC1-CS	23A-0041-PLC1-AS	23A-0041-PLC1-BS
				Sample Date	6/24/2023	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/29/2023	6/29/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 5.6 ft	0 - 0.5 ft	0.5 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 13 U	< 14 U	< 8.7 UJ	-	< 7.3 U	< 11 U	< 9.3 U	< 7.8 U	< 14 R	< 11 U
1-Methylnaphthalene	90-12-0	ug/kg	18	141	< 6.3 U	< 7.2 U	0.94 J-	< 3.5 U	< 3.7 U	1.6 J	4.5 J	< 3.8 U	1.8 JEB	4.7 JEB
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	2.5 J	2.7 J	1.5 J-	0.86 J	< 3.7 U	3.0 J	6.1	< 3.8 U	1.8 JEB	4.8 JEB
Acenaphthene	83-32-9	ug/kg	360000	6.7	1.3 J	< 7.2 U	2.7 J-	< 3.5 U	< 3.7 U	6.4 J	9.1 J	< 3.8 U	5.0 J	15
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	< 6.3 U	< 7.2 U	6.3 J-	0.99 J	< 3.7 U	2.1 J	3.0 J	< 3.8 U	3.0 J	8.7
ANTHRACENE	120-12-7	ug/kg	1800000	57	1.5 J	3.1 J	14 J-	1.9 J	< 3.7 U	8.3	9.1 J-	< 3.8 U	3.9 J	49
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	14	17	67 J-	6.9	< 3.7 U	47	43	< 3.8 U	23	150
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	8.2	8.7	88	5.8	< 3.7 U	26	24	< 3.8 U	5.4 J	39
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	23	31	120	10	< 3.7 U	57	52	< 3.8 U	39	140
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	9.9	13	9.7 J-	0.97 J	< 3.7 U	22	18	< 3.8 U	< 6.9 U	2.4 J
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	8.0	11	50 J-	7.0	< 3.7 U	18	18	< 3.8 U	15	62
CHRYSENE	218-01-9	ug/kg	110000	166	18	22	54 J-	5.9	< 3.7 U	49	44	< 3.8 U	24	120
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	2.5 J	3.4 J	18 J-	< 3.5 U	< 3.7 U	6.1	5.0	< 3.8 U	4.5 J	20
FLUORANTHENE	206-44-0	ug/kg	240000	423	36	47	130	13	< 3.7 U	130	96	0.77 J	63	330
FLUORENE	86-73-7	ug/kg	240000	77	1.4 J	1.5 J	3.3 J-	< 3.5 U	< 3.7 U	5.4 J	10	< 3.8 U	4.3 J	23
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	8.8	11	49 J-	4.2	< 3.7 U	19	16	< 3.8 U	11	33
Naphthalene	91-20-3	ug/kg	2000	176	23 EB	28 EB	11 JEB	9.5 EB	6.3 EB	25 EB	24 EB	< 3.8 U	3.5 JEB	7.3 EB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 13 U	< 15 U	< 8.8 UJ	< 7.1 U	< 7.4 U	< 12 U	< 9.4 U	< 7.8 U	< 14 UJ	< 11 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	19	18	45 J-	5.5	< 3.7 U	64	90	< 3.8 U	38	180
PYRENE	129-00-0	ug/kg	180000	195	29 J	36 J	110	13	< 3.7 U	120 J	82 J	< 3.8 U	42	170
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			33000	61000	2900	2000	480	150000	16000	350	97000	-
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			11	-	< 2.5 U	-	-	2.9 J	-	-	21	-
Cadmium	7440-43-9	umol/g			0.0036	-	0.0012	-	-	0.0098	-	-	0.015	-
Copper	7440-50-8	umol/g			0.17	-	0.15	-	-	0.86	-	-	0.14 EB	-
Lead	7439-92-1	umol/g			0.15	-	0.087	-	-	0.72	-	-	0.81	-
Nickel	7440-02-0	umol/g			0.037	-	0.29	-	-	0.50	-	-	0.091	-
Silver	7440-22-4	umol/g			0.00041	-	0.00026	-	-	0.00062	-	-	0.00020 J	-
Zinc	7440-66-6	umol/g			1.0	-	0.83	-	-	2.8	-	-	3.1	-
Mercury	7439-97-6	umol/g			< 0.000030 U	-	0.000017 J	-	-	< 0.000074 U	-	-	< 0.000061 U	-

Table 11
Sediment Analytical Results
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					Location	23A-0042-PLC1	23A-0042-PLC1	23A-0042-PLC1	23A-0043-PLC1	23A-0043-PLC1	23A-0044-PLC1	23A-0045-PLC3	23A-0046-PLC2	23A-0046-PLC2	23A-0046-PLC2
					Sample Name	23A-0042-PLC1-AS	23A-0042-PLC1-BS	23A-0042-PLC1-CS	23A-0043-PLC1-AS	23A-0043-PLC1-BS	23A-0044-PLC1-AS	23A-0045-PLC3-AS	23A-0046-PLC2-AS	23A-0046-PLC2-BS	23A-0046-PLC2-CS
					Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 1.9 ft	1.9 - 2.7 ft	0 - 0.5 ft	0.5 - 1.6 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/kg	39	29		< 2.3 UJ	< 3.1 U	-	< 2.0 U	< 1.9 U	< 2.1 U	< 2.1 U	< 2.2 UJ	< 2.0 UJ	< 1.9 UJ
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3		< 2.3 UJ	< 3.1 U	-	< 2.0 U	< 1.9 U	< 2.1 U	< 2.1 U	< 2.2 UJ	< 2.0 UJ	< 1.9 UJ
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000			< 2.3 UJ	< 3.1 U	-	< 2.0 U	< 1.9 U	< 2.1 U	< 2.1 U	< 2.2 UJ	< 2.0 UJ	< 1.9 UJ
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5		< 2.3 UJ	< 3.1 U	-	< 2.0 U	< 1.9 U	< 2.1 U	< 2.1 U	< 2.2 UJ	< 2.0 UJ	< 1.9 UJ
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9		< 4.4 UJ	< 6.0 U	-	< 3.9 U	< 3.7 U	< 4.0 U	< 4.0 U	< 4.2 UJ	< 3.9 UJ	< 3.8 UJ
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600			< 2.3 UJ	< 3.1 U	-	< 2.0 U	< 1.9 U	< 2.1 U	< 2.1 U	6.0 J	5.3 J	< 1.9 UJ
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86			0.91 J-	30 J	-	< 2.0 U	0.46 J	2.5	32 J	3.8 J	77 J	20 J
DIELDRIN	60-57-1	ug/kg	34	1.9		< 4.4 UJ	< 6.0 U	-	< 3.9 U	< 3.7 U	< 4.0 U	< 4.0 U	< 4.2 UJ	< 3.9 UJ	< 3.8 UJ
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7		< 4.4 UJ	< 6.0 U	-	< 3.9 U	< 3.7 U	< 4.0 U	< 4.0 U	< 4.2 UJ	1.8 J	< 3.8 UJ
ENDRIN	72-20-8	ug/kg	1900	2.22		0.51 J	1.8 J	-	< 3.9 U	< 3.7 U	0.63 J	1.8 J	0.51 J	< 3.9 UJ	1.2 J
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900			< 4.4 UJ	< 6.0 U	-	< 3.9 U	< 3.7 U	< 4.0 U	< 4.0 U	< 4.2 UJ	< 3.9 UJ	< 3.8 UJ
ENDRIN KETONE	53494-70-5	ug/kg	1900			< 4.4 UJ	< 6.0 U	-	< 3.9 U	< 3.7 U	< 4.0 U	< 4.0 U	< 4.2 UJ	< 3.9 UJ	< 3.8 UJ
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4		< 2.3 UJ	12 J	-	1.0 J	< 1.9 U	0.62 J	13 J	< 2.2 UJ	14 J	< 1.9 UJ
HEPTACHLOR	76-44-8	ug/kg	130	0.6		< 2.3 UJ	< 3.1 U	-	< 2.0 U	< 1.9 U	< 2.1 U	< 2.1 U	< 2.2 UJ	< 2.0 UJ	< 1.9 UJ
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47		< 2.3 UJ	4.7 J	-	< 2.0 U	0.61 J	< 2.1 U	8.1 J	< 2.2 UJ	< 2.0 UJ	3.2 J
METHOXYCHLOR	72-43-5	ug/kg	32000	30		< 23 UJ	< 31 U	-	< 20 U	< 19 U	< 21 U	< 21 U	< 22 UJ	< 20 UJ	< 19 UJ
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5		1.8 J	8.5 J	-	< 3.9 U	< 3.7 U	1.9 J	< 4.0 U	3.2 J	12 J	2.3 J
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4		0.69 J	< 6.0 U	-	< 3.9 U	< 3.7 U	0.51 J	< 4.0 U	1.1 J	< 3.9 UJ	< 3.8 UJ
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1		2.5 J	9.2 J	-	11	1.2 J	5.7 J	12	2.6 J	7.4 J	4.8 J
TOXAPHENE	8001-35-2	ug/kg	490	0.1		< 230 UJ	< 310 U	-	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600			< 2.3 UJ	7.6 J	-	10 J	1.1 J	1.2 J	8.8 J	< 2.2 UJ	< 2.0 UJ	3.4 J
Grain Size															
%CLAY	%CLAY	%				0	7.8	-	-	5.5	-	-	-	7.4	10
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%				0.7	3.1	-	-	11.9	-	-	-	6.7	6.3
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%				93.3	74	-	-	13.5	-	-	-	29.4	46.7
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%				5.6	12.8	-	-	22.9	-	-	-	38.5	28.1
Gravel	GRAVEL	%				0.4	2.3	-	-	27.8	-	-	-	4.2	2.3
Hydrometer, Reading 1, Percent Passing	HYD01	%				12.3	22.4	-	-	7	-	-	-	8.8	13
Hydrometer, Reading 2, Percent Passing	HYD02	%				12.3	22.4	-	-	5.5	-	-	-	8.8	11.5
Hydrometer, Reading 3, Percent Passing	HYD03	%				12.3	22.4	-	-	5.5	-	-	-	8.8	11.5
Hydrometer, Reading 4, Percent Passing	HYD04	%				12.3	22.4	-	-	5.5	-	-	-	8.8	10
Hydrometer, Reading 5, Percent Passing	HYD05	%				8.6	22.4	-	-	5.5	-	-	-	7.4	10
Hydrometer, Reading 6, Percent Passing	HYD06	%				8.6	17.2	-	-	5.5	-	-	-	7.4	8.5
Hydrometer, Reading 7, Percent Passing	HYD07	%				8.6	17.2	-	-	4	-	-	-	7.4	8.5
Sand	308075-07-2	%				99.6	89.9	-	-	48.3	-	-	-	74.6	81.1
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%				98.9	94.6	-	-	60.3	-	-	-	89.1	91.4
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%				93.3	81.8	-	-	37.4	-	-	-	50.6	63.3
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%				37.4	32	-	-	25	-	-	-	27.2	32.6
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%				97.6	90.5	-	-	50.7	-	-	-	78.8	81.6
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%				70.1	52.3	-	-	27.4	-	-	-	32.2	43.4
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%				0	23.3	-	-	25	-	-	-	25.1	26.9
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%				0	7.8	-	-	23.9	-	-	-	21.2	16.6
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%				99.6	97.7	-	-	72.2	-	-	-	95.8	97.7
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%				100	100	-	-	79.4	-	-	-	100	100
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%				100	100	-	-	100	-	-	-	100	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%				100	100	-	-	100	-	-	-	100	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%				100	100	-	-	100	-	-	-	100	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%				100	100	-	-	100	-	-	-	100	100
SILT	445	%				0	0	-	-	18.4	-	-	-	13.8	6.6

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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					Location	23A-0042-PLC1	23A-0042-PLC1	23A-0042-PLC1	23A-0043-PLC1	23A-0043-PLC1	23A-0044-PLC1	23A-0045-PLC3	23A-0046-PLC2	23A-0046-PLC2	23A-0046-PLC2
					Sample Name	23A-0042-PLC1-AS	23A-0042-PLC1-BS	23A-0042-PLC1-CS	23A-0043-PLC1-AS	23A-0043-PLC1-BS	23A-0044-PLC1-AS	23A-0045-PLC3-AS	23A-0046-PLC2-AS	23A-0046-PLC2-BS	23A-0046-PLC2-CS
					Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 1.9 ft	1.9 - 2.7 ft	0 - 0.5 ft	0.5 - 1.6 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	220 J	1290 J	79.6 J	132	7.39	32.4	163	77.8	166	76.4
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	3.48 J	18.3 J	1.23 J	2.80 J	< 0.315 U	1.56	3.33 JN	2.28 JN	4.57 JN	2.59 JN
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	2.66 J	11.6 J	1.57 J	2.32 J	< 0.476 U	< 0.648 U	2.71	1.24 JN	2.58 J	1.75 J
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	5.62 J	44.2 J	3.23 J	7.60 J	< 4.68 UJ	1.47 JN	6.89	7.07 J	7.56 J	19.5 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	14.2 J	80.3 J	5.85 J	9.96	0.73 JN	2.29	10.1	5.76	9.41	6.4
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	3.29 J	19.9 J	1.56 J	3.30 J+	< 0.306 U	1.7 JN	2.84 JN	3.87 JN	4.17 J	5.21
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	7.05 J	38.2 J	3.14 J	5.29	< 0.475 U	0.96 JN	4.87	2.15 J	4.8 J	3.45 J
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.198 UJ	< 0.473 UJ	< 0.191 UJ	< 0.405 U	< 0.429 U	< 0.9 U	< 1.52 U	< 0.858 U	< 0.899 U	< 0.83 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	1.18 J	5.70 JN	0.443 JN	1.37 JN	< 0.391 UJ	< 0.597 UJ	0.96 JN	1.02 JN	< 0.848 UJ	< 0.718 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	0.825 J	7.73 J	0.963 J	2.10 J+	< 0.319 U	< 0.638 U	1.06 JN	2.28 J	2.03 JN	1.9 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	113 J	736 J	36.8 J	52.4	3.24 J	27.0 J+	78.9 J+	42 J+	64.5 J+	84.3 J+
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	3.61 J	19.9 J	1.64 J	4.41 J	< 0.386 U	1.4 JN	3.79 JN	4.92 JN	6.49	5.23
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	4.93 J	36.6 J	6.50 J	16.4	1.03 J	4.26	12.6	19.1 J+	20.3 J+	13.4 J+
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 0.326 UJ	1.81 J	< 0.368 UJ	< 0.829 U	< 0.884 U	< 1.96 UJ	< 1.92 UJ	< 1.04 UJ	< 1.22 UJ	< 0.504 U
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	1.71 J	20.0 J	2.32 J	5.43	< 0.304 U	< 0.542 U	3.39	5.51	4.94 JN	3.24 JN
OCDD	3268-87-9	pg/g	16000	5000	1420 J	8240 J	500 J	770	45.4	247	1320	506	1030	350
OCDF	39001-02-0	pg/g	16000	5000	108 J	550 J	27.9 J	46.9	2.99 J	44.8	82.0	61.4	195	88.7
Total HpCDD (a)	RA_Total_HpCDD	pg/g			220	1290	79.6	132	7.39	32.4	163	77.8	166	76.4
Total HpCDF (a)	RA_Total_HpCDF	pg/g			116	754	38.0	55.2	3.24	28.6	82.2	44.3	69.1	86.9
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		23.9	130	10.6	17.6	0.73	3.25	17.7	9.15	16.8	11.6
Total HxCDF (a)	RA_Total_HxCDF	pg/g			12.5	84.0	6.43	15.3	< 4.68 U	4.57	13.5	15.9	18.2	29.9
Total PeCDD (a)	RA_Total_PeCDD	pg/g			1.18	5.70	0.443	1.37	< 0.391 U	< 0.597 U	0.96	1.02	< 0.848 U	< 0.718 U
Total PeCDF (a)	RA_Total_PeCDF	pg/g			5.76	44.3	7.46	18.5	1.03	4.26	13.7	21.4	22.3	15.3
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.326 U	1.81	< 0.368 U	< 0.829 U	< 0.884 U	< 1.96 U	< 1.92 U	< 1.04 U	< 1.22 U	< 0.504 U
Total TCDF (a)	RA_Total_TCDF	pg/g			1.71	20.0	2.32	5.43	< 0.304 U	< 0.542 U	3.39	5.51	4.94	3.24
PCB Congeners															
PCB-001	2051-60-7	ng/g	230	14.0	2.54 JEB	196 JEB	16.2 JEB	6.89 JEB	0.344 JEB	15.9 JEB	27.1 EB	127 JEB	139 JEB	109 JEB
PCB-002	2051-61-8	ng/g	230	14.0	< 0.0503 U	4.67 JEB	0.462 JEB	< 0.0496 U	< 0.0507 U	< 0.0531 U	0.41 JEB	4.10 JEB	4.28 JEB	1.43 JEB
PCB-003	2051-62-9	ng/g	230	14.0	1.25 JEB	44.5 JEB	3.35 JEB	2.27 JEB	< 0.0494 U	3.25 J	6.87 J	37.8	39.7 J	20.8
PCB-004/010	PCB-4/10	ng/g	230	14.0	18.8 EB	2770 JEB	181 JEB	30 EB	1.71 JEB	102 J	418 J	2290 JEB	2560 JEB	811 JEB
PCB-005/008	PCB-5/8	ng/g	230	14.0	15.7 JEB	1930 JEB	313 JEB	61.3 JEB	4.4 JEB	103 J	305 J	2600 JEB	2730 JEB	789 JEB
PCB-006	25569-80-6	ng/g	230	14.0	5.50 JEB	641 JEB	95.4 JEB	26.8 EB	1.66 JEB	23.8	193 J	1520 JEB	1600 JEB	332 JEB
PCB-007/009	PCB-7/9	ng/g	230	14.0	1.05 J	134 J	21.1	5.68 J	< 0.0854 U	6.46 J	31.9	246 J	257 J	64.2 J
PCB-011	2050-67-1	ng/g	230	14.0	0.519 JEB	18.5 JEB	3.19 JEB	5.52 JEB	< 0.0470 U	1.12 JEB	37.4 EB	53.6 JEB	52.2 JEB	16.8 JEB
PCB-012/013	PCB-12/13	ng/g	230	14.0	2.45 J	106 J	13.2 J	20.2	1.35 J	3.63 J	145 J	247 J	239 J	54.7 J
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0467 U	< 0.0486 U	< 0.0462 U	< 0.0461 U	< 0.0472 U	< 0.0494 U	< 0.0483 U	< 0.0489 U	< 0.0485 U	< 0.0451 U
PCB-015	2050-68-2	ng/g	230	14.0	14.8 JEB	421 JEB	71.3 JEB	70.4 JEB	5.41 JEB	29	561 J	961 J	937 J	224 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	28.2 JEB	1780 JEB	311 JEB	136 JEB	7.37 JEB	75.2 JEB	959 JEB	2040 JEB	2040 JEB	594 JEB
PCB-017	37680-66-3	ng/g	230	14.0	17.8 JEB	1610 JEB	274 JEB	97.8 JEB	4.92 JEB	79.8 JEB	760 JEB	1840 JEB	1840 JEB	551 JEB
PCB-018	37680-65-2	ng/g	230	14.0	11.7 JEB	1940 JEB	365 JEB	99.9 JEB	5.49 JEB	54.9 JEB	567 JEB	2080 JEB	2110 JEB	598 JEB
PCB-019	38444-73-4	ng/g	230	14.0	9.76 JEB	479 JEB	63.2 JEB	12.6 JEB	0.588 JEB	25.2	315 J	620 J	622 J	190 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	4.14 JEB	837 JEB	177 JEB	55 JEB	2.63 JEB	10.8 JEB	148 JEB	427 JEB	427 JEB	106 JEB
PCB-022	38444-85-8	ng/g	230	14.0	4.58 JEB	564 JEB	121 JEB	90.1 JEB	4.52 JEB	10.8 JEB	292 JEB	761 JEB	734 JEB	147 JEB
PCB-023/034	PCB-23/34	ng/g	230	14.0	< 0.0844 U	34.0	5.89 J	3.47 J	< 0.0852 U	1.14 J	20.5	< 0.0882 U	34.5	11.6 J
PCB-024/027	PCB-24/27	ng/g	230	14.0	5.04 JEB	286 JEB	45.7 JEB	20.4 EB	1.05 JEB	16.8 J	171 J	335 J	336 J	108 J
PCB-025	55712-37-3	ng/g	230	14.0	8.57 JEB	652 JEB	98.1 JEB	119 JEB	5.77 JEB	24.8	610 J	1030 J	970 J	379 J
PCB-026	38444-81-4	ng/g	230	14.0	11.5 JEB	891 JEB	154 JEB	180 JEB	9.1 JEB	34.4	794 J	1330 JEB	1280 JEB	494 JEB
PCB-028	7012-37-5	ng/g	230	14.0	26.4 JEB	3180 JEB	610 JEB	678 JEB	33.7 EB	110 JEB	1680 JEB	2600 JEB	2520 JEB	888 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0488 U	8.22 J	1.87 J	< 0.0481 U	< 0.0492 U	< 0.0516 U	0.807 J	3.63 J	3.06 J	< 0.0471 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0042-PLC1	23A-0042-PLC1	23A-0042-PLC1	23A-0043-PLC1	23A-0043-PLC1	23A-0044-PLC1	23A-0045-PLC3	23A-0046-PLC2	23A-0046-PLC2	23A-0046-PLC2
					Sample Name	23A-0042-PLC1-AS	23A-0042-PLC1-BS	23A-0042-PLC1-CS	23A-0043-PLC1-AS	23A-0043-PLC1-BS	23A-0044-PLC1-AS	23A-0045-PLC3-AS	23A-0046-PLC2-AS	23A-0046-PLC2-BS	23A-0046-PLC2-CS
					Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 1.9 ft	1.9 - 2.7 ft	0 - 0.5 ft	0.5 - 1.6 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0447 U	1.41 J	< 0.0442 U	< 0.0441 U	< 0.0451 U	< 0.0472 U	1.07 J	2.48 J	2.45 J	0.445 J
PCB-031	16606-02-3	ng/g	230	14.0	24.2 JEB	2730 JEB	504 JEB	259 JEB	11.7 JEB	65.5 JEB	1430 JEB	3090 JEB	2910 JEB	866 JEB
PCB-035	37680-69-6	ng/g	230	14.0	< 0.0530 U	22.2 J+	3.64 J+	3.92 J+	< 0.0535 U	< 0.0561 U	5.85 J+	11.1 J+	11.8 J+	2.76 J+
PCB-036	38444-87-0	ng/g	230	14.0	< 0.0453 U	12.9 J	3.21 J	2.6 J	< 0.0457 U	< 0.0478 U	7.67 J	13.6 J	13.4 J	3.75 J
PCB-037	38444-90-5	ng/g	230	14.0	4.46 J	420 J	84.3 J	134 J	6.84 J	9.64 J	179 J	384 J	386 J	75.6 J
PCB-038	53555-66-1	ng/g	230	14.0	< 0.0375 U	22.9	4.33 J	10.2 J	< 0.0378 U	0.994 J	13.6 J	20.0	19.3	8.48 J
PCB-039	38444-88-1	ng/g	230	14.0	< 0.0230 U	6.79 J	1.16 J	1.76 J	< 0.0232 U	< 0.0243 U	3.93 J	5.50 J	4.85 J	2.12 J
PCB-040	38444-93-8	ng/g	230	14.0	1.46 J	197 J	47.0 J	62.9 J	2.69 J	5.53 J	98.9 J	164 JEB	154 JEB	54.6 JEB
PCB-041/064	PCB-41/64	ng/g	230	14.0	5.40 J	579 J	136 J	254 J	10.4 J	17.7 J	389 J	563 J	551 J	175 J
PCB-042	36559-22-5	ng/g	230	14.0	5.62 J	554 J	105 J	201 J	7.97 J	13.8 J	256 J	393 J	356 J	141 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	24.2 JEB	1760 JEB	338 JEB	638 JEB	24.8 EB	52.3 J	836 J	1190 JEB	1120 JEB	519 JEB
PCB-044	41464-39-5	ng/g	230	14.0	11.0 JEB	1280 JEB	279 JEB	427 JEB	17.4 JEB	35.6 EB	607 JEB	927 JEB	887 JEB	352 JEB
PCB-045	70362-45-7	ng/g	230	14.0	1.76 J	252 J	57.9 J	47.8 J	2.19 J	6.67 J	141 J	247 J	235 J	66.9 J
PCB-046	41464-47-5	ng/g	230	14.0	1.28 J	118 J	23.3	22.2	1.07 J	3.04 J	45 J	84.6 J	81.3 J	29.0
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	18.2 JEB	1160 JEB	223 JEB	389 JEB	14.9 JEB	38.2	505 J	675 JEB	641 JEB	274 JEB
PCB-050	62796-65-0	ng/g	230	14.0	< 0.0595 U	10.0 J	1.96 J	2.25 J	< 0.0601 U	< 0.0629 U	6.54 J	8.99 J	8.22 J	3.33 J
PCB-051	68194-04-7	ng/g	230	14.0	4.06 J	174 J	30.5	42.6 J	1.91 J	8.64 J	90.9 J	125 J	117 J	56.3 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	21.2 JEB	1630 JEB	340 JEB	575 JEB	22.7 EB	53.3 JEB	806 JEB	1120 JEB	1070 JEB	507 JEB
PCB-053	41464-41-9	ng/g	230	14.0	6.38 JEB	423 JEB	85.9 JEB	93.1 JEB	4.25 JEB	19.8	178 J	275 J	264 J	139 J
PCB-054	15968-05-5	ng/g	230	14.0	0.366 J	11.6 J	2.13 J	1.6 J	< 0.0399 U	0.79 J	6.89 J	8.79 J	8.42 J	4.55 J
PCB-055	74338-24-2	ng/g	230	14.0	< 0.0514 U	6.86 J	2.11 J	5.29 J	< 0.0519 U	0.407 J	7.16 J	10.9 J	11.8 J	2.24 J
PCB-056/060	PCB-56/60	ng/g	230	14.0	6.11 JEB	491 JEB	130 JEB	205 JEB	8.86 JEB	13.1 J	157 J	256 JEB	274 JEB	45.8 JEB
PCB-057	70424-67-8	ng/g	230	14.0	< 0.0397 U	17.2 J	3.27 J	10.5 J	< 0.0401 U	0.864 J	14.8 J	15.0 J	14.9 J	9.53 J
PCB-058	41464-49-7	ng/g	230	14.0	< 0.0360 U	6.15 J	1.29 J	2.64 J	< 0.0363 U	< 0.0380 U	1.83 J	2.69 J	2.60 J	1.16 J
PCB-059	74472-33-6	ng/g	230	14.0	0.754 J	79.1 J	17.6 J	26	1.28 J	2.31 J	56.3 J	96.6 J	90.9 J	27.1
PCB-061/074	PCB-61/74	ng/g	230	14.0	7.15 J	623 J	159 J	276 J	11.3 J	17.6 J	211 J	335 JEB	343 JEB	109 JEB
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0491 U	< 0.0511 U	< 0.0486 U	< 0.0485 U	< 0.0496 U	< 0.0520 U	< 0.0507 U	< 0.0514 U	< 0.0510 U	< 0.0474 U
PCB-063	74472-34-7	ng/g	230	14.0	1.29 J	81.4 J	19.2	41.7 J	1.84 J	3.32 J	48.9 J	58.6 J	58.2 J	28.9
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0708 U	0.588 J	< 0.0700 U	< 0.0699 U	< 0.0715 U	< 0.0749 U	0.473 J	0.796 J	0.725 J	< 0.0684 U
PCB-066/080	PCB-66/80	ng/g	230	14.0	12.6 JEB	1070 JEB	231 JEB	373 JEB	15.1 JEB	20 EB	242 JEB	373 JEB	397 JEB	93.2 JEB
PCB-067	73575-53-8	ng/g	230	14.0	< 0.0434 U	45.3 J	12.4 J	23	1.01 J	1.21 J	18.7 J	26.5	27.8	9.58 J
PCB-068	73575-52-7	ng/g	230	14.0	< 0.0514 U	643 J	< 0.0508 U	4.83 J	< 0.0519 UJ	< 0.0543 U	< 0.0530 U	< 0.0537 U	< 0.0533 U	3.98 J
PCB-069	60233-24-1	ng/g	230	14.0	< 0.0534 U	4.31 J	0.653 J	1.18 J	< 0.0539 U	< 0.0565 U	3.15 J	3.67 J	3.50 J	1.23 J
PCB-070	32598-11-1	ng/g	230	14.0	12.8 JEB	1150 JEB	249 JEB	324 JEB	13.2 JEB	19.9 EB	215 JEB	333 JEB	347 JEB	68.9 JEB
PCB-071	41464-46-4	ng/g	230	14.0	6.13 JEB	439 JEB	91.9 JEB	177 JEB	7.76 JEB	15.7 J	227 J	339 JEB	317 JEB	142 JEB
PCB-072	41464-42-0	ng/g	230	14.0	0.519 J	20.9	3.59 J	9.08 J	< 0.0584 U	0.783 J	11.9 J	13.9 J	13.0 J	7.70 J
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0710 U	< 0.0738 U	< 0.0702 U	< 0.0701 U	< 0.0717 U	< 0.0751 U	< 0.0733 U	< 0.0743 U	< 0.0737 U	< 0.0685 U
PCB-077	32598-13-3	ng/g	38.0	14.0	1.64 J+	95.7 J	22.6 J+	54.6 J	2.86 J+	3.05 J+	40.7 J	53.0 J	54.9 J	17.3 J+
PCB-078	70362-49-1	ng/g	230	14.0	< 0.0364 U	2.07 J	0.472 J	1.46 J	< 0.0367 U	< 0.0384 U	1.05 J	1.15 J	1.06 J	0.626 J
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0456 U	< 0.0474 U	1.01 J	2.5 J	< 0.0461 U	< 0.0482 U	< 0.0471 U	< 0.0477 U	< 0.0474 U	< 0.0440 U
PCB-081	70362-50-4	ng/g	12.0	14.0	< 0.0712 U	5.70 J+	1.75 J+	4.54 J+	< 0.0719 U	< 0.0753 U	3.24 J+	3.88 J+	4.34 J+	1.44 J+
PCB-082	52663-62-4	ng/g	230	14.0	1.31 J	48.8 J	13.9 J	37.3 J	1.43 J	2.29 J	31.3	28.9	29.2	12.3 J
PCB-083/109	PCB-83/109	ng/g	230	14.0	0.858 J	33.9	7.36 J	22.5	0.793 J	1.3 J	17.7 J	18.0 J	16.8 J	9.72 J
PCB-084	52663-60-2	ng/g	230	14.0	3.52 J	166 J	34.0 J	84.8 J	3.11 J	5.49 J	78 J	86.6 J	78.8 J	43.0 J
PCB-085/120	PCB-85/120	ng/g	230	14.0	3.02 J	92.3 J	26.2	74.7 J	2.8 J	4.34 J	55.6 J	55.5 J	58.2 J	25.1
PCB-086/097	PCB-86/97	ng/g	230	14.0	3.66 J	166 J	36.8 J	85.7 J	3.15 J	4.51 J	52 J	59.7 J	59.8 J	< 0.0428 U
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	< 0.0286 U	< 0.0297 U	< 0.0282 U	< 0.0282 U	< 0.0288 U	< 0.0302 U	< 0.0295 U	< 0.0299 U	< 0.0296 U	< 0.0276 U
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.103 U	1.87 J	< 0.102 U	1.26 J	< 0.104 U	< 0.109 U	1.31 J	1.58 J	1.48 J	< 0.0997 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	13.1 J	463 J	92.8 J	222 J	8.01 J	12.2 J	135 J	151 J	151 J	71.7 J
PCB-091	68194-05-8	ng/g	230	14.0	2.92 J	136 J	26.9	80.6 J	2.94 J	4.99 J	67.7 J	75.3 J	69.2 J	37.5 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0042-PLC1	23A-0042-PLC1	23A-0042-PLC1	23A-0043-PLC1	23A-0043-PLC1	23A-0044-PLC1	23A-0045-PLC3	23A-0046-PLC2	23A-0046-PLC2	23A-0046-PLC2
				Sample Name	23A-0042-PLC1-AS	23A-0042-PLC1-BS	23A-0042-PLC1-CS	23A-0043-PLC1-AS	23A-0043-PLC1-BS	23A-0044-PLC1-AS	23A-0045-PLC3-AS	23A-0046-PLC2-AS	23A-0046-PLC2-BS	23A-0046-PLC2-CS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.9 ft	1.9 - 2.7 ft	0 - 0.5 ft	0.5 - 1.6 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-092	52663-61-3	ng/g	230	14.0	2.94 J	90.5 J	18.1 J	55 J	2.01 J	3.62 J	45 J	44.7 J	41.6 J	28.4
PCB-093/095	PCB-93/95	ng/g	230	14.0	10.5 J	408 J	86.4 J	217 J	7.35 J	14 J	198 J	218 J	206 J	112 J
PCB-094	73575-55-0	ng/g	230	14.0	< 0.0853 U	9.43 J	2.03 J	5.45 J	< 0.0861 U	< 0.0902 U	4.93 J	5.36 J	4.87 J	3.28 J
PCB-096	73575-54-9	ng/g	230	14.0	0.185 J	14.3 J	3.00 J	7.24 J	0.256 J	0.45 J	6.84 J	6.92 J	6.50 J	3.87 J
PCB-098/102	PCB-98/102	ng/g	230	14.0	0.889 J	45.5 J	10.2 J	27.5	1.05 J	1.78 J	26.5	27.3	25.1	12.3 J
PCB-099	38380-01-7	ng/g	230	14.0	6.90 J	290 J	59.8 J	146 J	5.12 J	7.6 J	86.6 J	94.9 J	95.4 J	45.9 J
PCB-100	39485-83-1	ng/g	230	14.0	< 0.0454 U	7.63 J	0.975 J	3.14 J	< 0.0459 U	< 0.0480 U	2.56 J	3.33 J	3.15 J	2.32 J
PCB-103	60145-21-3	ng/g	230	14.0	0.252 J	9.86 J	1.61 J	4.75 J	< 0.0474 U	0.334 J	3.84 J	4.56 J	4.28 J	2.96 J
PCB-104	56558-16-8	ng/g	230	14.0	< 0.0434 U	0.315 J	< 0.0429 U	< 0.0428 U	< 0.0438 U	< 0.0459 U	< 0.0448 U	< 0.0454 U	< 0.0451 U	< 0.0419 U
PCB-105/127	PCB-105/127	ng/g	120	14.0	3.97 J	148 J	38.1 J	115 J	4.84 J	6.07 J	59.7 J	72.2 J	75.3 J	24.3
PCB-106/118	PCB-106/118	ng/g	120	14.0	11.3 J	441 J	92.4 J	230 J	8.85 J	12 J	114 J	130 J	134 J	55.9 J
PCB-107/108	PCB-107/108	ng/g	230	14.0	1.05 J	38.4	8.71 J	22.6	0.91 J	1.04 J	12 J	12.6 J	13.4 J	6.22 J
PCB-110	38380-03-9	ng/g	230	14.0	16.9 JEB	589 JEB	123 JEB	360 JEB	13.8 JEB	21.2	276 J	298 JEB	281 JEB	156 JEB
PCB-111/117	PCB-111/117	ng/g	230	14.0	4.44 J	126 J	32.8	101 J	3.87 J	6.06 J	71.1 J	80.2 J	82.1 J	33.2
PCB-112	74472-36-9	ng/g	230	14.0	< 0.0447 U	2.64 J	0.669 J	1.87 J	< 0.0451 U	< 0.0472 U	1.84 J	2.06 J	2.05 J	1.01 J
PCB-113	68194-10-5	ng/g	230	14.0	< 0.0469 U	2.68 J	< 0.0464 U	2.34 J	< 0.0474 U	< 0.0496 U	2.52 J	2.15 J	2.00 J	1.50 J
PCB-114	74472-37-0	ng/g	120	14.0	< 0.0389 U	11.7 J	3.19 J	9.67 J	< 0.0393 U	< 0.0412 U	5.76 J	6.53 J	7.19 J	2.16 J
PCB-119	56558-17-9	ng/g	230	14.0	0.727 J	25.5	4.47 J	13.7 J	0.575 J	0.907 J	10.3 J	11.3 J	10.5 J	6.64 J
PCB-122	76842-07-4	ng/g	230	14.0	< 0.0328 U	4.58 J	1.29 J	3.97 J	< 0.0331 U	< 0.0347 U	1.92 J	2.47 J	2.68 J	0.681 J
PCB-123	65510-44-3	ng/g	120	14.0	< 0.0304 U	10.4 J+	2.42 J+	7.2 J+	< 0.0307 U	< 0.0322 U	3.98 J+	4.43 J+	4.94 J+	1.81 J+
PCB-124	70424-70-3	ng/g	230	14.0	0.485 J	11.7 J	2.61 J	8.5 J	< 0.0414 U	< 0.0433 U	3.61 J	4.85 J	5.09 J	1.71 J
PCB-125	74472-39-2	ng/g	230	14.0	< 0.0449 U	3.93 J	0.956 J	1.73 J	< 0.0453 U	< 0.0474 U	< 0.0463 U	0.803 J	0.811 J	< 0.0433 U
PCB-126	57465-28-8	ng/g	0.0360	14.0	< 0.0638 U	1.84 J+	< 0.0630 U	1.82 J+	< 0.0644 U	< 0.0674 U	1.01 J+	1.17 J+	1.09 J+	0.528 J+
PCB-128	38380-07-3	ng/g	230	14.0	2.60 J	36.6	5.88 J	18.7	0.69 J	1.23 J	11.8 J	9.19 J	10.1 J	6.90 J
PCB-129	55215-18-4	ng/g	230	14.0	< 0.0495 U	8.94 J	1.57 J	5.12 J	< 0.0500 U	< 0.0523 U	2.76 J	2.19 J	2.46 J	1.23 J
PCB-130	52663-66-8	ng/g	230	14.0	0.744 J	12.7 J	2.28 J	7.19 J	< 0.0393 U	< 0.0412 U	4.89 J	3.87 J	4.28 J	3.23 J
PCB-131/142	PCB-131/142	ng/g	230	14.0	< 0.0959 U	2.59 J	0.481 J	1.62 J	< 0.0968 U	< 0.101 U	1.23 J	0.919 J	0.952 J	0.610 J
PCB-132/168	PCB-132/168	ng/g	230	14.0	4.26 J	67.5 J	11.2 J	33.8	1.36 J	2.27 J	24.8	20.7	21.1	15.4 J
PCB-133	35694-04-3	ng/g	230	14.0	< 0.0349 U	3.44 J	0.513 J	1.67 J	< 0.0352 U	< 0.0369 U	1.26 J	1.11 J	1.15 J	1.17 J
PCB-134	52704-70-8	ng/g	230	14.0	0.659 J	11.4 J	1.78 J	5.83 J	< 0.0932 U	< 0.0976 U	4.02 J	3.57 J	3.55 J	2.55 J
PCB-135/144	PCB-135/144	ng/g	230	14.0	1.63 J	27.7	4.91 J	15.4 J	0.552 J	1.01 J	11.1 J	9.85 J	9.94 J	7.84 J
PCB-136	38411-22-2	ng/g	230	14.0	1.38 J	25.6	4.01 J	12.3 J	0.429 J	0.83 J	8.45 J	8.63 J	8.31 J	6.08 J
PCB-137	35694-06-5	ng/g	230	14.0	0.727 J	12.8 J	2.05 J	6.73 J	< 0.0457 U	< 0.0478 U	3.88 J	3.22 J	3.62 J	1.97 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	13.2 J	191 J	31.5	105 J	3.85 J	6.39 J	60.4 J	58.2 J	56.9 J	41.4 J
PCB-139/149	PCB-139/149	ng/g	230	14.0	7.68 J	132 J	21.1	64.1 J	2.36 J	4.14 J	44.1 J	43.3 J	43.2 J	31.4
PCB-140	59291-64-4	ng/g	230	14.0	< 0.0660 U	1.78 J	< 0.0652 U	0.674 J	< 0.0666 U	< 0.0698 U	< 0.0682 U	0.444 J	0.466 J	0.408 J
PCB-141	52712-04-6	ng/g	230	14.0	1.78 J	28.2	4.79 J	15.2 J	0.566 J	0.953 J	8.27 J	7.73 J	8.10 J	4.70 J
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0595 U	0.903 J	< 0.0588 U	< 0.0587 U	< 0.0601 U	< 0.0629 U	< 0.0615 U	< 0.0622 U	< 0.0618 U	< 0.0574 U
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0786 U	0.216 J	< 0.0777 U	< 0.0776 U	< 0.0794 U	< 0.0831 U	< 0.0812 U	< 0.0822 U	< 0.0816 U	< 0.0759 U
PCB-146	51908-16-8	ng/g	230	14.0	1.31 J	23.7	4.03 J	11 J	0.392 J	0.703 J	7.37 J	7.18 J	7.18 J	6.11 J
PCB-147	68194-13-8	ng/g	230	14.0	0.447 J	8.36 J	0.908 J	3.59 J	< 0.0700 U	0.317 J	2.11 J	2.78 J	2.59 J	1.94 J
PCB-148	74472-41-6	ng/g	230	14.0	< 0.0727 U	0.506 J	< 0.0718 U	< 0.0717 U	< 0.0734 U	< 0.0768 U	< 0.0751 U	< 0.0760 U	< 0.0755 U	< 0.0701 U
PCB-150	68194-08-1	ng/g	230	14.0	< 0.0734 U	0.653 J	< 0.0726 U	0.249 J	< 0.0741 U	< 0.0776 U	< 0.0758 U	0.261 J	0.207 J	0.174 J
PCB-151	52663-63-5	ng/g	230	14.0	1.62 J	31.2	5.33 J	16.7 J	0.592 J	1.12 J	11.2 J	11.9 J	11.1 J	8.39 J
PCB-152	68194-09-2	ng/g	230	14.0	< 0.0859 U	0.803 J	< 0.0848 U	0.362 J	< 0.0867 U	< 0.0908 U	< 0.0887 U	0.303 J	0.294 J	< 0.0829 U
PCB-153	35065-27-1	ng/g	230	14.0	8.29 J	135 J	21.0	60.2 J	2.2 J	3.76 J	34.5	34.5	35.1	24.3
PCB-154	60145-22-4	ng/g	230	14.0	< 0.0512 U	4.33 J	0.622 J	1.77 J	< 0.0517 U	< 0.0541 U	1.22 J	1.49 J	1.40 J	1.28 J
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0441 U	< 0.0459 U	< 0.0436 U	< 0.0436 U	< 0.0446 U	< 0.0467 U	< 0.0456 U	< 0.0462 U	< 0.0458 U	< 0.0426 U
PCB-156	38380-08-4	ng/g	120	14.0	1.13 J-	22.7 J-	3.69 J-	11.2 J	0.407 J	0.678 J	5.86 J	5.18 J	5.45 J	3.41 J
PCB-157	69782-90-7	ng/g	120	14.0	0.424 J	6.36 J	0.977 J	2.99 J+	< 0.0520 U	< 0.0545 U	1.67 J+	1.68 J+	1.87 J+	1.20 J+

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0042-PLC1	23A-0042-PLC1	23A-0042-PLC1	23A-0043-PLC1	23A-0043-PLC1	23A-0044-PLC1	23A-0045-PLC3	23A-0046-PLC2	23A-0046-PLC2	23A-0046-PLC2
				Sample Name	23A-0042-PLC1-AS	23A-0042-PLC1-BS	23A-0042-PLC1-CS	23A-0043-PLC1-AS	23A-0043-PLC1-BS	23A-0044-PLC1-AS	23A-0045-PLC3-AS	23A-0046-PLC2-AS	23A-0046-PLC2-BS	23A-0046-PLC2-CS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.9 ft	1.9 - 2.7 ft	0 - 0.5 ft	0.5 - 1.6 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-158/160	PCB-158/160	ng/g	230	14.0	1.23 J	20.0	3.32 J	10.7 J	0.338 J	0.69 J	6.28 J	5.66 J	5.89 J	3.92 J
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0712 U	0.783 J	< 0.0704 U	< 0.0703 U	< 0.0719 U	< 0.0753 U	< 0.0735 U	0.491 J	< 0.0739 U	< 0.0687 U
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0666 U	< 0.0692 U	< 0.0658 U	< 0.0657 U	< 0.0672 U	< 0.0704 U	< 0.0687 U	< 0.0696 U	< 0.0691 U	< 0.0642 U
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0525 U	1.21 J	< 0.0519 U	< 0.0518 U	< 0.0530 U	< 0.0555 U	< 0.0542 U	0.309 J	< 0.0545 U	< 0.0506 U
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0720 U	< 0.0748 U	< 0.0711 U	< 0.0710 U	< 0.0726 U	< 0.0761 U	< 0.0743 U	< 0.0752 U	< 0.0747 U	< 0.0694 U
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0619 U	1.06 J	< 0.0612 U	< 0.0611 U	< 0.0625 U	< 0.0655 U	< 0.0640 U	0.293 J	< 0.0643 U	< 0.0598 U
PCB-167	52663-72-6	ng/g	120	14.0	0.525 J	8.70 J	1.31 J	3.8 J	< 0.0481 U	< 0.0504 U	2.14 J	2.06 J+	2.14 J+	1.36 J+
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0525 U	< 0.0545 U	< 0.0519 U	< 0.0518 U	< 0.0530 U	< 0.0555 U	< 0.0542 U	< 0.0549 U	< 0.0545 U	< 0.0506 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	1.97 J	33.5	6.21 J	19.1	0.778 J	1.15 J	10.6 J	12.8 J	11.1 J	8.80 J
PCB-171	52663-71-5	ng/g	230	14.0	0.516 J	8.56 J	1.45 J	4.73 J	< 0.0693 U	< 0.0725 U	2.76 J	3.00 J	2.78 J	2.30 J
PCB-172/192	PCB-172/192	ng/g	230	14.0	0.237 J	4.32 J	0.810 J	2.48 J	< 0.115 U	< 0.120 U	1.42 J	1.77 J	1.49 J	1.22 J
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0768 U	< 0.0798 U	< 0.0759 U	< 0.0758 U	< 0.0775 U	< 0.0812 U	< 0.0793 U	< 0.0803 U	< 0.0797 U	< 0.0741 U
PCB-174	38411-25-5	ng/g	230	14.0	1.46 J	26.5	5.01 J	14.8 J	0.56 J	0.816 J	8.56 J	10.4 J	9.40 J	6.58 J
PCB-175	40186-70-7	ng/g	230	14.0	< 0.0592 U	1.02 J	< 0.0585 U	0.637 J	< 0.0597 U	< 0.0625 U	0.364 J	< 0.0619 U	0.378 J	0.273 J
PCB-176	52663-65-7	ng/g	230	14.0	0.161 J	3.19 J	0.575 J	1.81 J	< 0.0558 U	< 0.0584 U	1.14 J	1.15 J	1.05 J	0.907 J
PCB-177	52663-70-4	ng/g	230	14.0	0.894 J	16.2 J	2.98 J	9.01 J	0.358 J	0.53 J	5.64 J	6.39 J	5.89 J	5.19 J
PCB-178	52663-67-9	ng/g	230	14.0	0.244 J	5.77 J	1.17 J	3.28 J	< 0.0874 U	< 0.0916 U	2.05 J	2.43 J	2.31 J	2.03 J
PCB-179	52663-64-6	ng/g	230	14.0	0.486 J	10.2 J	1.88 J	5.78 J	0.221 J	0.372 J	3.48 J	4.08 J	3.64 J	3.10 J
PCB-180	35065-29-3	ng/g	230	14.0	3.30 J	58.4 J	11.1 J	33.7	1.37 J	2.05 J	18.7 J	24.2	21.7	16.2 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0525 U	< 0.0545 U	< 0.0519 U	< 0.0518 U	< 0.0530 U	< 0.0555 U	< 0.0542 U	< 0.0549 U	< 0.0545 U	< 0.0506 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	1.73 J	30.4	5.75 J	17.3 J	0.654 J	1.1 J	10.8 J	13.2 J	12.1 J	9.34 J
PCB-183	52663-69-1	ng/g	230	14.0	0.813 J	13.8 J	2.52 J	7.66 J	0.264 J	0.46 J	4.64 J	5.52 J	5.34 J	3.89 J
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0497 U	< 0.0516 U	< 0.0491 U	< 0.0490 U	< 0.0502 U	< 0.0525 U	< 0.0513 U	< 0.0520 U	< 0.0516 U	< 0.0480 U
PCB-185	52712-05-7	ng/g	230	14.0	< 0.0688 U	3.04 J	0.571 J	1.7 J	< 0.0694 U	< 0.0727 U	1.09 J	1.32 J	1.23 J	0.813 J
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0621 U	< 0.0645 U	< 0.0614 U	< 0.0613 U	< 0.0627 U	< 0.0657 U	< 0.0641 U	< 0.0650 U	< 0.0645 U	< 0.0599 U
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0569 U	< 0.0592 U	< 0.0563 U	< 0.0562 U	< 0.0575 U	< 0.0602 U	< 0.0588 U	< 0.0595 U	< 0.0591 U	< 0.0549 U
PCB-189	39635-31-9	ng/g	130	14.0	< 0.0579 U	1.53 J	< 0.0572 U	0.819 J	< 0.0584 U	< 0.0612 U	0.412 J	0.617 J	0.489 J	0.488 J
PCB-191	74472-50-7	ng/g	230	14.0	< 0.0523 U	1.09 J	< 0.0517 U	0.705 J	< 0.0528 U	< 0.0553 U	0.327 J	0.445 J	0.472 J	0.341 J
PCB-193	69782-91-8	ng/g	230	14.0	0.135 J	2.72 J	0.556 J	1.7 J	< 0.0666 U	< 0.0698 U	0.896 J	1.23 J	1.10 J	0.991 J
PCB-194	35694-08-7	ng/g	230	14.0	1.00 J	17.4 J	3.65 J	9.87 J	< 0.0842 U	< 0.0882 U	5.56 J	8.56 J	7.53 J	6.05 J
PCB-195	52663-78-2	ng/g	230	14.0	< 0.148 U	5.88 J	1.60 J	3.53 J	< 0.149 U	< 0.156 U	2.03 J	2.95 J	2.38 J	2.00 J
PCB-196/203	PCB-196/203	ng/g	230	14.0	1.14 J	17.4 J	3.39 J	9.65 J	< 0.142 U	0.604 J	5.65 J	8.45 J	7.49 J	5.68 J
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0625 U	0.545 J	< 0.0617 U	< 0.0617 U	< 0.0631 U	< 0.0661 U	< 0.0645 U	0.371 J	< 0.0649 U	< 0.0603 U
PCB-198	68194-17-2	ng/g	230	14.0	< 0.101 U	0.964 J	< 0.100 U	< 0.100 U	< 0.102 U	< 0.107 U	< 0.105 U	< 0.106 UJ	< 0.105 UJ	< 0.0979 UJ
PCB-199	52663-75-9	ng/g	230	14.0	0.844 J	14.3 J	2.69 J	8.01 J	< 0.0985 U	0.458 J	5 J	6.75 J	6.28 J	4.81 J
PCB-200	52663-73-7	ng/g	230	14.0	< 0.0497 U	1.64 J	< 0.0491 U	1.06 J	< 0.0502 U	< 0.0525 U	0.604 J	0.881 J	0.773 J	0.555 J
PCB-201	40186-71-8	ng/g	230	14.0	< 0.0393 U	1.53 J	0.201 J	1.05 J	< 0.0397 U	< 0.0416 U	0.587 J	0.751 J	0.707 J	0.572 J
PCB-202	2136-99-4	ng/g	230	14.0	< 0.0671 U	2.26 J	0.363 J	1.42 J	< 0.0678 U	< 0.0710 U	0.872 J	1.02 J	0.907 J	0.681 J
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0822 U	< 0.0854 U	< 0.0812 U	< 0.0811 U	< 0.0829 U	< 0.0868 U	< 0.0848 U	< 0.0859 U	< 0.0853 U	< 0.0793 U
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0582 U	0.897 J	< 0.0575 U	0.504 J	< 0.0588 U	< 0.0616 U	< 0.0601 U	0.554 J	< 0.0605 U	0.438 J
PCB-206	40186-72-9	ng/g	230	14.0	0.406 J	6.31 J	1.18 J	3.53 J	< 0.0563 U	< 0.0590 U	2.28 J	3.43 J	2.52 J	2.32 J
PCB-207	52663-79-3	ng/g	230	14.0	< 0.0738 U	0.766 J	< 0.0729 U	< 0.0728 U	< 0.0745 U	< 0.0780 U	< 0.0762 U	0.384 J	< 0.0766 U	< 0.0712 U
PCB-208	52663-77-1	ng/g	230	14.0	< 0.0738 U	1.71 J	0.207 J	0.702 J	< 0.0745 U	< 0.0780 U	0.532 J	0.974 J	0.725 J	0.578 J
PCB-209	2051-24-3	ng/g	230	14.0	0.279 J	2.32 J	< 0.0420 U	0.671 J	< 0.0429 U	< 0.0449 U	0.588 J	1.41 J	< 0.0441 U	0.991 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	0.279	2.32	< 0.042 U	0.671	< 0.0429 U	< 0.0449 U	0.588	1.41	< 0.0441 U	0.991
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	11.9	220	40.6	125	4.21	6.48	72.9	88.6	80.5	62.5
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	49.6	829	133	416	13.7	24.1	259	247	247	177
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	2.98	62.8	11.9	35.1	< 0.149 U	1.06	20.3	30.3	26.1	20.8
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	523	39200	7080	8970	371	1300	16600	34300	34100	11300
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	88.9	3400	731	1950	70.9	110	1380	1510	1470	702
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	58.8	6020	698	220	14.5	269	1690	7920	8380	2290
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	3.79	245	20.0	9.16	0.344	19.2	34.4	169	183	131
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	0.406	8.79	1.39	4.23	< 0.0745 U	< 0.078 U	2.81	4.79	3.25	2.90
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	150	12900	2620	4300	173	354	5230	7700	7450	2890
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	156	15500	2830	1900	93.7	520	7960	16600	16300	5030

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0042-PLC1	23A-0042-PLC1	23A-0042-PLC1	23A-0043-PLC1	23A-0043-PLC1	23A-0044-PLC1	23A-0045-PLC3	23A-0046-PLC2	23A-0046-PLC2	23A-0046-PLC2
				Sample Name	23A-0042-PLC1-AS	23A-0042-PLC1-BS	23A-0042-PLC1-CS	23A-0043-PLC1-AS	23A-0043-PLC1-BS	23A-0044-PLC1-AS	23A-0045-PLC3-AS	23A-0046-PLC2-AS	23A-0046-PLC2-BS	23A-0046-PLC2-CS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.9 ft	1.9 - 2.7 ft	0 - 0.5 ft	0.5 - 1.6 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	2800	4800	4800	3100	3800	3400	3000	3100	2800	3600
Calcium	7440-70-2	mg/kg			1100	1700	1400	1500	1600	2100	3200	920	1100	900
Iron	7439-89-6	mg/kg	5500	20000	6000	34000	13000	7400	9900	9400	9800	16000	13000	8300
Magnesium	7439-95-4	mg/kg			1200	1700	2800	1700	2500	1400	1400	1600	1400	1900
Potassium	7440-09-7	mg/kg			180 J	320 J	270 J	160 J	180 J	190 J	300 J	150 J	180 J	240 J
Sodium	7440-23-5	mg/kg			290 J	7300	1500	100 J	130 J	77 J	140 J	160 J	210 J	210 J
Antimony	7440-36-0	mg/kg	3.1	2	< 0.90 U	7.9	< 0.81 U	< 0.84 U	< 1.1 U	< 1.1 U	< 0.92 U	< 0.90 U	< 1.1 U	< 0.95 U
Arsenic	7440-38-2	mg/kg	0.68	9.8	2.1 J+	42	1.9 J+	2.2 J	1.8 J+	0.83	0.97	1.2	1.9	1.2
Barium	7440-39-3	mg/kg	1500	20	17	23	5.8	27	24	26	16	12	20	21
Beryllium	7440-41-7	mg/kg	16		0.13 J	0.37 J	0.27 J	0.17 J	0.13 J	0.14 J	0.12 J	0.12 J	0.12 J	0.19 J
Cadmium	7440-43-9	mg/kg	0.71	1	0.37 J	4.0	0.11 J	< 0.42 U	< 0.54 U	< 0.57 U	0.28 J	0.24 J	0.45 J	0.094 J
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	11 EB	170 EB	11 EB	10 JEB	8.6 EB	5.0	9.1	5.2	4.6	7.0
Cobalt	7440-48-4	mg/kg	2.3	50	8.0	25	4.1	4.3	4.0	2.5	2.1	2.0	2.4	3.3
Copper	7440-50-8	mg/kg	310	31.6	13 J	260 J	16 J	28 J	8.0 J	6.4	14	23	28	24
Lead	7439-92-1	mg/kg	200	35.8	26	280	11	32	5.2	13	34	89	320	79
Manganese	7439-96-5	mg/kg	180	460	110 EB	630 EB	73 EB	390 EB	560 EB	200	130	56 J	29 J	51 J
Nickel	7440-02-0	mg/kg	140	22.7	12	150	6.8	7.4 J	6.4	4.3	4.7	5.7	6.7	5.5
Selenium	7782-49-2	mg/kg	39	11	< 2.2 U	0.59 J	< 2.0 U	< 2.1 U	< 2.7 U	< 2.8 U	< 2.3 U	< 2.3 U	< 2.8 U	< 2.4 U
Silver	7440-22-4	mg/kg	39	1	0.081 J	0.45 J	0.057 J	1.8	0.47 J	< 0.57 U	0.10 J	0.077 J	0.061 J	< 0.47 U
Thallium	7440-28-0	mg/kg	0.078		< 0.45 U	< 0.80 U	< 0.41 U	< 0.42 U	< 0.54 U	< 0.57 U	< 0.46 U	< 0.45 U	< 0.55 U	< 0.47 U
Vanadium	7440-62-2	mg/kg	39		8.2 J	23 J	17 J	15	10 J	8.1	5.4	4.4	6.6	7.3
Zinc	7440-66-6	mg/kg	2300	121	70 EB	490 EB	30 EB	67 JEB	28 EB	26 J	64 J	57 J	150 J	41 J
Mercury	7439-97-6	mg/kg	2.3	0.18	0.13	1.1	0.049 J	0.12	0.024 J	< 0.12 U	0.065 J	0.073 J-	0.16 J-	0.082 J-
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.64 R	< 0.90 R	< 0.56 R	0.39 J-	< 0.54 R	< 0.60 U	< 0.58 U	< 0.62 R	< 0.59 R	< 0.56 R
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 6.1 UJ	< 7.5 UJ	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 6.1 UJ	< 7.5 UJ	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 6.1 UJ	< 7.5 UJ	-	-	< 7.1 U	-	-	-	< 6.1 UJ	< 6.0 UJ
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 6.1 UJ	< 7.5 UJ	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 6.1 UJ	< 7.5 UJ	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
2-HEXANONE	591-78-6	ug/kg	20000	45	< 12 U	< 15 U	-	-	< 14 U	-	-	-	< 12 U	< 12 U
ACETONE	67-64-1	ug/kg	7000000	65	35 J	310	-	-	< 14 U	-	-	-	25	24
Benzene	71-43-2	ug/kg	1200	10	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0042-PLC1	23A-0042-PLC1	23A-0042-PLC1	23A-0043-PLC1	23A-0043-PLC1	23A-0044-PLC1	23A-0045-PLC3	23A-0046-PLC2	23A-0046-PLC2	23A-0046-PLC2
				Sample Name	23A-0042-PLC1-AS	23A-0042-PLC1-BS	23A-0042-PLC1-CS	23A-0043-PLC1-AS	23A-0043-PLC1-BS	23A-0044-PLC1-AS	23A-0045-PLC3-AS	23A-0046-PLC2-AS	23A-0046-PLC2-BS	23A-0046-PLC2-CS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.9 ft	1.9 - 2.7 ft	0 - 0.5 ft	0.5 - 1.6 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 6.1 U	9.6	-	-	< 7.1 U	-	-	-	2.5 J	2.0 J
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Chlorobenzene	108-90-7	ug/kg	28000	30	< 6.1 UJ	< 7.5 UJ	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Chloroform	67-66-3	ug/kg	320	87	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Cyclohexane	110-82-7	ug/kg	650000		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Ethylbenzene	100-41-4	ug/kg	5800	290	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	7.7 J	85	-	-	< 14 U	-	-	-	< 12 U	< 12 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 12 U	< 15 U	-	-	< 14 U	-	-	-	< 12 U	< 12 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Methylene Chloride	75-09-2	ug/kg	35000	18	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 UJ	< 6.0 UJ
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Styrene	100-42-5	ug/kg	600000	126	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Toluene	108-88-3	ug/kg	490000	10	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	1.6 J
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
Vinyl Chloride	75-01-4	ug/kg	59	482	< 6.1 U	< 7.5 U	-	-	< 7.1 U	-	-	-	< 6.1 U	< 6.0 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 230 U	< 310 U	< 200 UJ	< 200 UJ	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 440 U	< 610 U	< 380 UJ	< 390 UJ	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
2-NITROANILINE	88-74-4	ug/kg	63000		< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0042-PLC1	23A-0042-PLC1	23A-0042-PLC1	23A-0043-PLC1	23A-0043-PLC1	23A-0044-PLC1	23A-0045-PLC3	23A-0046-PLC2	23A-0046-PLC2	23A-0046-PLC2
				Sample Name	23A-0042-PLC1-AS	23A-0042-PLC1-BS	23A-0042-PLC1-CS	23A-0043-PLC1-AS	23A-0043-PLC1-BS	23A-0044-PLC1-AS	23A-0045-PLC3-AS	23A-0046-PLC2-AS	23A-0046-PLC2-BS	23A-0046-PLC2-CS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.9 ft	1.9 - 2.7 ft	0 - 0.5 ft	0.5 - 1.6 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 230 U	< 310 U	< 200 UJ	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 UJ	< 210 UJ	< 220 UJ	< 200 UJ	< 190 UJ
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 440 U	< 610 U	< 380 UJ	< 390 UJ	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
4-Nitroaniline	100-01-6	ug/kg	25000		< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		110 JEB	120 JEB	51 JEB	84 JEB	62 JEB	46 J	46 J	170 J	420 J	110 J
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	81 J	< 380 UJ
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	-	-	420 J	520 J	370 J
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	-	-	400 J	460 J	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	47 J	< 190 UJ
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	200 J	490	92 J	97 J	67 J	80 J	110 J	210 J	790 J	110 J
Caprolactam	105-60-2	ug/kg	3100000		< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
CARBAZOLE	86-74-8	ug/kg	240000	69	< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-	-	-	430 J	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	44 J
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	140 J	180 J	< 200 U	< 200 U	57 J	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
FLUORANTHENE	206-44-0	ug/kg	240000	423	680	-	-	480	-	-	-	830 J	1200 J	700 J
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 440 U	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	< 420 UJ	< 390 UJ	< 380 UJ
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 230 U	< 310 U	< 200 U	< 200 U	< 190 U	< 210 U	< 210 U	< 220 UJ	< 200 UJ	< 190 UJ
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	470	-	-	440	-	-	-	-	720 J	550 J
PHENOL	108-95-2	ug/kg	1900000	175	65 J	< 610 U	< 380 U	< 390 U	< 370 U	< 400 U	< 400 U	50 J	61 J	< 380 UJ
PYRENE	129-00-0	ug/kg	180000	195	610	-	-	-	-	-	-	-	-	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0042-PLC1	23A-0042-PLC1	23A-0042-PLC1	23A-0043-PLC1	23A-0043-PLC1	23A-0044-PLC1	23A-0045-PLC3	23A-0046-PLC2	23A-0046-PLC2	23A-0046-PLC2
					Sample Name	23A-0042-PLC1-AS	23A-0042-PLC1-BS	23A-0042-PLC1-CS	23A-0043-PLC1-AS	23A-0043-PLC1-BS	23A-0044-PLC1-AS	23A-0045-PLC3-AS	23A-0046-PLC2-AS	23A-0046-PLC2-BS	23A-0046-PLC2-CS
					Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 1.9 ft	1.9 - 2.7 ft	0 - 0.5 ft	0.5 - 1.6 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.5 - 1.4 ft	1.4 - 2.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 8.8 U	< 12 U	< 7.6 U	< 7.8 U	< 7.5 U	< 8.2 UJ	< 8.0 UJ	< 8.4 UJ	< 8.0 UJ	< 7.7 UJ
1-Methylnaphthalene	90-12-0	ug/kg	18	141	7.7 EB	4.8 JEB	1.3 JEB	9.2 EB	0.87 JEB	0.93 J-	1.7 J	3.2 J	8.0 J	15 J
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	9.7 EB	7.5 EB	1.7 JEB	9.8 EB	0.94 JEB	1.2 JEB	1.9 JEB	3.4 JEB	12 JEB	21 JEB
Acenaphthene	83-32-9	ug/kg	360000	6.7	36 J	13 J	2.7 J	33	1.9 J	3.6 J	4.9 J	8.5 J	34 J	39 J
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	22	10	2.5 J	14	1.9 J	5.1 J-	4.2	130 J	30 J	32 J
ANTHRACENE	120-12-7	ug/kg	1800000	57	97	29	2.0 J	86	2.3 J	7.4 J-	6.2	140 J	63 J	100 J
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	290	140	19	210	15	51 J-	55	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	250	110	2.7 J	34	2.0 J	12	13	40 J	29 J	17 J
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	320	160	27	170	22	69	36	-	-	210 J
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	140	66	< 3.8 U	2.1 J	< 3.7 U	1.6 J	2.2 J	1.1 J	< 3.9 UJ	< 3.8 UJ
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	120	51	10	74	8.6	26	28	160 J	170 J	100 J
CHRYSENE	218-01-9	ug/kg	110000	166	270	130	19	170	16	53 J-	59	310 J	-	220 J
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	36	20	3.6 J	25	2.9 J	8.2	12	39 J	39 J	32 J
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	320	45	-	31	130	64	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	38	15	2.1 J	42	1.5 J	5.4 J-	4.7	43 J	50 J	58 J
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	130	62	7.7	34	6.2	20	28	40 J	30 J	20 J
Naphthalene	91-20-3	ug/kg	2000	176	9.5 JEB	7.5 JEB	2.7 JEB	15 EB	2.0 JEB	2.2 JEB	3.2 JEB	11 JEB	18 JEB	29 JEB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 8.9 UJ	< 12 UJ	< 7.7 UJ	< 7.9 U	< 7.6 UJ	< 8.2 U	< 8.1 U	< 8.5 UJ	< 8.0 UJ	< 7.7 UJ
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	120	15	-	18	60 J-	56	320 J	-	-
PYRENE	129-00-0	ug/kg	180000	195	-	260	29	200	20	79 J	41 J	240 J	280 J	130 J
Total Organic Carbon															
TOTAL ORGANIC CARBON	TOC	mg/kg			16000	52000	-	-	2700	-	-	6600	7100	820
AVS/SEM															
Acid Volatile Sulfide	AVS	umol/g			2.0 J	-	-	-	-	-	-	-	-	-
Cadmium	7440-43-9	umol/g			0.0042	-	-	-	-	-	-	-	-	-
Copper	7440-50-8	umol/g			0.17 EB	-	-	-	-	-	-	-	-	-
Lead	7439-92-1	umol/g			0.13	-	-	-	-	-	-	-	-	-
Nickel	7440-02-0	umol/g			0.23	-	-	-	-	-	-	-	-	-
Silver	7440-22-4	umol/g			0.00041	-	-	-	-	-	-	-	-	-
Zinc	7440-66-6	umol/g			1.0	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	umol/g			< 0.000034 U	-	-	-	-	-	-	-	-	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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Boston, Massachusetts

					Location	23A-0048-PLC1	23A-0048-PLC1	23A-0048-PLC1	23A-0049-B2C1	23A-0049-B2C1	23A-0049-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0051-PLC1
					Sample Name	23A-0048-PLC1-AS	23A-0048-PLC1-BS	23A-0048-PLC1-CS	23A-0049-B2C1-AS	23A-0049-B2C1-BS	23A-0049-B2C1-CS	23A-0050-B2C1-AS	23A-0050-B2C1-BS	23A-0050-B2C1-CS	23A-0051-PLC1-AS
					Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5 ft	0 - 0.5 ft	0.5 - 2.2 ft	2.2 - 3.2 ft	0 - 0.5 ft	0.5 - 2.7 ft	2.7 - 3.2 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/kg	39	29	< 6.4 UJ	< 2.9 U	< 1.9 U	< 5.4 UJ	< 3.3 U	< 1.9 U	< 2.7 U	< 2.3 U	< 2.1 U	< 2.4 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 6.4 UJ	< 2.9 U	< 1.9 U	< 5.4 UJ	< 3.3 U	< 1.9 U	< 2.7 U	< 2.3 U	< 2.1 U	< 2.4 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 6.4 UJ	< 2.9 U	< 1.9 U	< 5.4 UJ	< 3.3 U	< 1.9 U	< 2.7 U	< 2.3 U	< 2.1 U	< 2.4 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 6.4 UJ	< 2.9 U	< 1.9 U	< 5.4 UJ	< 3.3 U	< 1.9 U	< 2.7 U	< 2.3 U	< 2.1 U	< 2.4 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 13 UJ	< 5.7 U	< 3.6 U	< 10 UJ	< 6.4 U	< 3.8 U	< 5.3 U	< 4.4 U	< 4.2 U	< 4.7 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		< 6.4 UJ	1.2 J	< 1.9 U	< 5.4 UJ	1.6 J	0.34 J	< 2.7 U	< 2.3 U	< 2.1 U	0.88 J
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		< 6.4 UJ	5.3 J	< 1.9 U	1.7 J	11 J	3.5 J	5.4 J	10 J	< 2.1 U	4.6 J
DIELDRIN	60-57-1	ug/kg	34	1.9	< 13 UJ	< 5.7 U	< 3.6 U	< 10 UJ	< 6.4 U	< 3.8 U	< 5.3 U	< 4.4 U	< 4.2 U	< 4.7 U
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 13 UJ	< 5.7 U	< 3.6 U	< 10 UJ	0.92 J	< 3.8 U	0.38 J	1.4 J	< 4.2 U	< 4.7 U
ENDRIN	72-20-8	ug/kg	1900	2.22	< 13 UJ	1.2 J	< 3.6 U	0.51 J	3.2 J+	0.66 J	0.70 J	1.0 J	< 4.2 U	1.5 J
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 13 UJ	< 5.7 U	< 3.6 U	< 10 UJ	< 6.4 U	< 3.8 U	< 5.3 U	< 4.4 U	< 4.2 U	< 4.7 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 13 UJ	< 5.7 U	< 3.6 U	< 10 UJ	< 6.4 U	< 3.8 U	< 5.3 U	< 4.4 U	< 4.2 U	< 4.7 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	< 6.4 UJ	26 J+	< 1.9 U	9.0 J-	41 J+	2.4 J	9.6 J+	23	0.72 J	11 J
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 6.4 UJ	< 2.9 U	< 1.9 U	< 5.4 UJ	< 3.3 U	< 1.9 U	< 2.7 U	< 2.3 U	< 2.1 U	< 2.4 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	< 6.4 UJ	4.3 J+	< 1.9 U	1.7 J	6.5 J	0.59 J	2.8 J	< 2.3 U	< 2.1 U	1.3 J
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 64 UJ	< 29 U	< 19 U	< 54 UJ	< 33 U	< 19 U	< 27 U	< 23 U	< 22 U	< 24 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	< 13 UJ	< 5.7 U	< 3.6 U	< 10 UJ	< 6.4 U	< 3.8 U	2.2 J	1.8 J	< 4.2 U	1.1 J
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 13 UJ	0.71 J	< 3.6 U	< 10 UJ	< 6.4 U	< 3.8 U	0.89 J	0.96 J	< 4.2 U	0.82 J
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	< 13 UJ	4.7 J+	< 3.6 U	1.3 J	8.6 J+	1.1 J	3.3 J	4.5 J	< 4.2 U	3.3 J+
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 640 UJ	< 290 U	< 190 U	< 540 UJ	< 330 U	< 190 U	< 270 U	< 230 U	< 220 U	< 240 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		< 6.4 UJ	< 2.9 U	< 1.9 U	< 5.4 UJ	< 3.3 U	0.58 J	< 2.7 U	< 2.3 U	< 2.1 U	< 2.4 U
Grain Size															
%CLAY	%CLAY	%			22.8	21.7	9.6	38.4	22.5	8.3	16.4	12.6	45.5	-
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			5	1	16.5	1.8	1	18.2	6.6	7.8	0	-
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			44.6	36.8	7	22.1	17.2	9	37.7	43.3	6.7	-
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			10.2	5.1	25.9	8.2	5.7	22.3	9.1	22.4	3.1	-
Gravel	GRAVEL	%			9.1	1.6	38.6	1.4	0	40.7	11.5	8.7	4.2	-
Hydrometer, Reading 1, Percent Passing	HYD01	%			72.4	37.5	11	58.3	38	11.6	23.7	15.9	54	-
Hydrometer, Reading 2, Percent Passing	HYD02	%			72.4	33	11	54.3	32.8	11.6	21.3	14.3	52.3	-
Hydrometer, Reading 3, Percent Passing	HYD03	%			72.4	28.5	11	46.4	30.2	11.6	21.3	14.3	50.6	-
Hydrometer, Reading 4, Percent Passing	HYD04	%			72.4	26.2	9.6	42.4	27.6	11.6	18.8	14.3	48.9	-
Hydrometer, Reading 5, Percent Passing	HYD05	%			64.1	21.7	9.6	38.4	22.5	10.1	16.4	12.6	45.5	-
Hydrometer, Reading 6, Percent Passing	HYD06	%			55.7	17.2	9.6	34.5	19.9	10.1	13.9	11	33.5	-
Hydrometer, Reading 7, Percent Passing	HYD07	%			55.7	15	9.6	30.5	17.3	10.1	13.9	11	21.6	-
Sand	308075-07-2	%			59.8	42.9	49.4	32.1	23.9	49.5	53.4	73.5	9.8	-
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			85.9	97.4	44.9	96.8	99	41.1	81.9	83.5	95.8	-
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			75.7	92.3	19	88.6	93.3	18.8	72.8	61.1	92.7	-
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			64	81.3	13.5	79.5	89.2	12.2	53.6	31	88.7	-
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			81.4	95.8	32.6	93.4	96.1	29	79.7	76.3	94.8	-
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			70.3	87.3	14.8	83.7	90.9	14	61.9	41.3	90.1	-
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			57.3	75.1	12.9	76.5	87.4	11.3	48	26.1	87.8	-
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			31.1	55.5	12	66.5	76.1	9.9	35.1	17.8	86	-
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			90.9	98.4	61.4	98.6	100	59.3	88.5	91.3	95.8	-
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			95.2	99.9	84	99.8	100	77.3	94.3	97.7	95.9	-
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	100	100	100	100	100	100	100	-
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	100	100	100	100	100	100	100	-
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	100	100	100	100	100	100	100	-
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	100	100	100	100	100	100	100	-
SILT	445	%			8.3	33.8	2.4	28.1	53.6	1.5	18.7	5.2	40.5	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0048-PLC1	23A-0048-PLC1	23A-0048-PLC1	23A-0049-B2C1	23A-0049-B2C1	23A-0049-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0051-PLC1
					Sample Name	23A-0048-PLC1-AS	23A-0048-PLC1-BS	23A-0048-PLC1-CS	23A-0049-B2C1-AS	23A-0049-B2C1-BS	23A-0049-B2C1-CS	23A-0050-B2C1-AS	23A-0050-B2C1-BS	23A-0050-B2C1-CS	23A-0051-PLC1-AS
					Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5 ft	0 - 0.5 ft	0.5 - 2.2 ft	2.2 - 3.2 ft	0 - 0.5 ft	0.5 - 2.7 ft	2.7 - 3.2 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	5520 J	1940	3.98	2350	2680	5.59 J	6.17 J	346 J	8.54	827 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	102 J	41.7	< 0.488 U	55.1	63.2	< 0.381 U	< 0.335 U	7.15	< 0.34 U	16.4
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	482 J	13.8	< 0.517 U	25.6	23.8	< 0.536 U	< 0.903 U	4.72 JN	< 0.499 U	7.34
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	128 J	77.0	< 0.252 U	128 J	140 J	< 4.72 UJ	< 4.98 UJ	16.9 J	< 9.53 UJ	32.0 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	330 J	90.4	< 0.519 U	123	151	< 0.497 UJ	< 0.936 UJ	20.8 J	< 0.517 U	48.8 J
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	87.5 J	41.5	< 0.248 U	69.3	76.3	< 0.294 U	< 0.271 U	11.3	< 0.278 U	20.4
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	322 J	51.5	< 0.553 U	78.6	95.2	< 0.455 U	< 0.936 U	11.5	< 0.459 U	27.2
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 5.86 UJ	< 1.47 U	< 0.324 U	< 0.735 U	< 0.795 U	< 0.365 U	< 0.281 U	< 0.64 U	< 0.368 U	< 0.747 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	103 J	7.43 JN	< 0.232 UJ	11.4 JN	14.1 JN	< 0.509 UJ	< 0.585 UJ	2.21 J	< 0.59 UJ	3.48 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	29.7 J	11.6	< 0.166 U	15.9	22.0	< 0.303 U	< 0.323 U	3.05	< 0.351 U	5.20
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	1660 J	996 J+	1.84 J+	1490 J+	1490 J+	2.27 J+	< 0.24 U	217 J+	2.16 J+	524 J+
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	98.4 J	34.7	< 0.275 U	58.6	61.0	< 0.328 U	< 0.266 U	13.8 J	< 0.357 U	16.9
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	73.6 J	105 J	< 0.164 U	138 J+	189 J+	< 0.301 U	< 0.341 U	25.8 J	< 0.385 U	35.7 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	17.6 J	7.81 J	< 0.956 UJ	8.56	15.1	< 0.635 UJ	< 0.797 UJ	1.14 JN	< 0.652 U	3.27 JN
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	76.4 J	42.9	< 0.228 U	51.3	71.9	< 0.302 UJ	< 0.35 UJ	6.76 J	< 0.358 U	12.1 J
OCDD	3268-87-9	pg/g	16000	5000	29600 J	11900 J	19.5 JN	14500	14000	51.8 J	204 J	2510 J	75.9	5550 J
OCDF	39001-02-0	pg/g	16000	5000	3380 J	868	1.29 J	1340	1160	2.14 JN	< 0.683 U	221	1.93 JN	389
Total HpCDD (a)	RA_Total_HpCDD	pg/g			5520	1940	3.98	2350	2680	5.59	6.17	346	8.54	827
Total HpCDF (a)	RA_Total_HpCDF	pg/g			1760	1040	1.84	1550	1550	2.27	< 0.335 U	224	2.16	540
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		1130	156	< 0.553 U	227	270	< 0.536 U	< 0.936 U	37.0	< 0.517 U	83.3
Total HxCDF (a)	RA_Total_HxCDF	pg/g			314	153	< 0.324 U	256	277	< 4.72 U	< 4.98 U	42.0	< 9.53 U	69.3
Total PeCDD (a)	RA_Total_PeCDD	pg/g			103	7.43	< 0.232 U	11.4	14.1	< 0.509 U	< 0.585 U	2.21	< 0.59 U	3.48
Total PeCDF (a)	RA_Total_PeCDF	pg/g			103	117	< 0.166 U	154	211	< 0.303 U	< 0.341 U	28.9	< 0.385 U	40.9
Total TCDD (a)	RA_Total_TCDD	pg/g			17.6	7.81	< 0.956 U	8.56	15.1	< 0.635 U	< 0.797 U	1.14	< 0.652 U	3.27
Total TCDF (a)	RA_Total_TCDF	pg/g			76.4	42.9	< 0.228 U	51.3	71.9	< 0.302 U	< 0.35 U	6.76	< 0.358 U	12.1
PCB Congeners															
PCB-001	2051-60-7	ng/g	230	14.0	175 JEB	16500 JEB	33.2 JEB	24500 JEB	27200 JEB	26.6 JEB	5200 JEB	5880 JEB	32.0 JEB	2040 JEB
PCB-002	2051-61-8	ng/g	230	14.0	0.738 JEB	112 EB	< 0.0259 U	107 JEB	292 JEB	1.12 JEB	19.7 EB	22.2 JEB	< 0.0517 U	70.4 JEB
PCB-003	2051-62-9	ng/g	230	14.0	13.7 J	2250 J	1.79 J	1300 J	1910 J	4.35 J	436 J	473 J	2.00 J	784 J
PCB-004/010	PCB-4/10	ng/g	230	14.0	123 JEB	55700 JEB	42.9 JEB	48100 JEB	79800 JEB	98.3 JEB	8510 JEB	10200 JEB	59.2 JEB	7500 JEB
PCB-005/008	PCB-5/8	ng/g	230	14.0	66.1 JEB	30900 JEB	24.8 JEB	16000 JEB	38000 JEB	79.3 JEB	2310 JEB	3140 JEB	26.9 JEB	2860 JEB
PCB-006	25569-80-6	ng/g	230	14.0	12.9 JEB	5310 JEB	4.97 JEB	2150 JEB	9170 JEB	39.8 JEB	316 JEB	479 JEB	3.66 JEB	581 JEB
PCB-007/009	PCB-7/9	ng/g	230	14.0	2.81 J	489 J	0.982 J	677 J	1550 J	6.79 J	83.6 J	121 J	0.860 J	188 J
PCB-011	2050-67-1	ng/g	230	14.0	3.43 JEB	300 JEB	< 0.0240 U	247 EB	519 JEB	2.82 JEB	26.1 JEB	33.2 JEB	< 0.0478 U	56.9 JEB
PCB-012/013	PCB-12/13	ng/g	230	14.0	5.42 J	543 J	< 0.0432 U	488 J	1220 J	9.59	78.5 J	107 J	< 0.0861 U	215 J
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0424 U	5.54 JEB	< 0.0241 U	< 0.347 U	10.4 JEB	< 0.0238 U	0.694 JEB	< 0.0250 U	< 0.0480 U	0.674 JEB
PCB-015	2050-68-2	ng/g	230	14.0	49.2 J	2660 J	< 0.0221 U	1750 J	9590 J	81.4 J	391 J	651 J	3.36 J	2040 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	67.8 JEB	18100 JEB	11.0 EB	14400 JEB	28100 JEB	70.7 JEB	1560 JEB	1790 JEB	12.6 JEB	3850 JEB
PCB-017	37680-66-3	ng/g	230	14.0	35.2 JEB	11600 JEB	7.08 JEB	6810 JEB	15900 JEB	56.8 JEB	814 JEB	1030 JEB	6.58 JEB	3640 JEB
PCB-018	37680-65-2	ng/g	230	14.0	22.5 EB	4540 JEB	4.67 JEB	3470 JEB	15700 JEB	72.9 JEB	467 JEB	582 JEB	3.93 JEB	1140 JEB
PCB-019	38444-73-4	ng/g	230	14.0	30.3	9010 J	5.07 J	7770 J	12100 J	23.1 J	1290 J	1340 J	8.02 J	1880 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	16.2 JEB	289 JEB	< 0.0669 U	217 EB	926 JEB	10.7 EB	58.8 JEB	63.2 JEB	1.32 JEB	63.3 JEB
PCB-022	38444-85-8	ng/g	230	14.0	8.74 JEB	517 JEB	0.614 JEB	284 JEB	1370 JEB	11.5 EB	118 JEB	157 JEB	0.941 JEB	196 JEB
PCB-023/034	PCB-23/34	ng/g	230	14.0	< 0.0766 U	274 J	< 0.0435 U	187	469 J	1.55 J	33.3 J	36.0 J	< 0.0867 U	69.9 J
PCB-024/027	PCB-24/27	ng/g	230	14.0	20.0	4930 J	3.85 J	3530 J	7690 J	14.7	496 J	545 J	4.01 J	796 J
PCB-025	55712-37-3	ng/g	230	14.0	20.6	1670 J	2.11 J	1370 J	6180 J	48.4 J	201 J	307 J	2.09 J	1350 J
PCB-026	38444-81-4	ng/g	230	14.0	30.1 EB	5220 JEB	4.16 JEB	4240 JEB	12700 JEB	73.2 JEB	396 JEB	537 JEB	3.68 JEB	1700 JEB
PCB-028	7012-37-5	ng/g	230	14.0	57.7 JEB	1200 JEB	4.02 JEB	1310 JEB	2410 JEB	23.6 JEB	394 JEB	551 JEB	5.75 JEB	756 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0443 U	6.16 J	< 0.0251 U	< 0.362 U	9.58 J	< 0.0248 U	1.06 J	< 0.0261 U	< 0.0501 U	1.21 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0048-PLC1	23A-0048-PLC1	23A-0048-PLC1	23A-0049-B2C1	23A-0049-B2C1	23A-0049-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0051-PLC1
				Sample Name	23A-0048-PLC1-AS	23A-0048-PLC1-BS	23A-0048-PLC1-CS	23A-0049-B2C1-AS	23A-0049-B2C1-BS	23A-0049-B2C1-CS	23A-0050-B2C1-AS	23A-0050-B2C1-BS	23A-0050-B2C1-CS	23A-0051-PLC1-AS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5 ft	0 - 0.5 ft	0.5 - 2.2 ft	2.2 - 3.2 ft	0 - 0.5 ft	0.5 - 2.7 ft	2.7 - 3.2 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0406 U	5.78 J	< 0.0230 U	4.69 J	5.10 J	< 0.0227 U	1.09 J	1.51 J	< 0.0459 U	2.24 J
PCB-031	16606-02-3	ng/g	230	14.0	51.2 JEB	7870 JEB	5.76 JEB	6720 JEB	18000 JEB	105 JEB	794 JEB	1100 JEB	6.81 JEB	3470 JEB
PCB-035	37680-69-6	ng/g	230	14.0	< 0.0481 U	11.8 J+	< 0.0273 U	< 0.394 U	< 0.252 U	< 0.0270 U	5.75 J+	3.05 J+	< 0.0545 U	6.65 J+
PCB-036	38444-87-0	ng/g	230	14.0	< 0.0411 U	25.2 J	< 0.0233 U	17.6 J	62.4 J	< 0.0230 U	1.69 J	< 0.0242 U	< 0.0465 U	3.07 J
PCB-037	38444-90-5	ng/g	230	14.0	9.08 J	178	< 0.0256 U	147	383 J	3.21 J	57.3 J	92.0 J	0.508 J	96.0 J
PCB-038	53555-66-1	ng/g	230	14.0	< 0.0340 U	123	< 0.0193 U	120 J	214 J	0.976 J	11.5	< 0.0200 U	< 0.0385 U	39.8 J
PCB-039	38444-88-1	ng/g	230	14.0	< 0.0209 U	53.5 J	< 0.0119 U	44.2 J	75.2 J	< 0.0117 U	7.24 J	6.84 J	< 0.0236 U	15.2
PCB-040	38444-93-8	ng/g	230	14.0	3.35 JEB	142 EB	0.318 JEB	69.2 JEB	713 JEB	6.58 JEB	16.5 EB	17.3 EB	< 0.0395 U	33.4 JEB
PCB-041/064	PCB-41/64	ng/g	230	14.0	13.9 J+	620 J	1.22 J	256	2380 J	19.1 J	75.7 J	75.7 J	0.754 J	201 J
PCB-042	36559-22-5	ng/g	230	14.0	12.9 J	867 J	0.860 J	463 J	2960 J	20.6 J	95.6 J	111 J	1.01 J	232 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	61.3 JEB	6260 JEB	4.09 JEB	5580 JEB	14000 JEB	73.2 JEB	590 JEB	663 JEB	5.08 JEB	1840 JEB
PCB-044	41464-39-5	ng/g	230	14.0	24.7 EB	1260 JEB	2.03 JEB	622 JEB	6120 JEB	48.7 JEB	127 JEB	144 JEB	1.57 JEB	270 JEB
PCB-045	70362-45-7	ng/g	230	14.0	3.73 J	207 J	0.337 J	85.1 J	747 J	5.32 J	21.3 J	21.8 J	< 0.0429 U	70.7 J
PCB-046	41464-47-5	ng/g	230	14.0	2.71 J	206 J	< 0.0251 U	114 J	642 J	4.56 J	24.0 J	29.8 J	< 0.0501 U	55.8 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	47.5 JEB	4910 JEB	2.66 JEB	4790 JEB	8370 JEB	35.8 JEB	468 JEB	501 JEB	3.79 JEB	1430 JEB
PCB-050	62796-65-0	ng/g	230	14.0	< 0.0540 U	113	< 0.0307 U	89.3 J	179 J	0.498 J	10.3	10.8	< 0.0612 U	24.2 J
PCB-051	68194-04-7	ng/g	230	14.0	9.67 J	2530 J	1.01 J	2050 J	4330 J	9.59	175 J	177 J	1.48 J	533 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	51.9 JEB	5140 JEB	4.02 JEB	4410 JEB	13000 JEB	74.3 JEB	495 JEB	548 JEB	4.21 JEB	1560 JEB
PCB-053	41464-41-9	ng/g	230	14.0	17.2	3920 J	2.10 J	3130 J	8850 J	23.2 J	290 J	297 J	2.48 J	685 J
PCB-054	15968-05-5	ng/g	230	14.0	1.11 J	258 J	0.131 J	255	388 J	0.733 J	27.0 J	26.5 J	0.201 J	56.0 J
PCB-055	74338-24-2	ng/g	230	14.0	< 0.0466 U	14.9 J	< 0.0265 U	< 0.381 U	< 0.244 U	< 0.0261 U	1.38 J	1.30 J	< 0.0528 U	3.87 J
PCB-056/060	PCB-56/60	ng/g	230	14.0	12.3 J+EB	27.7 JEB	0.539 JEB	23.9 JEB	31.1 JEB	0.825 JEB	34.6 JEB	26.1 JEB	< 0.103 U	11.1 EB
PCB-057	70424-67-8	ng/g	230	14.0	1.38 J+	175	< 0.0205 U	138	311 J	0.836 J	15.1	15.1	< 0.0408 U	25.2 J
PCB-058	41464-49-7	ng/g	230	14.0	< 0.0326 U	5.12 J	< 0.0185 U	< 0.267 U	16.0 J	< 0.0183 U	0.636 J	< 0.0192 U	< 0.0370 U	0.875 J
PCB-059	74472-33-6	ng/g	230	14.0	1.55 J+	51.2 J	< 0.0363 U	26.5 J	196 J	1.94 J	7.72 J	6.93 J	< 0.0724 U	28.7 J
PCB-061/074	PCB-61/74	ng/g	230	14.0	14.8 J+EB	147 EB	0.709 JEB	91.9 JEB	294 JEB	3.03 JEB	58.2 JEB	56.9 JEB	0.591 JEB	50.2 JEB
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0446 U	< 0.243 U	< 0.0253 U	< 0.365 U	< 0.234 U	< 0.0250 U	< 0.0263 U	< 0.0263 U	< 0.0505 U	< 0.0262 U
PCB-063	74472-34-7	ng/g	230	14.0	3.89 J+	528 J	0.318 J	497 J	826 J	2.42 J	57.0 J	62.8 J	0.579 J	71.6 J
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0643 U	< 0.350 U	< 0.0365 U	< 0.526 U	3.23 J	< 0.0360 U	0.641 J	< 0.0378 U	< 0.0728 U	< 0.0378 U
PCB-066/080	PCB-66/80	ng/g	230	14.0	26.8 J+EB	185 JEB	1.08 JEB	162 EB	228 JEB	2.54 JEB	74.5 JEB	69.8 JEB	0.847 JEB	47.9 JEB
PCB-067	73575-53-8	ng/g	230	14.0	1.40 J+	12.7 J	< 0.0224 U	6.89 J	34.0 J	< 0.0221 U	4.23 J	3.89 J	< 0.0446 U	4.13 J
PCB-068	73575-52-7	ng/g	230	14.0	1.78 J+	153	< 0.0265 U	137 J	241 J	0.936 J	15.6	15.9	0.677 J	34.3 J
PCB-069	60233-24-1	ng/g	230	14.0	< 0.0485 U	42.2 J	< 0.0275 U	32.9 J	43.3 J	< 0.0272 U	4.19 J	4.31 J	< 0.0549 U	9.67 J
PCB-070	32598-11-1	ng/g	230	14.0	28.3 J+EB	69.2 JEB	0.729 JEB	47.6 JEB	68.3 JEB	1.56 JEB	62.3 JEB	46.2 JEB	0.793 JEB	21.3 JEB
PCB-071	41464-46-4	ng/g	230	14.0	14.8 J+EB	1820 JEB	1.79 JEB	847 JEB	3900 JEB	20.8 JEB	138 JEB	151 JEB	1.55 JEB	399 JEB
PCB-072	41464-42-0	ng/g	230	14.0	1.75 J+	186 J	< 0.0298 U	159	339 J	1.42 J	17.2	16.6	< 0.0595 U	46.4 J
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0644 U	< 0.351 U	< 0.0366 U	< 0.527 U	5.61 J	< 0.0361 U	< 0.0381 U	< 0.0379 U	< 0.0730 U	< 0.0379 U
PCB-077	32598-13-3	ng/g	38.0	14.0	5.13 J+	45.1 J+	< 0.0216 U	33.2 J+	74.4 J+	0.722 J+	11.8 J+	16.1 J+	< 0.0431 U	17.2 J+
PCB-078	70362-49-1	ng/g	230	14.0	< 0.0330 U	7.64 J	< 0.0187 U	< 0.270 U	18.6 J	< 0.0185 U	0.783 J	< 0.0194 U	< 0.0374 U	2.11 J
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0414 U	< 0.226 U	< 0.0235 U	< 0.339 U	6.09 J	< 0.0232 U	< 0.0245 U	< 0.0244 U	< 0.0469 U	0.904 J
PCB-081	70362-50-4	ng/g	12.0	14.0	< 0.0646 U	< 0.352 U	< 0.0367 U	< 0.529 U	9.95 J+	< 0.0362 U	0.785 J+	< 0.0380 U	< 0.0732 U	2.32 J+
PCB-082	52663-62-4	ng/g	230	14.0	3.07 J	24.0 J	< 0.0135 U	8.04 J	54.9 J	0.555 J	7.27 J	7.44 J	< 0.0269 U	10.2
PCB-083/109	PCB-83/109	ng/g	230	14.0	2.52 J	94.9	< 0.0579 U	48.0 J	293 J	1.41 J	8.31 J	< 0.0600 U	< 0.116 U	27.9 J
PCB-084	52663-60-2	ng/g	230	14.0	8.99 J	203 J	0.438 J	84.1 J	703 J	4.81 J	20.7 J	22.0 J	0.220 J	75.3 J
PCB-085/120	PCB-85/120	ng/g	230	14.0	8.37 J	59.5 J	0.381 J	28.1 J	119	1.18 J	14.6	14.7	< 0.104 U	22.0 J
PCB-086/097	PCB-86/97	ng/g	230	14.0	10.1 J	50.4 J	< 0.0228 U	24.8 J	107	0.945 J	15.7	15.5	< 0.0456 U	18.1
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	15.1 J	< 0.141 U	< 0.0147 U	< 0.212 U	< 0.136 U	< 0.0145 U	< 0.0153 U	39.6 J	< 0.0294 U	< 0.0152 U
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.0937 U	5.51 J	< 0.0532 U	6.14 J	11.4 J	< 0.0525 U	0.579 J	< 0.0552 U	< 0.106 U	1.73 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	37.8 J	509 J	0.826 J	410 J	1000 J	4.04 J	71.9 J	68.3 J	0.682 J	126 J
PCB-091	68194-05-8	ng/g	230	14.0	9.04 J	574 J	0.599 J	355 J	1560 J	6.36 J	45.3 J	44.1 J	0.417 J	148 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0048-PLC1	23A-0048-PLC1	23A-0048-PLC1	23A-0049-B2C1	23A-0049-B2C1	23A-0049-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0051-PLC1
				Sample Name	23A-0048-PLC1-AS	23A-0048-PLC1-BS	23A-0048-PLC1-CS	23A-0049-B2C1-AS	23A-0049-B2C1-BS	23A-0049-B2C1-CS	23A-0050-B2C1-AS	23A-0050-B2C1-BS	23A-0050-B2C1-CS	23A-0051-PLC1-AS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5 ft	0 - 0.5 ft	0.5 - 2.2 ft	2.2 - 3.2 ft	0 - 0.5 ft	0.5 - 2.7 ft	2.7 - 3.2 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-092	52663-61-3	ng/g	230	14.0	9.40 J	502 J	0.470 J	366 J	1100 J	4.14 J	47.5 J	48.1 J	0.401 J	126 J
PCB-093/095	PCB-93/95	ng/g	230	28.4	608 J	1.18 J	233	2050 J	12.9	52.2 J	53.4 J	0.549 J	207 J	
PCB-094	73575-55-0	ng/g	230	14.0	0.773 J	115	< 0.0440 U	64.1 J	260 J	0.638 J	9.04 J	8.55 J	< 0.0877 U	17.7
PCB-096	73575-54-9	ng/g	230	14.0	0.592 J	39.4 J	< 0.0207 U	18.0 J	134	0.696 J	2.79 J	3.02 J	< 0.0414 U	9.57 J
PCB-098/102	PCB-98/102	ng/g	230	14.0	2.36 J	150	< 0.0384 U	69.2 J	376 J	1.95 J	12.3	13.6	< 0.0766 U	48.5 J
PCB-099	38380-01-7	ng/g	230	14.0	19.9	223 J	0.628 J	144	456 J	2.69 J	38.3 J	39.3 J	0.453 J	69.1 J
PCB-100	39485-83-1	ng/g	230	14.0	1.18 J	126	< 0.0234 U	138	228 J	0.494 J	9.92 J	8.59 J	< 0.0467 U	23.0 J
PCB-103	60145-21-3	ng/g	230	14.0	0.955 J	96.2	< 0.0242 U	88.4 J	206 J	0.544 J	7.45 J	6.93 J	< 0.0482 U	21.8 J
PCB-104	56558-16-8	ng/g	230	14.0	< 0.0394 U	9.11 J	< 0.0224 U	12.3 J	12.3 J	< 0.0221 U	0.794 J	0.724 J	< 0.0446 U	2.06 J
PCB-105/127	PCB-105/127	ng/g	120	14.0	11.2 J	44.6 J	< 0.0379 U	20.4 J	47.7 J	0.506 J	18.8	17.9	< 0.0757 U	14.8
PCB-106/118	PCB-106/118	ng/g	120	14.0	33.3	170	0.900 J	97.1 J	273 J	1.91 J	46.0 J	48.2 J	0.422 J	48.8 J
PCB-107/108	PCB-107/108	ng/g	230	14.0	3.19 J	42.0 J	< 0.0465 U	35.7 J	87.8 J	0.366 J	6.32 J	6.80 J	< 0.0928 U	8.41 J
PCB-110	38380-03-9	ng/g	230	14.0	50.9 JEB	1050 JEB	2.62 JEB	438 JEB	3240 JEB	21.6 JEB	101 JEB	114 JEB	1.09 JEB	412 JEB
PCB-111/117	PCB-111/117	ng/g	230	14.0	13.0 J	226 J	< 0.0660 U	182	414 J	1.96 J	33.6 J	34.1 J	< 0.132 U	59.1 J
PCB-112	74472-36-9	ng/g	230	14.0	< 0.0406 U	15.1 J	< 0.0230 U	8.68 J	36.0 J	0.135 J	1.55 J	1.79 J	< 0.0459 U	2.77 J
PCB-113	68194-10-5	ng/g	230	14.0	< 0.0426 U	16.6 J	< 0.0242 U	5.91 J	51.8 J	0.298 J	1.02 J	< 0.0251 U	< 0.0482 U	7.66 J
PCB-114	74472-37-0	ng/g	120	14.0	< 0.0353 U	6.40 J	< 0.0201 U	< 0.289 U	8.02 J	< 0.0198 U	2.07 J	2.29 J	< 0.0400 U	1.66 J
PCB-119	56558-17-9	ng/g	230	14.0	2.42 J	126	< 0.0266 U	128 J	235 J	1.14 J	9.97	10.7	< 0.0530 U	38.1 J
PCB-122	76842-07-4	ng/g	230	14.0	< 0.0298 U	< 0.162 U	< 0.0169 U	< 0.244 U	< 0.156 U	< 0.0167 U	0.696 J	< 0.0175 U	< 0.0337 U	< 0.0175 U
PCB-123	65510-44-3	ng/g	120	14.0	1.08 J+	10.6 J+	< 0.0157 U	6.33 J+	20.3 J+	< 0.0155 U	2.16 J+	1.98 J+	< 0.0313 U	4.20 J+
PCB-124	70424-70-3	ng/g	230	14.0	1.32 J	< 0.203 U	< 0.0211 U	< 0.304 U	< 0.195 U	< 0.0208 U	1.69 J	1.61 J	< 0.0421 U	1.27 J
PCB-125	74472-39-2	ng/g	230	14.0	< 0.0407 U	4.77 J	< 0.0231 U	4.96 J	8.14 J	< 0.0228 U	0.453 J	< 0.0240 U	< 0.0461 U	0.893 J
PCB-126	57465-28-8	ng/g	0.0360	14.0	< 0.0579 UJ	12.1 J+	< 0.0329 U	9.83 J+	23.8 J+	< 0.0324 U	< 0.0342 U	< 0.0341 U	< 0.0656 U	2.92 J+
PCB-128	38380-07-3	ng/g	230	14.0	7.34 J+	61.7 J	< 0.0232 U	33.6 J	98.0	0.736 J	9.36 J	9.00 J	< 0.0463 U	23.0 J
PCB-129	55215-18-4	ng/g	230	14.0	1.55 J+	8.98 J	< 0.0255 U	< 0.368 U	10.9 J	< 0.0252 U	1.83 J	1.58 J	< 0.0509 U	2.75 J
PCB-130	52663-66-8	ng/g	230	14.0	2.52 J+	36.9 J	< 0.0201 U	23.3 J	67.5 J	0.433 J	4.16 J	3.93 J	< 0.0400 U	14.9
PCB-131/142	PCB-131/142	ng/g	230	14.0	0.518 J+	4.61 J	< 0.0494 U	< 0.712 U	6.00 J	< 0.0488 U	0.578 J	< 0.0512 U	< 0.0985 U	1.47 J
PCB-132/168	PCB-132/168	ng/g	230	14.0	12.2 J+	129	0.266 J	56.5 J	246 J	1.60 J	15.9	16.4	< 0.116 U	58.1 J
PCB-133	35694-04-3	ng/g	230	14.0	0.598 J+	34.1 J	< 0.0180 U	25.4 J	72.3 J	0.213 J	2.65 J	2.04 J	< 0.0358 U	8.74 J
PCB-134	52704-70-8	ng/g	230	14.0	1.89 J+	37.5 J	< 0.0476 U	20.1 J	99.8	0.337 J	3.81 J	3.56 J	< 0.0949 U	11.1
PCB-135/144	PCB-135/144	ng/g	230	14.0	4.84 J+	96.5	< 0.0500 U	46.4 J	220 J	1.03 J	9.48 J	8.92 J	< 0.0997 U	36.0 J
PCB-136	38411-22-2	ng/g	230	14.0	4.13 J+	63.4 J	< 0.0417 U	29.8 J	165	0.790 J	6.60 J	6.66 J	< 0.0831 U	20.9 J
PCB-137	35694-06-5	ng/g	230	14.0	2.45 J+	22.8 J	< 0.0233 U	16.6 J	31.8 J	< 0.0230 U	3.75 J	3.26 J	< 0.0465 U	5.97 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	43.5 J	453 J	0.653 J	292 J	877 J	3.79 J	57.3 J	50.3 J	0.527 J	133 J
PCB-139/149	PCB-139/149	ng/g	230	14.0	23.6 J+	329 J	0.520 J	167	733 J	3.86 J	36.1 J	35.9 J	0.317 J	131 J
PCB-140	59291-64-4	ng/g	230	14.0	< 0.0599 U	6.15 J	< 0.0340 U	< 0.490 U	13.8 J	< 0.0336 U	0.500 J	< 0.0353 U	< 0.0679 U	2.72 J
PCB-141	52712-04-6	ng/g	230	14.0	5.42 J+	30.7 J	< 0.0239 U	16.7 J	39.5 J	0.191 J	6.32 J	5.96 J	< 0.0476 U	8.32 J
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0540 U	< 0.295 U	< 0.0307 U	< 0.442 U	< 0.283 U	< 0.0303 U	< 0.0319 U	< 0.0318 U	< 0.0612 U	< 0.0317 U
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0713 U	< 0.389 U	< 0.0405 U	< 0.584 U	< 0.374 U	< 0.0400 U	< 0.0421 U	< 0.0420 U	< 0.0808 U	0.242 J
PCB-146	51908-16-8	ng/g	230	14.0	4.25 J+	81.4 J	< 0.0274 U	54.4 J	170	0.863 J	7.58 J	7.31 J	< 0.0547 U	28.9 J
PCB-147	68194-13-8	ng/g	230	14.0	1.40 J+	109	< 0.0357 U	94.2 J	243 J	0.443 J	8.87 J	6.96 J	< 0.0713 U	15.1
PCB-148	74472-41-6	ng/g	230	14.0	< 0.0660 U	8.98 J	< 0.0375 U	8.41 J	18.2 J	< 0.0370 U	0.685 J	0.703 J	< 0.0747 U	2.00 J
PCB-150	68194-08-1	ng/g	230	14.0	< 0.0666 U	9.69 J	< 0.0378 U	7.23 J	24.4 J	< 0.0373 U	0.729 J	0.666 J	< 0.0755 U	1.24 J
PCB-151	52663-63-5	ng/g	230	14.0	5.18 J+	143	< 0.0274 U	82.8 J	350 J	1.30 J	13.9	12.3	< 0.0547 U	37.9 J
PCB-152	68194-09-2	ng/g	230	14.0	< 0.0779 U	10.0 J	< 0.0443 U	6.81 J	21.3 J	< 0.0437 U	0.856 J	0.756 J	< 0.0882 U	1.44 J
PCB-153	35065-27-1	ng/g	230	14.0	26.7 J+	232 J	0.400 J	156	418 J	2.05 J	33.5 J	30.6 J	0.308 J	71.6 J
PCB-154	60145-22-4	ng/g	230	14.0	0.630 J+	43.8 J	< 0.0264 U	33.7 J	102	0.297 J	2.99 J	2.38 J	< 0.0526 U	9.90
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0400 U	0.489 J	< 0.0227 U	0.675 J	1.15 J	< 0.0224 U	< 0.0237 U	< 0.0236 U	< 0.0454 U	0.0888 J
PCB-156	38380-08-4	ng/g	120	14.0	3.00 J+	30.4 J	< 0.0191 U	18.4 J	42.4 J	0.190 J	5.10 J	4.85 J	< 0.0381 U	8.29 J
PCB-157	69782-90-7	ng/g	120	14.0	1.26 J+	10.5 J+	< 0.0266 U	7.18 J+	16.9 J+	< 0.0262 U	1.55 J+	1.81 J+	< 0.0530 U	3.29 J+

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0048-PLC1	23A-0048-PLC1	23A-0048-PLC1	23A-0049-B2C1	23A-0049-B2C1	23A-0049-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0051-PLC1
					Sample Name	23A-0048-PLC1-AS	23A-0048-PLC1-BS	23A-0048-PLC1-CS	23A-0049-B2C1-AS	23A-0049-B2C1-BS	23A-0049-B2C1-CS	23A-0050-B2C1-AS	23A-0050-B2C1-BS	23A-0050-B2C1-CS	23A-0051-PLC1-AS
					Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5 ft	0 - 0.5 ft	0.5 - 2.2 ft	2.2 - 3.2 ft	0 - 0.5 ft	0.5 - 2.7 ft	2.7 - 3.2 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-158/160	PCB-158/160	ng/g	230	14.0	3.79 J+	31.1 J	< 0.0583 U	18.5 J	47.8 J	0.243 J	5.03 J	4.96 J	< 0.116 U	9.97
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0646 U	5.69 J	< 0.0367 U	< 0.529 U	9.17 J	< 0.0362 U	0.522 J	< 0.0380 U	< 0.0732 U	1.67 J
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0604 U	< 0.329 U	< 0.0343 U	< 0.494 U	< 0.317 U	< 0.0339 U	< 0.0357 U	< 0.0356 U	< 0.0684 U	< 0.0355 U
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0476 U	< 0.260 U	< 0.0270 U	< 0.390 U	4.88 J	< 0.0267 U	< 0.0281 U	< 0.0280 U	< 0.0539 U	0.801 J
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0653 U	6.33 J	< 0.0371 U	4.62 J	11.8 J	< 0.0366 U	0.433 J	< 0.0384 U	< 0.0740 U	1.70 J
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0562 U	< 0.306 U	< 0.0319 U	< 0.460 U	2.55 J	< 0.0315 U	< 0.0332 U	< 0.0331 U	< 0.0637 U	0.502 J
PCB-167	52663-72-6	ng/g	120	14.0	1.84 J+	13.0 J	< 0.0246 U	10.3 J	20.3 J	< 0.0242 U	2.24 J+	2.04 J+	< 0.0490 U	3.82 J+
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0476 U	< 0.260 U	< 0.0270 U	< 0.390 U	< 0.250 U	< 0.0267 U	< 0.0281 U	< 0.0280 U	< 0.0539 U	< 0.0280 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	6.44 J+	124	< 0.0445 U	106 J	228 J	0.993 J	14.8	13.5	< 0.0888 U	40.9 J
PCB-171	52663-71-5	ng/g	230	14.0	1.75 J+	32.2 J	< 0.0354 U	26.3 J	61.6 J	0.291 J	3.55 J	3.51 J	< 0.0705 U	11.5
PCB-172/192	PCB-172/192	ng/g	230	14.0	0.912 J+	19.3 J	< 0.0587 U	16.7 J	37.1 J	0.148 J	2.11 J	1.88 J	< 0.117 U	5.99 J
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0697 U	< 0.380 U	< 0.0396 U	< 0.570 U	< 0.365 U	< 0.0390 U	< 0.0411 U	< 0.0410 U	< 0.0789 U	0.741 J
PCB-174	38411-25-5	ng/g	230	14.0	5.48 J+	84.7 J	< 0.0496 U	64.2 J	160	0.742 J	10.4	9.60 J	< 0.0989 U	28.2 J
PCB-175	40186-70-7	ng/g	230	14.0	< 0.0537 U	5.25 J	< 0.0305 U	3.96 J	9.83 J	< 0.0301 U	0.504 J	< 0.0316 U	< 0.0608 U	2.04 J
PCB-176	52663-65-7	ng/g	230	14.0	0.564 J+	12.9 J	< 0.0285 U	9.30 J	24.6 J	0.121 J	1.35 J	1.24 J	< 0.0568 U	5.00 J
PCB-177	52663-70-4	ng/g	230	14.0	3.14 J+	74.1 J	< 0.0356 U	56.3 J	143	0.676 J	7.42 J	7.05 J	< 0.0709 U	27.0 J
PCB-178	52663-67-9	ng/g	230	14.0	1.18 J+	40.6 J	< 0.0446 U	32.5 J	87.8 J	0.327 J	3.76 J	3.37 J	< 0.0890 U	12.0
PCB-179	52663-64-6	ng/g	230	14.0	1.84 J+	51.7 J	< 0.0236 U	37.2 J	114	0.514 J	5.21 J	4.43 J	< 0.0471 U	16.8
PCB-180	35065-29-3	ng/g	230	14.0	11.1 J+	217 J	0.336 J	192	415 J	1.84 J	26.1 J	22.5 J	< 0.0627 U	70.6 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0476 U	< 0.260 U	< 0.0270 U	< 0.390 U	< 0.250 U	< 0.0267 U	< 0.0281 U	< 0.0280 U	< 0.0539 U	< 0.0280 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	6.20 J+	164	0.214 J	133 J	347 J	1.44 J	16.4	14.3	< 0.142 U	55.2 J
PCB-183	52663-69-1	ng/g	230	14.0	2.84 J+	55.7 J	< 0.0354 U	45.3 J	107	0.488 J	6.35 J	5.72 J	< 0.0705 U	19.6
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0451 U	< 0.246 U	< 0.0256 U	< 0.369 U	< 0.236 U	< 0.0253 U	< 0.0266 U	< 0.0265 U	< 0.0511 U	< 0.0265 U
PCB-185	52712-05-7	ng/g	230	14.0	0.649 J+	9.27 J	< 0.0355 U	7.81 J	16.8 J	< 0.0350 U	1.24 J	1.17 J	< 0.0707 U	3.00 J
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0564 U	< 0.307 U	< 0.0320 U	< 0.461 U	< 0.295 U	< 0.0316 U	< 0.0333 U	< 0.0332 U	< 0.0638 U	< 0.0331 U
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0517 U	1.87 J	< 0.0293 U	1.62 J	4.44 J	< 0.0289 U	0.144 J	< 0.0304 U	< 0.0585 U	0.219 J
PCB-189	39635-31-9	ng/g	130	14.0	< 0.0525 U	7.16 J	< 0.0298 U	6.61 J	11.6 J	< 0.0294 U	0.672 J	0.719 J	< 0.0595 U	2.04 J
PCB-191	74472-50-7	ng/g	230	14.0	0.268 J	4.30 J	< 0.0270 U	3.59 J	7.68 J	< 0.0266 U	0.552 J	< 0.0279 U	< 0.0537 U	1.22 J
PCB-193	69782-91-8	ng/g	230	14.0	0.667 J	15.2 J	< 0.0340 U	13.6 J	31.2 J	0.0980 J	1.44 J	1.24 J	< 0.0679 U	3.74 J
PCB-194	35694-08-7	ng/g	230	14.0	2.92 J	105	< 0.0430 UJ	118 J	207 J	0.842 J	10.3	8.46 J	< 0.0858 U	33.1 J
PCB-195	52663-78-2	ng/g	230	14.0	1.05 J	34.1 J	< 0.0762 UJ	33.2 J	66.1 J	< 0.0752 U	3.63 J	2.95 J	< 0.152 U	11.0
PCB-196/203	PCB-196/203	ng/g	230	14.0	3.74 J	100	< 0.0723 UJ	90.7 J	193 J	0.870 J	10.6	8.64 J	< 0.144 U	31.9 J
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0567 U	2.98 J	< 0.0322 U	2.80 J	5.87 J	< 0.0318 U	0.311 J	< 0.0334 U	< 0.0642 U	1.02 J
PCB-198	68194-17-2	ng/g	230	14.0	< 0.0920 UJ	< 0.502 U	< 0.0523 UJ	3.76 J	8.71 J	< 0.0516 U	0.470 J	< 0.0542 UJ	< 0.104 U	1.53 J
PCB-199	52663-75-9	ng/g	230	14.0	3.06 J	83.8 J	< 0.0503 UJ	76.6 J	162	0.786 J	8.78 J	7.32 J	< 0.100 U	26.7 J
PCB-200	52663-73-7	ng/g	230	14.0	0.382 J+	10.7 J	< 0.0256 U	8.38 J	18.3 J	< 0.0253 U	1.10 J	0.918 J	< 0.0511 U	3.17 J
PCB-201	40186-71-8	ng/g	230	14.0	0.447 J+	10.1 J	< 0.0203 U	8.40 J	19.8 J	< 0.0200 U	1.09 J	0.952 J	< 0.0404 U	3.22 J
PCB-202	2136-99-4	ng/g	230	14.0	0.581 J+	16.0 J	< 0.0346 U	14.4 J	31.8 J	0.129 J	1.65 J	1.34 J	< 0.0690 U	4.65 J
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0745 U	< 0.406 U	< 0.0423 U	< 0.610 U	< 0.391 U	< 0.0418 U	< 0.0440 U	< 0.0439 U	< 0.0844 U	< 0.0438 U
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0528 U	5.53 J	< 0.0300 U	6.54 J	11.2 J	< 0.0296 U	0.608 J	< 0.0311 U	< 0.0598 U	1.48 J
PCB-206	40186-72-9	ng/g	230	14.0	2.23 J+	44.6 J	< 0.0288 UJ	38.6 J	84.6 J	0.351 J	4.47 J	3.77 J	< 0.0574 U	13.4
PCB-207	52663-79-3	ng/g	230	14.0	0.288 J+	5.11 J	< 0.0380 U	3.64 J	9.13 J	< 0.0375 U	0.543 J	0.493 J	< 0.0759 U	1.36 J
PCB-208	52663-77-1	ng/g	230	14.0	0.713 J+	10.4 J	< 0.0380 U	9.40 J	20.3 J	< 0.0375 U	1.13 J	0.971 J	< 0.0759 U	3.46 J
PCB-209	2051-24-3	ng/g	230	14.0	1.69 J+	15.4 J	< 0.0219 UJ	11.7 J	25.3 J	0.134 J	1.91 J	1.38 J	< 0.0436 U	5.50 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	1.69	15.4	< 0.0219 U	11.7	25.3	0.134	1.91	1.38	< 0.0436 U	5.50
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	43.0	919	0.550	756	1810	7.68	102	90.2	< 0.142 U	306
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	159	2050	1.84	1230	4180	18.4	242	223	1.15	656
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	12.2	368	< 0.0762 U	363	724	2.63	38.5	30.6	< 0.152 U	118
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	1680	219000	191	176000	381000	1330	28000	33300	215	45800
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	275	5110	8.04	3030	13100	71.3	590	633	4.23	1560
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	263	95900	73.7	69400	140000	318	11700	14700	94.0	13400
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	189	18900	35.0	25900	29400	32.1	5660	6380	34.0	2890
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	3.23	60.1	< 0.038 U	51.6	114	0.351	6.14	5.23	< 0.0759 U	18.2
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	364	29900	23.9	24100	69300	359	2920	3120	25.6	7770
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	369	65600	48.3	50600	122000	516	6710	8140	56.2	19100

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0048-PLC1	23A-0048-PLC1	23A-0048-PLC1	23A-0049-B2C1	23A-0049-B2C1	23A-0049-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0051-PLC1
				Sample Name	23A-0048-PLC1-AS	23A-0048-PLC1-BS	23A-0048-PLC1-CS	23A-0049-B2C1-AS	23A-0049-B2C1-BS	23A-0049-B2C1-CS	23A-0050-B2C1-AS	23A-0050-B2C1-BS	23A-0050-B2C1-CS	23A-0051-PLC1-AS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5 ft	0 - 0.5 ft	0.5 - 2.2 ft	2.2 - 3.2 ft	0 - 0.5 ft	0.5 - 2.7 ft	2.7 - 3.2 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	4900	7600	3800	6900	8100	4400	1500	3800	11000	5300
Calcium	7440-70-2	mg/kg			3800	2500	1500	3200	2600	1700	2800	630	2600	2000
Iron	7439-89-6	mg/kg	5500	20000	12000	13000	9400	17000	14000	13000	6500	5500	27000	9800
Magnesium	7439-95-4	mg/kg			1500	2400	2400	2100	2600	3000	620 J	1100	4000	1700
Potassium	7440-09-7	mg/kg			360 J	530 J	190 J	480 J	590 J	160 J	130 J	150 J	1400	400 J
Sodium	7440-23-5	mg/kg			510	400 J	88 J	520 J	630 J	170 J	310 J	150 J	560	170 J
Antimony	7440-36-0	mg/kg	3.1	2	1.6	1.4	< 1.1 U	< 2.4 U	1.8	< 0.77 U	< 1.2 U	< 1.2 U	< 1.1 U	0.62 J
Arsenic	7440-38-2	mg/kg	0.68	9.8	5.2	6.9	1.7	5.6 J	8.6 J	1.2 J	2.7 J	3.1 J	3.9	3.1 J
Barium	7440-39-3	mg/kg	1500	20	89	95	20	83 J	110 J	12 J	33 J	43 J	66	55 J
Beryllium	7440-41-7	mg/kg	16		0.49	0.40 J	0.16 J	0.45 J	0.54 J	0.17 J	0.14 J	0.40 J	0.82	0.37 J
Cadmium	7440-43-9	mg/kg	0.71	1	1.5	1.4	< 0.53 U	1.2	1.8	< 0.39 U	< 0.60 U	0.51 J	< 0.53 U	0.64
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	44	69	8.0	48	94	12	17	19	30	35
Cobalt	7440-48-4	mg/kg	2.3	50	9.3	6.6	4.4	9.4	7.7	4.6	3.2	6.5	14	6.3
Copper	7440-50-8	mg/kg	310	31.6	66	110	9.0	65	110	9.0	23	32	19	39
Lead	7439-92-1	mg/kg	200	35.8	110	240	4.4	150	280	9.8	120	140	12	89
Manganese	7439-96-5	mg/kg	180	460	440	180	580	220	180	120	110	100	770	240
Nickel	7440-02-0	mg/kg	140	22.7	14	14	6.9	15	16	6.8	7.0	8.5	25	10
Selenium	7782-49-2	mg/kg	39	11	0.59 J	< 3.2 U	< 2.7 U	< 6.0 U	< 3.9 U	< 1.9 U	< 3.0 U	< 3.1 U	< 2.6 U	< 3.0 U
Silver	7440-22-4	mg/kg	39	1	0.33 J	0.73	< 0.53 U	0.43 J	0.72 J	0.046 J	0.054 J	0.14 J	< 0.53 U	0.19 J
Thallium	7440-28-0	mg/kg	0.078		< 0.41 U	< 0.64 U	< 0.53 U	< 1.2 U	< 0.78 U	< 0.39 U	< 0.60 U	< 0.61 U	< 0.53 U	< 0.59 U
Vanadium	7440-62-2	mg/kg	39		25	24	9.7	27	31	12	9.2	24	38	20
Zinc	7440-66-6	mg/kg	2300	121	340 J	270 J	22 J	270	290	25	82	100	61 J	110
Mercury	7439-97-6	mg/kg	2.3	0.18	0.53	1.7	< 0.11 U	1.2	2.4	< 0.096 U	0.18	0.18	< 0.12 U	0.56
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.51 U	< 0.85 U	< 0.53 U	< 1.5 U	< 0.95 U	< 0.54 U	< 0.79 U	< 0.64 U	< 0.62 U	< 0.69 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
2-HEXANONE	591-78-6	ug/kg	20000	45	< 35 UJ	< 15 U	< 8.1 U	< 36 U	< 22 U	< 9.4 U	< 20 U	< 13 U	-	-
ACETONE	67-64-1	ug/kg	7000000	65	440 J	140 J+	< 8.1 U	520	360	5.3 J	170	38	-	-
Benzene	71-43-2	ug/kg	1200	10	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0048-PLC1	23A-0048-PLC1	23A-0048-PLC1	23A-0049-B2C1	23A-0049-B2C1	23A-0049-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0051-PLC1
				Sample Name	23A-0048-PLC1-AS	23A-0048-PLC1-BS	23A-0048-PLC1-CS	23A-0049-B2C1-AS	23A-0049-B2C1-BS	23A-0049-B2C1-CS	23A-0050-B2C1-AS	23A-0050-B2C1-BS	23A-0050-B2C1-CS	23A-0051-PLC1-AS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5 ft	0 - 0.5 ft	0.5 - 2.2 ft	2.2 - 3.2 ft	0 - 0.5 ft	0.5 - 2.7 ft	2.7 - 3.2 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	3.0 J	< 4.7 U	< 10 U	< 6.5 U	-	-
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Chlorobenzene	108-90-7	ug/kg	28000	30	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	3.8 J	< 6.5 U	-	-
CHLOROETHANE	75-00-3	ug/kg	540000		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Chloroform	67-66-3	ug/kg	320	87	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
CHLOROMETHANE	74-87-3	ug/kg	11000		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Cyclohexane	110-82-7	ug/kg	650000		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Ethylbenzene	100-41-4	ug/kg	5800	290	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
m,p-Xylene	179601-23-1	ug/kg	55000		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
METHYL ACETATE	79-20-9	ug/kg	7800000		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	110 J	38 J+	< 8.1 U	140	89	< 9.4 U	47	8.0 J	-	-
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 35 UJ	< 15 U	< 8.1 U	< 36 U	< 22 U	< 9.4 U	< 20 U	< 13 U	-	-
Methylcyclohexane	108-87-2	ug/kg	9800		< 17 UJ	2.2 J	< 4.1 U	6.4 J	6.4 J	< 4.7 U	< 10 U	< 6.5 U	-	-
Methylene Chloride	75-09-2	ug/kg	35000	18	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Styrene	100-42-5	ug/kg	600000	126	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Toluene	108-88-3	ug/kg	490000	10	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
Vinyl Chloride	75-01-4	ug/kg	59	482	< 17 UJ	< 7.5 U	< 4.1 U	< 18 U	< 11 U	< 4.7 U	< 10 U	< 6.5 U	-	-
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U
2-NITROANILINE	88-74-4	ug/kg	63000		< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U

Table 11
Sediment Analytical Results
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				Location	23A-0048-PLC1	23A-0048-PLC1	23A-0048-PLC1	23A-0049-B2C1	23A-0049-B2C1	23A-0049-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0051-PLC1
				Sample Name	23A-0048-PLC1-AS	23A-0048-PLC1-BS	23A-0048-PLC1-CS	23A-0049-B2C1-AS	23A-0049-B2C1-BS	23A-0049-B2C1-CS	23A-0050-B2C1-AS	23A-0050-B2C1-BS	23A-0050-B2C1-CS	23A-0051-PLC1-AS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5 ft	0 - 0.5 ft	0.5 - 2.2 ft	2.2 - 3.2 ft	0 - 0.5 ft	0.5 - 2.7 ft	2.7 - 3.2 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 UJ	< 530 U	< 440 U	< 420 U	< 470 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 UJ	< 530 U	< 440 U	< 420 U	< 470 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 1300 UJ	< 570 U	< 360 U	250 J	160 J	< 370 U	550	280 J	< 420 U	< 470 U
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	110 J	< 440 U	< 420 U	< 470 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	70 J	< 210 U	< 240 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	< 640 UJ	150 J	< 190 U	200 J	140 J	< 190 U	300	390	56 J	< 240 U
Caprolactam	105-60-2	ug/kg	3100000		< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	-	-	-	-	420	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	< 420 U	< 470 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 640 UJ	< 290 U	< 190 U	< 540 U	< 330 U	< 190 U	< 270 U	< 230 U	< 210 U	< 240 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	-	< 1000 U	< 640 U	< 370 U	< 530 U	< 440 U	-	< 470 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	-	-	-	-	350	-	-
PHENOL	108-95-2	ug/kg	1900000	175	< 1300 UJ	< 570 U	< 360 U	< 1000 U	< 640 U	< 370 U	110 J	55 J	< 420 U	< 470 U
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	-	-	-	-	-

Table 11
Sediment Analytical Results
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				Location	23A-0048-PLC1	23A-0048-PLC1	23A-0048-PLC1	23A-0049-B2C1	23A-0049-B2C1	23A-0049-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0050-B2C1	23A-0051-PLC1
				Sample Name	23A-0048-PLC1-AS	23A-0048-PLC1-BS	23A-0048-PLC1-CS	23A-0049-B2C1-AS	23A-0049-B2C1-BS	23A-0049-B2C1-CS	23A-0050-B2C1-AS	23A-0050-B2C1-BS	23A-0050-B2C1-CS	23A-0051-PLC1-AS
				Sample Date	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/27/2023	6/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5 ft	0 - 0.5 ft	0.5 - 2.2 ft	2.2 - 3.2 ft	0 - 0.5 ft	0.5 - 2.7 ft	2.7 - 3.2 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 25 UJ	< 11 U	< 7.4 U	< 21 UJ	< 13 UJ	< 7.5 U	< 11 U	< 9.0 U	< 8.5 U	< 9.4 U
1-Methylnaphthalene	90-12-0	ug/kg	18	141	< 13 UJ	2.6 JEB	< 3.6 U	< 10 U	< 6.4 U	< 3.7 UJ	2.0 JEB	11 EB	< 4.2 U	< 4.7 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	< 13 UJ	4.2 JEB	< 3.6 U	< 10 U	1.7 JEB	0.96 JEB	3.2 JEB	18 EB	< 4.2 U	1.1 JEB
Acenaphthene	83-32-9	ug/kg	360000	6.7	< 13 UJ	8.8	< 3.6 U	< 10 UJ	< 6.4 UJ	1.4 J	8.1 J	33 J	< 4.2 U	1.9 J
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	4.4 J	13	2.6 J	< 10 U	2.4 J	3.7	6.5	9.9	< 4.2 U	3.3 J
ANTHRACENE	120-12-7	ug/kg	1800000	57	4.9 J	18	2.7 J	< 10 U	< 6.4 U	5.0 J-	16	33	< 4.2 U	5.1
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	45 JEB	73 EB	20 EB	8.8 JEB	11 EB	27 EB	150 EB	240 EB	1.2 JEB	20 EB
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	40 J	85	13	< 10 U	< 6.4 U	16	47	57	< 4.2 U	15
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	67 JEB	80 EB	22 EB	18 EB	18 EB	24 EB	100 JEB	250 EB	1.1 JEB	19 EB
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	29 J	49	9.8	< 10 U	< 6.4 U	13	3.0 J	3.1 J	< 4.2 U	11
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	25 JEB	44 EB	7.3 EB	7.6 JEB	7.6 EB	11 EB	55 EB	69 EB	< 4.2 U	8.6 EB
CHRYSENE	218-01-9	ug/kg	110000	166	45 JEB	61 EB	15 EB	13 EB	15 EB	27 EB	160 EB	200 EB	< 4.2 U	22 EB
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	7.2 JEB	13 EB	2.5 JEB	< 10 U	2.6 JEB	3.4 JEB	18 EB	21 EB	< 4.2 U	2.6 JEB
FLUORANTHENE	206-44-0	ug/kg	240000	423	93 JEB	150 EB	34 EB	24 EB	23 EB	48 JEB	280 EB	-	3.2 JEB	33 EB
FLUORENE	86-73-7	ug/kg	240000	77	< 13 UJ	13 EB	0.93 JEB	< 10 U	2.1 JEB	3.1 JEB	7.5 EB	41 EB	< 4.2 U	1.9 JEB
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	25 J	44	9.0	4.6 J	5.6 J	12	40	44	< 4.2 U	9.1
Naphthalene	91-20-3	ug/kg	2000	176	< 13 UJ	7.8 EB	1.0 JEB	11 EB	8.9 EB	2.0 JEB	17 EB	44 EB	< 4.2 U	2.1 JEB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 25 UJ	< 11 U	< 7.4 U	-	-	-	-	-	< 8.5 U	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	29 J	78	12	11	13	21 J-	140	-	< 4.2 U	20
PYRENE	129-00-0	ug/kg	180000	195	78 J	120	34	15 J	17 J	42 J	180 J	260 J	3.1 J	31 J
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			240000 J	58000	440	81000	36000	270 J	53000	13000	500	-
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			48 J	-	-	29	-	-	7.6	-	-	-
Cadmium	7440-43-9	umol/g			0.013 J	-	-	0.010	-	-	0.0080	-	-	-
Copper	7440-50-8	umol/g			0.76 J	-	-	0.73	-	-	0.60	-	-	-
Lead	7439-92-1	umol/g			0.56 J	-	-	0.62	-	-	0.68	-	-	-
Nickel	7440-02-0	umol/g			1.8 J	-	-	0.64	-	-	0.12	-	-	-
Silver	7440-22-4	umol/g			0.0013 J	-	-	0.00056	-	-	0.00040	-	-	-
Zinc	7440-66-6	umol/g			3.8 J	-	-	2.7	-	-	2.1	-	-	-
Mercury	7439-97-6	umol/g			< 0.00013 UJ	-	-	< 0.000071 U	-	-	< 0.000053 U	-	-	-

Table 11
Sediment Analytical Results
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				Location	23A-0051-PLC1	23A-0051-PLC1	23A-0052-PLC1	23A-0052-PLC1	23A-0053-B1C1	23A-0053-B1C1	23A-0053-B1C1	23A-0054-PLC2	23A-0054-PLC2	23A-0054-PLC2
				Sample Name	23A-0051-PLC1-BS	23A-0051-PLC1-CS	23A-0052-PLC1-AS	23A-0052-PLC1-BS	23A-0053-B1C1-AS	23A-0053-B1C1-BS	23A-0053-B1C1-CS	23A-0054-PLC2-AS	23A-0054-PLC2-BS	23A-0054-PLC2-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 2.2 ft	2.2 - 3.4 ft	0 - 0.5 ft	0.5 - 1.9 ft	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 2.7 U	< 1.9 U	-	< 1.9 U	< 7.0 UJ	< 2.2 U	< 1.9 U	< 4.9 U	< 2.3 U	< 2.1 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 2.7 U	< 1.9 U	-	< 1.9 U	< 7.0 UJ	< 2.2 U	< 1.9 U	< 4.9 U	< 2.3 U	< 2.1 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 2.7 U	< 1.9 U	-	< 1.9 U	< 7.0 UJ	< 2.2 U	< 1.9 U	< 4.9 U	< 2.3 U	< 2.1 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 2.7 U	< 1.9 U	-	< 1.9 U	< 7.0 UJ	< 2.2 U	< 1.9 U	< 4.9 U	< 2.3 U	< 2.1 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 5.3 U	< 3.7 U	-	< 3.8 U	< 14 UJ	< 4.3 U	< 3.6 U	< 9.5 U	< 4.5 U	< 4.0 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		1.2 J	< 1.9 U	-	< 1.9 U	1.1 J	< 2.2 U	< 1.9 U	< 4.9 U	0.69 J	< 2.1 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		6.3 J	0.84 J	-	< 1.9 U	< 7.0 UJ	4.2 J	< 1.9 U	7.2 J	3.6 J	0.51 J
DIELDRIN	60-57-1	ug/kg	34	1.9	< 5.3 U	< 3.7 U	-	< 3.8 U	< 14 UJ	< 4.3 U	< 3.6 U	< 9.5 U	< 4.5 U	< 4.0 U
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	0.71 J	< 3.7 U	-	< 3.8 U	< 14 UJ	< 4.3 U	< 3.6 U	< 9.5 U	0.59 J	< 4.0 U
ENDRIN	72-20-8	ug/kg	1900	2.22	2.4 J	0.40 J	-	< 3.8 U	1.8 J	< 4.3 U	< 3.6 U	1.1 J	1.2 J	< 4.0 U
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 5.3 U	< 3.7 U	-	< 3.8 U	< 14 UJ	< 4.3 U	< 3.6 U	< 9.5 U	< 4.5 U	< 4.0 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 5.3 U	< 3.7 U	-	< 3.8 U	< 14 UJ	< 4.3 U	< 3.6 U	< 9.5 U	< 4.5 U	< 4.0 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	15 J	0.92 J	-	< 1.9 U	1.2 J	8.3 J	< 1.9 U	22 J	11 J	1.3 J
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 2.7 U	< 1.9 U	-	< 1.9 U	< 7.0 UJ	< 2.2 U	< 1.9 U	< 4.9 U	< 2.3 U	< 2.1 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	2.9 J	< 1.9 U	-	< 1.9 U	< 7.0 UJ	< 2.2 U	< 1.9 U	< 4.9 U	3.8 J+	< 2.1 U
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 27 U	< 19 U	-	< 19 U	< 70 UJ	< 22 U	< 19 U	< 49 U	< 23 U	< 21 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	1.0 J	< 3.7 U	-	< 3.8 U	< 14 UJ	1.4 J	< 3.6 U	< 9.5 U	0.44 J	< 4.0 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	0.80 J	< 3.7 U	-	< 3.8 U	1.2 J	< 4.3 U	< 3.6 U	1.1 J	0.68 J	< 4.0 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	6.1 J	0.51 J	-	< 3.8 U	2.8 J	2.0 J	< 3.6 U	7.8 J	4.1 J+	0.35 J
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 270 U	< 190 U	-	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		< 2.7 U	< 1.9 U	-	< 1.9 U	< 7.0 UJ	< 2.2 U	< 1.9 U	< 4.9 U	1.4 J	0.20 J
Grain Size														
%CLAY	%CLAY	%			24.3	13	-	0	15.5	13.5	9.1	28.3	28.7	20.5
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			1	12.6	-	3.4	5.8	31.3	0.5	4.8	1.6	0
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			36.2	14.7	-	8.9	36	10	28.5	27.4	36.6	6
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			5.9	16	-	8.6	5.3	24.8	6.4	6.6	8.1	0.3
Gravel	GRAVEL	%			0.4	31.2	-	21.8	3	13.1	0	7.6	1.4	0
Hydrometer, Reading 1, Percent Passing	HYD01	%			40.2	16	-	0	15.5	17.1	31	38.1	42.2	33.5
Hydrometer, Reading 2, Percent Passing	HYD02	%			35.6	14.5	-	0	15.5	17.1	20.1	34.8	36.8	30.2
Hydrometer, Reading 3, Percent Passing	HYD03	%			31.1	14.5	-	0	15.5	15.3	14.6	31.6	34.1	27
Hydrometer, Reading 4, Percent Passing	HYD04	%			28.8	13	-	0	15.5	15.3	11.9	28.3	31.4	23.7
Hydrometer, Reading 5, Percent Passing	HYD05	%			24.3	13	-	0	15.5	13.5	9.1	28.3	28.7	20.5
Hydrometer, Reading 6, Percent Passing	HYD06	%			19.7	13	-	0	15.5	11.8	6.4	25	23.4	14
Hydrometer, Reading 7, Percent Passing	HYD07	%			15.2	10	-	0	15.5	11.8	6.4	21.8	23.4	14
Sand	308075-07-2	%			43.1	43.3	-	20.9	47.1	66.1	35.4	38.8	46.3	6.3
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			98.6	56.2	-	74.8	91.2	55.6	99.5	87.6	97	100
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			92.7	40.2	-	66.2	85.9	30.8	93.1	81	88.9	99.7
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			76.1	30.7	-	61.5	77.7	24.3	83.7	71.9	72.7	98.9
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			97.2	49.7	-	70.4	89.2	42.4	97.6	84.9	94.4	99.9
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			83.7	33.6	-	63.4	82.6	26.3	87.9	76.7	79.9	99.3
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			70.7	29.1	-	60.1	71	23.1	79.8	68	67.7	98.5
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			56.5	25.5	-	57.3	49.9	20.8	64.6	53.6	52.3	93.7
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			99.6	68.8	-	78.2	97	86.9	100	92.4	98.6	100
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			99.9	80.6	-	87.3	100	99.9	100	99	100	100
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	-	100	100	100	100	100	100	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	-	100	100	100	100	100	100	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	-	100	100	100	100	100	100	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	-	100	100	100	100	100	100	100
SILT	445	%			32.2	12.5	-	57.3	34.4	7.3	55.5	25.3	23.6	73.2

Table 11
Sediment Analytical Results
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				Location	23A-0051-PLC1	23A-0051-PLC1	23A-0052-PLC1	23A-0052-PLC1	23A-0053-B1C1	23A-0053-B1C1	23A-0053-B1C1	23A-0054-PLC2	23A-0054-PLC2	23A-0054-PLC2
				Sample Name	23A-0051-PLC1-BS	23A-0051-PLC1-CS	23A-0052-PLC1-AS	23A-0052-PLC1-BS	23A-0053-B1C1-AS	23A-0053-B1C1-BS	23A-0053-B1C1-CS	23A-0054-PLC2-AS	23A-0054-PLC2-BS	23A-0054-PLC2-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 2.2 ft	2.2 - 3.4 ft	0 - 0.5 ft	0.5 - 1.9 ft	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	998 J	19.1 J	328 J	9.46	1510 J	140 J	3.00	3650	2580	18.0
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	20.7 JN	< 0.318 U	5.82	< 0.179 U	31.5 J	3.63	< 0.202 U	56.4	40.9	0.32 JN
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	9.55 JN	< 0.513 U	2.71	< 0.368 U	19.3 J	1.78 JN	< 0.186 U	30.5	17.8	0.467 J
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	47.0 J	1.15 J	13.2 J	< 4.95 UJ	67.3 J	8.52 J	< 4.87 UJ	104 J	85.2 J	0.495 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	61.3 J	1.29 J	16.2 J	< 0.373 U	82.9 J	8.89 J	< 0.188 U	166	128	0.994 J
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	29.7	0.542 JN	7.52	< 0.121 U	38.5 J	4.92	< 0.121 U	59.5	39.2	0.251 JN
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	38.8	< 0.49 U	7.96	< 0.366 U	48.8 J	4.46	< 0.186 U	82.6	59.9	0.673 J
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 1.67 U	< 0.322 U	< 0.398 U	< 0.145 U	< 1.24 UJ	< 0.358 U	< 0.138 U	< 1.39 U	< 1 U	< 0.201 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	7.21 J	< 0.975 UJ	1.50 JN	< 0.206 UJ	9.41 J	1.12 J	< 0.159 UJ	12.8 J	7.98 J	< 0.3 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	7.18	< 0.268 U	2.27 J	< 0.163 U	9 J	1.33 JN	< 0.107 U	15.3	11.6	< 0.112 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	866 J+	15.4 J+	152 J+	0.65 J	1020 J	99.0 J+	0.278 JN	1620	972 J+	5.14
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	27.5	< 0.289 U	8.45	< 0.127 U	34.3 J	4.57	< 0.123 U	55.1	36.1	0.294 J
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	65.6 J	1.1 J	20.8 J	< 0.157 U	32.6 J	8.29 J	< 0.109 U	84.5	96.7 J	0.656 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	6.64	< 0.806 UJ	0.946 JN	< 0.185 U	2.11 J	< 0.417 U	< 0.115 U	6.90	6.51 JN	< 0.214 U
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	24.4 J	< 0.436 UJ	4.65 JN	< 0.172 U	14.8 J	3.02 J	< 0.0975 U	29.8	25.5	< 0.137 U
OCDD	3268-87-9	pg/g	16000	5000	5300 J	109 J	2430 J	220	9920 J	947 J	115	29900 J	21100 J	282
OCDF	39001-02-0	pg/g	16000	5000	535	10.8	159	< 0.277 U	1020 J	93.2	< 0.233 U	1960	1050	5.57 J
Total HpCDD (a)	RA_Total_HpCDD	pg/g			998	19.1	328	9.46	1510	140	3.00	3650	2580	18.0
Total HpCDF (a)	RA_Total_HpCDF	pg/g			887	15.4	158	0.65	1050	103	0.278	1680	1010	5.46
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		110	1.29	26.9	< 0.373 U	151	15.1	< 0.188 U	279	206	2.13
Total HxCDF (a)	RA_Total_HxCDF	pg/g			104	1.69	29.2	< 4.95 U	140	18.0	< 4.87 U	219	161	1.04
Total PeCDD (a)	RA_Total_PeCDD	pg/g			7.21	< 0.975 U	1.50	< 0.206 U	9.41	1.12	< 0.159 U	12.8	7.98	< 0.3 U
Total PeCDF (a)	RA_Total_PeCDF	pg/g			72.8	1.1	23.1	< 0.163 U	41.6	9.62	< 0.109 U	99.8	108	0.656
Total TCDD (a)	RA_Total_TCDD	pg/g			6.64	< 0.806 U	0.946	< 0.185 U	2.11	< 0.417 U	< 0.115 U	6.90	6.51	< 0.214 U
Total TCDF (a)	RA_Total_TCDF	pg/g			24.4	< 0.436 U	4.65	< 0.172 U	14.8	3.02	< 0.0975 U	29.8	25.5	< 0.137 U
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	3610 JEB	10.7 EB	2.30 J+EB	1.96 JEB	183 JEB	725 JEB	10.6 JEB	6880 JEB	79400 JEB	411 JEB
PCB-002	2051-61-8	ng/g	230	14.0	84.1 JEB	0.291 JEB	< 0.0264 U	< 0.0268 U	< 0.0552 UJ	3.47 J	< 0.0264 U	40.4 JEB	125	< 0.0258 U
PCB-003	2051-62-9	ng/g	230	14.0	644 J	2.36 J	0.420 J	< 0.0261 UJ	39.9 J	105 J	0.561 J	811 J	1900 J	10.4 J
PCB-004/010	PCB-4/10	ng/g	230	14.0	8060 JEB	40.1 JEB	3.90 J+EB	3.36 JEB	484 JEB	1860 JEB	13.6 JEB	11200 JEB	138000 JEB	597 JEB
PCB-005/008	PCB-5/8	ng/g	230	14.0	3820 JEB	37.9 JEB	3.84 JEB	1.97 JEB	224 JEB	754 J	4.18 JEB	3800 JEB	10700 J	69.1 JEB
PCB-006	25569-80-6	ng/g	230	14.0	676 JEB	8.58 JEB	1.30 JEB	0.827 JEB	49.3 JEB	114 J	0.564 JEB	752 JEB	2690 J	16.5 JEB
PCB-007/009	PCB-7/9	ng/g	230	14.0	282 J	3.43 J	0.394 J	0.223 J	10.5 J	40.3 J	0.148 J	120	647 J	4.49 J
PCB-011	2050-67-1	ng/g	230	14.0	63.3 JEB	0.454 JEB	< 0.0244 U	< 0.0248 U	9.91 JEB	15.3 EB	< 0.0244 U	82.3 JEB	319 JEB	< 0.0239 U
PCB-012/013	PCB-12/13	ng/g	230	14.0	219 J	1.86 J	0.308 J	< 0.0447 U	26.7 J	56.0 J	< 0.0440 U	303 J	429 J	< 0.0430 U
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0248 U	< 0.0232 U	< 0.0245 U	< 0.0249 U	< 0.0513 UJ	< 0.0246 U	< 0.0245 U	< 0.295 U	7.17 J	< 0.0240 U
PCB-015	2050-68-2	ng/g	230	14.0	2320 J	15.1	2.08 J	< 0.0229 UJ	207 J	371 J	0.947 J	1980 J	2780 J	19.7 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	4640 JEB	34.8 JEB	3.32 JEB	1.98 JEB	305 JEB	546 JEB	1.73 JEB	3060 JEB	9550 JEB	45.8 JEB
PCB-017	37680-66-3	ng/g	230	14.0	5830 JEB	35.5 JEB	2.60 JEB	1.50 JEB	170 JEB	388 JEB	1.28 JEB	2370 JEB	5200 JEB	26.5 JEB
PCB-018	37680-65-2	ng/g	230	14.0	1010 JEB	16.9 EB	2.50 JEB	1.81 JEB	114 JEB	155 JEB	0.469 JEB	600 JEB	1830 JEB	10.1 JEB
PCB-019	38444-73-4	ng/g	230	14.0	2780 J	11.0	0.819 J	0.593 J	176 J	403 J	1.52 J	1840 J	18400 J	74.1 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	86.8 JEB	2.72 JEB	1.54 JEB	0.604 JEB	31.8 JEB	26.8 JEB	< 0.0681 U	39.6 JEB	170 EB	< 0.0667 U
PCB-022	38444-85-8	ng/g	230	14.0	161 JEB	3.09 JEB	1.27 JEB	0.474 JEB	31.6 JEB	44.9 J	0.0946 JEB	175 EB	286 J	1.43 JEB
PCB-023/034	PCB-23/34	ng/g	230	14.0	107 J	0.665 J	< 0.0443 U	< 0.0450 U	4.20 J	7.67 J	< 0.0443 U	30.0 J	340 J	1.41 J
PCB-024/027	PCB-24/27	ng/g	230	14.0	1310 J	7.42 J	0.559 J	0.443 J	99.4 J	166 J	0.684 J	741 J	7160 J	38.9 J
PCB-025	55712-37-3	ng/g	230	14.0	2050 J	17.3	2.44 J	0.687 J	94.6 J	147 J	0.300 J	776 J	1310 J	10.6 J
PCB-026	38444-81-4	ng/g	230	14.0	2450 JEB	21.3 JEB	2.81 JEB	1.17 JEB	138 JEB	193 J	0.501 JEB	941 JEB	2880 J	14.5 JEB
PCB-028	7012-37-5	ng/g	230	14.0	2400 JEB	46.8 JEB	9.00 JEB	2.62 JEB	213 JEB	276 JEB	0.651 JEB	421 JEB	977 JEB	13.5 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0259 U	< 0.0242 U	< 0.0256 U	< 0.0260 U	< 0.0536 UJ	< 0.0257 U	< 0.0256 U	< 0.307 U	< 0.249 U	< 0.0250 U

Table 11
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				Location	23A-0051-PLC1	23A-0051-PLC1	23A-0052-PLC1	23A-0052-PLC1	23A-0053-B1C1	23A-0053-B1C1	23A-0053-B1C1	23A-0054-PLC2	23A-0054-PLC2	23A-0054-PLC2
				Sample Name	23A-0051-PLC1-BS	23A-0051-PLC1-CS	23A-0052-PLC1-AS	23A-0052-PLC1-BS	23A-0053-B1C1-AS	23A-0053-B1C1-BS	23A-0053-B1C1-CS	23A-0054-PLC2-AS	23A-0054-PLC2-BS	23A-0054-PLC2-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 2.2 ft	2.2 - 3.4 ft	0 - 0.5 ft	0.5 - 1.9 ft	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	2.40 J	< 0.0222 U	< 0.0235 U	< 0.0238 U	< 0.0491 UJ	< 0.0235 U	< 0.0235 U	< 0.282 U	11.9 J	< 0.0230 U
PCB-031	16606-02-3	ng/g	230	14.0	4550 JEB	37.1 JEB	5.26 JEB	2.04 JEB	240 JEB	378 JEB	0.949 JEB	1850 JEB	5640 JEB	27.3 JEB
PCB-035	37680-69-6	ng/g	230	14.0	3.09 J+	< 0.0263 U	< 0.0279 U	< 0.0283 U	< 0.0582 UJ	2.08 J+	< 0.0278 U	< 0.334 U	< 0.271 U	< 0.0272 U
PCB-036	38444-87-0	ng/g	230	14.0	16.3	< 0.0225 U	< 0.0238 U	< 0.0241 U	< 0.0497 UJ	< 0.0238 U	< 0.0237 U	< 0.285 U	34.2 J	< 0.0232 U
PCB-037	38444-90-5	ng/g	230	14.0	118 J	2.75 J	1.45 J	< 0.0265 U	30.6 J	37.5 J	< 0.0261 U	128	117	< 0.0255 U
PCB-038	53555-66-1	ng/g	230	14.0	63.7 J	0.686 J	< 0.0197 U	< 0.0200 U	6.01 J	< 0.0197 U	< 0.0197 U	24.6 J	118	< 0.0192 U
PCB-039	38444-88-1	ng/g	230	14.0	22.0 J	< 0.0114 U	< 0.0121 U	< 0.0123 U	< 0.0253 UJ	2.57 J	< 0.0121 U	11.4 J	80.2 J	< 0.0118 U
PCB-040	38444-93-8	ng/g	230	14.0	97.0 JEB	2.67 JEB	0.759 JEB	0.194 JEB	13.2 JEB	9.97	< 0.0201 U	9.50 JEB	50.9 J	< 0.0197 U
PCB-041/064	PCB-41/64	ng/g	230	14.0	730 J	8.53 J	1.86 J	0.561 J	59.2 J	55.5 J	0.192 J	90.2 J	721 J	5.57 J
PCB-042	36559-22-5	ng/g	230	14.0	485 J	8.02 J	1.82 J	0.490 J	52.6 J	70.5 J	0.0869 J	161	476 J	2.02 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	2750 JEB	34.9 JEB	6.04 JEB	1.81 JEB	242 JEB	327 J	0.600 JEB	1050 JEB	4360 J	19.3 JEB
PCB-044	41464-39-5	ng/g	230	14.0	759 JEB	18.6 JEB	4.56 JEB	1.34 JEB	98.3 JEB	93.2 JEB	0.155 JEB	119 EB	492 JEB	3.51 JEB
PCB-045	70362-45-7	ng/g	230	14.0	322 J	3.43 J	0.619 J	0.256 J	17.7 J	14.0	< 0.0219 U	13.4 J	388 J	2.35 J
PCB-046	41464-47-5	ng/g	230	14.0	52.3 J	1.12 J	0.206 J	< 0.0260 U	10.8 J	15.1	< 0.0256 U	46.1 J	100	< 0.0250 U
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	2570 JEB	25.5 JEB	3.73 JEB	1.19 JEB	203 JEB	312 J	0.677 JEB	908 JEB	4600 J	21.2 JEB
PCB-050	62796-65-0	ng/g	230	14.0	41.6 J	0.296 J	< 0.0313 U	< 0.0318 U	2.53 J	4.14 J	< 0.0312 U	19.8 J	104	< 0.0306 U
PCB-051	68194-04-7	ng/g	230	14.0	680 J	4.99 J	0.531 J	0.189 J	42.1 J	65.7 J	0.182 J	323 J	1220 J	5.57 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	2170 JEB	33.9 JEB	5.97 JEB	1.84 JEB	202 JEB	234 JEB	0.507 JEB	859 JEB	3510 JEB	15.0 JEB
PCB-053	41464-41-9	ng/g	230	14.0	845 J	10.3	1.02 J	0.414 J	78.1 J	102 J	0.258 J	397 J	2100 J	9.16 J
PCB-054	15968-05-5	ng/g	230	14.0	63.8 J	0.427 J	< 0.0207 U	< 0.0211 U	5.80 J	9.47 J	< 0.0207 U	37.1 J	273 J	1.35 J
PCB-055	74338-24-2	ng/g	230	14.0	< 0.0272 U	< 0.0255 U	< 0.0270 U	< 0.0274 U	< 0.0564 UJ	0.683 J	< 0.0270 U	< 0.324 U	< 0.262 U	< 0.0264 U
PCB-056/060	PCB-56/60	ng/g	230	14.0	22.0 JEB	2.73 JEB	1.86 JEB	0.636 JEB	45.0 JEB	27.5 JEB	< 0.0526 U	6.88 JEB	19.9 JEB	< 0.0515 U
PCB-057	70424-67-8	ng/g	230	14.0	84.3 J	0.817 J	< 0.0208 U	< 0.0212 U	3.55 J	3.60 J	< 0.0208 U	9.54 J	162	0.765 J
PCB-058	41464-49-7	ng/g	230	14.0	2.10 J	< 0.0179 U	< 0.0189 U	< 0.0192 U	< 0.0395 UJ	0.532 J	< 0.0189 U	< 0.227 U	< 0.184 U	< 0.0185 U
PCB-059	74472-33-6	ng/g	230	14.0	117 J	1.36 J	0.340 J	< 0.0376 U	6.31 J	5.58 J	< 0.0370 U	5.37 J	188	0.931 J
PCB-061/074	PCB-61/74	ng/g	230	14.0	108 JEB	4.22 JEB	1.90 JEB	0.555 JEB	56.4 JEB	46.5 J	0.119 JEB	64.2 JEB	166	1.50 JEB
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0261 U	< 0.0244 U	< 0.0258 U	< 0.0262 U	< 0.0540 UJ	< 0.0259 U	< 0.0258 U	< 0.310 U	< 0.251 U	< 0.0252 U
PCB-063	74472-34-7	ng/g	230	14.0	182 J	2.02 J	0.365 J	< 0.0197 U	15.7 J	17.6	< 0.0194 U	43.1 J	553 J	3.00 J
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0376 U	< 0.0352 U	< 0.0372 U	< 0.0378 U	< 0.0778 UJ	< 0.0373 U	< 0.0372 U	< 0.446 U	13.3 J	< 0.0364 U
PCB-066/080	PCB-66/80	ng/g	230	14.0	74.8 JEB	6.07 JEB	3.28 JEB	0.871 JEB	86.2 JEB	58.1 JEB	0.103 JEB	60.4 JEB	117 EB	1.36 JEB
PCB-067	73575-53-8	ng/g	230	14.0	13.4	0.512 J	0.222 J	< 0.0232 U	4.32 J	3.32 J	< 0.0228 U	< 0.273 U	21.1 J	< 0.0223 U
PCB-068	73575-52-7	ng/g	230	14.0	59.6 J	0.611 J	< 0.0270 U	< 0.0274 U	5.82 J	6.47 J	< 0.0270 U	21.8 J	143	< 0.0264 U
PCB-069	60233-24-1	ng/g	230	14.0	17.0	< 0.0265 U	< 0.0280 U	< 0.0285 U	1.58 J	1.87 J	< 0.0280 U	7.63 J	50.1 J	< 0.0274 U
PCB-070	32598-11-1	ng/g	230	14.0	39.1 JEB	4.45 JEB	2.64 JEB	0.870 JEB	87.3 JEB	51.0 J	0.132 JEB	16.4 JEB	43.5 J	1.22 JEB
PCB-071	41464-46-4	ng/g	230	14.0	620 JEB	11.3 EB	1.85 JEB	0.583 JEB	60.8 JEB	72.6 J	0.198 JEB	284 JEB	729 J	3.92 JEB
PCB-072	41464-42-0	ng/g	230	14.0	76.1 J	0.817 J	< 0.0304 U	< 0.0309 U	6.00 J	7.04 J	< 0.0304 U	27.4 J	167	< 0.0297 U
PCB-076	70362-48-0	ng/g	230	14.0	2.47 J	< 0.0353 U	< 0.0373 U	< 0.0379 U	< 0.0780 UJ	< 0.0374 U	< 0.0373 U	< 0.448 U	< 0.363 U	< 0.0365 U
PCB-077	32598-13-3	ng/g	38.0	14.0	30.1 J	1.13 J+	0.476 J+	< 0.0224 U	16.6 J	10.1 J+	< 0.0220 U	20.1 J+	35.7 J+	< 0.0215 U
PCB-078	70362-49-1	ng/g	230	14.0	5.26 J	< 0.0181 U	< 0.0191 U	< 0.0194 U	< 0.0399 UJ	< 0.0192 U	< 0.0191 U	< 0.229 U	6.54 J	< 0.0187 U
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0242 U	< 0.0227 U	< 0.0240 U	< 0.0243 U	1.49 J	0.405 J	< 0.0239 U	< 0.287 U	< 0.233 U	< 0.0234 U
PCB-081	70362-50-4	ng/g	12.0	14.0	3.66 J+	< 0.0354 U	< 0.0374 U	< 0.0380 U	< 0.0782 UJ	0.521 J+	< 0.0374 U	< 0.449 U	< 0.364 U	< 0.0366 U
PCB-082	52663-62-4	ng/g	230	14.0	24.2 J	1.12 J	0.372 J	< 0.0140 U	9.19 J	4.57 J	< 0.0137 U	8.28 J	41.3 J	< 0.0134 U
PCB-083/109	PCB-83/109	ng/g	230	14.0	83.8 J	1.11 J	0.182 J	< 0.0600 U	7.05 J	3.96 J	< 0.0590 U	9.69 J	93.4 J	< 0.0577 U
PCB-084	52663-60-2	ng/g	230	14.0	231 J	3.99 J	0.895 J	0.228 J	26.7 J	13.6	< 0.0237 U	26.5 J	193 J	1.12 J
PCB-085/120	PCB-85/120	ng/g	230	14.0	44.0 J	2.17 J	0.644 J	< 0.0538 U	21.5 J	8.91 J	< 0.0529 U	20.9 J	106	< 0.0518 U
PCB-086/097	PCB-86/97	ng/g	230	14.0	43.9 J	2.16 J	0.804 J	0.149 J	26.3 J	10.4	< 0.0233 U	13.3 J	59.4 J	< 0.0228 U
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	< 0.0151 U	< 0.0142 U	< 0.0150 U	< 0.0152 U	42.9 J	19.7 J	< 0.0150 U	< 0.180 U	< 0.146 U	< 0.0147 U
PCB-088/121	PCB-88/121	ng/g	230	14.0	3.25 J	< 0.0513 U	< 0.0542 U	< 0.0551 U	< 0.113 UJ	< 0.0544 U	< 0.0542 U	< 0.651 U	< 0.527 U	< 0.0530 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	268 J	6.56 J	1.98 J	0.553 J	98.7 J	36.2 J	0.0799 J	63.0 J	437 J	2.57 J
PCB-091	68194-05-8	ng/g	230	14.0	386 J	4.29 J	0.734 J	0.212 J	30.2 J	22.3 J	< 0.0304 U	65.5 J	495 J	2.67 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0051-PLC1	23A-0051-PLC1	23A-0052-PLC1	23A-0052-PLC1	23A-0053-B1C1	23A-0053-B1C1	23A-0053-B1C1	23A-0054-PLC2	23A-0054-PLC2	23A-0054-PLC2
				Sample Name	23A-0051-PLC1-BS	23A-0051-PLC1-CS	23A-0052-PLC1-AS	23A-0052-PLC1-BS	23A-0053-B1C1-AS	23A-0053-B1C1-BS	23A-0053-B1C1-CS	23A-0054-PLC2-AS	23A-0054-PLC2-BS	23A-0054-PLC2-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 2.2 ft	2.2 - 3.4 ft	0 - 0.5 ft	0.5 - 1.9 ft	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-092	52663-61-3	ng/g	230	14.0	303 J	3.28 J	0.504 J	0.178 J	27.4 J	16.7	< 0.0133 U	46.2 J	469 J	2.19 J
PCB-093/095	PCB-93/95	ng/g	230	14.0	740 J	11.1	2.12 J	0.650 J	82.2 J	34.4 J	0.0835 J	53.5 J	737 J	3.84 J
PCB-094	73575-55-0	ng/g	230	14.0	45.7 J	0.386 J	< 0.0448 U	< 0.0455 U	3.45 J	3.34 J	< 0.0448 U	8.46 J	94.9	< 0.0438 U
PCB-096	73575-54-9	ng/g	230	14.0	31.8 J	0.342 J	< 0.0211 U	< 0.0215 U	2.08 J	1.67 J	< 0.0211 U	3.22 J	42.1 J	< 0.0207 U
PCB-098/102	PCB-98/102	ng/g	230	14.0	137 J	1.72 J	0.253 J	< 0.0398 U	8.84 J	7.32 J	< 0.0391 U	19.8 J	169	0.893 J
PCB-099	38380-01-7	ng/g	230	14.0	161 J	4.12 J	1.22 J	0.343 J	54.3 J	23.6 J	0.0619 J	53.5 J	280 J	1.22 J
PCB-100	39485-83-1	ng/g	230	14.0	32.2 J	0.197 J	< 0.0239 U	< 0.0242 U	3.68 J	3.87 J	< 0.0238 U	11.0 J	79.3 J	< 0.0233 U
PCB-103	60145-21-3	ng/g	230	14.0	36.0 J	0.380 J	< 0.0246 U	< 0.0250 U	3.05 J	2.77 J	< 0.0246 U	9.76 J	64.4 J	< 0.0241 U
PCB-104	56558-16-8	ng/g	230	14.0	1.73 J	< 0.0216 U	< 0.0228 U	< 0.0232 U	< 0.0477 UJ	0.335 J	< 0.0228 U	< 0.273 U	4.67 J	< 0.0223 U
PCB-105/127	PCB-105/127	ng/g	120	14.0	30.9 J	1.88 J	0.813 J	0.254 J	31.8 J	11.9	< 0.0386 U	16.4 J	58.5 J	< 0.0378 U
PCB-106/118	PCB-106/118	ng/g	120	14.0	112 J	4.47 J	1.54 J	0.408 J	91.9 J	29.9 J	< 0.0461 U	45.1 J	209 J	1.33 J
PCB-107/108	PCB-107/108	ng/g	230	14.0	22.6 J	0.548 J	0.168 J	< 0.0482 U	9.36 J	3.95 J	< 0.0474 U	6.11 J	47.5 J	< 0.0464 U
PCB-110	38380-03-9	ng/g	230	14.0	1220 JEB	17.3 EB	3.46 JEB	1.00 JEB	138 JEB	58.0 J	0.132 JEB	145 EB	1120 J	6.36 JEB
PCB-111/117	PCB-111/117	ng/g	230	14.0	127 J	2.94 J	0.788 J	< 0.0684 U	< 0.141 UJ	17.0	< 0.0672 U	38.1 J	256 J	1.42 J
PCB-112	74472-36-9	ng/g	230	14.0	9.22 J	0.0878 J	< 0.0235 U	< 0.0238 U	< 0.0491 UJ	0.732 J	< 0.0235 U	< 0.282 U	25.6 J	< 0.0230 U
PCB-113	68194-10-5	ng/g	230	14.0	25.6 J	0.247 J	< 0.0246 U	< 0.0250 U	< 0.0515 UJ	< 0.0247 U	< 0.0246 U	2.13 J	28.5 J	< 0.0241 U
PCB-114	74472-37-0	ng/g	120	14.0	3.89 J	< 0.0193 U	< 0.0205 U	< 0.0208 U	2.67 J	1.24 J	< 0.0204 U	< 0.245 U	10.7 J	< 0.0200 U
PCB-119	56558-17-9	ng/g	230	14.0	80.0 J	0.811 J	< 0.0271 U	< 0.0275 U	7.12 J	5.34 J	< 0.0271 U	15.1 J	92.8 J	< 0.0265 U
PCB-122	76842-07-4	ng/g	230	14.0	< 0.0174 U	< 0.0163 U	< 0.0172 U	< 0.0175 U	< 0.0360 UJ	< 0.0173 U	< 0.0172 U	< 0.207 U	< 0.168 U	< 0.0169 U
PCB-123	65510-44-3	ng/g	120	14.0	9.84 J+	< 0.0151 U	< 0.0160 U	< 0.0162 U	3.10 J	1.04 J+	< 0.0160 U	< 0.192 U	14.6 J+	< 0.0156 U
PCB-124	70424-70-3	ng/g	230	14.0	2.27 J	< 0.0204 U	< 0.0215 U	< 0.0219 U	3.01 J	1.14 J	< 0.0215 U	< 0.258 U	< 0.209 U	< 0.0210 U
PCB-125	74472-39-2	ng/g	230	14.0	< 0.0238 U	< 0.0223 U	< 0.0236 U	< 0.0239 U	< 0.0493 UJ	< 0.0236 U	< 0.0236 U	< 0.283 U	< 0.229 U	< 0.0230 U
PCB-126	57465-28-8	ng/g	0.0360	14.0	8.07 J+	< 0.0317 U	< 0.0335 U	< 0.0340 U	< 0.0701 UJ	< 0.0336 U	< 0.0335 U	< 0.402 U	< 0.326 U	< 0.0328 U
PCB-128	38380-07-3	ng/g	230	14.0	44.3 J	0.790 J	0.177 J	< 0.0240 U	18.0 J	3.51 J	< 0.0236 U	16.4 J	80.1 J	< 0.0231 U
PCB-129	55215-18-4	ng/g	230	14.0	4.83 J	< 0.0246 U	< 0.0260 U	< 0.0264 U	3.96 J	0.895 J	< 0.0260 U	< 0.312 U	12.7 J	< 0.0254 U
PCB-130	52663-66-8	ng/g	230	14.0	32.9 J	0.436 J	< 0.0205 U	< 0.0208 U	6.22 J	1.47 J	< 0.0204 U	6.79 J	51.1 J	< 0.0200 U
PCB-131/142	PCB-131/142	ng/g	230	14.0	2.92 J	< 0.0476 U	< 0.0503 U	< 0.0512 U	< 0.105 UJ	< 0.0505 U	< 0.0503 U	< 0.604 U	< 0.489 U	< 0.0492 U
PCB-132/168	PCB-132/168	ng/g	230	14.0	131 J	1.82 J	0.377 J	< 0.0600 U	29.7 J	7.06 J	< 0.0590 U	26.5 J	172	0.920 J
PCB-133	35694-04-3	ng/g	230	14.0	20.3 J	< 0.0173 U	< 0.0183 U	< 0.0186 U	1.67 J	< 0.0184 U	< 0.0183 U	1.81 J	26.7 J	< 0.0179 U
PCB-134	52704-70-8	ng/g	230	14.0	28.3 J	< 0.0459 U	< 0.0485 U	< 0.0493 U	4.70 J	1.44 J	< 0.0485 U	4.24 J	40.5 J	< 0.0474 U
PCB-135/144	PCB-135/144	ng/g	230	14.0	91.7 J	0.989 J	0.175 J	< 0.0517 U	12.3 J	3.83 J	< 0.0509 U	12.2 J	121	0.672 J
PCB-136	38411-22-2	ng/g	230	14.0	55.9 J	0.673 J	0.118 J	3.57	10.1 J	2.95 J	< 0.0424 U	8.67 J	75.2 J	0.483 J
PCB-137	35694-06-5	ng/g	230	14.0	11.0	< 0.0225 U	< 0.0238 U	< 0.0241 U	6.07 J	1.56 J	< 0.0237 U	5.02 J	31 J	< 0.0232 U
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	270 J	4.04 J	1.03 J	0.226 J	95.4 J	21.3 J	< 0.0760 U	77.6 J	499 J	2.66 J
PCB-139/149	PCB-139/149	ng/g	230	14.0	309 J	3.57 J	0.695 J	0.216 J	56.5 J	15.6	5.09	53.4 J	404 J	2.38 J
PCB-140	59291-64-4	ng/g	230	14.0	6.70 J	< 0.0328 U	< 0.0347 U	< 0.0352 U	< 0.0725 UJ	< 0.0348 U	< 0.0346 U	< 0.416 U	< 0.337 U	< 0.0339 U
PCB-141	52712-04-6	ng/g	230	14.0	16.3	0.386 J	< 0.0243 U	< 0.0247 U	12.6 J	2.55 J	< 0.0243 U	7.79 J	45 J	< 0.0238 U
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0316 U	< 0.0296 U	< 0.0313 U	< 0.0318 U	< 0.0654 UJ	< 0.0314 U	< 0.0312 U	< 0.375 U	< 0.304 U	< 0.0306 U
PCB-145	74472-40-5	ng/g	230	14.0	0.536 J	< 0.0391 U	< 0.0413 U	< 0.0420 U	< 0.0863 UJ	< 0.0414 U	< 0.0413 U	< 0.496 U	< 0.401 U	< 0.0404 U
PCB-146	51908-16-8	ng/g	230	14.0	66.0 J	0.753 J	0.108 J	< 0.0284 U	10.7 J	3.07 J	< 0.0279 U	11.7 J	87 J	0.470 J
PCB-147	68194-13-8	ng/g	230	14.0	31.4 J	0.193 J	< 0.0364 U	< 0.0370 U	4.17 J	2.72 J	< 0.0364 U	7.58 J	77.4 J	0.474 J
PCB-148	74472-41-6	ng/g	230	14.0	4.13 J	< 0.0361 U	< 0.0382 U	< 0.0388 U	< 0.0798 UJ	< 0.0383 U	< 0.0381 U	< 0.458 U	5.29 J	< 0.0373 U
PCB-150	68194-08-1	ng/g	230	14.0	3.12 J	< 0.0365 U	< 0.0386 U	< 0.0392 U	< 0.0806 UJ	0.275 J	< 0.0385 U	< 0.463 U	6.67 J	< 0.0377 U
PCB-151	52663-63-5	ng/g	230	14.0	96.1 J	1.03 J	0.172 J	< 0.0284 U	12.9 J	4.96 J	< 0.0279 U	14.8 J	156	0.788 J
PCB-152	68194-09-2	ng/g	230	14.0	3.48 J	< 0.0427 U	< 0.0451 U	< 0.0458 U	< 0.0943 UJ	0.393 J	< 0.0451 U	< 0.541 U	8.23 J	< 0.0441 U
PCB-153	35065-27-1	ng/g	230	14.0	150 J	2.36 J	0.637 J	0.160 J	61.8 J	14.2	< 0.0245 U	43.4 J	286 J	1.61 J
PCB-154	60145-22-4	ng/g	230	14.0	24.5 J	0.176 J	< 0.0269 U	< 0.0273 U	1.79 J	1.06 J	< 0.0269 U	3.03 J	34.3 J	< 0.0263 U
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0234 U	< 0.0219 U	< 0.0232 U	< 0.0235 U	< 0.0485 UJ	< 0.0233 U	< 0.0232 U	< 0.278 U	< 0.225 U	< 0.0227 U
PCB-156	38380-08-4	ng/g	120	14.0	17.4	0.286 J	0.0822 J	< 0.0198 U	8.82 J	2.15 J	< 0.0195 U	7.53 J	43.8 J	< 0.0190 U
PCB-157	69782-90-7	ng/g	120	14.0	6.22 J+	< 0.0256 U	< 0.0271 U	< 0.0275 U	3.10 J	0.708 J+	< 0.0271 U	< 0.325 U	13 J+	< 0.0265 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0051-PLC1	23A-0051-PLC1	23A-0052-PLC1	23A-0052-PLC1	23A-0053-B1C1	23A-0053-B1C1	23A-0053-B1C1	23A-0054-PLC2	23A-0054-PLC2	23A-0054-PLC2
				Sample Name	23A-0051-PLC1-BS	23A-0051-PLC1-CS	23A-0052-PLC1-AS	23A-0052-PLC1-BS	23A-0053-B1C1-AS	23A-0053-B1C1-BS	23A-0053-B1C1-CS	23A-0054-PLC2-AS	23A-0054-PLC2-BS	23A-0054-PLC2-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 2.2 ft	2.2 - 3.4 ft	0 - 0.5 ft	0.5 - 1.9 ft	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-158/160	PCB-158/160	ng/g	230	14.0	19.6	0.352 J	0.0884 J	< 0.0604 U	8.76 J	2.06 J	< 0.0594 U	7.98 J	45.4 J	< 0.0581 U
PCB-159	39635-35-3	ng/g	230	14.0	3.45 J	< 0.0354 U	< 0.0374 U	< 0.0380 U	< 0.0782 UJ	< 0.0375 U	< 0.0374 U	< 0.449 U	5.95 J	< 0.0366 U
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0353 U	< 0.0331 U	< 0.0350 U	< 0.0355 U	< 0.0731 UJ	< 0.0351 U	< 0.0349 U	< 0.420 U	< 0.340 U	< 0.0342 U
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0278 U	< 0.0261 U	< 0.0276 U	< 0.0280 U	< 0.0576 UJ	< 0.0277 U	< 0.0275 U	< 0.331 U	< 0.268 U	< 0.0270 U
PCB-165	74472-46-1	ng/g	230	14.0	4.01 J	< 0.0357 U	< 0.0378 U	< 0.0384 U	< 0.0790 UJ	< 0.0379 U	< 0.0378 U	< 0.453 U	< 0.367 U	< 0.0370 U
PCB-166	41411-63-6	ng/g	230	14.0	1.20 J	< 0.0308 U	< 0.0325 U	< 0.0330 U	< 0.0680 UJ	< 0.0326 U	< 0.0325 U	< 0.390 U	< 0.316 U	< 0.0318 U
PCB-167	52663-72-6	ng/g	120	14.0	6.77 J+	< 0.0237 U	< 0.0250 U	< 0.0254 U	3.88 J	0.988 J+	< 0.0250 U	3.20 J	16.4 J	< 0.0245 U
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0278 U	< 0.0261 U	< 0.0276 U	< 0.0280 U	< 0.0576 UJ	< 0.0277 U	< 0.0275 U	< 0.331 U	< 0.268 U	< 0.0270 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	73.1 J	1.01 J	0.227 J	< 0.0461 U	15.0 J	5.33 J	< 0.0453 U	16.6 J	142	0.487 J
PCB-171	52663-71-5	ng/g	230	14.0	20.9 J	0.247 J	< 0.0360 U	< 0.0366 U	3.90 J	1.30 J	< 0.0360 U	4.29 J	37 J	< 0.0352 U
PCB-172/192	PCB-172/192	ng/g	230	14.0	11.1	< 0.0566 U	< 0.0598 U	< 0.0608 U	1.85 J	0.761 J	< 0.0598 U	2.38 J	20.7 J	< 0.0585 U
PCB-173	68194-16-1	ng/g	230	14.0	1.23 J	< 0.0381 U	< 0.0403 U	< 0.0410 U	< 0.0843 UJ	< 0.0404 U	< 0.0403 U	< 0.484 U	< 0.392 U	< 0.0394 U
PCB-174	38411-25-5	ng/g	230	14.0	51.6 J	0.779 J	0.171 J	< 0.0514 U	11.3 J	3.79 J	< 0.0505 U	11.5 J	105	0.340 J
PCB-175	40186-70-7	ng/g	230	14.0	3.56 J	< 0.0294 U	< 0.0311 U	< 0.0316 U	< 0.0650 UJ	0.228 J	< 0.0310 U	< 0.373 U	6.14 J	< 0.0304 U
PCB-176	52663-65-7	ng/g	230	14.0	9.77 J	0.110 J	< 0.0290 U	< 0.0295 U	1.16 J	0.499 J	< 0.0290 U	1.56 J	16 J	< 0.0284 U
PCB-177	52663-70-4	ng/g	230	14.0	51.4 J	0.639 J	0.102 J	< 0.0368 U	6.96 J	2.58 J	< 0.0362 U	8.59 J	80.3 J	0.418 J
PCB-178	52663-67-9	ng/g	230	14.0	24.8 J	0.267 J	< 0.0455 U	< 0.0462 U	2.66 J	1.22 J	< 0.0454 U	3.36 J	39.5 J	< 0.0445 U
PCB-179	52663-64-6	ng/g	230	14.0	35.3 J	0.455 J	0.0630 J	< 0.0244 U	4.21 J	1.70 J	< 0.0240 U	5.35 J	58.5 J	0.292 J
PCB-180	35065-29-3	ng/g	230	14.0	128 J	1.80 J	0.425 J	0.110 J	25.7 J	9.26 J	0.0413 J	28.8 J	261 J	1.36 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0278 U	< 0.0261 U	< 0.0276 U	< 0.0280 U	< 0.0576 UJ	< 0.0277 U	< 0.0275 U	< 0.331 U	< 0.268 U	< 0.0270 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	106 J	1.23 J	0.232 J	6.63	13.6 J	5.72 J	< 0.0724 U	17.9 J	176	0.948 J
PCB-183	52663-69-1	ng/g	230	14.0	35.1 J	0.487 J	0.0936 J	< 0.0366 U	6.13 J	2.40 J	< 0.0360 U	7.41 J	66.7 J	0.326 J
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0263 U	< 0.0247 U	< 0.0261 U	< 0.0265 U	< 0.0546 UJ	< 0.0262 U	< 0.0261 U	< 0.313 U	< 0.254 U	< 0.0255 U
PCB-185	52712-05-7	ng/g	230	14.0	5.64 J	< 0.0342 U	< 0.0361 U	< 0.0367 U	< 0.0755 UJ	0.518 J	< 0.0361 U	< 0.434 U	12.7 J	< 0.0353 U
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0329 U	< 0.0309 U	< 0.0326 U	< 0.0331 U	< 0.0682 UJ	< 0.0327 U	< 0.0326 U	< 0.392 U	< 0.317 U	< 0.0319 U
PCB-188	74487-85-7	ng/g	230	14.0	0.473 J	< 0.0283 U	< 0.0299 U	< 0.0304 U	< 0.0625 UJ	< 0.0300 U	< 0.0299 U	< 0.359 U	1.25 J	< 0.0292 U
PCB-189	39635-31-9	ng/g	130	14.0	3.71 J	< 0.0287 U	< 0.0304 U	< 0.0309 U	< 0.0635 UJ	0.276 J	< 0.0304 U	< 0.365 U	7.6 J	< 0.0297 U
PCB-191	74472-50-7	ng/g	230	14.0	2.35 J	< 0.0260 U	< 0.0275 U	< 0.0279 U	< 0.0574 UJ	< 0.0276 U	< 0.0274 U	< 0.330 U	4.35 J	< 0.0269 U
PCB-193	69782-91-8	ng/g	230	14.0	7.14 J	< 0.0328 U	< 0.0347 U	< 0.0352 U	1.28 J	0.535 J	< 0.0346 U	1.23 J	15.1 J	< 0.0339 U
PCB-194	35694-08-7	ng/g	230	14.0	58.6 J	0.751 J	< 0.0438 U	< 0.0445 UJ	7.48 J	3.39 J	< 0.0438 UJ	9.89 J	108	< 0.0429 UJ
PCB-195	52663-78-2	ng/g	230	14.0	19.8 J	< 0.0734 U	< 0.0776 U	< 0.0789 UJ	2.79 J	1.30 J	< 0.0776 UJ	< 0.931 U	37.5 J	< 0.0759 UJ
PCB-196/203	PCB-196/203	ng/g	230	14.0	56.3 J	0.719 J	< 0.0736 U	< 0.0748 UJ	8.39 J	3.45 J	< 0.0736 UJ	12.5 J	108	0.546 J
PCB-197	33091-17-7	ng/g	230	14.0	1.94 J	< 0.0310 U	< 0.0328 U	< 0.0333 U	< 0.0686 UJ	< 0.0329 U	< 0.0328 U	< 0.394 U	3.72 J	< 0.0321 U
PCB-198	68194-17-2	ng/g	230	14.0	2.74 J	< 0.0504 U	< 0.0533 U	< 0.0541 UJ	< 0.111 UJ	< 0.0534 UJ	< 0.0532 UJ	< 0.639 U	< 0.518 U	< 0.0521 UJ
PCB-199	52663-75-9	ng/g	230	14.0	47.6 J	0.693 J	< 0.0512 U	< 0.0520 UJ	6.66 J	3.02 J	< 0.0512 UJ	10.5 J	90.6 J	0.360 J
PCB-200	52663-73-7	ng/g	230	14.0	5.77 J	< 0.0247 U	< 0.0261 U	< 0.0265 U	< 0.0546 UJ	0.476 J	< 0.0261 U	< 0.313 U	11.3 J	< 0.0255 U
PCB-201	40186-71-8	ng/g	230	14.0	5.80 J	< 0.0195 U	< 0.0206 U	< 0.0210 U	0.737 J	0.349 J	< 0.0206 U	< 0.248 U	11.7 J	< 0.0202 U
PCB-202	2136-99-4	ng/g	230	14.0	8.58 J	< 0.0334 U	< 0.0353 U	< 0.0358 U	1.24 J	0.624 J	< 0.0352 U	< 0.423 U	16.8 J	< 0.0345 U
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0436 U	< 0.0408 U	< 0.0431 U	< 0.0438 U	< 0.0902 UJ	< 0.0433 U	< 0.0431 U	< 0.518 U	< 0.419 U	< 0.0422 U
PCB-205	74472-53-0	ng/g	230	14.0	2.63 J	< 0.0289 U	< 0.0306 U	< 0.0311 U	< 0.0639 UJ	< 0.0307 U	< 0.0306 U	< 0.367 U	< 0.297 U	< 0.0299 U
PCB-206	40186-72-9	ng/g	230	14.0	24.1 J	0.328 J	< 0.0293 U	< 0.0298 U	3.94 J	1.38 J	< 0.0293 U	6.26 J	42.3 J	< 0.0287 U
PCB-207	52663-79-3	ng/g	230	14.0	2.75 J	< 0.0367 U	< 0.0388 U	< 0.0394 U	< 0.0810 UJ	0.211 J	< 0.0387 U	< 0.465 U	4.26 J	< 0.0379 U
PCB-208	52663-77-1	ng/g	230	14.0	5.93 J	< 0.0367 U	< 0.0388 U	< 0.0394 U	1.36 J	0.396 J	< 0.0387 U	< 0.465 U	10.8 J	< 0.0379 U
PCB-209	2051-24-3	ng/g	230	14.0	9.44 J	0.274 J	< 0.0223 U	< 0.0227 U	2.66 J	0.540 J	< 0.0223 U	6.46 J	10.4 J	< 0.0218 U
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	9.44	0.274	< 0.0223 U	< 0.0227 U	2.66	0.540	< 0.0223 U	6.46	10.4	< 0.0218 U
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	571	7.02	1.31	6.74	93.7	36.1	0.0413	109	1050	4.17
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	1460	17.9	3.66	4.17	373	94.7	5.09	320	2340	10.5
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	210	2.16	< 0.0776 U	< 0.0789 U	27.3	12.6	< 0.0776 U	32.9	388	0.906
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	66900	646	110	48.9	5550	8930	47.5	44700	321000	1530
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	4220	71.2	16.5	3.98	734	344	0.357	681	5230	23.6
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	15400	107	11.8	6.38	1010	3210	19.4	18200	156000	707
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	4340	13.4	2.72	1.96	223	833	11.2	7730	81400	421
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	32.8	0.328	< 0.0388 U	< 0.0394 U	5.30	1.99	< 0.0387 U	6.26	57.4	< 0.0379 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	13000	189	40.0	11.8	1420	1630	3.21	4600	20800	97.7
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	27600	238	33.6	13.9	1650	2770	8.18	13000	54100	264

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0051-PLC1	23A-0051-PLC1	23A-0052-PLC1	23A-0052-PLC1	23A-0053-B1C1	23A-0053-B1C1	23A-0053-B1C1	23A-0054-PLC2	23A-0054-PLC2	23A-0054-PLC2
				Sample Name	23A-0051-PLC1-BS	23A-0051-PLC1-CS	23A-0052-PLC1-AS	23A-0052-PLC1-BS	23A-0053-B1C1-AS	23A-0053-B1C1-BS	23A-0053-B1C1-CS	23A-0054-PLC2-AS	23A-0054-PLC2-BS	23A-0054-PLC2-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 2.2 ft	2.2 - 3.4 ft	0 - 0.5 ft	0.5 - 1.9 ft	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	8000	7800	3800	7600	5200 EB	5200	4400	8300	5300	10000 EB
Calcium	7440-70-2	mg/kg			2100	1700	1100	1200	4500 EB	1700	1100	3700	1500	1800 EB
Iron	7439-89-6	mg/kg	5500	20000	15000	17000	10000	13000	18000 EB	14000	11000	19000	11000	19000 EB
Magnesium	7439-95-4	mg/kg			2600	2400	1600	2600	1600 EB	2900	1700	2600	1700	3800 EB
Potassium	7440-09-7	mg/kg			660 J	500 J	340 J	850	380	270 J	490	480 J	380 J	1100
Sodium	7440-23-5	mg/kg			120 J	97 J	71 J	130 J	540	130 J	77 J	480 J	150 J	140 J
Antimony	7440-36-0	mg/kg	3.1	2	< 1.5 U	< 0.94 U	< 0.91 U	< 1.0 U	1.2 J	< 0.87 U	< 0.81 U	< 2.3 U	< 1.1 U	< 1.0 UJ
Arsenic	7440-38-2	mg/kg	0.68	9.8	4.0 J	2.7 J	1.2	1.3	5.2	1.7	0.81	6.5 J	3.5	1.4
Barium	7440-39-3	mg/kg	1500	20	60 J	58 J	18	41	84	22	22	99	49	69
Beryllium	7440-41-7	mg/kg	16		0.37 J	0.45 J	0.22 J	0.55 J+	0.43 J	< 0.44 U	< 0.40 U	0.58 J	< 0.52 U	0.59
Cadmium	7440-43-9	mg/kg	0.71	1	0.53 J	0.11 J	< 0.46 U	< 0.50 U	1.4	0.14 J	< 0.40 U	2.5	1.0	< 0.51 U
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	45	12	8.9	20	33 EB	8.5 EB	9.6 EB	79 JEB	39 EB	21 EB
Cobalt	7440-48-4	mg/kg	2.3	50	6.5	7.0	4.8	7.3	11	3.4	4.4	8.2 J	4.3	8.9
Copper	7440-50-8	mg/kg	310	31.6	48	15	10	14	50	15	8.3	95 J	47	18
Lead	7439-92-1	mg/kg	200	35.8	110	11	5.9	6.5	96	40	3.4	260	100	7.8
Manganese	7439-96-5	mg/kg	180	460	190	550	130	160	550 JEB	120 EB	120 EB	420 JEB	120 EB	180 JEB
Nickel	7440-02-0	mg/kg	140	22.7	12	10	7.6	15	10	7.8	7.8	15 J	9.6	15
Selenium	7782-49-2	mg/kg	39	11	< 3.8 U	< 2.3 U	< 2.3 U	< 2.5 U	< 2.4 U	< 2.2 U	< 2.0 U	< 5.8 U	< 2.6 U	< 2.6 U
Silver	7440-22-4	mg/kg	39	1	0.21 J	< 0.47 U	< 0.46 U	< 0.50 U	0.25 J	0.057 J	< 0.40 U	0.75 J	0.36 J	< 0.51 U
Thallium	7440-28-0	mg/kg	0.078		< 0.76 U	< 0.47 U	< 0.46 U	< 0.50 U	< 0.49 U	< 0.44 U	< 0.40 U	< 1.2 U	< 0.52 U	0.097 J
Vanadium	7440-62-2	mg/kg	39		26	24	19	27	21	8.4	15	30	18	29
Zinc	7440-66-6	mg/kg	2300	121	120	29	47 J	35	250	68	18	300 J	120	42
Mercury	7439-97-6	mg/kg	2.3	0.18	0.81	0.027 J	< 0.10 U	0.075 J	0.51	0.037 J	< 0.092 U	1.8	1.2	< 0.11 U
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.78 U	< 0.55 U	< 0.54 U	< 0.57 U	< 0.48 U	< 0.64 U	< 0.53 U	< 1.4 U	< 0.67 U	< 0.59 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 7.6 UJ	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 UJ	< 15 U	< 6.7 UJ	< 5.2 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 UJ	< 15 U	< 6.7 U	< 5.2 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 7.6 UJ	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 UJ	< 15 U	< 6.7 UJ	< 5.2 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 7.6 UJ	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 UJ	< 15 U	< 6.7 UJ	< 5.2 U
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 UJ	< 15 U	< 6.7 U	< 5.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 7.6 UJ	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 UJ	< 15 U	< 6.7 UJ	< 5.2 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 7.6 UJ	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 UJ	< 15 U	< 6.7 UJ	< 5.2 U
2-HEXANONE	591-78-6	ug/kg	20000	45	< 15 U	< 11 U	-	< 12 U	< 46 UJ	< 11 U	< 12 U	< 30 U	< 13 U	< 10 U
ACETONE	67-64-1	ug/kg	7000000	65	62	< 11 U	-	8.5 J	460 J	13 J+	< 12 U	540 EB	180 EB	14 J+
Benzene	71-43-2	ug/kg	1200	10	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 UJ	< 15 U	< 6.7 U	< 5.2 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0051-PLC1	23A-0051-PLC1	23A-0052-PLC1	23A-0052-PLC1	23A-0053-B1C1	23A-0053-B1C1	23A-0053-B1C1	23A-0054-PLC2	23A-0054-PLC2	23A-0054-PLC2
				Sample Name	23A-0051-PLC1-BS	23A-0051-PLC1-CS	23A-0052-PLC1-AS	23A-0052-PLC1-BS	23A-0053-B1C1-AS	23A-0053-B1C1-BS	23A-0053-B1C1-CS	23A-0054-PLC2-AS	23A-0054-PLC2-BS	23A-0054-PLC2-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 2.2 ft	2.2 - 3.4 ft	0 - 0.5 ft	0.5 - 1.9 ft	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Chlorobenzene	108-90-7	ug/kg	28000	30	< 7.6 UJ	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 UJ	< 15 U	< 6.7 UJ	< 5.2 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Chloroform	67-66-3	ug/kg	320	87	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Cyclohexane	110-82-7	ug/kg	650000		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 UJ	< 15 U	< 6.7 U	< 5.2 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Ethylbenzene	100-41-4	ug/kg	5800	290	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	15	< 11 U	-	< 12 U	140 J	< 11 U	< 12 U	160 EB	51 EB	< 10 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 15 U	< 11 U	-	< 12 U	< 46 UJ	< 11 U	< 12 U	< 30 U	< 13 U	< 10 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 UJ	< 15 U	< 6.7 U	< 5.2 U
Methylene Chloride	75-09-2	ug/kg	35000	18	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Styrene	100-42-5	ug/kg	600000	126	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Toluene	108-88-3	ug/kg	490000	10	< 7.6 U	< 5.5 U	-	< 6.0 U	2.7 J	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
Vinyl Chloride	75-01-4	ug/kg	59	482	< 7.6 U	< 5.5 U	-	< 6.0 U	< 23 UJ	< 5.4 U	< 6.2 U	< 15 U	< 6.7 U	< 5.2 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	< 220 U	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 UJ	< 210 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 U	< 400 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	48 J	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 UJ	< 400 U
2-NITROANILINE	88-74-4	ug/kg	63000		< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 U	< 400 U

Table 11
Sediment Analytical Results
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				Location	23A-0051-PLC1	23A-0051-PLC1	23A-0052-PLC1	23A-0052-PLC1	23A-0053-B1C1	23A-0053-B1C1	23A-0053-B1C1	23A-0054-PLC2	23A-0054-PLC2	23A-0054-PLC2
				Sample Name	23A-0051-PLC1-BS	23A-0051-PLC1-CS	23A-0052-PLC1-AS	23A-0052-PLC1-BS	23A-0053-B1C1-AS	23A-0053-B1C1-BS	23A-0053-B1C1-CS	23A-0054-PLC2-AS	23A-0054-PLC2-BS	23A-0054-PLC2-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 2.2 ft	2.2 - 3.4 ft	0 - 0.5 ft	0.5 - 1.9 ft	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 U	< 400 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 U	< 400 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 270 U	< 190 U	< 190 U	< 190 UJ	< 700 UJ	< 220 UJ	< 190 UJ	< 490 U	< 230 UJ	< 210 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 U	< 400 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 530 U	< 370 UJ	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 UJ	< 400 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 U	< 400 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 530 U	< 370 UJ	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 U	< 400 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	370	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	< 220 U	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		130 J	< 370 U	< 380 U	< 380 U	500 J	340 J	< 360 U	< 950 U	61 J	< 400 U
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	570	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 U	< 400 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 U	< 400 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	1500	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	210 J	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	1400	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	< 220 U	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	530	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 U	< 400 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 U	< 400 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	96 J	< 190 U	< 190 U	< 190 U	410 J	150 J	< 190 U	310 J	190 J	< 210 U
Caprolactam	105-60-2	ug/kg	3100000		< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 U	< 400 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	150 J	< 360 U	< 950 U	< 450 U	< 400 U
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	1200	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	160 J	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	170 J	< 190 U	< 490 U	< 230 U	< 210 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 UJ	< 360 U	< 950 U	< 450 U	< 400 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	-	-	3200	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	330	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	< 430 U	< 360 U	< 950 U	< 450 U	< 400 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	180 J	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	140 J	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 270 U	< 190 U	< 190 U	< 190 U	< 700 UJ	< 220 U	< 190 U	< 490 U	< 230 U	< 210 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 530 U	< 370 U	-	< 380 U	-	< 430 U	< 360 U	-	< 450 U	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	-	-	2600	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	175	< 530 U	< 370 U	< 380 U	< 380 U	< 1400 UJ	98 J	< 360 U	< 950 U	< 450 U	< 400 U
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	1500	-	-	-	-

Table 11
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				Location	23A-0051-PLC1	23A-0051-PLC1	23A-0052-PLC1	23A-0052-PLC1	23A-0053-B1C1	23A-0053-B1C1	23A-0053-B1C1	23A-0054-PLC2	23A-0054-PLC2	23A-0054-PLC2
				Sample Name	23A-0051-PLC1-BS	23A-0051-PLC1-CS	23A-0052-PLC1-AS	23A-0052-PLC1-BS	23A-0053-B1C1-AS	23A-0053-B1C1-BS	23A-0053-B1C1-CS	23A-0054-PLC2-AS	23A-0054-PLC2-BS	23A-0054-PLC2-CS
				Sample Date	6/26/2023	6/26/2023	6/26/2023	6/26/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023	6/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 2.2 ft	2.2 - 3.4 ft	0 - 0.5 ft	0.5 - 1.9 ft	0 - 0.5 ft	0.5 - 3.2 ft	3.2 - 5.7 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 11 UJ	< 7.5 U	< 7.5 U	< 7.7 U	< 27 UJ	< 8.6 U	< 7.2 U	< 19 U	< 9.2 U	< 8.1 U
1-Methylnaphthalene	90-12-0	ug/kg	18	141	< 5.3 U	< 3.7 U	< 3.8 U	< 3.8 U	< 14 UJ	-	< 3.6 U	< 9.5 U	1.5 J	< 4.0 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	1.3 JEB	< 3.7 U	< 3.8 U	< 3.8 U	4.4 J	-	< 3.6 U	< 9.5 U	1.4 J	< 4.0 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	1.6 J	< 3.7 UJ	< 3.8 U	< 3.8 U	< 14 UJ	-	< 3.6 U	3.4 J	2.6 J	< 4.0 U
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	2.0 J	1.9 J	1.5 J	0.80 J	< 14 UJ	-	< 3.6 U	4.7 J	2.9 J	< 4.0 U
ANTHRACENE	120-12-7	ug/kg	1800000	57	1.9 J	1.3 J	1.2 J	< 3.8 U	2.8 J	-	< 3.6 U	8.2 J	2.5 J-	0.94 J
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	14 EB	8.1 EB	4.5 EB	1.9 JEB	18 J	-	< 3.6 U	55	20	3.2 J
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	2.7 J	5.7	4.6	1.6 J	9.6 J	-	< 3.6 U	48	< 4.5 U	2.9 J
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	18 EB	7.2 EB	5.9 EB	1.8 JEB	33 J	-	< 3.6 U	66	22	3.4 J
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	< 5.3 U	3.7	3.0 J	0.76 J	< 14 UJ	-	< 3.6 U	32	< 4.5 U	1.9 J
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	8.3 EB	2.9 JEB	2.0 JEB	< 3.8 U	12 J	-	< 3.6 U	25	11	1.4 J
CHRYSENE	218-01-9	ug/kg	110000	166	16 EB	6.6 EB	4.4 EB	1.4 JEB	26 J	-	< 3.6 U	59	20	3.7 J
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	2.4 JEB	0.85 JEB	< 3.8 U	< 3.8 U	3.7 J	-	< 3.6 U	8.4 J	3.1 J	< 4.0 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	33 EB	13 EB	9.4 EB	3.0 JEB	50 J	-	< 3.6 U	120	39 J-	6.4
FLUORENE	86-73-7	ug/kg	240000	77	1.4 JEB	< 3.7 U	< 3.8 U	< 3.8 U	< 14 UJ	-	< 3.6 U	3.8 J	1.9 J	< 4.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	6.0	3.2 J	2.5 J	< 3.8 U	12 J	-	< 3.6 U	28	2.9 J	1.5 J
Naphthalene	91-20-3	ug/kg	2000	176	7.7 EB	0.85 JEB	< 3.8 U	< 3.8 U	54 JEB	-	< 3.6 U	4.9 JEB	4.2 JEB	< 4.0 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	< 7.6 U	-	< 28 UJ	-	-	< 19 U	-	< 8.2 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	15	5.0	3.8	2.2 J	15 J	-	< 3.6 U	41	18 J-	3.3 J
PYRENE	129-00-0	ug/kg	180000	195	35 J	13 J	9.0	2.4 J	35 J	-	< 3.6 R	96 J	14 J	6.4
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			29000	1000	-	540	160000 J	12000	380	96000	47000	740
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			-	-	-	-	41 J	-	-	31 J	-	< 2.3 U
Cadmium	7440-43-9	umol/g			-	-	-	-	0.015 J	-	-	0.027 J	-	0.00036 J
Copper	7440-50-8	umol/g			-	-	-	-	0.63 J	-	-	1.1 J	-	0.13
Lead	7439-92-1	umol/g			-	-	-	-	0.54 J	-	-	1.6 J	-	0.023 J
Nickel	7440-02-0	umol/g			-	-	-	-	1.1 J	-	-	0.17 J	-	0.039
Silver	7440-22-4	umol/g			-	-	-	-	0.00093 J	-	-	0.0014 J	-	0.00018
Zinc	7440-66-6	umol/g			-	-	-	-	3.9 J	-	-	4.0 J	-	0.12
Mercury	7439-97-6	umol/g			-	-	-	-	< 0.00013 UJ	-	-	< 0.000074 R	-	< 0.000029 R

Table 11
Sediment Analytical Results
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				Location	23A-0055-B1C1	23A-0055-B1C1	23A-0055-B1C1	23A-0056-PLC1	23A-0056-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0058-PLC1	23A-0058-PLC2
				Sample Name	23A-0055-B1C1-AS	23A-0055-B1C1-BS	23A-0055-B1C1-CS	23A-0056-PLC1-AS	23A-0056-PLC1-BS	23A-0057-PLC1-AS	23A-0057-PLC1-BS	23A-0057-PLC1-CS	23A-0058-PLC1-AS	23A-0058-PLC2-BS
				Sample Date	6/25/2023	6/25/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.1 ft	2.1 - 3.4 ft	0 - 0.5 ft	0.5 - 2 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.5 ft	0 - 0.5 ft	0.5 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 1.9 U	< 2.1 U	< 2.0 U	< 3.4 U	< 1.8 U	< 5.4 U	< 2.1 U	< 1.9 U	< 2.0 U	< 1.9 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 1.9 U	< 2.1 U	< 2.0 U	< 3.4 U	< 1.8 U	< 5.4 U	< 2.1 U	< 1.9 U	< 2.0 U	< 1.9 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 1.9 U	< 2.1 U	< 2.0 U	< 3.4 U	< 1.8 U	< 5.4 U	< 2.1 U	< 1.9 U	< 2.0 U	< 1.9 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 1.9 U	< 2.1 U	< 2.0 U	< 3.4 U	< 1.8 U	< 5.4 U	< 2.1 U	< 1.9 U	< 2.0 U	< 1.9 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 3.7 U	< 4.1 U	< 3.9 U	< 6.7 U	< 3.5 U	< 11 U	< 4.0 U	< 3.7 U	< 3.8 U	< 3.6 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		< 1.9 U	< 2.1 U	< 2.0 U	< 3.4 U	< 1.8 U	< 5.4 U	0.29 J	< 1.9 U	0.45 J	0.39 J
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		1.8 J	< 2.1 U	< 2.0 U	9.6 J	1.6 J	< 5.4 U	0.83 J	< 1.9 U	5.2 J	3.5 J
DIELDRIN	60-57-1	ug/kg	34	1.9	< 3.7 U	< 4.1 U	< 3.9 U	< 6.7 U	< 3.5 U	< 11 U	< 4.0 U	< 3.7 U	0.45 J	0.42 J
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 3.7 U	< 4.1 U	< 3.9 U	1.5 J	< 3.5 U	< 11 U	< 4.0 U	< 3.7 U	< 3.8 U	< 3.6 U
ENDRIN	72-20-8	ug/kg	1900	2.22	< 3.7 U	< 4.1 U	< 3.9 U	< 6.7 U	0.22 J	< 11 U	0.45 J	< 3.7 U	< 3.8 U	0.96 J
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 3.7 U	< 4.1 U	< 3.9 U	< 6.7 U	< 3.5 U	< 11 U	< 4.0 U	< 3.7 U	< 3.8 U	< 3.6 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 3.7 U	< 4.1 U	< 3.9 U	< 6.7 U	< 3.5 U	< 11 U	< 4.0 U	< 3.7 U	< 3.8 U	< 3.6 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	1.1 J	< 2.1 U	< 2.0 U	18 J	2.9 J	< 5.4 U	1.5 J	< 1.9 U	1.9 J	1.3 J
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 1.9 U	< 2.1 U	< 2.0 U	< 3.4 U	< 1.8 U	< 5.4 U	< 2.1 U	< 1.9 U	< 2.0 U	< 1.9 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	< 1.9 U	< 2.1 U	< 2.0 U	1.5 J	< 1.8 U	< 5.4 U	0.37 J	< 1.9 U	< 2.0 U	1.4 J
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 19 U	< 21 U	< 20 U	< 34 U	< 18 U	< 54 U	< 21 U	< 19 U	< 20 U	< 19 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	< 3.7 U	< 4.1 U	< 3.9 U	< 6.7 U	< 3.5 U	< 11 U	< 4.0 U	< 3.7 U	< 3.8 U	< 3.6 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 3.7 U	< 4.1 U	< 3.9 U	0.76 J	< 3.5 U	< 11 U	< 4.0 U	< 3.7 U	< 3.8 U	< 3.6 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	1.2 J	< 4.1 U	< 3.9 U	< 6.7 U	0.57 J	0.71 J	0.70 J	< 3.7 U	3.2 J	1.9 J
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		< 1.9 U	< 2.1 U	< 2.0 U	2.6 J+	0.26 J	< 5.4 U	0.38 J	< 1.9 U	2.3 J	1.2 J
Grain Size														
%CLAY	%CLAY	%			16.1	21.1	30.2	8.2	3.1	47.3	14.3	15.9	-	-
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			10.8	4.2	0	14	9.1	1.1	12.1	9.7	-	-
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			22.2	13.7	3.2	18.2	14.5	28.1	20.1	15.5	-	-
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			14	7.3	1	15	16.6	4.4	14.1	12.4	-	-
Gravel	GRAVEL	%			23.5	20.8	0	8.9	21.3	0.8	30.6	32.2	-	-
Hydrometer, Reading 1, Percent Passing	HYD01	%			23.7	32.7	42.2	15	7.7	71	18	23.3	-	-
Hydrometer, Reading 2, Percent Passing	HYD02	%			20.7	31	40.5	12.7	6.6	64.9	16.1	21.8	-	-
Hydrometer, Reading 3, Percent Passing	HYD03	%			19.2	27.7	38.8	12.7	5.4	58.8	16.1	20.3	-	-
Hydrometer, Reading 4, Percent Passing	HYD04	%			17.6	24.4	35.4	10.5	4.3	52.7	16.1	17.3	-	-
Hydrometer, Reading 5, Percent Passing	HYD05	%			16.1	21.1	30.2	8.2	3.1	52.7	14.3	15.9	-	-
Hydrometer, Reading 6, Percent Passing	HYD06	%			13.1	16.1	21.7	6	3.1	46.6	12.4	12.9	-	-
Hydrometer, Reading 7, Percent Passing	HYD07	%			11.6	14.4	18.3	1.5	0.8	40.6	10.6	9.9	-	-
Sand	308075-07-2	%			47	25.2	4.2	47.2	40.2	33.6	46.3	37.6	-	-
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			65.7	75	100	77.1	69.6	98.1	57.3	58.1	-	-
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			51.7	67.7	99	62.1	53	93.7	43.2	45.7	-	-
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			39.4	60.7	97.9	54.3	43	86.9	30.9	37.3	-	-
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			59.6	71.9	99.5	70.8	62.9	96	51.8	51.9	-	-
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			44	63.6	98.4	57	45.5	91.2	35.4	40.5	-	-
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			36.5	58.9	97.5	52.1	41.7	83.6	28.4	35.4	-	-
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			29.5	54	95.8	43.9	38.5	65.6	23.1	30.2	-	-
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			76.5	79.2	100	91.1	78.7	99.2	69.4	67.8	-	-
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			85.5	90.5	100	100	87.3	99.5	89	83.9	-	-
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	100	100	100	100	100	100	-	-
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	100	100	100	100	100	100	-	-
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	100	100	100	100	100	100	-	-
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	100	100	100	100	100	100	-	-
SILT	445	%			13.4	32.9	65.6	35.7	35.4	18.3	8.8	14.3	-	-

Table 11
Sediment Analytical Results
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				Location	23A-0055-B1C1	23A-0055-B1C1	23A-0055-B1C1	23A-0056-PLC1	23A-0056-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0058-PLC1	23A-0058-PLC2
				Sample Name	23A-0055-B1C1-AS	23A-0055-B1C1-BS	23A-0055-B1C1-CS	23A-0056-PLC1-AS	23A-0056-PLC1-BS	23A-0057-PLC1-AS	23A-0057-PLC1-BS	23A-0057-PLC1-CS	23A-0058-PLC1-AS	23A-0058-PLC2-BS
				Sample Date	6/25/2023	6/25/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.1 ft	2.1 - 3.4 ft	0 - 0.5 ft	0.5 - 2 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.5 ft	0 - 0.5 ft	0.5 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	33.6	10.6	12.4	4.26	43.8	2460 J	120	1940	92.7	15.7
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	< 0.396 U	< 0.437 U	< 0.566 U	< 0.52 U	0.646 JN	45.7 J	2.28 JN	33.5	1.57 J	< 0.428 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	< 0.554 U	< 0.481 U	< 0.548 U	< 0.635 U	0.484 JN	27.6 J	1.25 J	12.9	1.23 JN	< 0.75 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	1.58 J	< 4.86 UJ	< 4.78 UJ	< 0.371 U	0.836 JN	97.8 J	3.74 JN	54.2	3.46	< 0.364 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	2.21 J	< 0.494 U	< 0.582 U	< 0.679 U	2.12 J	118 J	5.63	78.6	4.96 JN	< 0.737 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	0.89 JN	< 0.317 U	< 0.318 U	< 0.321 U	0.799 JN	59.4 J	1.98 J	29.5	1.58 JN	< 0.386 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	1.02 J	< 0.548 U	< 0.532 U	< 0.641 U	0.79 J	73.0 J	3.15	32.7	3.37 JN	< 0.675 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.421 U	< 0.436 U	< 0.488 U	< 0.417 U	< 0.45 U	< 2.25 UJ	< 0.631 U	< 1.95 U	< 0.427 U	< 0.452 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	< 0.389 UJ	< 0.324 UJ	< 0.524 UJ	< 0.339 UJ	< 0.194 UJ	11.3 JN	0.522 JN	4.64 JN	0.612 JN	< 0.494 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	< 0.341 U	< 0.345 U	< 0.341 U	< 0.252 U	< 0.248 U	11.9 J	0.409 JN	8.24	0.768 J	< 0.34 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	17.7 J+	< 0.288 U	< 0.37 U	1.52 J+	14.1 J+	1600 J	57.1 J+	687 J+	33.4 J+	5.78 J+
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	0.933 J	< 0.401 U	< 0.392 U	< 0.373 U	0.734 JN	48.1 J	1.69 J	29.6	1.65 J	< 0.383 U
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	1.29 JN	< 0.36 U	< 0.331 U	< 0.267 U	2.23 J	41.1 J	2.57 JN	58.8 J	4.57 J+	< 0.322 U
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 0.377 U	< 0.351 U	< 0.453 U	< 0.992 UJ	< 0.968 UJ	1.82 JN	< 0.96 U	2.24 J	< 1 UJ	< 0.928 UJ
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	< 0.562 UJ	< 0.277 U	< 0.329 U	< 0.193 U	0.631	18.1 J	1.93	16.6 JN	1.81	< 0.318 U
OCDD	3268-87-9	pg/g	16000	5000	277	334	372	53.7 J+	363	18100 J	802	15600 J	549	98.9 J
OCDF	39001-02-0	pg/g	16000	5000	17.0 JN	< 0.679 U	< 0.641 U	2.38 J	17.1 JN	1790 J	64.8	936	33.1	5.64
Total HpCDD (a)	RA_Total_HpCDD	pg/g			33.6	10.6	12.4	4.26	43.8	2460	120	1940	92.7	15.7
Total HpCDF (a)	RA_Total_HpCDF	pg/g			17.7	< 0.437 U	< 0.566 U	1.52	14.7	1650	59.4	721	35.0	5.78
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		3.23	< 0.548 U	< 0.582 U	< 0.679 U	3.39	219	10.0	124	9.56	< 0.75 U
Total HxCDF (a)	RA_Total_HxCDF	pg/g			3.40	< 4.86 U	< 4.78 U	< 0.417 U	2.37	205	7.41	113	6.69	< 0.452 U
Total PeCDD (a)	RA_Total_PeCDD	pg/g			< 0.389 U	< 0.324 U	< 0.524 U	< 0.339 U	< 0.194 U	11.3	0.522	4.64	0.612	< 0.494 U
Total PeCDF (a)	RA_Total_PeCDF	pg/g			1.29	< 0.36 U	< 0.341 U	< 0.267 U	2.23	53.0	2.98	67.0	5.34	< 0.34 U
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.377 U	< 0.351 U	< 0.453 U	< 0.992 U	< 0.968 U	1.82	< 0.96 U	2.24	< 1 U	< 0.928 U
Total TCDF (a)	RA_Total_TCDF	pg/g			< 0.562 U	< 0.277 U	< 0.329 U	< 0.193 U	0.631	18.1	1.93	16.6	1.81	< 0.318 U
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	24 JEB	1.33 J+EB	3.17 JEB	48.3 JEB	676 JEB	179 JEB	205 JEB	4700 JEB	26.1 JEB	4.39 JEB
PCB-002	2051-61-8	ng/g	230	14.0	0.655 J	< 0.0264 U	< 0.0259 UJ	< 0.0269 U	3.18 J	2.46 J	2.50 J	106 J	1.65 J	< 0.0251 U
PCB-003	2051-62-9	ng/g	230	14.0	10.7	< 0.0257 U	< 0.0252 UJ	2.29 J	81.0 J	36.5	32.0 J	2710 J	8.22 J	1.61 J
PCB-004/010	PCB-4/10	ng/g	230	14.0	44.1 JEB	1.95 JEB	2.67 JEB	53.2 JEB	1030 JEB	455 JEB	495 JEB	11800 JEB	94.2 JEB	12.5 EB
PCB-005/008	PCB-5/8	ng/g	230	14.0	159 J	2.03 J	0.716 J	13.4	379 J	263 J	309 J	6380 J	117 J	23.7 J
PCB-006	25569-80-6	ng/g	230	14.0	41.3 J	0.482 J	< 0.0251 U	2.50 J	87.5 J	63.6 J	34.3 J	1330 J	66.9 J	14.1
PCB-007/009	PCB-7/9	ng/g	230	14.0	8.07 J	< 0.0444 U	< 0.0435 U	0.548 J	12.1	15.1 J	27.2 J	204 J	17.4	3.61 J
PCB-011	2050-67-1	ng/g	230	14.0	3.89 JEB	< 0.0244 U	< 0.0240 U	< 0.0249 U	7.42 JEB	6.27 JEB	5.33 JEB	113 JEB	3.67 JEB	< 0.0233 U
PCB-012/013	PCB-12/13	ng/g	230	14.0	14	< 0.0440 U	< 0.0431 U	0.515 J	23.1 J	21.0	28.8 J	404 J	16.0	1.85 J
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0248 U	< 0.0245 U	< 0.0241 U	< 0.0250 U	< 0.0244 U	< 0.0479 U	< 0.0242 U	< 0.0243 U	< 0.0252 U	< 0.0234 U
PCB-015	2050-68-2	ng/g	230	14.0	109 J	0.655 J	< 0.0220 U	2.92 J	157 J	171 J	115 J	2950 J	140 J	15.9
PCB-016/032	PCB-16/32	ng/g	230	14.0	83.7 JEB	0.958 JEB	0.477 JEB	4.98 JEB	183 JEB	264 JEB	233 JEB	8180 JEB	129 JEB	22.6 JEB
PCB-017	37680-66-3	ng/g	230	14.0	88.5 JEB	1.06 JEB	0.491 JEB	3.55 JEB	146 JEB	182 JEB	210 JEB	6990 JEB	116 JEB	12.5 EB
PCB-018	37680-65-2	ng/g	230	14.0	50.3 JEB	0.48 JEB	< 0.0319 U	2.15 JEB	48.2 JEB	96.9 JEB	32.5 JEB	1850 JEB	135 JEB	15.0 EB
PCB-019	38444-73-4	ng/g	230	14.0	14.2	0.291 J	< 0.0217 U	5.58 J	134 J	125 J	113 J	3530 J	31.5 J	4.85 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	11.6 EB	< 0.0681 U	< 0.0668 U	0.494 JEB	4.16 JEB	28.1 EB	4.75 JEB	97.5 JEB	20.0 EB	3.27 JEB
PCB-022	38444-85-8	ng/g	230	14.0	16	< 0.0242 U	< 0.0238 U	0.572 J	17.7	21.0	7.46 J	652 J	28.9 J	4.60 J
PCB-023/034	PCB-23/34	ng/g	230	14.0	2.07 J	< 0.0443 U	< 0.0434 U	< 0.0451 U	4.56 J	4.71 J	3.60 J	99.1 J	3.79 J	0.766 J
PCB-024/027	PCB-24/27	ng/g	230	14.0	18	0.222 J	< 0.0422 U	2.05 J	57.3 J	71.8 J	32.2 J	1670 J	24.4 J	4.35 J
PCB-025	55712-37-3	ng/g	230	14.0	54.7 J	0.411 J	< 0.0244 U	1.26 J	66.4 J	75.5 J	52.7 J	2330 J	136 J	21.6 J
PCB-026	38444-81-4	ng/g	230	14.0	65.4 J	0.369 J	< 0.0208 U	2.48 J	84.2 J	123 J	74.6 J	3030 J	179 J	29.1 J
PCB-028	7012-37-5	ng/g	230	14.0	139 JEB	0.683 JEB	0.253 JEB	2.67 JEB	37.3 JEB	126 JEB	57.7 JEB	899 JEB	142 JEB	23.7 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0258 U	< 0.0256 U	< 0.0251 U	< 0.0261 U	< 0.0254 U	< 0.0500 U	< 0.0253 U	< 0.0254 U	< 0.0263 U	< 0.0244 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0055-B1C1	23A-0055-B1C1	23A-0055-B1C1	23A-0056-PLC1	23A-0056-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0058-PLC1	23A-0058-PLC2
				Sample Name	23A-0055-B1C1-AS	23A-0055-B1C1-BS	23A-0055-B1C1-CS	23A-0056-PLC1-AS	23A-0056-PLC1-BS	23A-0057-PLC1-AS	23A-0057-PLC1-BS	23A-0057-PLC1-CS	23A-0058-PLC1-AS	23A-0058-PLC2-BS
				Sample Date	6/25/2023	6/25/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.1 ft	2.1 - 3.4 ft	0 - 0.5 ft	0.5 - 2 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.5 ft	0 - 0.5 ft	0.5 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0237 U	< 0.0235 U	< 0.0230 U	< 0.0239 U	< 0.0233 U	< 0.0458 U	< 0.0232 U	4.88 J	< 0.0241 U	< 0.0224 U
PCB-031	16606-02-3	ng/g	230	14.0	138 JEB	0.918 JEB	0.297 JEB	4.51 JEB	153 JEB	214 JEB	198 JEB	5540 JEB	261 JEB	39.2 JEB
PCB-035	37680-69-6	ng/g	230	14.0	< 0.0281 U	< 0.0278 U	< 0.0273 U	< 0.0284 U	< 0.0277 U	< 0.0544 U	< 0.0275 U	8.38 J+	< 0.0286 U	< 0.0265 U
PCB-036	38444-87-0	ng/g	230	14.0	0.646 J	< 0.0237 U	< 0.0233 U	< 0.0242 U	< 0.0236 U	< 0.0464 U	< 0.0234 U	5.93 J	1.15 J	< 0.0226 U
PCB-037	38444-90-5	ng/g	230	14.0	12	< 0.0261 U	< 0.0256 U	0.605 J	10.3	16.8 J	8.06 J	280 J	16.0	< 0.0249 U
PCB-038	53555-66-1	ng/g	230	14.0	1.41 J	< 0.0197 U	< 0.0193 U	< 0.0200 U	1.93 J	4.68 J	3.41 J	68.6 J	3.64 J	< 0.0187 U
PCB-039	38444-88-1	ng/g	230	14.0	0.316 J	< 0.0121 U	< 0.0118 U	< 0.0123 U	0.916 J	< 0.0236 U	< 0.0119 U	29.4 J	0.744 J	< 0.0115 U
PCB-040	38444-93-8	ng/g	230	14.0	5.71 J	< 0.0201 U	< 0.0198 U	< 0.0205 U	2.99 J	7.29 J	1.43 J	30.1 J	21.6 J	3.03 J
PCB-041/064	PCB-41/64	ng/g	230	14.0	22.4 J	0.245 J	< 0.0449 U	0.735 J	20.1 J	30.6	7.15 J	204 J	65.9 J	10.4
PCB-042	36559-22-5	ng/g	230	14.0	15.5	< 0.0503 U	< 0.0493 U	0.578 J	16.6	33.9	9.61	437 J	62.3 J	5.53 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	67.6 J	0.724 J	0.146 J	2.59 J	84.4 J	191 J	78.8 J	2860 J	239 J	32.8 J
PCB-044	41464-39-5	ng/g	230	14.0	39.4 JEB	0.378 JEB	< 0.0262 U	1.28 JEB	22.4 JEB	58.5 JEB	10.8 EB	349 JEB	151 JEB	16.7 EB
PCB-045	70362-45-7	ng/g	230	14.0	8.34 J	< 0.0219 U	< 0.0215 U	< 0.0223 U	6.12 J	9.52 J	1.45 J	38.8 J	18.4	2.83 J
PCB-046	41464-47-5	ng/g	230	14.0	2.49 J	< 0.0256 U	< 0.0251 U	< 0.0261 U	2.95 J	8.07 J	2.17 J	115 J	9.63 J	1.43 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	43.6 J	0.547 J	0.139 J	1.67 J	62.6 J	148 J	79.3 J	2270 J	120 J	15.1
PCB-050	62796-65-0	ng/g	230	14.0	0.576 J	< 0.0312 U	< 0.0306 U	< 0.0318 U	1.16 J	1.90 J	1.40 J	45.8 J	1.16 J	< 0.0298 U
PCB-051	68194-04-7	ng/g	230	14.0	8.86 J	0.0971 J	< 0.0261 U	0.641 J	18.5	36.6	30.7 J	847 J	20.8 J	2.35 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	62.7 JEB	0.544 JEB	0.182 JEB	2.43 JEB	72.7 JEB	160 JEB	62.2 JEB	2280 JEB	226 JEB	32.1 JEB
PCB-053	41464-41-9	ng/g	230	14.0	17.8	0.166 J	< 0.0232 U	1.06 J	26.0 J	62.0 J	25.8 J	998 J	52.4 J	7.44 J
PCB-054	15968-05-5	ng/g	230	14.0	0.65 J	< 0.0207 U	< 0.0203 U	< 0.0211 U	2.23 J	4.29 J	3.45 J	81.3 J	1.54 J	0.243 J
PCB-055	74338-24-2	ng/g	230	14.0	< 0.0272 U	< 0.0270 U	< 0.0264 U	< 0.0275 U	< 0.0268 U	< 0.0527 U	< 0.0266 U	< 0.0267 U	0.650 J	< 0.0257 U
PCB-056/060	PCB-56/60	ng/g	230	14.0	6.68 JEB	< 0.0527 U	< 0.0516 U	0.659 JEB	1.71 JEB	16.3 JEB	1.98 JEB	21.8 JEB	11.5 EB	1.09 JEB
PCB-057	70424-67-8	ng/g	230	14.0	0.934 J	< 0.0208 U	< 0.0204 U	< 0.0212 U	1.29 J	3.18 J	1.83 J	17.6 J+	4.39 J	0.801 J
PCB-058	41464-49-7	ng/g	230	14.0	< 0.0191 U	< 0.0189 U	< 0.0185 U	< 0.0192 U	< 0.0188 U	< 0.0369 U	< 0.0186 U	< 0.0187 U	0.582 J	< 0.0180 U
PCB-059	74472-33-6	ng/g	230	14.0	3.42 J	< 0.0370 U	< 0.0363 U	0.128 J	2.73 J	3.28 J	0.564 J	12.1 J+	7.12 J	1.10 J
PCB-061/074	PCB-61/74	ng/g	230	14.0	13.7	< 0.0486 U	< 0.0476 U	0.830 J	4.86 J	23.9	6.53 J	114 J	33.6 J	3.48 J
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0260 U	< 0.0258 U	< 0.0253 U	< 0.0263 U	< 0.0256 U	< 0.0504 U	< 0.0255 U	< 0.0256 U	< 0.0265 U	< 0.0246 U
PCB-063	74472-34-7	ng/g	230	14.0	3.49 J	< 0.0194 U	< 0.0190 U	0.208 J	4.76 J	11.5 J	7.06 J	82.4 J	12.0	1.65 J
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0375 U	< 0.0372 U	< 0.0365 U	< 0.0379 U	< 0.0370 U	< 0.0727 U	< 0.0367 U	< 0.0369 U	< 0.0382 U	< 0.0354 U
PCB-066/080	PCB-66/80	ng/g	230	14.0	11.5 EB	< 0.0471 U	< 0.0462 U	1.06 JEB	5.28 JEB	41.8 JEB	6.00 JEB	126 JEB	26.7 JEB	2.43 JEB
PCB-067	73575-53-8	ng/g	230	14.0	0.966 J	< 0.0228 U	< 0.0223 U	< 0.0232 U	0.360 J	2.29 J	< 0.0225 U	4.92 J+	3.83 J	< 0.0217 U
PCB-068	73575-52-7	ng/g	230	14.0	0.856 J	< 0.0270 U	< 0.0264 U	< 0.0275 U	1.83 J	4.75 J	2.58 J	44.9 J	3.87 J	< 0.0257 U
PCB-069	60233-24-1	ng/g	230	14.0	0.285 J	< 0.0280 U	< 0.0275 U	< 0.0286 U	0.553 J	< 0.0548 U	< 0.0277 U	15.8 J+	0.525 J	< 0.0267 U
PCB-070	32598-11-1	ng/g	230	14.0	11.4	< 0.0253 U	< 0.0248 U	1.00 J	2.69 J	40.5 J	2.94 J	37.1 J	17.2	1.47 J
PCB-071	41464-46-4	ng/g	230	14.0	20.7 J	0.194 J	< 0.0336 U	0.718 J	20.4 J	43.3 J	20.8 J	589 J	72.7 J	11.1
PCB-072	41464-42-0	ng/g	230	14.0	1.09 J	< 0.0304 U	< 0.0298 U	< 0.0309 U	2.54 J	5.03 J	3.08 J	60.9 J	4.67 J	0.699 J
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0376 U	< 0.0373 U	< 0.0366 U	< 0.0380 U	< 0.0371 U	< 0.0728 U	< 0.0368 U	< 0.0370 U	< 0.0383 U	< 0.0355 U
PCB-077	32598-13-3	ng/g	38.0	14.0	2.23 J+	< 0.0220 U	< 0.0216 U	< 0.0224 U	1.70 J+	7.59 J+	2.07 J+	30.4 J	6.14 J+	< 0.0210 U
PCB-078	70362-49-1	ng/g	230	14.0	< 0.0193 U	< 0.0191 U	< 0.0187 U	< 0.0194 U	< 0.0190 U	< 0.0373 U	< 0.0188 U	1.58 J+	0.510 J	< 0.0182 U
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0242 U	< 0.0239 U	< 0.0235 U	< 0.0244 U	< 0.0238 U	< 0.0468 U	< 0.0236 U	1.53 J+	0.404 J	< 0.0228 U
PCB-081	70362-50-4	ng/g	12.0	14.0	0.209 J+	< 0.0374 U	< 0.0367 U	< 0.0381 U	< 0.0371 U	< 0.0730 U	< 0.0369 U	2.35 J+	0.652 J+	< 0.0356 U
PCB-082	52663-62-4	ng/g	230	14.0	1.62 J	< 0.0137 U	< 0.0135 U	< 0.0140 U	1.02 J	5.56 J	< 0.0135 U	20.1 J	6.47 J	0.804 J+
PCB-083/109	PCB-83/109	ng/g	230	14.0	1.26 J	< 0.0590 U	< 0.0578 U	< 0.0601 U	1.42 J	5.66 J	1.05 J	22.7 J	6.23 J	0.921 J+
PCB-084	52663-60-2	ng/g	230	14.0	5.51 J	< 0.0237 U	< 0.0233 U	< 0.0242 U	4.16 J	20.6	2.75 J	61.0 J	25.1 J	3.61 J+
PCB-085/120	PCB-85/120	ng/g	230	14.0	3.15 J	< 0.0529 U	< 0.0519 U	< 0.0539 U	2.13 J	14.7 J	1.32 J	45.7 J	11.2	1.40 J+
PCB-086/097	PCB-86/97	ng/g	230	14.0	3.31 J	< 0.0233 U	< 0.0228 U	< 0.0237 U	1.17 J	18.9 J	1.49 J	2.63 J	12.0	1.22 J+
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	5.55 J	< 0.0150 U	< 0.0147 U	< 0.0153 U	4.20 J	31.4	4.37 J	< 0.0149 U	18.9	2.13 J+
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.0547 U	< 0.0542 U	< 0.0532 U	< 0.0552 U	< 0.0539 U	< 0.106 U	< 0.0535 U	1.67 J	< 0.0557 U	< 0.0517 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	11.2	< 0.0587 U	< 0.0576 U	0.498 J	5.52 J	78.2 J	8.87 J	145 J	34.2 J	3.93 J+
PCB-091	68194-05-8	ng/g	230	14.0	4.99 J	< 0.0304 U	< 0.0298 U	< 0.0309 U	6.54 J	23.8	6.77 J	152 J	22.4 J	3.06 J+

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0055-B1C1	23A-0055-B1C1	23A-0055-B1C1	23A-0056-PLC1	23A-0056-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0058-PLC1	23A-0058-PLC2
				Sample Name	23A-0055-B1C1-AS	23A-0055-B1C1-BS	23A-0055-B1C1-CS	23A-0056-PLC1-AS	23A-0056-PLC1-BS	23A-0057-PLC1-AS	23A-0057-PLC1-BS	23A-0057-PLC1-CS	23A-0058-PLC1-AS	23A-0058-PLC2-BS
				Sample Date	6/25/2023	6/25/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.1 ft	2.1 - 3.4 ft	0 - 0.5 ft	0.5 - 2 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.5 ft	0 - 0.5 ft	0.5 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-092	52663-61-3	ng/g	230	14.0	3.85 J	< 0.0133 U	< 0.0131 U	< 0.0136 U	5.41 J	25.1	6.76 J	118 J	17.5	2.59 J+
PCB-093/095	PCB-93/95	ng/g	230	14.0	15.8	0.159 J	< 0.0385 U	0.532 J	11.0	64.7 J	6.76 J	130 J	62.7 J	8.78 J+
PCB-094	73575-55-0	ng/g	230	14.0	0.464 J	< 0.0448 U	< 0.0439 U	< 0.0456 U	0.762 J	3.02 J	0.978 J	15.9	1.89 J	< 0.0427 U
PCB-096	73575-54-9	ng/g	230	14.0	0.468 J	< 0.0211 U	< 0.0207 U	< 0.0215 U	0.553 J	1.31 J	0.359 J	6.76 J	2.09 J	0.291 J
PCB-098/102	PCB-98/102	ng/g	230	14.0	2.11 J	< 0.0391 U	< 0.0384 U	< 0.0399 U	2.28 J	6.81 J	2.14 J	43.5 J	9.38 J	1.37 J+
PCB-099	38380-01-7	ng/g	230	14.0	5.92 J	< 0.0216 U	< 0.0212 U	0.348 J	3.44 J	40.2 J	5.11 J	115 J	21.5 J	2.52 J+
PCB-100	39485-83-1	ng/g	230	14.0	< 0.0241 U	< 0.0238 U	< 0.0234 U	< 0.0243 U	0.652 J	3.59 J	1.91 J	23.9 J	1.13 J	< 0.0227 U
PCB-103	60145-21-3	ng/g	230	14.0	0.342 J	< 0.0246 U	< 0.0241 U	< 0.0251 U	0.715 J	2.81 J	1.29 J	22.3 J	1.75 J	0.322 J+
PCB-104	56558-16-8	ng/g	230	14.0	< 0.0230 U	< 0.0228 U	< 0.0223 U	< 0.0232 U	< 0.0226 U	< 0.0445 U	< 0.0225 U	1.71 J	< 0.0234 U	< 0.0217 U
PCB-105/127	PCB-105/127	ng/g	120	14.0	3.17 J	< 0.0386 U	< 0.0379 U	< 0.0394 U	1.50 J	18.1 J	1.29 J	40.6 J	10.7	0.870 J
PCB-106/118	PCB-106/118	ng/g	120	14.0	9.27 J	< 0.0461 U	< 0.0452 U	0.413 J	3.62 J	64.3 J	4.80 J	109 J	25.4 J	2.60 J
PCB-107/108	PCB-107/108	ng/g	230	14.0	0.805 J	< 0.0474 U	< 0.0465 U	< 0.0483 U	0.561 J	6.30 J	0.853 J	13.1	3.16 J	< 0.0452 U
PCB-110	38380-03-9	ng/g	230	14.0	24.7 J	0.301 J	< 0.0217 U	0.887 J	20.7 J	118 J	17.0	344 J	108 J	24.8 J
PCB-111/117	PCB-111/117	ng/g	230	14.0	< 0.0679 U	< 0.0673 U	< 0.0660 U	< 0.0685 U	< 0.0668 U	< 0.131 U	< 0.0664 U	88.0 J	< 0.0691 U	< 0.0641 U
PCB-112	74472-36-9	ng/g	230	14.0	< 0.0237 U	< 0.0235 U	< 0.0230 U	< 0.0239 U	< 0.0233 U	< 0.0458 U	< 0.0232 U	3.56 J	0.542 J	< 0.0224 U
PCB-113	68194-10-5	ng/g	230	14.0	0.192 J	< 0.0246 U	< 0.0241 U	< 0.0251 U	< 0.0245 U	< 0.0481 U	< 0.0243 U	3.58 J	< 0.0253 U	< 0.0235 U
PCB-114	74472-37-0	ng/g	120	14.0	< 0.0206 U	< 0.0204 U	< 0.0200 U	< 0.0208 U	< 0.0203 U	< 0.0399 U	< 0.0202 U	4.80 J	0.974 J	< 0.0195 U
PCB-119	56558-17-9	ng/g	230	14.0	0.904 J	< 0.0271 U	< 0.0265 U	< 0.0276 U	1.29 J	6.95 J	2.48 J	37.4 J	4.55 J	1.14 J
PCB-122	76842-07-4	ng/g	230	14.0	< 0.0174 U	< 0.0172 U	< 0.0169 U	< 0.0176 U	< 0.0171 U	< 0.0337 U	< 0.0170 U	< 0.0171 U	< 0.0177 U	< 0.0164 U
PCB-123	65510-44-3	ng/g	120	14.0	< 0.0161 U	< 0.0160 U	< 0.0157 U	< 0.0163 U	< 0.0159 U	2.98 J+	< 0.0158 U	5.73 J+	1.16 J+	< 0.0152 U
PCB-124	70424-70-3	ng/g	230	14.0	< 0.0217 U	< 0.0215 U	< 0.0211 U	< 0.0219 U	< 0.0214 U	< 0.0420 U	< 0.0212 U	3.24 J	0.591 J	< 0.0205 U
PCB-125	74472-39-2	ng/g	230	14.0	< 0.0238 U	< 0.0236 U	< 0.0231 U	< 0.0240 U	< 0.0234 U	< 0.0460 U	< 0.0233 U	23.7 J	< 0.0242 U	< 0.0225 U
PCB-126	57465-28-8	ng/g	0.0360	14.0	< 0.0338 U	< 0.0335 U	< 0.0328 U	< 0.0341 U	< 0.0333 U	< 0.0654 U	< 0.0331 U	2.42 J+	0.626 J+	< 0.0319 U
PCB-128	38380-07-3	ng/g	230	14.0	1.57 J	< 0.0236 U	< 0.0232 U	< 0.0241 U	0.933 J	18.1 J	1.43 J	31.9 J	5.58 J	0.560 J
PCB-129	55215-18-4	ng/g	230	14.0	0.356 J	< 0.0260 U	< 0.0255 U	< 0.0265 U	< 0.0258 U	4.41 J	< 0.0257 U	4.66 J	0.932 J	< 0.0248 U
PCB-130	52663-66-8	ng/g	230	14.0	0.626 J	< 0.0204 U	< 0.0200 U	< 0.0208 U	0.649 J	6.50 J	0.733 J	12.3	2.54 J	0.432 J
PCB-131/142	PCB-131/142	ng/g	230	14.0	< 0.0508 U	< 0.0503 U	< 0.0493 U	< 0.0513 U	< 0.0500 U	< 0.0983 U	< 0.0497 U	2.35 J	< 0.0517 U	< 0.0480 U
PCB-132/168	PCB-132/168	ng/g	230	14.0	3.05 J	< 0.0590 U	< 0.0578 U	< 0.0601 U	2.43 J	30.6	2.93 J	55.3 J	10.5	1.72 J
PCB-133	35694-04-3	ng/g	230	14.0	< 0.0185 U	< 0.0183 U	< 0.0179 U	< 0.0186 U	< 0.0182 U	1.97 J	0.587 J	4.66 J	0.806 J	< 0.0174 U
PCB-134	52704-70-8	ng/g	230	14.0	0.434 J	< 0.0485 U	< 0.0475 U	< 0.0494 U	0.426 J	4.88 J	0.603 J	9.96	1.56 J	< 0.0462 U
PCB-135/144	PCB-135/144	ng/g	230	14.0	1.35 J	< 0.0509 U	< 0.0499 U	< 0.0519 U	1.32 J	12.7 J	1.57 J	25.5 J	5.16 J	1.39 J
PCB-136	38411-22-2	ng/g	230	14.0	1.13 J	< 0.0424 U	< 0.0416 U	< 0.0432 U	0.893 J	10.1 J	1.10 J	18.2	3.81 J	0.935 J
PCB-137	35694-06-5	ng/g	230	14.0	0.515 J	< 0.0237 U	< 0.0233 U	< 0.0242 U	< 0.0236 U	6.21 J	0.649 J	10.4	1.09 J	< 0.0226 U
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	8.07 J	< 0.0760 U	< 0.0745 U	< 0.0774 U	5.62 J	101 J	8.66 J	149 J	20.6 J	2.91 J
PCB-139/149	PCB-139/149	ng/g	230	14.0	5.93 J	< 0.0701 U	< 0.0687 U	0.208 J	4.92 J	57.5 J	6.20 J	114 J	19.7	4.82 J
PCB-140	59291-64-4	ng/g	230	14.0	< 0.0350 U	< 0.0346 U	< 0.0340 U	< 0.0353 U	< 0.0344 U	< 0.0677 U	< 0.0342 U	1.81 J	0.464 J	< 0.0330 U
PCB-141	52712-04-6	ng/g	230	14.0	1.01 J	< 0.0243 U	< 0.0239 U	< 0.0248 U	< 0.0242 U	12.0 J	0.762 J	14.2	2.14 J	< 0.0232 U
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0315 U	< 0.0312 U	< 0.0306 U	< 0.0318 U	< 0.0311 U	< 0.0610 U	< 0.0308 U	< 0.0310 U	< 0.0321 U	< 0.0298 U
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0417 U	< 0.0413 U	< 0.0405 U	< 0.0420 U	< 0.0410 U	< 0.0806 U	< 0.0407 U	< 0.0409 U	< 0.0424 U	< 0.0393 U
PCB-146	51908-16-8	ng/g	230	14.0	0.998 J	< 0.0279 U	< 0.0274 U	< 0.0285 U	0.894 J	11.3 J	1.55 J	20.2 J	4.07 J	0.739 J
PCB-147	68194-13-8	ng/g	230	14.0	< 0.0368 U	< 0.0364 U	< 0.0357 U	< 0.0371 U	0.480 J	5.04 J	1.19 J	13.1	0.948 J	< 0.0347 U
PCB-148	74472-41-6	ng/g	230	14.0	< 0.0385 U	< 0.0382 U	< 0.0374 U	< 0.0389 U	< 0.0379 U	< 0.0746 U	< 0.0377 U	0.907 J	< 0.0392 U	< 0.0364 U
PCB-150	68194-08-1	ng/g	230	14.0	< 0.0389 U	< 0.0385 U	< 0.0378 U	< 0.0393 U	< 0.0383 U	0.453 J	< 0.0381 U	0.984 J	< 0.0396 U	< 0.0367 U
PCB-151	52663-63-5	ng/g	230	14.0	1.45 J	< 0.0279 U	< 0.0274 U	< 0.0285 U	1.44 J	14.0 J	1.94 J	29.0 J	5.25 J	1.31 J
PCB-152	68194-09-2	ng/g	230	14.0	< 0.0455 U	< 0.0451 U	< 0.0442 U	< 0.0459 U	< 0.0448 U	< 0.0881 U	< 0.0445 U	1.19 J	< 0.0463 U	< 0.0430 U
PCB-153	35065-27-1	ng/g	230	14.0	4.99 J	< 0.0245 U	< 0.0241 U	< 0.0250 U	2.79 J	62.6 J	5.28 J	91.5 J	12.7	1.81 J
PCB-154	60145-22-4	ng/g	230	14.0	< 0.0271 U	< 0.0269 U	< 0.0263 U	< 0.0274 U	0.279 J	2.43 J	0.665 J	5.36 J	0.900 J	< 0.0256 U
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0234 U	< 0.0232 U	< 0.0227 U	< 0.0236 U	< 0.0230 U	< 0.0453 U	< 0.0229 U	< 0.0230 U	< 0.0238 U	< 0.0221 U
PCB-156	38380-08-4	ng/g	120	14.0	0.776 J	< 0.0195 U	< 0.0191 U	< 0.0198 U	0.508 J	7.60 J	0.806 J	16.8	2.17 J	< 0.0186 U
PCB-157	69782-90-7	ng/g	120	14.0	0.159 J+	< 0.0271 U	< 0.0265 U	< 0.0276 U	< 0.0269 U	2.93 J+	< 0.0267 U	5.65 J+	0.756 J+	< 0.0258 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0055-B1C1	23A-0055-B1C1	23A-0055-B1C1	23A-0056-PLC1	23A-0056-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0058-PLC1	23A-0058-PLC2
				Sample Name	23A-0055-B1C1-AS	23A-0055-B1C1-BS	23A-0055-B1C1-CS	23A-0056-PLC1-AS	23A-0056-PLC1-BS	23A-0057-PLC1-AS	23A-0057-PLC1-BS	23A-0057-PLC1-CS	23A-0058-PLC1-AS	23A-0058-PLC2-BS
				Sample Date	6/25/2023	6/25/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.1 ft	2.1 - 3.4 ft	0 - 0.5 ft	0.5 - 2 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.5 ft	0 - 0.5 ft	0.5 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-158/160	PCB-158/160	ng/g	230	14.0	0.852 J	< 0.0594 U	< 0.0582 U	< 0.0605 U	0.519 J	8.93 J	0.693 J	16.7	2.97 J	0.314 J
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0377 U	< 0.0374 U	< 0.0367 U	< 0.0381 U	< 0.0371 U	< 0.0730 U	< 0.0369 U	1.04 J	0.337 J	< 0.0356 U
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0353 U	< 0.0349 U	< 0.0343 U	< 0.0356 U	< 0.0347 U	< 0.0683 U	< 0.0345 U	18.4	< 0.0359 U	< 0.0333 U
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0278 U	< 0.0275 U	< 0.0270 U	< 0.0281 U	< 0.0274 U	< 0.0538 U	< 0.0272 U	0.861 J	< 0.0283 U	< 0.0263 U
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0381 U	< 0.0378 U	< 0.0370 U	< 0.0385 U	< 0.0375 U	< 0.0738 U	< 0.0373 U	< 0.0375 U	< 0.0388 U	< 0.0360 U
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0328 U	< 0.0325 U	< 0.0319 U	< 0.0331 U	< 0.0323 U	< 0.0635 U	< 0.0321 U	1.16 J	< 0.0334 U	< 0.0310 U
PCB-167	52663-72-6	ng/g	120	14.0	0.254 J	< 0.0250 U	< 0.0245 U	< 0.0255 U	0.238 J	4.88 J	< 0.0247 U	7.08 J	1.09 J	< 0.0238 U
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0278 U	< 0.0275 U	< 0.0270 U	< 0.0281 U	< 0.0274 U	< 0.0538 U	< 0.0272 U	1.21 J	< 0.0283 U	< 0.0263 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	1.44 J	< 0.0454 U	< 0.0445 U	< 0.0462 U	1.42 J	15.1 J	2.57 J	31.2 J	5.04 J	0.746 J
PCB-171	52663-71-5	ng/g	230	14.0	0.476 J	< 0.0360 U	< 0.0353 U	< 0.0367 U	0.419 J	4.12 J	0.807 J	8.21 J	1.41 J	< 0.0343 U
PCB-172/192	PCB-172/192	ng/g	230	14.0	0.199 J	< 0.0598 U	< 0.0586 U	< 0.0609 U	< 0.0594 U	2.01 J	0.478 J	3.83 J	0.738 J	< 0.0570 U
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0407 U	< 0.0403 U	< 0.0395 U	< 0.0411 U	< 0.0401 U	< 0.0787 U	< 0.0398 U	< 0.0400 U	< 0.0414 U	< 0.0384 U
PCB-174	38411-25-5	ng/g	230	14.0	1.19 J	< 0.0505 U	< 0.0495 U	< 0.0515 U	1.04 J	12.0 J	1.71 J	21.9 J	4.09 J	0.709 J
PCB-175	40186-70-7	ng/g	230	14.0	< 0.0313 U	< 0.0310 U	< 0.0304 U	< 0.0316 U	< 0.0309 U	0.548 J	< 0.0307 U	1.22 J	< 0.0319 U	< 0.0296 U
PCB-176	52663-65-7	ng/g	230	14.0	0.154 J	< 0.0290 U	< 0.0284 U	< 0.0296 U	0.196 J	1.44 J	0.277 J	3.01 J	0.780 J	< 0.0277 U
PCB-177	52663-70-4	ng/g	230	14.0	0.735 J	< 0.0362 U	< 0.0355 U	< 0.0369 U	0.872 J	7.39 J	1.48 J	15.7	3.32 J	0.548 J
PCB-178	52663-67-9	ng/g	230	14.0	0.277 J	< 0.0455 U	< 0.0446 U	< 0.0463 U	0.413 J	2.95 J	0.663 J	6.36 J	1.34 J	< 0.0433 U
PCB-179	52663-64-6	ng/g	230	14.0	0.483 J	< 0.0240 U	< 0.0236 U	< 0.0245 U	0.559 J	4.34 J	0.809 J	9.68	2.22 J	0.395 J
PCB-180	35065-29-3	ng/g	230	14.0	2.38 J	< 0.0320 U	< 0.0314 U	< 0.0326 U	2.38 J	25.1	4.55 J	52.9 J	9.24 J	1.44 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0278 U	< 0.0275 U	< 0.0270 U	< 0.0281 U	< 0.0274 U	< 0.0538 U	< 0.0272 U	< 0.0273 U	< 0.0283 U	< 0.0263 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	1.42 J	< 0.0724 U	< 0.0710 U	< 0.0738 U	1.73 J	14.8 J	3.11 J	31.6 J	6.40 J	1.16 J
PCB-183	52663-69-1	ng/g	230	14.0	0.661 J	< 0.0360 U	< 0.0353 U	< 0.0367 U	0.711 J	6.61 J	1.12 J	14.0	2.43 J	0.449 J
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0263 U	< 0.0261 U	< 0.0256 U	< 0.0266 U	< 0.0259 U	< 0.0510 U	< 0.0258 U	< 0.0259 U	< 0.0268 U	< 0.0249 U
PCB-185	52712-05-7	ng/g	230	14.0	< 0.0365 U	< 0.0361 U	< 0.0354 U	< 0.0368 U	< 0.0359 U	1.48 J	< 0.0357 U	2.50 J	0.461 J	< 0.0344 U
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0329 U	< 0.0326 U	< 0.0320 U	< 0.0332 U	< 0.0324 U	< 0.0637 U	< 0.0322 U	< 0.0323 U	< 0.0335 U	< 0.0311 U
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0302 U	< 0.0299 U	< 0.0293 U	< 0.0304 U	< 0.0297 U	< 0.0584 U	< 0.0295 U	0.188 J	< 0.0307 U	< 0.0285 U
PCB-189	39635-31-9	ng/g	130	14.0	< 0.0307 U	< 0.0304 U	< 0.0298 U	< 0.0309 U	< 0.0302 U	< 0.0593 U	< 0.0300 U	1.27 J	< 0.0312 U	< 0.0290 U
PCB-191	74472-50-7	ng/g	230	14.0	< 0.0277 U	< 0.0274 U	< 0.0269 U	< 0.0280 U	< 0.0273 U	< 0.0536 U	< 0.0271 U	0.882 J	< 0.0282 U	< 0.0262 U
PCB-193	69782-91-8	ng/g	230	14.0	0.165 J	< 0.0346 U	< 0.0340 U	< 0.0353 U	0.156 J	1.67 J	< 0.0342 U	2.21 J	0.621 J	< 0.0330 U
PCB-194	35694-08-7	ng/g	230	14.0	0.688 J	< 0.0438 UJ	< 0.0430 UJ	< 0.0446 UJ	1.00 J	7.64 J	1.70 J	18.8 J	3.61 J	< 0.0418 UJ
PCB-195	52663-78-2	ng/g	230	14.0	< 0.0783 UJ	< 0.0776 UJ	< 0.0761 UJ	< 0.0790 UJ	0.469 J	3.02 J	< 0.0766 UJ	6.23 J	1.37 J	< 0.0740 UJ
PCB-196/203	PCB-196/203	ng/g	230	14.0	0.917 J	< 0.0736 UJ	< 0.0722 UJ	< 0.0750 UJ	1.20 J	8.63 J	1.95 J	21.3 J	3.42 J	< 0.0702 UJ
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0331 U	< 0.0328 U	< 0.0322 U	< 0.0334 U	< 0.0326 U	< 0.0641 U	< 0.0324 U	0.666 J	< 0.0337 U	< 0.0313 U
PCB-198	68194-17-2	ng/g	230	14.0	< 0.0538 UJ	< 0.0532 UJ	< 0.0522 UJ	< 0.0542 UJ	< 0.0529 UJ	< 0.104 UJ	< 0.0526 UJ	1.06 J	< 0.0547 UJ	< 0.0508 UJ
PCB-199	52663-75-9	ng/g	230	14.0	0.695 J	< 0.0512 UJ	< 0.0502 UJ	< 0.0522 UJ	1.06 J	7.65 J	1.76 J	18.4 J	3.05 J	< 0.0488 UJ
PCB-200	52663-73-7	ng/g	230	14.0	< 0.0263 U	< 0.0261 U	< 0.0256 U	< 0.0266 U	< 0.0259 U	0.886 J	< 0.0258 U	1.94 J	0.354 J	< 0.0249 U
PCB-201	40186-71-8	ng/g	230	14.0	< 0.0208 U	< 0.0206 U	< 0.0202 U	< 0.0210 U	< 0.0205 U	0.951 J	< 0.0204 U	2.07 J	0.377 J	< 0.0197 U
PCB-202	2136-99-4	ng/g	230	14.0	< 0.0356 U	< 0.0352 U	< 0.0346 U	< 0.0359 U	< 0.0350 U	1.52 J	< 0.0348 U	3.27 J	0.533 J	< 0.0336 U
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0435 U	< 0.0431 U	< 0.0423 U	< 0.0439 U	< 0.0429 U	< 0.0843 U	< 0.0426 U	< 0.0428 U	< 0.0443 U	< 0.0411 U
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0309 U	< 0.0306 U	< 0.0300 U	< 0.0311 U	< 0.0304 U	< 0.0597 U	< 0.0302 U	0.959 J	< 0.0314 U	< 0.0291 U
PCB-206	40186-72-9	ng/g	230	14.0	0.377 J	< 0.0293 U	< 0.0287 U	< 0.0298 U	0.500 J	5.04 J	1.95 J	9.58 J	1.29 J	< 0.0279 UJ
PCB-207	52663-79-3	ng/g	230	14.0	< 0.0391 U	< 0.0387 U	< 0.0380 U	< 0.0395 U	< 0.0385 U	0.665 J	< 0.0382 U	1.15 J	0.160 J	< 0.0369 U
PCB-208	52663-77-1	ng/g	230	14.0	< 0.0391 U	< 0.0387 U	< 0.0380 U	< 0.0395 U	< 0.0385 U	1.88 J	< 0.0382 U	2.95 J	0.342 J	< 0.0369 U
PCB-209	2051-24-3	ng/g	230	14.0	< 0.0225 U	< 0.0223 U	< 0.0219 U	< 0.0227 U	< 0.0222 U	4.74 J	< 0.0220 UJ	4.69 J	0.381 J	< 0.0213 UJ
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	< 0.0225 U	< 0.0223 U	< 0.0219 U	< 0.0227 U	< 0.0222 U	4.74	< 0.022 U	4.69	0.381	< 0.0213 U
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	9.58	< 0.0724 U	< 0.071 U	< 0.0738 U	9.90	99.6	17.6	207	38.1	5.45
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	33.5	< 0.076 U	< 0.0745 U	0.208	24.3	386	37.3	685	106	16.9
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	2.30	< 0.0776 U	< 0.0761 U	< 0.079 U	3.73	30.3	5.41	74.7	12.7	< 0.074 U
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	1630	15.2	8.54	173	3910	4610	2800	80300	3490	498
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	105	0.460	< 0.066 U	2.68	78.6	563	78.3	1610	410	62.4
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	379	5.12	3.39	73.1	1700	995	1010	23200	455	71.7
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	35.4	1.33	3.17	50.6	760	218	240	7520	36.0	6.00
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	0.377	< 0.0387 U	< 0.038 U	< 0.0395 U	0.500	7.59	1.95	13.7	1.79	< 0.0369 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	373	2.90	0.467	15.6	389	955	370	11700	1200	154
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	696	5.39	1.52	30.9	949	1350	1030	35300	1230	182

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0055-B1C1	23A-0055-B1C1	23A-0055-B1C1	23A-0056-PLC1	23A-0056-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0058-PLC1	23A-0058-PLC2
				Sample Name	23A-0055-B1C1-AS	23A-0055-B1C1-BS	23A-0055-B1C1-CS	23A-0056-PLC1-AS	23A-0056-PLC1-BS	23A-0057-PLC1-AS	23A-0057-PLC1-BS	23A-0057-PLC1-CS	23A-0058-PLC1-AS	23A-0058-PLC2-BS
				Sample Date	6/25/2023	6/25/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.1 ft	2.1 - 3.4 ft	0 - 0.5 ft	0.5 - 2 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.5 ft	0 - 0.5 ft	0.5 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	3700	10000	12000	6600 EB	5100 EB	4800 EB	4200 EB	9400 EB	6500 EB	4400 EB
Calcium	7440-70-2	mg/kg			1100	1800	1700	2700 EB	1600 EB	3000 EB	1100 EB	930 EB	1300 EB	1100 EB
Iron	7439-89-6	mg/kg	5500	20000	8600	20000	21000	12000 EB	12000 EB	15000 EB	7600 EB	9200 EB	13000 EB	9300 EB
Magnesium	7439-95-4	mg/kg			1600	4200	4400	2300 EB	2800 EB	1500 JEB	1800 EB	2500 EB	2300 EB	2100 EB
Potassium	7440-09-7	mg/kg			340 J	1200	1500	410 J	1000	310 J	280 J	380 J	480 J	360 J
Sodium	7440-23-5	mg/kg			100 J	160 J	160 J	280 J	140 J	430 J	100 J	130 J	150 J	72 J
Antimony	7440-36-0	mg/kg	3.1	2	< 0.94 U	< 1.2 U	< 1.1 U	< 1.4 UJ	< 0.78 UJ	< 2.7 UJ	< 0.82 UJ	< 0.99 UJ	< 1.1 UJ	< 1.1 UJ
Arsenic	7440-38-2	mg/kg	0.68	9.8	1.5 J	2.6 J	2.8 J	6.5	2.3	4.6	2.1	1.4	3.8	1.6
Barium	7440-39-3	mg/kg	1500	20	19	75	95	74	36	60	39	82	25	22
Beryllium	7440-41-7	mg/kg	16		0.17 J	0.72 J	0.83 J	0.45 J	0.27 J	0.32 J	0.31 J	0.59	0.25 J	0.27 J
Cadmium	7440-43-9	mg/kg	0.71	1	< 0.47 U	< 0.59 U	< 0.53 U	1.7	< 0.39 U	< 1.4 U	< 0.41 U	< 0.50 U	< 0.56 U	< 0.54 U
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	8.7 JEB	26 JEB	30 JEB	54 EB	14 EB	33 EB	12 EB	9.5 EB	11 EB	10 EB
Cobalt	7440-48-4	mg/kg	2.3	50	5.1 J	9.0 J	11 J	6.5	5.0	6.2	4.4	3.9	11	6.6
Copper	7440-50-8	mg/kg	310	31.6	8.0 J	18 J	21 J	75	13	40	15	12	13	10
Lead	7439-92-1	mg/kg	200	35.8	8.9	7.2	8.1	220	11	74	18	4.8	18	7.4
Manganese	7439-96-5	mg/kg	180	460	92 JEB	310 JEB	510 JEB	330 JEB	140 JEB	330 JEB	110 JEB	120 JEB	110 JEB	100 JEB
Nickel	7440-02-0	mg/kg	140	22.7	7.2 J	18 J	23 J	23	9.9	9.4	6.4	7.5	8.9	7.5
Selenium	7782-49-2	mg/kg	39	11	< 2.4 U	< 2.9 U	< 2.6 U	< 3.6 U	< 1.9 U	< 6.8 U	< 2.1 U	< 2.5 U	< 2.8 U	< 2.7 U
Silver	7440-22-4	mg/kg	39	1	< 0.47 U	< 0.59 U	< 0.53 U	0.58 J	< 0.39 U	0.26 J	< 0.41 U	< 0.50 U	< 0.56 U	< 0.54 U
Thallium	7440-28-0	mg/kg	0.078		< 0.47 U	0.15 J	0.18 J	< 0.71 U	0.054 J	< 1.4 U	< 0.41 U	< 0.50 U	< 0.56 U	< 0.54 U
Vanadium	7440-62-2	mg/kg	39		10	31	36	26	15	17	11	15	13	15
Zinc	7440-66-6	mg/kg	2300	121	30 J	41 J	49 J	190	28	160	47	18	43	24
Mercury	7439-97-6	mg/kg	2.3	0.18	0.043 J	< 0.11 U	0.021 J	0.94	0.027 J	0.44	0.090 J	< 0.097 U	< 0.12 U	0.028 J
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.56 U	< 0.59 U	< 0.58 U	< 0.99 U	< 0.51 U	< 1.5 U	< 0.59 U	< 0.56 U	< 0.57 U	< 0.54 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 5.5 UJ	< 6.2 UJ	< 5.8 UJ	< 10 U	< 6.4 UJ	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 5.5 U	< 6.2 UJ	< 5.8 UJ	< 10 U	< 6.4 UJ	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 5.5 UJ	< 6.2 UJ	< 5.8 UJ	< 10 U	< 6.4 UJ	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 5.5 UJ	< 6.2 UJ	< 5.8 UJ	< 10 U	< 6.4 UJ	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 5.5 U	< 6.2 UJ	< 5.8 UJ	< 10 U	< 6.4 UJ	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 5.5 UJ	< 6.2 UJ	< 5.8 UJ	< 10 U	< 6.4 UJ	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 5.5 UJ	< 6.2 UJ	< 5.8 UJ	< 10 U	< 6.4 UJ	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
2-HEXANONE	591-78-6	ug/kg	20000	45	< 11 U	< 12 U	< 12 U	< 21 U	< 13 U	< 28 U	< 13 U	< 12 U	< 12 U	< 8.4 U
ACETONE	67-64-1	ug/kg	7000000	65	9.3 J+	< 12 U	13 J+	260 EB	23 JEB	380 EB	17 EB	6.8 JEB	35 EB	12 EB
Benzene	71-43-2	ug/kg	1200	10	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 5.5 U	< 6.2 UJ	< 5.8 UJ	< 10 U	< 6.4 UJ	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0055-B1C1	23A-0055-B1C1	23A-0055-B1C1	23A-0056-PLC1	23A-0056-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0058-PLC1	23A-0058-PLC2
				Sample Name	23A-0055-B1C1-AS	23A-0055-B1C1-BS	23A-0055-B1C1-CS	23A-0056-PLC1-AS	23A-0056-PLC1-BS	23A-0057-PLC1-AS	23A-0057-PLC1-BS	23A-0057-PLC1-CS	23A-0058-PLC1-AS	23A-0058-PLC2-BS
				Sample Date	6/25/2023	6/25/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.1 ft	2.1 - 3.4 ft	0 - 0.5 ft	0.5 - 2 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.5 ft	0 - 0.5 ft	0.5 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Chlorobenzene	108-90-7	ug/kg	28000	30	< 5.5 UJ	< 6.2 UJ	< 5.8 UJ	< 10 U	< 6.4 UJ	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Chloroform	67-66-3	ug/kg	320	87	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Cyclohexane	110-82-7	ug/kg	650000		< 5.5 U	< 6.2 UJ	< 5.8 UJ	< 10 U	< 6.4 UJ	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Ethylbenzene	100-41-4	ug/kg	5800	290	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	< 11 U	< 12 U	< 12 U	73 EB	< 13 U	110 EB	< 13 U	< 12 U	9.5 JEB	< 8.4 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 11 U	< 12 U	< 12 U	< 21 U	< 13 U	< 28 U	< 13 U	< 12 U	< 12 U	< 8.4 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 5.5 U	< 6.2 UJ	< 5.8 UJ	< 10 U	< 6.4 UJ	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Methylene Chloride	75-09-2	ug/kg	35000	18	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Styrene	100-42-5	ug/kg	600000	126	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Toluene	108-88-3	ug/kg	490000	10	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
Vinyl Chloride	75-01-4	ug/kg	59	482	< 5.5 U	< 6.2 U	< 5.8 U	< 10 U	< 6.4 U	< 14 U	< 6.6 U	< 5.9 U	< 6.2 U	< 4.2 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 190 U	< 210 U	< 200 U	< 340 UJ	< 180 U	< 540 U	< 210 U	< 190 U	< 200 UJ	< 190 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 370 U	< 410 U	< 390 U	< 670 UJ	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 UJ	< 360 U
2-NITROANILINE	88-74-4	ug/kg	63000		< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U

Table 11
Sediment Analytical Results
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Lower Neponset River
Boston, Massachusetts

				Location	23A-0055-B1C1	23A-0055-B1C1	23A-0055-B1C1	23A-0056-PLC1	23A-0056-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0058-PLC1	23A-0058-PLC2
				Sample Name	23A-0055-B1C1-AS	23A-0055-B1C1-BS	23A-0055-B1C1-CS	23A-0056-PLC1-AS	23A-0056-PLC1-BS	23A-0057-PLC1-AS	23A-0057-PLC1-BS	23A-0057-PLC1-CS	23A-0058-PLC1-AS	23A-0058-PLC2-BS
				Sample Date	6/25/2023	6/25/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 2.1 ft	2.1 - 3.4 ft	0 - 0.5 ft	0.5 - 2 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.5 ft	0 - 0.5 ft	0.5 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 370 U	< 410 U	< 390 U	< 670 UJ	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 UJ	< 360 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 370 U	< 410 U	< 390 U	190 J	< 350 U	280 J	110 J	< 370 U	140 J	< 360 U
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	44 J	< 210 U	< 200 U	230 J	< 180 U	220 J	94 J	< 190 U	100 J	< 190 U
Caprolactam	105-60-2	ug/kg	3100000		< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 190 U	< 210 U	< 200 U	< 340 U	< 180 U	< 540 U	< 210 U	< 190 U	< 200 U	< 190 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	175	< 370 U	< 410 U	< 390 U	< 670 U	< 350 U	< 1100 U	< 400 U	< 370 U	< 380 U	< 360 U
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	-	-	-	-	-

Table 11
Sediment Analytical Results
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Lower Neponset River
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					Location	23A-0055-B1C1	23A-0055-B1C1	23A-0055-B1C1	23A-0056-PLC1	23A-0056-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0057-PLC1	23A-0058-PLC1	23A-0058-PLC2
					Sample Name	23A-0055-B1C1-AS	23A-0055-B1C1-BS	23A-0055-B1C1-CS	23A-0056-PLC1-AS	23A-0056-PLC1-BS	23A-0057-PLC1-AS	23A-0057-PLC1-BS	23A-0057-PLC1-CS	23A-0058-PLC1-AS	23A-0058-PLC2-BS
					Sample Date	6/25/2023	6/25/2023	6/25/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023	6/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 2.1 ft	2.1 - 3.4 ft	0 - 0.5 ft	0.5 - 2 ft	0 - 0.5 ft	0.5 - 1.5 ft	1.5 - 2.5 ft	0 - 0.5 ft	0.5 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300			< 7.5 U	< 8.4 U	< 8.0 U	< 13 U	< 7.0 U	< 21 U	< 8.1 UJ	< 7.4 U	< 7.7 U	< 7.2 U
1-Methylnaphthalene	90-12-0	ug/kg	18	141		< 3.7 U	< 4.1 U	< 3.9 U	< 6.7 U	0.81 J	< 11 U	< 4.0 UJ	< 3.7 U	< 3.8 U	< 3.6 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2		< 3.7 U	< 4.1 U	< 3.9 U	2.1 J	0.95 J	3.1 J	1.6 J-	< 3.7 U	1.4 J	< 3.6 U
Acenaphthene	83-32-9	ug/kg	360000	6.7		0.89 J	< 4.1 U	< 3.9 U	< 6.7 U	< 3.5 U	< 11 U	< 4.0 UJ	< 3.7 U	< 3.8 U	< 3.6 U
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9		2.4 J	< 4.1 U	< 3.9 U	< 6.7 U	3.1 J	< 11 U	< 4.0 UJ	< 3.7 U	< 3.8 U	< 3.6 U
ANTHRACENE	120-12-7	ug/kg	1800000	57		3.2 J	< 4.1 U	< 3.9 U	< 6.7 U	2.7 J	< 11 U	< 4.0 UJ	< 3.7 U	0.85 J	2.4 J
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108		19	< 4.1 U	< 3.9 U	5.7 J	17	3.7 J	6.8 J-	< 3.7 U	5.9	9.0
BENZO(A)PYRENE	50-32-8	ug/kg	110	150		18	< 4.1 U	< 3.9 U	< 6.7 U	10	< 11 U	2.6 J-	< 3.7 U	< 3.8 U	7.7
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190		24	< 4.1 U	< 3.9 U	6.5 J	14	8.4 J	14 J-	< 3.7 U	8.3	9.5
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170		12	< 4.1 U	< 3.9 U	< 6.7 U	5.5	< 11 U	1.1 J-	< 3.7 U	< 3.8 U	4.8
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240		8.9	< 4.1 U	< 3.9 U	2.6 J	5.6	3.5 J	5.4 J-	< 3.7 U	3.3 J	3.6
CHRYSENE	218-01-9	ug/kg	110000	166		19	< 4.1 U	< 3.9 U	4.4 J	16	5.8 J	9.8 J-	< 3.7 U	5.8	9.1
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33		2.9 J	< 4.1 U	< 3.9 U	< 6.7 U	1.6 J	< 11 U	1.9 J-	< 3.7 U	< 3.8 U	1.2 J
FLUORANTHENE	206-44-0	ug/kg	240000	423		43	< 4.1 U	< 3.9 U	9.4	39	11	20 J-	< 3.7 U	13	22
FLUORENE	86-73-7	ug/kg	240000	77		1.2 J	< 4.1 U	< 3.9 U	< 6.7 U	0.92 J	< 11 U	< 4.0 UJ	< 3.7 U	< 3.8 U	0.98 J
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200		9.7	< 4.1 U	< 3.9 U	2.4 J	5.1	3.2 J	4.9 J-	< 3.7 U	1.7 J	4.0
Naphthalene	91-20-3	ug/kg	2000	176		0.96 JEB	< 4.1 U	< 3.9 U	27 EB	1.7 JEB	43 EB	18 JEB	< 3.7 U	16 EB	0.82 JEB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10		< 7.6 U	< 8.4 U	< 8.0 U	< 14 U	< 7.1 U	< 21 U	< 8.2 UJ	< 7.5 U	< 7.8 U	< 7.3 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204		16	< 4.1 U	< 3.9 U	3.5 J	11	4.8 J	6.0 J-	< 3.7 U	5.4	12
PYRENE	129-00-0	ug/kg	180000	195		36 J	< 4.1 U	< 3.9 U	7.2	29	8.6 J	15 J-	< 3.7 U	7.4	17
Total Organic Carbon															
TOTAL ORGANIC CARBON	TOC	mg/kg				5500	1700	1500	64000	12000	160000 J	15000	510	-	2600
AVS/SEM															
Acid Volatile Sulfide	AVS	umol/g				1.0 J	-	-	5.1	-	53 J	-	-	< 2.5 U	-
Cadmium	7440-43-9	umol/g				0.0018 J	-	-	0.0087	-	0.014 J	-	-	0.0022	-
Copper	7440-50-8	umol/g				0.11	-	-	0.42	-	0.50 J	-	-	0.19	-
Lead	7439-92-1	umol/g				0.089	-	-	0.60	-	0.66 J	-	-	0.13	-
Nickel	7440-02-0	umol/g				0.032	-	-	0.068	-	0.14 J	-	-	0.069	-
Silver	7440-22-4	umol/g				0.00017	-	-	0.00029	-	0.00036 J	-	-	0.000089 J	-
Zinc	7440-66-6	umol/g				0.50	-	-	1.4	-	3.9 J	-	-	0.61	-
Mercury	7439-97-6	umol/g				< 0.000026 R	-	-	< 0.000045 U	-	< 0.00011 UJ	-	-	< 0.000031 U	-

Table 11
Sediment Analytical Results
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Lower Neponset River
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				Location	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0061-PLC1	23A-0061-PLC1
				Sample Name	23A-0059-PLC1-AS	23A-0059-PLC1-BS	23A-0059-PLC1-CS	23A-0059-PLC1-AT	23A-0059-PLC1-BT	23A-0060-PLC1-AS	23A-0060-PLC1-BS	23A-0060-PLC1-CS	23A-0061-PLC1-AS	23A-0061-PLC1-BS
				Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	FD	FD	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.2 ft	1.2 - 2 ft	0 - 0.5 ft	0.5 - 1.2 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 4.6 U	< 1.8 U	-	< 5.6 U	< 1.9 U	< 8.7 UJ	< 2.4 U	< 3.4 U	< 5.2 UJ	< 2.1 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 4.6 U	< 1.8 U	-	< 5.6 U	< 1.9 U	< 8.7 UJ	< 2.4 U	< 3.4 U	< 5.2 UJ	< 2.1 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 4.6 U	< 1.8 U	-	< 5.6 U	< 1.9 U	< 8.7 UJ	< 2.4 U	< 3.4 U	< 5.2 UJ	< 2.1 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 4.6 U	< 1.8 U	-	< 5.6 U	< 1.9 U	< 8.7 UJ	< 2.4 U	< 3.4 U	< 5.2 UJ	< 2.1 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 8.9 U	< 3.6 U	-	< 11 U	< 3.7 U	< 17 UJ	< 4.6 U	< 6.6 U	< 10 UJ	< 4.1 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		0.77 J	< 1.8 U	-	< 5.6 U	0.31 J	< 8.7 UJ	8.5 J	8.8 J	< 5.2 UJ	< 2.1 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		1.2 J	0.26 J	-	1.3 J	0.25 J	< 8.7 UJ	62 J	52 J	2.6 J	18 J
DIELDRIN	60-57-1	ug/kg	34	1.9	< 8.9 U	< 3.6 U	-	< 11 U	0.28 J	2.0 J	< 4.6 U	< 6.6 U	< 10 UJ	< 4.1 U
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 8.9 U	< 3.6 U	-	< 11 U	< 3.7 U	< 17 UJ	< 4.6 U	< 6.6 U	< 10 UJ	< 4.1 U
ENDRIN	72-20-8	ug/kg	1900	2.22	1.1 J	0.38 J	-	1.3 J	0.67 J	< 17 UJ	3.7 J	21	< 10 UJ	3.0 J
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 8.9 U	< 3.6 U	-	< 11 U	< 3.7 U	< 17 UJ	< 4.6 U	< 6.6 U	< 10 UJ	< 4.1 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 8.9 U	< 3.6 U	-	< 11 U	< 3.7 U	< 17 UJ	< 4.6 U	< 6.6 U	< 10 UJ	< 4.1 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	3.8 J	0.37 J	-	4.5 J	0.43 J	< 8.7 UJ	160 J	200 J	3.1 J	47 J
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 4.6 U	< 1.8 U	-	< 5.6 U	< 1.9 U	< 8.7 UJ	< 2.4 U	< 3.4 U	< 5.2 UJ	< 2.1 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	0.52 J	< 1.8 U	-	< 5.6 U	< 1.9 U	< 8.7 UJ	< 2.4 U	46 J	1.6 J	< 2.1 UJ
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 46 U	< 18 U	-	< 57 U	< 19 U	< 87 UJ	< 24 U	< 34 U	< 52 UJ	< 21 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	0.85 J	0.21 J	-	0.95 J	0.44 J	2.5 J	20 J	4.2 J	< 10 UJ	3.7 J+
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	0.72 J	0.38 J	-	0.92 J	0.82 J	< 17 UJ	< 4.6 U	10 J	< 10 UJ	< 4.1 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	2.4 J	1.7 J	-	2.2 J	3.1 J	< 17 UJ	12 J+	44 J+	11 J	6.7 J+
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 460 U	< 180 U	-	< 570 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 520 UJ	< 210 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		1.2 J	0.62 J	-	1.3 J	1.2 J	< 8.7 UJ	< 2.4 U	22 J	1.7 J	< 2.1 U
Grain Size														
%CLAY	%CLAY	%			0	5.9	-	0	4.9	3.4	1.2	12.5	24.4	19.2
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			1.2	11.6	-	1.1	7.5	1.7	10.9	0.1	3.4	4.1
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			76.2	28.3	-	82.6	17.9	29.5	25.5	20.9	43.1	40
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			15	9	-	14.1	7.3	2.5	28.6	3.3	15.3	18.2
Gravel	GRAVEL	%			7.6	29.3	-	2.2	45.1	3.5	3.5	0.6	1.4	2.7
Hydrometer, Reading 1, Percent Passing	HYD01	%			33.5	9.7	-	24.6	9.1	13.7	4.7	39.1	28.1	29.2
Hydrometer, Reading 2, Percent Passing	HYD02	%			28.4	8.5	-	15.9	8.1	13.7	4.7	28.5	28.1	26.7
Hydrometer, Reading 3, Percent Passing	HYD03	%			18.4	8.5	-	11.6	6	8.6	2.9	23.1	24.4	24.2
Hydrometer, Reading 4, Percent Passing	HYD04	%			13.4	7.2	-	11.6	4.9	8.6	2.9	17.8	24.4	21.7
Hydrometer, Reading 5, Percent Passing	HYD05	%			13.4	5.9	-	11.6	4.9	3.4	1.2	12.5	24.4	19.2
Hydrometer, Reading 6, Percent Passing	HYD06	%			13.4	3.4	-	7.2	2.8	3.4	1.2	7.1	24.4	16.7
Hydrometer, Reading 7, Percent Passing	HYD07	%			3.4	0.8	-	2.9	0.7	3.4	1.2	1.8	20.8	16.7
Sand	308075-07-2	%			92.4	48.9	-	97.8	32.7	33.7	65	24.3	61.8	62.3
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			91.2	59.1	-	96.7	47.4	94.8	85.6	99.3	95.2	93.2
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			76.2	50.1	-	82.6	40.1	92.3	57	96	79.9	75
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			31.9	37.9	-	38.4	31.3	89.4	33.6	89.1	55.2	54.3
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			86.4	54.8	-	92.4	43.9	93.4	80.8	98.1	90.4	88.3
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			55.8	44.1	-	62.5	35.4	90.4	36	92.6	66.8	62.8
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			18.7	33.4	-	26.3	28.6	86.8	33.1	87.5	49.3	49.5
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			0	21.8	-	0	22.2	62.8	31.5	75.1	36.8	35
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			92.4	70.7	-	97.8	54.9	96.5	96.5	99.4	98.6	97.3
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			99.9	78.1	-	100	72.1	98.6	100	99.7	100	99.9
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	-	100	100	100	100	100	100	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	-	100	100	100	100	100	100	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	-	100	100	100	100	100	100	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	-	100	100	100	100	100	100	100
SILT	445	%			0	15.9	-	0	17.3	59.4	30.3	62.6	12.4	15.8

Table 11
Sediment Analytical Results
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					Location	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0061-PLC1	23A-0061-PLC1
					Sample Name	23A-0059-PLC1-AS	23A-0059-PLC1-BS	23A-0059-PLC1-CS	23A-0059-PLC1-AT	23A-0059-PLC1-BT	23A-0060-PLC1-AS	23A-0060-PLC1-BS	23A-0060-PLC1-CS	23A-0061-PLC1-AS	23A-0061-PLC1-BS
					Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/28/2023	6/28/2023
					Sample Type	N	N	N	FD	FD	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 1.2 ft	1.2 - 2 ft	0 - 0.5 ft	0.5 - 1.2 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	2510	377 J	-	3350 J	135 J	1420 J	374	5840 J	682	1110
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	40.7	2.31 J	-	63.8 J	< 0.597 UJ	33.1 J	8.43	105	18.3	31.0
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	25.5	2.58 JN	-	34.3 J	1.32 JN	16.9 J	3.55 J	45.4 J	8.36	10.6
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	85.1 J	3.24 J	-	117 J	0.91 JN	62.4 J	23.2 J	237 J	30.9	72.5
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	134	22.5 J	-	170 J	8.12 J	77.2 J	21.0 J	312 J	36.1	55.7
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	47.2	1.48 JN	-	63.7 J	0.823 J	35.2 J	9.33	105	18.6	30.6 JN
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	79.3	11.3 J	-	96.4 J	4.84 J	44.7 J	10.3 JN	183 J	20.9	34.3
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 1.44 U	< 0.457 U	-	< 2.43 UJ	< 0.384 U	< 1.68 UJ	< 0.578 U	< 2.05 U	< 2.01 U	< 4.05 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	12.2 J	< 0.501 UJ	-	14.6 JN	< 0.608 UJ	6.47 JN	1.3 J	22.4 J	3.76 JN	4.16 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	10.5	< 0.544 U	-	13.0 J	< 0.283 U	7.55 J	4.47	24.4	4.45	11.3 JN
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	1150 J+	52.3 J	-	1690 J	18.6 J	1010 J+	191 J+	1980 J+	483 J+	654 J+
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	40.2	2.26 J	-	55.0 J	0.961 J	33.5 J	10.3	84.9	17.8	31.6
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	52.4 J	2.26 J	-	66.9 J	0.766 JN	25.9 J+	29.5 J+	230 J+	23.8	107
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	4.64	< 0.927 UJ	-	4.92 J	< 0.37 U	1.23 JN	< 0.484 U	16.0 JN	< 1.87 UJ	2.64 JN
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	22.0	0.882	-	31.5 J	0.696 JN	11.9 J	9.69	98.7	8.06	39.3
OCDD	3268-87-9	pg/g	16000	5000	16100 J	1540 J	-	20500 J	580 J	9840 J	2340	30600 J	5360	7370
OCDF	39001-02-0	pg/g	16000	5000	1290	67.8 J	-	1850 J	22.3 J	1140 J	172	2050	509 J	599
Total HpCDD (a)	RA_Total_HpCDD	pg/g			2510	377	-	3350	135	1420	374	5840	682	1110
Total HpCDF (a)	RA_Total_HpCDF	pg/g			1190	54.6	-	1750	18.6	1040	199	2090	501	685
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		239	36.4	-	301	14.3	139	34.9	540	65.4	101
Total HxCDF (a)	RA_Total_HxCDF	pg/g			173	6.98	-	236	2.69	131	42.8	427	67.3	135
Total PeCDD (a)	RA_Total_PeCDD	pg/g			12.2	< 0.501 U	-	14.6	< 0.608 U	6.47	1.3	22.4	3.76	4.16
Total PeCDF (a)	RA_Total_PeCDF	pg/g			62.9	2.26	-	79.9	0.766	33.5	34.0	254	28.3	118
Total TCDD (a)	RA_Total_TCDD	pg/g			4.64	< 0.927 U	-	4.92	< 0.37 U	1.23	< 0.484 U	16.0	< 1.87 U	2.64
Total TCDF (a)	RA_Total_TCDF	pg/g			22.0	0.882	-	31.5	0.696	11.9	9.69	98.7	8.06	39.3
PCB Congeners															
PCB-001	2051-60-7	ng/g	230	14.0	3500 JEB	47.3 JEB	-	4930 JEB	83.7 JEB	108 JEB	7470 JEB	46400 JEB	316 JEB	7330 JEB
PCB-002	2051-61-8	ng/g	230	14.0	18.5	< 0.0266 U	-	24.9 J	< 0.0260 U	0.855 J	24.5 J	130 J	2.21 JEB	62 JEB
PCB-003	2051-62-9	ng/g	230	14.0	255 J	2.08 J	-	372 J	6.27 J	24.2 J	790 J	3710 J	52.9 J	1290 J
PCB-004/010	PCB-4/10	ng/g	230	14.0	8430 JEB	81.1 JEB	-	10900 JEB	108 JEB	274 JEB	11500 JEB	103000 JEB	1070 J	34300 J
PCB-005/008	PCB-5/8	ng/g	230	14.0	2870 J	42.3 J	-	4030 J	53.7 J	137 J	3330 J	41400 J	1050 J	31400 J
PCB-006	25569-80-6	ng/g	230	14.0	548 J	10.9	-	667 J	12.5	26.8 J	423 J	9740 J	148 J	3960 J
PCB-007/009	PCB-7/9	ng/g	230	14.0	129 J	2.46 J	-	175 J	1.44 J	5.09 J	116 J	789 J	17.1 J	699 J
PCB-011	2050-67-1	ng/g	230	14.0	49 JEB	0.681 JEB	-	61.3 JEB	< 0.0241 U	5.57 JEB	75.0 JEB	589 JEB	10.8 JEB	212 JEB
PCB-012/013	PCB-12/13	ng/g	230	14.0	215 J	1.91 J	-	258 J	1.14 J	11.3 J	198 J	914 J	33.7	504 J
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0248 U	< 0.0247 U	-	< 0.0409 UJ	< 0.0242 U	< 0.0373 UJ	< 0.0248 U	< 0.257 U	< 0.0471 U	< 0.227 U
PCB-015	2050-68-2	ng/g	230	14.0	754 J	7.61 J	-	998 J	4.67 J	84.3 J	1120 J	2630 J	267 J	5720 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	2440 JEB	20.7 JEB	-	2910 JEB	17.6 EB	150 JEB	1540 JEB	23000 JEB	489 JEB	12600 JEB
PCB-017	37680-66-3	ng/g	230	14.0	1920 JEB	15.6 EB	-	2220 JEB	13.5 EB	88.6 JEB	916 JEB	23300 JEB	484 JEB	15300 JEB
PCB-018	37680-65-2	ng/g	230	14.0	673 JEB	9.53 JEB	-	758 JEB	6.66 JEB	48.6 JEB	318 JEB	6620 JEB	201 JEB	3390 JEB
PCB-019	38444-73-4	ng/g	230	14.0	1630 J	11.7	-	2090 J	12.8	90.5 J	1740 J	17600 J	232 J	6400 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	67.1 JEB	2.52 JEB	-	74.1 JEB	1.23 JEB	12.5 JEB	59.7 JEB	681 JEB	33.9 EB	396 JEB
PCB-022	38444-85-8	ng/g	230	14.0	120 J	2.3 J	-	115 J	1.1 J	13.2 J	100 J	768 J	42.7 JEB	421 JEB
PCB-023/034	PCB-23/34	ng/g	230	14.0	57.2 J	0.348 J	-	69.3 J	< 0.0437 U	2.76 J	34.1 J	782 J	6.41 J	179
PCB-024/027	PCB-24/27	ng/g	230	14.0	760 J	4.81 J	-	1040 J	5.77 J	55.7 J	636 J	9080 J	115 J	3470 J
PCB-025	55712-37-3	ng/g	230	14.0	816 J	6.33 J	-	864 J	3.27 J	39.1 J	325 J	4990 J	129 J	2970 J
PCB-026	38444-81-4	ng/g	230	14.0	1090 J	10.2	-	1190 J	6.86 J	64.0 J	545 J	10000 J	152 J	3200 J
PCB-028	7012-37-5	ng/g	230	14.0	499 JEB	7.51 JEB	-	523 JEB	4.4 JEB	89.5 JEB	359 JEB	4260 JEB	410 JEB	6580 JEB
PCB-029	15862-07-4	ng/g	230	14.0	1.25 J	< 0.0258 U	-	1.54 J	< 0.0253 U	< 0.0389 UJ	1.42 J	8.60 J	< 0.0491 U	4.89 J

Table 11
Sediment Analytical Results
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				Location	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0061-PLC1	23A-0061-PLC1
				Sample Name	23A-0059-PLC1-AS	23A-0059-PLC1-BS	23A-0059-PLC1-CS	23A-0059-PLC1-AT	23A-0059-PLC1-BT	23A-0060-PLC1-AS	23A-0060-PLC1-BS	23A-0060-PLC1-CS	23A-0061-PLC1-AS	23A-0061-PLC1-BS
				Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	FD	FD	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.2 ft	1.2 - 2 ft	0 - 0.5 ft	0.5 - 1.2 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	0.978 J	< 0.0236 U	-	1.3 J	< 0.0232 U	< 0.0356 UJ	1.05 J	13.5 J	< 0.0450 U	3.63 J
PCB-031	16606-02-3	ng/g	230	14.0	1830 JEB	17.3 EB	-	2010 JEB	11.4 EB	108 JEB	991 JEB	9660 JEB	296 JEB	5160 JEB
PCB-035	37680-69-6	ng/g	230	14.0	6.85 J+	< 0.0281 U	-	5.82 J	< 0.0275 U	< 0.0423 UJ	7.27 J+	42.2 J	< 0.0534 U	27.1 J+
PCB-036	38444-87-0	ng/g	230	14.0	< 0.0240 U	< 0.0239 U	-	< 0.0396 UJ	< 0.0234 U	< 0.0361 UJ	4.27 J	74.3 J	< 0.0456 U	24.7 J
PCB-037	38444-90-5	ng/g	230	14.0	104 J	1.72 J	-	102 J	< 0.0258 U	14.5 J	101 J	275 J	39.9 J	279 J
PCB-038	53555-66-1	ng/g	230	14.0	32.4 J	< 0.0198 U	-	37.3 J	< 0.0194 U	3.91 J	< 0.0199 UJ	295 J	6.16 J	140
PCB-039	38444-88-1	ng/g	230	14.0	8.6 J	< 0.0122 U	-	9.66 J	< 0.0119 U	< 0.0183 UJ	9.27 J	84.3 J	< 0.0232 U	35.7 J
PCB-040	38444-93-8	ng/g	230	14.0	12	0.541 J	-	16.4 J	< 0.0199 U	5.04 J	18.4	245 J	13.1 J	136
PCB-041/064	PCB-41/64	ng/g	230	14.0	82.8 J	3.22 J	-	98 J	1.53 J	24.5 J	114 J	2240 J	61.6 J	748 J
PCB-042	36559-22-5	ng/g	230	14.0	174 J	3.43 J	-	197 J	1.52 J	21.8 J	119 J	1450 J	64.9 J	761 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	1400 J	21.3 J	-	1720 J	10.6	131 J	701 J	13100 J	284 J	4720 J
PCB-044	41464-39-5	ng/g	230	14.0	141 JEB	7.92 JEB	-	177 JEB	3.64 JEB	40.6 JEB	154 JEB	1950 JEB	109 JEB	1190 JEB
PCB-045	70362-45-7	ng/g	230	14.0	18.1	< 0.0221 U	-	26 J	0.48 J	7.37 J	30.1 J	956 J	18.9	309 J
PCB-046	41464-47-5	ng/g	230	14.0	61.1 J	0.808 J	-	74.1 J	< 0.0253 U	5.56 J	23.5 J	331 J	14.8 J	149
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	1150 J	12.1	-	1460 J	6.63 J	115 J	886 J	11300 J	232 J	5410 J
PCB-050	62796-65-0	ng/g	230	14.0	17.5	< 0.0315 U	-	24.2 J	< 0.0308 U	1.49 J	13.1	206 J	2.94 J	75.8 J
PCB-051	68194-04-7	ng/g	230	14.0	379 J	2.91 J	-	473 J	1.97 J	25.1 J	158 J	2960 J	53.5 J	1480 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	1000 JEB	23.4 JEB	-	1230 JEB	11 EB	106 JEB	482 JEB	9590 JEB	219 JEB	3260 JEB
PCB-053	41464-41-9	ng/g	230	14.0	620 J	5.18 J	-	824 J	3.49 J	46.2 J	237 J	6040 J	94.8 J	2670 J
PCB-054	15968-05-5	ng/g	230	14.0	52.4 J	0.375 J	-	63.1 J	0.324 J	3.52 J	36.8 J	404 J	5.7 J	150
PCB-055	74338-24-2	ng/g	230	14.0	2.3 J	< 0.0272 U	-	3.25 J	< 0.0266 U	< 0.0410 UJ	2.11 J+	38.2 J	0.923 J	3.79 J
PCB-056/060	PCB-56/60	ng/g	230	14.0	25.2 JEB	2.36 JEB	-	35.2 JEB	0.822 JEB	16.2 JEB	97.7 JEB	91.8 JEB	42.5 J	142 J
PCB-057	70424-67-8	ng/g	230	14.0	18	< 0.0210 U	-	23.1 J	< 0.0206 U	1.78 J	10.8 J+	465 J	3.18 J	116
PCB-058	41464-49-7	ng/g	230	14.0	1.46 J	< 0.0190 U	-	1.62 J	< 0.0186 U	< 0.0287 UJ	1.38 J+	18.5 J	0.91 J	7.08 J
PCB-059	74472-33-6	ng/g	230	14.0	4.53 J	< 0.0373 U	-	8.9 J	< 0.0365 U	2.90 J	10.7 J	389 J	5.23 J	78.3 J
PCB-061/074	PCB-61/74	ng/g	230	14.0	117 J	4.3 J	-	142 J	1.57 J	20.5 J	157 J	475 J	67.8 J	441 J
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0260 U	< 0.0260 U	-	< 0.0430 UJ	< 0.0255 U	< 0.0392 UJ	< 0.0261 U	< 0.270 U	< 0.0495 U	< 0.239 U
PCB-063	74472-34-7	ng/g	230	14.0	68.6 J	1.08 J	-	87.4 J	0.389 J	8.12 J	50.9 J	1240 J	14.6 J	361 J
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0375 U	< 0.0375 U	-	< 0.0619 UJ	< 0.0367 U	< 0.0565 UJ	< 0.0377 U	15.4 J	< 0.0714 U	2 J
PCB-066/080	PCB-66/80	ng/g	230	14.0	113 JEB	9.43 JEB	-	136 JEB	3.19 JEB	36.4 JEB	195 JEB	510 JEB	105 JEB	519 JEB
PCB-067	73575-53-8	ng/g	230	14.0	6.56 J	< 0.0230 U	-	8.35 J	< 0.0225 U	1.59 J	12.1 J+	81.5 J	4.75 J	34.3 J
PCB-068	73575-52-7	ng/g	230	14.0	30 J	0.939 J	-	37.1 J	0.343 J	5.18 J	21.6 J	310 J	4.21 J	79 J
PCB-069	60233-24-1	ng/g	230	14.0	6.2 J	< 0.0283 U	-	8.64 J	< 0.0277 U	< 0.0426 UJ	5.39 J+	86.8 J	1.27 J	29.8 J
PCB-070	32598-11-1	ng/g	230	14.0	72.8 J	13.8	-	90.6 J	4.48 J	35.0 J	193 J	253 J	90.3 JEB	422 JEB
PCB-071	41464-46-4	ng/g	230	14.0	350 J	4.85 J	-	425 J	2.46 J	29.4 J	163 J	3640 J	72.7 J	1370 J
PCB-072	41464-42-0	ng/g	230	14.0	32.3 J	0.832 J	-	42.2 J	0.347 J	3.86 J	24.5 J	402 J	5.2 J	117
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0376 U	< 0.0376 U	-	< 0.0621 UJ	< 0.0368 U	< 0.0566 UJ	< 0.0378 U	< 0.391 U	< 0.0716 U	< 0.345 U
PCB-077	32598-13-3	ng/g	38.0	14.0	18.7 J+	1.47 J+	-	25.2 J	< 0.0217 U	7.15 J+	26.1 J	152 J	13.7 J+	73.9 J+
PCB-078	70362-49-1	ng/g	230	14.0	1.34 J	< 0.0192 U	-	1.53 J	< 0.0188 U	< 0.0290 UJ	0.834 J	17.1 J	< 0.0366 U	6.16 J
PCB-079	41464-48-6	ng/g	230	14.0	2 J	< 0.0241 U	-	2.46 J	< 0.0236 U	< 0.0364 UJ	0.590 J+	13.8 J	< 0.0460 U	< 0.222 U
PCB-081	70362-50-4	ng/g	12.0	14.0	1.99 J+	0.507 J+	-	2.48 J	< 0.0369 U	< 0.0568 UJ	1.85 J	< 0.392 UJ	< 0.0718 U	5.32 J+
PCB-082	52663-62-4	ng/g	230	14.0	10.2	1.87 J	-	12.3 J	0.528 J	4.15 J	16.5 J	45.5 J	7.19 J	36.2 J
PCB-083/109	PCB-83/109	ng/g	230	14.0	16	1.49 J	-	19.8 J	0.563 J	4.08 J	13.0 J	270 J	5.58 J	93.4
PCB-084	52663-60-2	ng/g	230	14.0	43.9 J	5.91 J	-	54.6 J	2.09 J	13.1 J	36.3 J	755 J	20.1	209 J
PCB-085/120	PCB-85/120	ng/g	230	14.0	26.1 J	4.43 J	-	31.8 J	1.26 J	10.2 J	34.1 J	119	17 J	86.3 J
PCB-086/097	PCB-86/97	ng/g	230	14.0	40.6 J	7.28 J	-	48.3 J	2.6 J	12.2 J	43.1 J	264 J	19.9	94
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	< 0.0151 U	9.42 J	-	< 0.0250 UJ	3.07 J	20.3 J	82.0 J	< 0.157 UJ	< 0.0288 U	< 0.139 U
PCB-088/121	PCB-88/121	ng/g	230	14.0	1.27 J	< 0.0547 U	-	2.08 J	< 0.0535 U	< 0.0824 UJ	1.42 J	12.8 J	< 0.104 U	4.26 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	206 J	30.3 J	-	249 J	9.99 J	50.1 J	145 J	1750 J	63.5 J	479 J
PCB-091	68194-05-8	ng/g	230	14.0	101 J	3.94 J	-	122 J	1.55 J	16.4 J	71.7 J	1470 J	25.3	504 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0061-PLC1	23A-0061-PLC1
					Sample Name	23A-0059-PLC1-AS	23A-0059-PLC1-BS	23A-0059-PLC1-CS	23A-0059-PLC1-AT	23A-0059-PLC1-BT	23A-0060-PLC1-AS	23A-0060-PLC1-BS	23A-0060-PLC1-CS	23A-0061-PLC1-AS	23A-0061-PLC1-BS
					Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/28/2023	6/28/2023
					Sample Type	N	N	N	FD	FD	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 1.2 ft	1.2 - 2 ft	0 - 0.5 ft	0.5 - 1.2 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-092	52663-61-3	ng/g	230	14.0	106 J	5.67 J	-	130 J	2.18 J	16.4 J	56.2 J	1390 J	18.1 J	356 J
PCB-093/095	PCB-93/95	ng/g	230	14.0	115 J	19.8 J	-	148 J	6.98 J	39.6 J	95.3 J	2530 J	54.5 J	766 J
PCB-094	73575-55-0	ng/g	230	14.0	17.7	< 0.0451 U	-	22.1 J	< 0.0442 U	2.28 J	11.6	261 J	2.54 J	78.3 J
PCB-096	73575-54-9	ng/g	230	14.0	4.97 J	< 0.0213 U	-	6.03 J	< 0.0209 U	1.07 J	4.93 J	133	1.95 J	39.6 J
PCB-098/102	PCB-98/102	ng/g	230	14.0	31.5 J	0.988 J	-	38.6 J	< 0.0386 U	4.40 J	25.5 J	456 J	7.79 J	168
PCB-099	38380-01-7	ng/g	230	14.0	131 J	14.7	-	156 J	4.73 J	27.7 J	110 J	986 J	41.5 J	333 J
PCB-100	39485-83-1	ng/g	230	14.0	24.7 J	< 0.0240 U	-	29.6 J	< 0.0235 U	2.09 J	14.3	166	3.26 J	59 J
PCB-103	60145-21-3	ng/g	230	14.0	17.8	0.478 J	-	21.6 J	0.165 J	1.98 J	8.87 J	196	2.68 J	60.6 J
PCB-104	56558-16-8	ng/g	230	14.0	2.25 J	< 0.0230 U	-	2.68 J	< 0.0225 U	< 0.0346 UJ	1.28 J	10.3 J	0.19 J	3.39 J
PCB-105/127	PCB-105/127	ng/g	120	14.0	30.7 J	5.07 J	-	33.4 J	1.48 J	11.7 J	64.9 J	80.0 J	27.7	82.2 J
PCB-106/118	PCB-106/118	ng/g	120	14.0	135 J	30 J	-	156 J	9.58 J	42.6 J	154 J	678 J	67.1 J	321 J
PCB-107/108	PCB-107/108	ng/g	230	14.0	20 J	2.76 J	-	22.8 J	0.829 J	3.83 J	17.6	175	7.16 J	58.8 J
PCB-110	38380-03-9	ng/g	230	14.0	267 J	36.7 J	-	328 J	12.7 J	75.1 J	193 J	3830 J	95 J	1160 J
PCB-111/117	PCB-111/117	ng/g	230	14.0	66.3 J	< 0.0678 U	-	77.7 J	< 0.0664 U	18.2 J	< 0.0681 UJ	464 J	25.8	188 J
PCB-112	74472-36-9	ng/g	230	14.0	1.93 J	< 0.0236 U	-	2.4 J	< 0.0232 U	< 0.0356 UJ	2.24 J	56.1 J	0.665 J	13.7 J
PCB-113	68194-10-5	ng/g	230	14.0	1.61 J	< 0.0248 U	-	2.44 J	< 0.0243 U	< 0.0374 UJ	< 0.0249 U	60.6 J	< 0.0473 U	19.7 J
PCB-114	74472-37-0	ng/g	120	14.0	2.61 J	< 0.0206 U	-	3.18 J	< 0.0202 U	< 0.0311 UJ	6.66 J	11.6 J	2.4 J	8.79 J
PCB-119	56558-17-9	ng/g	230	14.0	28.7 J	1.49 J	-	34.3 J	0.556 J	4.36 J	15.8	300 J	5.97 J	117
PCB-122	76842-07-4	ng/g	230	14.0	0.743 J	< 0.0174 U	-	< 0.0287 UJ	< 0.0170 U	< 0.0262 UJ	2.49 J	< 0.181 U	1.07 J	3.17 J
PCB-123	65510-44-3	ng/g	120	14.0	4.59 J+	0.727 J+	-	5.48 J	< 0.0158 U	1.89 J+	5.08 J+	29.0 J+	2.19 J+	12.3 J+
PCB-124	70424-70-3	ng/g	230	14.0	3.44 J	0.666 J	-	3.77 J	< 0.0212 U	1.58 J	5.21 J	8.22 J	2.17 J	7.19 J
PCB-125	74472-39-2	ng/g	230	14.0	1.48 J	< 0.0237 U	-	1.61 J	< 0.0233 U	< 0.0358 UJ	1.93 J	6.25 J	< 0.0452 U	2.77 J
PCB-126	57465-28-8	ng/g	0.0360	14.0	4.56 J+	< 0.0338 U	-	5.94 J	< 0.0331 U	< 0.0509 UJ	2.17 J	41.6 J	< 0.0643 U	7.18 J+
PCB-128	38380-07-3	ng/g	230	14.0	28.5 J	5.06 J	-	33.1 J	1.57 J	10.7 J	15.4 J	112 J	10.1 J	53.7 J
PCB-129	55215-18-4	ng/g	230	14.0	5.43 J	1.15 J	-	5.57 J	< 0.0257 U	2.53 J	4.08 J	17.5 J	2.25 J	9.55 J
PCB-130	52663-66-8	ng/g	230	14.0	15.1	1.71 J	-	17.2 J	0.596 J	3.87 J	6.36 J	116 J	3.47 J	34 J
PCB-131/142	PCB-131/142	ng/g	230	14.0	1.67 J	< 0.0507 U	-	2.21 J	< 0.0497 U	< 0.0765 UJ	< 0.0510 U	< 0.527 U	< 0.0966 U	3.43 J
PCB-132/168	PCB-132/168	ng/g	230	14.0	65.6 J	9.9	-	75.4 J	3.29 J	18.8 J	26.0 J	494 J	15.6 J	114
PCB-133	35694-04-3	ng/g	230	14.0	10.8	0.449 J	-	12.6 J	< 0.0181 U	< 0.0278 UJ	3.38 J	141	1.05 J	20 J
PCB-134	52704-70-8	ng/g	230	14.0	9.96	1.49 J	-	11.9 J	0.392 J	3.09 J	5.12 J	107	2.65 J	33.8 J
PCB-135/144	PCB-135/144	ng/g	230	14.0	33.2 J	3.73 J	-	38.8 J	1.21 J	7.54 J	14.2 J	374 J	6.68 J	86.7 J
PCB-136	38411-22-2	ng/g	230	14.0	21.8 J	3.21 J	-	25.9 J	1.07 J	6.21 J	10.0 J	227 J	5.22 J	60.4 J
PCB-137	35694-06-5	ng/g	230	14.0	10.2	1.77 J	-	11.4 J	0.522 J	3.45 J	6.96 J	32.8 J	3.7 J	19.5 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	184 J	27.7 J	-	231 J	8.74 J	54.3 J	88.2 J	1060 J	54.1 J	397 J
PCB-139/149	PCB-139/149	ng/g	230	14.0	138 J	17.2	-	159 J	5.7 J	34.7 J	59.3 J	1070 J	30	314 J
PCB-140	59291-64-4	ng/g	230	14.0	3.52 J	< 0.0349 U	-	4.23 J	< 0.0342 U	< 0.0527 UJ	0.976 J	44.3 J	< 0.0665 U	5.71 J
PCB-141	52712-04-6	ng/g	230	14.0	17.2	3.5 J	-	20 J	1.1 J	7.15 J	11.4 J	55.9 J	7.04 J	30.8 J
PCB-143	68194-15-0	ng/g	230	14.0	1.18 J	< 0.0315 U	-	< 0.0520 UJ	< 0.0308 U	< 0.0475 UJ	0.754 J	< 0.327 U	< 0.0600 U	< 0.289 U
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0416 U	< 0.0416 U	-	< 0.0688 UJ	< 0.0407 U	< 0.0627 UJ	< 0.0418 U	< 0.433 U	< 0.0792 U	< 0.382 U
PCB-146	51908-16-8	ng/g	230	14.0	45.3 J	3.48 J	-	51.1 J	1.11 J	6.90 J	14.6	478 J	6.11 J	72.6 J
PCB-147	68194-13-8	ng/g	230	14.0	19.1	0.771 J	-	21.2 J	< 0.0359 U	2.86 J	11.6	139	3.51 J	58.9 J
PCB-148	74472-41-6	ng/g	230	14.0	3.18 J	< 0.0385 U	-	3.64 J	< 0.0377 U	< 0.0580 UJ	1.01 J	31.8 J	< 0.0732 U	4.26 J
PCB-150	68194-08-1	ng/g	230	14.0	1.53 J	< 0.0389 U	-	1.87 J	< 0.0381 U	< 0.0586 UJ	0.927 J	15.9 J	0.234 J	6.21 J
PCB-151	52663-63-5	ng/g	230	14.0	40.9 J	3.45 J	-	48 J	1.14 J	8.50 J	19.6 J	485 J	7.8 J	118
PCB-152	68194-09-2	ng/g	230	14.0	1.98 J	< 0.0454 U	-	2.32 J	< 0.0445 U	< 0.0685 UJ	1.21 J	18.4 J	0.239 J	6.59 J
PCB-153	35065-27-1	ng/g	230	14.0	134 J	18.5	-	154 J	5.96 J	37.9 J	62.9 J	788 J	34.2	229 J
PCB-154	60145-22-4	ng/g	230	14.0	13.3	0.471 J	-	15.5 J	< 0.0265 U	1.37 J	4.99 J	157	1.47 J	30.6 J
PCB-155	33979-03-2	ng/g	230	14.0	0.109 J	< 0.0234 U	-	< 0.0386 UJ	< 0.0229 U	< 0.0352 UJ	0.113 J	< 0.243 U	< 0.0445 U	< 0.215 U
PCB-156	38380-08-4	ng/g	120	14.0	13.3	2.56 J	-	14.7 J	0.852 J	4.15 J	11.4	51.9 J	5.09 J	29.6 J
PCB-157	69782-90-7	ng/g	120	14.0	5.57 J+	0.573 J+	-	5.73 J	0.206 J+	2.37 J	3.68 J+	21.8 J	1.72 J+	9.07 J+

Table 11
Sediment Analytical Results
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					Location	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0061-PLC1	23A-0061-PLC1
					Sample Name	23A-0059-PLC1-AS	23A-0059-PLC1-BS	23A-0059-PLC1-CS	23A-0059-PLC1-AT	23A-0059-PLC1-BT	23A-0060-PLC1-AS	23A-0060-PLC1-BS	23A-0060-PLC1-CS	23A-0061-PLC1-AS	23A-0061-PLC1-BS
					Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/28/2023	6/28/2023
					Sample Type	N	N	N	FD	FD	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0.5 - 1.2 ft	1.2 - 2 ft	0 - 0.5 ft	0.5 - 1.2 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-158/160	PCB-158/160	ng/g	230	14.0	13.8	2.6 J	-	15.3 J	0.641 J	5.63 J	8.97 J	46.7 J	4.9 J	29.3 J
PCB-159	39635-35-3	ng/g	230	14.0	2.3 J	< 0.0377 U	-	2.45 J	< 0.0369 U	< 0.0568 UJ	1.09 J	17.6 J	< 0.0718 U	3.73 J
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0353 U	< 0.0352 U	-	< 0.0582 UJ	< 0.0345 U	< 0.0531 UJ	< 0.0354 U	< 0.366 U	< 0.0671 U	< 0.324 U
PCB-162	39635-34-2	ng/g	230	14.0	1.3 J	< 0.0278 U	-	< 0.0459 UJ	< 0.0272 U	< 0.0419 UJ	0.970 J	< 0.289 U	< 0.0529 U	2.1 J
PCB-165	74472-46-1	ng/g	230	14.0	1.21 J	< 0.0381 U	-	1.25 J	< 0.0373 U	< 0.0574 UJ	< 0.0383 U	15.5 J	< 0.0725 U	3.15 J
PCB-166	41411-63-6	ng/g	230	14.0	0.877 J	< 0.0328 U	-	< 0.0542 UJ	< 0.0321 U	< 0.0494 UJ	< 0.0329 U	< 0.341 U	< 0.0624 U	1.76 J
PCB-167	52663-72-6	ng/g	120	14.0	6.18 J	0.884 J	-	6.18 J	0.349 J	2.27 J	4.34 J	22.4 J	2.36 J	13.1 J
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0278 U	< 0.0278 U	-	< 0.0459 UJ	< 0.0272 U	< 0.0419 UJ	< 0.0279 U	< 0.289 U	< 0.0529 U	< 0.255 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	49.1 J	2.93 J	-	56.5 J	0.972 J	9.60 J	26.4 J	257 J	12.8 J	99.3
PCB-171	52663-71-5	ng/g	230	14.0	12.4	0.892 J	-	14.7 J	0.234 J	2.49 J	5.93 J	71.5 J	2.9 J	25.7 J
PCB-172/192	PCB-172/192	ng/g	230	14.0	7.56 J	0.259 J	-	8.71 J	< 0.0590 U	1.36 J	3.53 J	50.0 J	1.68 J	14.4 J
PCB-173	68194-16-1	ng/g	230	14.0	0.868 J	< 0.0406 U	-	< 0.0671 UJ	< 0.0398 U	< 0.0612 UJ	< 0.0408 U	< 0.422 U	< 0.0774 U	< 0.373 U
PCB-174	38411-25-5	ng/g	230	14.0	39.3 J	2.3 J	-	45.1 J	0.825 J	7.42 J	17.8	251 J	8.63 J	73.2 J
PCB-175	40186-70-7	ng/g	230	14.0	1.86 J	< 0.0313 U	-	2.16 J	< 0.0307 U	< 0.0472 UJ	0.870 J	10.8 J	0.369 J	4.04 J
PCB-176	52663-65-7	ng/g	230	14.0	5.71 J	0.266 J	-	6.34 J	0.102 J	0.918 J	2.14 J	44.8 J	1.03 J	10 J
PCB-177	52663-70-4	ng/g	230	14.0	33.5 J	1.45 J	-	38.9 J	0.418 J	4.80 J	13.0	277 J	5.51 J	56.2 J
PCB-178	52663-67-9	ng/g	230	14.0	15.2	0.456 J	-	17.6 J	0.149 J	1.84 J	5.72 J	148	2.26 J	27.8 J
PCB-179	52663-64-6	ng/g	230	14.0	19.8 J	0.817 J	-	21.8 J	0.253 J	2.98 J	7.69 J	187 J	3.14 J	39.5 J
PCB-180	35065-29-3	ng/g	230	14.0	90.2 J	4.16 J	-	104 J	1.53 J	16.6 J	47.5 J	489 J	23.2	178
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0278 U	< 0.0278 U	-	< 0.0459 UJ	< 0.0272 U	< 0.0419 UJ	< 0.0279 U	< 0.289 U	< 0.0529 U	< 0.255 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	68.8 J	2.34 J	-	80.8 J	0.807 J	10.5 J	27.4 J	579 J	11.9 J	126
PCB-183	52663-69-1	ng/g	230	14.0	21 J	1.1 J	-	24.2 J	0.411 J	4.00 J	10.5 J	113 J	5.09 J	44.5 J
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0263 U	< 0.0263 U	-	< 0.0435 UJ	< 0.0258 U	< 0.0396 UJ	< 0.0264 U	< 0.273 U	< 0.0501 U	< 0.242 U
PCB-185	52712-05-7	ng/g	230	14.0	3.6 J	< 0.0364 U	-	4.18 J	< 0.0357 U	0.953 J	2.17 J	19.4 J	1.01 J	8.08 J
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0329 U	< 0.0329 U	-	< 0.0543 UJ	< 0.0322 U	< 0.0495 UJ	< 0.0330 U	< 0.342 U	< 0.0626 U	< 0.302 U
PCB-188	74487-85-7	ng/g	230	14.0	0.271 J	< 0.0301 U	-	0.334 J	< 0.0295 U	< 0.0454 UJ	0.225 J	2.82 J	< 0.0574 U	0.86 J
PCB-189	39635-31-9	ng/g	130	14.0	2.42 J	< 0.0306 U	-	2.69 J	< 0.0300 U	< 0.0461 UJ	1.28 J	13.0 J	0.78 J	5.12 J
PCB-191	74472-50-7	ng/g	230	14.0	1.55 J	< 0.0277 U	-	1.81 J	< 0.0271 U	< 0.0417 UJ	0.879 J	8.62 J	< 0.0527 U	3.46 J
PCB-193	69782-91-8	ng/g	230	14.0	6.35 J	< 0.0349 U	-	7.55 J	< 0.0342 U	1.15 J	2.82 J	47.2 J	1.23 J	10.9 J
PCB-194	35694-08-7	ng/g	230	14.0	48.3 J	0.671 J	-	56.4 J	< 0.0432 UJ	6.54 J	21.1 J	286 J	10.6 J	73.4 J
PCB-195	52663-78-2	ng/g	230	14.0	15 J	< 0.0782 UJ	-	17.8 J	< 0.0766 UJ	2.04 J	6.46 J	90.0 J	3.16 J	23.6 J
PCB-196/203	PCB-196/203	ng/g	230	14.0	43.7 J	0.991 J	-	52 J	0.465 J	8.27 J	19.6 J	261 J	9.64 J	68.8 J
PCB-197	33091-17-7	ng/g	230	14.0	1.43 J	< 0.0331 U	-	1.73 J	< 0.0324 U	< 0.0498 UJ	0.576 J	9.00 J	0.314 J	2.11 J
PCB-198	68194-17-2	ng/g	230	14.0	2.64 J	< 0.0537 UJ	-	2.42 J	< 0.0526 UJ	< 0.0809 UJ	0.863 J	12.1 J	< 0.102 U	2.82 J
PCB-199	52663-75-9	ng/g	230	14.0	39.7 J	0.866 J	-	46.6 J	0.263 J	7.06 J	16.4 J	253 J	7.81 J	57.5 J
PCB-200	52663-73-7	ng/g	230	14.0	4.16 J	< 0.0263 U	-	4.31 J	< 0.0258 U	< 0.0396 UJ	1.71 J	26.3 J	0.757 J	7.02 J
PCB-201	40186-71-8	ng/g	230	14.0	4.22 J	< 0.0208 U	-	4.95 J	< 0.0204 U	0.891 J	1.86 J	31.8 J	0.925 J	7.22 J
PCB-202	2136-99-4	ng/g	230	14.0	6.45 J	< 0.0355 U	-	7.7 J	< 0.0348 U	1.77 J	2.58 J	49.4 J	1.39 J	11 J
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0435 U	< 0.0435 U	-	< 0.0718 UJ	< 0.0426 U	< 0.0655 UJ	< 0.0437 U	< 0.452 U	< 0.0828 U	< 0.399 U
PCB-205	74472-53-0	ng/g	230	14.0	2.36 J	< 0.0308 U	-	2.44 J	< 0.0302 U	< 0.0464 UJ	0.908 J	13.6 J	< 0.0587 U	3.49 J
PCB-206	40186-72-9	ng/g	230	14.0	19.2	0.389 J	-	22.4 J	< 0.0289 U	4.39 J	9.02 J	118	4.99 J	29.5 J
PCB-207	52663-79-3	ng/g	230	14.0	2.71 J	< 0.0391 U	-	2.73 J	< 0.0382 U	0.606 J	0.962 J	12.9 J	0.518 J	3.21 J
PCB-208	52663-77-1	ng/g	230	14.0	4.86 J	< 0.0391 U	-	5.69 J	< 0.0382 U	1.57 J	2.16 J	26.6 J	1.44 J	7.14 J
PCB-209	2051-24-3	ng/g	230	14.0	4.79 J	0.173 J	-	6.66 J	< 0.0220 U	2.45 J	3.08 J	20.1 J	2 J	9.54 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	4.79	0.173	-	6.66	< 0.022 U	2.45	3.08	20.1	2	9.54
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	379	17.0	-	437	5.70	64.6	176	2570	81.5	727
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	850	110	-	992	34.4	224	400	6140	209	1800
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	168	2.53	-	196	0.728	26.6	72.1	1030	34.6	257
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	37700	742	-	47300	513	2870	38600	406000	8070	179000
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	1460	184	-	1770	60.9	385	1240	16600	528	5370
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	13000	147	-	17100	181	544	16800	159000	2600	76800
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	3770	49.4	-	5330	90.0	133	8280	50200	371	8680
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	26.8	0.389	-	30.8	< 0.0382 U	6.57	12.1	158	6.95	39.9
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	5980	121	-	7460	54.8	701	3950	59000	1610	24900
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	12100	111	-	14000	84.6	781	7690	112000	2640	60600

Table 11
Sediment Analytical Results
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				Location	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0061-PLC1	23A-0061-PLC1
				Sample Name	23A-0059-PLC1-AS	23A-0059-PLC1-BS	23A-0059-PLC1-CS	23A-0059-PLC1-AT	23A-0059-PLC1-BT	23A-0060-PLC1-AS	23A-0060-PLC1-BS	23A-0060-PLC1-CS	23A-0061-PLC1-AS	23A-0061-PLC1-BS
				Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	FD	FD	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.2 ft	1.2 - 2 ft	0 - 0.5 ft	0.5 - 1.2 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	5900 EB	3200 EB	-	7600 EB	2600 EB	3100	3100	11000	4900	3900
Calcium	7440-70-2	mg/kg			3100 EB	1600 EB	-	3800 EB	1200 EB	4100	1100	3100	3100	1500
Iron	7439-89-6	mg/kg	5500	20000	15000 EB	6900 EB	-	18000 EB	5000 EB	17000	8000	19000	20000	8500
Magnesium	7439-95-4	mg/kg			1900 EB	1800 EB	-	2300 EB	1400 EB	900	1200	2900	1900	1400
Potassium	7440-09-7	mg/kg			330 J	230 J	-	430 J	200 J	300 J	200 J	760 J	320 J	250 J
Sodium	7440-23-5	mg/kg			330 J	81 J	-	430 J	57 J	640	130 J	300 J	450 J	540 J
Antimony	7440-36-0	mg/kg	3.1	2	< 1.8 UJ	< 0.90 UJ	-	2.4 J	< 0.78 UJ	1.3	< 1.3 U	4.4	< 3.0 U	< 1.0 U
Arsenic	7440-38-2	mg/kg	0.68	9.8	5.4	0.84	-	8.2	1.6	6.9	1.7	8.9	4.2	3.0 J
Barium	7440-39-3	mg/kg	1500	20	71	17	-	110	20	120	21	140	77	43 J
Beryllium	7440-41-7	mg/kg	16		0.49 J	0.17 J	-	0.79 J	0.21 J	0.58	0.15 J	0.79 J	0.33 J	0.21 J
Cadmium	7440-43-9	mg/kg	0.71	1	1.3	< 0.45 U	-	2.1	< 0.39 U	1.7	0.17 J	3.5	0.80 J	0.60
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	49 EB	5.3 EB	-	75 EB	6.4 EB	51 EB	13 EB	85 EB	26	24 J
Cobalt	7440-48-4	mg/kg	2.3	50	6.7	3.4	-	11	2.4	11	1.9	8.2	6.9	3.3 J
Copper	7440-50-8	mg/kg	310	31.6	63	13 J	-	100	7.4 J	59	47	180	57	48 J
Lead	7439-92-1	mg/kg	200	35.8	130	2.5 J	-	200	8.7 J	120	63	340	190 J	100 J
Manganese	7439-96-5	mg/kg	180	460	350 JEB	110 JEB	-	540 JEB	91 JEB	830 EB	73 EB	310 EB	360 J	160 J
Nickel	7440-02-0	mg/kg	140	22.7	11 J	4.9	-	21 J	4.2	11	3.9	21	9.9	7.6 J
Selenium	7782-49-2	mg/kg	39	11	< 4.5 U	< 2.3 U	-	< 5.6 U	< 1.9 U	< 2.0 U	< 3.3 U	< 4.1 U	< 7.4 U	< 2.6 U
Silver	7440-22-4	mg/kg	39	1	0.38 J	< 0.45 U	-	0.61 J	< 0.39 U	0.43	< 0.66 U	1.5	0.22 J	0.26 J
Thallium	7440-28-0	mg/kg	0.078		< 0.91 U	< 0.45 U	-	< 1.1 U	< 0.39 U	0.056 J	< 0.66 U	0.11 J	< 1.5 U	< 0.51 U
Vanadium	7440-62-2	mg/kg	39		21	6.6	-	33	7.6	25	5.9	50	16	11 J
Zinc	7440-66-6	mg/kg	2300	121	230	13	-	370	16	310	68	440	250 J	140 J
Mercury	7439-97-6	mg/kg	2.3	0.18	0.82	< 0.11 U	-	0.99	0.020 J	0.62	0.22	2.0	0.77 J-	0.74
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 1.3 U	< 0.54 U	-	< 1.6 U	< 0.54 U	< 0.50 U	< 0.66 U	< 0.98 U	< 1.4 R	< 0.60 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	12
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 16 U	< 6.4 U	< 6.1 U	< 20 UJ	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 16 U	< 6.4 U	< 6.1 U	< 20 UJ	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 16 U	< 6.4 U	< 6.1 U	< 20 UJ	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 16 U	< 6.4 U	< 6.1 U	< 20 UJ	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 16 U	< 6.4 U	< 6.1 U	< 20 UJ	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 16 U	< 6.4 U	< 6.1 U	< 20 UJ	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 16 U	< 6.4 U	< 6.1 U	< 20 UJ	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 16 U	< 6.4 U	< 6.1 U	< 20 UJ	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
2-HEXANONE	591-78-6	ug/kg	20000	45	< 31 U	< 13 U	< 12 U	< 41 U	< 12 U	< 49 UJ	< 15 U	< 20 U	< 27 UJ	< 12 UJ
ACETONE	67-64-1	ug/kg	7000000	65	590 EB	7.4 JEB	15 EB	960 EB	10 JEB	170 JEB	25 EB	380 EB	1100 J	210 J+
Benzene	71-43-2	ug/kg	1200	10	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ

Table 11
Sediment Analytical Results
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				Location	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0061-PLC1	23A-0061-PLC1
				Sample Name	23A-0059-PLC1-AS	23A-0059-PLC1-BS	23A-0059-PLC1-CS	23A-0059-PLC1-AT	23A-0059-PLC1-BT	23A-0060-PLC1-AS	23A-0060-PLC1-BS	23A-0060-PLC1-CS	23A-0061-PLC1-AS	23A-0061-PLC1-BS
				Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	FD	FD	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.2 ft	1.2 - 2 ft	0 - 0.5 ft	0.5 - 1.2 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 16 U	< 6.4 U	< 6.1 U	< 20 UJ	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	2.7 J	< 13 UJ	< 6.2 UJ
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
Chlorobenzene	108-90-7	ug/kg	28000	30	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
CHLOROETHANE	75-00-3	ug/kg	540000		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	7.8 J
Chloroform	67-66-3	ug/kg	320	87	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	10 J
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 U
Cyclohexane	110-82-7	ug/kg	650000		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
Ethylbenzene	100-41-4	ug/kg	5800	290	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 16 U	< 6.4 U	< 6.1 U	< 20 UJ	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
m,p-Xylene	179601-23-1	ug/kg	55000		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
METHYL ACETATE	79-20-9	ug/kg	7800000		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	170 EB	< 13 U	< 12 U	280 EB	< 12 U	< 49 UJ	< 15 U	110 EB	300 J	56 J
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 31 U	< 13 U	< 12 U	< 41 U	< 12 U	< 49 UJ	< 15 U	< 20 U	< 27 UJ	< 12 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	3.0 J	< 13 UJ	< 6.2 UJ
Methylene Chloride	75-09-2	ug/kg	35000	18	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
Styrene	100-42-5	ug/kg	600000	126	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
Toluene	108-88-3	ug/kg	490000	10	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	< 6.2 UJ
Vinyl Chloride	75-01-4	ug/kg	59	482	< 16 U	< 6.4 U	< 6.1 U	< 20 U	< 6.2 U	< 25 UJ	< 7.7 U	< 10 U	< 13 UJ	7.1 J
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 460 U	< 180 U	-	< 560 U	< 190 UJ	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 890 U	< 360 U	-	< 1100 U	< 370 UJ	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
2-NITROANILINE	88-74-4	ug/kg	63000		< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U

Table 11
Sediment Analytical Results
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				Location	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0061-PLC1	23A-0061-PLC1
				Sample Name	23A-0059-PLC1-AS	23A-0059-PLC1-BS	23A-0059-PLC1-CS	23A-0059-PLC1-AT	23A-0059-PLC1-BT	23A-0060-PLC1-AS	23A-0060-PLC1-BS	23A-0060-PLC1-CS	23A-0061-PLC1-AS	23A-0061-PLC1-BS
				Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	FD	FD	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.2 ft	1.2 - 2 ft	0 - 0.5 ft	0.5 - 1.2 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 890 U	< 360 U	-	< 1100 U	< 370 UJ	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	840	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		280 J	< 360 U	-	380 J	110 J	610 J	550	210 J	< 1000 UJ	190 J
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	620	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	100 J	< 670 U	< 1000 UJ	< 410 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	-	1900	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	1500	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	-	2000	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	800	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	230 J	< 180 U	-	320 J	110 J	240 J	130 J	120 J	250 J	200 J
Caprolactam	105-60-2	ug/kg	3100000		< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	430 J	< 670 U	< 1000 UJ	< 410 U
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-	2200	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	290	< 340 U	< 510 UJ	< 210 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	-	-	-	3600	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	440	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	< 460 U	< 670 U	< 1000 UJ	< 410 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	860	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 460 U	< 180 U	-	< 560 U	< 190 U	< 870 UJ	< 240 U	< 340 U	< 510 UJ	< 210 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	-	-	-	3200	-	-	-
PHENOL	108-95-2	ug/kg	1900000	175	< 890 U	< 360 U	-	< 1100 U	< 370 U	< 1700 UJ	100 J	< 670 U	< 1000 UJ	< 410 U
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	-	3100	-	-	-

Table 11
Sediment Analytical Results
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				Location	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0059-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0060-PLC1	23A-0061-PLC1	23A-0061-PLC1
				Sample Name	23A-0059-PLC1-AS	23A-0059-PLC1-BS	23A-0059-PLC1-CS	23A-0059-PLC1-AT	23A-0059-PLC1-BT	23A-0060-PLC1-AS	23A-0060-PLC1-BS	23A-0060-PLC1-CS	23A-0061-PLC1-AS	23A-0061-PLC1-BS
				Sample Date	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/23/2023	6/28/2023	6/28/2023
				Sample Type	N	N	N	FD	FD	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0.5 - 1.2 ft	1.2 - 2 ft	0 - 0.5 ft	0.5 - 1.2 ft	0 - 0.5 ft	0.5 - 2 ft	2 - 3.6 ft	0 - 0.5 ft	0.5 - 1.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 18 U	< 7.1 U	-	< 22 U	< 7.3 U	< 34 UJ	< 9.3 UJ	< 13 U	< 20 UJ	< 8.2 U
1-Methylnaphthalene	90-12-0	ug/kg	18	141	< 8.9 U	< 3.6 U	-	< 11 U	< 3.7 U	< 17 UJ	61 J-	< 6.7 U	< 10 UJ	2.3 J
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	3.3 J	< 3.6 U	-	4.0 J	1.5 J	3.6 J	100	1.5 J	< 10 UJ	3.7 JEB
Acenaphthene	83-32-9	ug/kg	360000	6.7	3.0 J	< 3.6 U	-	< 11 U	< 3.7 U	< 17 UJ	-	< 6.7 U	3.6 J	7.8
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	< 8.9 U	2.5 J	-	< 11 U	1.1 J	< 17 UJ	30 J-	< 6.7 U	7.1 J	4.8
ANTHRACENE	120-12-7	ug/kg	1800000	57	7.5 J	2.7 J	-	3.2 J	1.1 J	< 17 UJ	-	< 6.7 U	7.3 J	9.1 J-
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	31	14	-	23	7.1	19 J	-	5.8 J	50 J	83
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	8.8 J	12 J	-	12	2.3 J	9.8 J	-	3.3 J	< 10 UJ	42
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	38	16	-	38	10	28 J	-	6.9	63 J	93
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	< 8.9 U	8.4	-	< 11 U	< 3.7 U	< 17 UJ	130	< 6.7 U	< 10 UJ	32
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	15	5.5	-	14	3.7	13 J	-	2.7 J	29 J	31
CHRYSENE	218-01-9	ug/kg	110000	166	38	16	-	32	8.8	18 J	-	8.1	45 J	88
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	5.0 J	1.9 J	-	4.2 J	1.2 J	< 17 UJ	250	< 6.7 U	9.8 J	9.7
FLUORANTHENE	206-44-0	ug/kg	240000	423	71	24 J	-	59	14 J	36 J	-	12	120 J	160
FLUORENE	86-73-7	ug/kg	240000	77	3.3 J	0.86 J	-	< 11 U	< 3.7 U	< 17 UJ	-	< 6.7 U	3.7 J	7.8
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	9.2	6.9	-	14	2.9 J	9.9 J	-	2.7 J	7.6 J	31
Naphthalene	91-20-3	ug/kg	2000	176	37 EB	1.1 JEB	-	47 EB	15 JEB	34 JEB	340 EB	13 EB	3.2 JEB	19 EB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 18 U	< 7.2 U	-	< 22 U	< 7.4 U	< 34 UJ	< 9.3 UJ	< 14 U	< 20 UJ	< 8.3 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	40 J	8.0	-	22 J	6.9	14 J	-	6.8	43 J	59 J-
PYRENE	129-00-0	ug/kg	180000	195	41	24 J	-	44	12 J	28 J	-	13	25 J	150
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			100000 J	5000 J	-	90000 J	1400 J	220000 J	18000	72000	38000 J	41000 J-
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			52 J	-	-	51 J	-	22 J	-	-	24	-
Cadmium	7440-43-9	umol/g			0.016 J	-	-	0.016 J	-	0.021 J	-	-	0.0091	-
Copper	7440-50-8	umol/g			0.25 J	-	-	0.38 J	-	0.90 J	-	-	0.55	-
Lead	7439-92-1	umol/g			0.82 J	-	-	0.79 J	-	0.82 J	-	-	0.57	-
Nickel	7440-02-0	umol/g			0.77 J	-	-	0.87 J	-	0.16 J	-	-	1.5 J	-
Silver	7440-22-4	umol/g			0.00027 J	-	-	0.00038 J	-	0.0017 J	-	-	0.00049	-
Zinc	7440-66-6	umol/g			4.2 J	-	-	3.9 J	-	6.3 J	-	-	3.2	-
Mercury	7439-97-6	umol/g			< 0.000095 UJ	-	-	< 0.000087 UJ	-	< 0.00014 UJ	-	-	< 0.000064 U	-

Table 11
Sediment Analytical Results
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					Location	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0063-PLC1	23A-0063-PLC1
					Sample Name	23A-0061-PLC1-CS	23A-0061-PLC1-AT	23A-0061-PLC1-BT	23A-0061-PLC1-CT	23A-0062-PLC1-AS	23A-0062-PLC1-BS	23A-0062-PLC1-CS	23A-0062-PLC1-BT	23A-0063-PLC1-AS	23A-0063-PLC1-BS
					Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/29/2023	6/29/2023
					Sample Type	N	FD	FD	FD	N	N	N	FD	N	N
					Depth Interval	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 4.7 ft	0.5 - 3 ft	0 - 0.5 ft	0.5 - 3.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/kg	39	29	< 2.0 U	< 3.8 UJ	< 2.9 U	< 1.8 U	< 3.9 U	< 3.3 U	< 3.0 U	< 2.8 U	< 3.1 U	< 4.2 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 2.0 U	< 3.8 UJ	< 2.9 U	< 1.8 U	< 3.9 U	< 3.3 U	< 3.0 U	< 2.8 U	< 3.1 U	< 4.2 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 2.0 U	< 3.8 UJ	< 2.9 U	< 1.8 U	< 3.9 U	< 3.3 U	< 3.0 U	< 2.8 U	< 3.1 U	< 4.2 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 2.0 U	< 3.8 UJ	< 2.9 U	< 1.8 U	< 3.9 U	< 3.3 U	< 3.0 U	< 2.8 U	< 3.1 U	< 4.2 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 3.8 U	< 7.3 UJ	< 5.7 U	< 3.6 U	< 7.5 U	< 6.4 U	< 5.9 U	< 5.5 U	< 6.0 U	< 8.2 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		< 2.0 U	< 3.8 UJ	2.7 J	0.79 J	< 3.9 U	22 J	30 J+	8.0 J	< 3.1 U	34 J+
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		15 J	2.5 J	15 J	< 1.8 UJ	23 J	89 J	61 J	54 J	4.3 J	110 J
DIELDRIN	60-57-1	ug/kg	34	1.9	< 3.8 U	< 7.3 UJ	< 5.7 U	< 3.6 U	< 7.5 U	< 6.4 U	< 5.9 U	< 5.5 U	< 6.0 U	31 J
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	0.94 J+	< 7.3 UJ	2.4 J+	0.37 J	< 7.5 U	11 J	9.6 J	3.9 J	< 6.0 U	22 J
ENDRIN	72-20-8	ug/kg	1900	2.22	2.0 J	0.62 J	3.7 J	0.51 J	< 7.5 U	26 J	28 J	7.1 J	1.1 J	43 J
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 3.8 U	< 7.3 UJ	< 5.7 U	< 3.6 U	< 7.5 U	< 6.4 U	< 5.9 U	< 5.5 U	< 6.0 U	< 8.2 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 3.8 U	< 7.3 UJ	< 5.7 U	< 3.6 U	< 7.5 U	< 6.4 U	< 5.9 U	< 5.5 U	< 6.0 U	< 8.2 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	13 J	< 3.8 UJ	46 J	7.1 J	89 J	690 J	420 J	280 J	< 3.1 R	980 J
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 2.0 U	< 3.8 UJ	< 2.9 U	< 1.8 UJ	< 3.9 U	< 3.3 UJ	< 3.0 U	< 2.8 UJ	< 3.1 U	< 4.2 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	5.8 J	0.88 J	9.9 J	2.1 J	< 3.9 U	100 J	110 J+	61 J+	3.5 J	290 J+
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 20 U	< 38 UJ	< 30 U	< 18 U	< 39 U	< 33 U	< 30 U	< 28 U	< 31 U	< 42 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	2.0 J	1.2 J	1.3 J	0.78 J	< 7.5 U	< 6.4 U	< 5.9 U	< 5.5 U	2.0 J	< 8.2 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 3.8 U	0.43 J	< 5.7 U	< 3.6 U	< 7.5 U	< 6.4 U	< 5.9 U	< 5.5 U	< 6.0 U	< 8.2 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	6.5 J	2.2 J	11 J+	3.7	< 7.5 U	160 J	92 J+	32 J	4.1 J	220 J+
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 200 U	< 380 UJ	< 300 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		3.0 J	0.91 J	6.9 J	1.8 J	11 J+	73 J	55 J	22 J	< 3.1 U	150 J
Grain Size															
%CLAY	%CLAY	%			8.5	5.4	19.5	8.5	19	17.8	27.9	16.1	22.7	32.8
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			12.7	2.6	5.7	10.5	1.5	0.3	2.6	0.2	1.4	0.7
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			19.2	62.9	32.6	15.7	55.5	63.2	33.9	71.1	70	35.3
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			19.9	23.9	12.9	17.2	7	7.5	6.4	6.6	2.5	4.8
Gravel	GRAVEL	%			35.2	1.1	7.5	36.2	10.6	0.2	4.6	0.2	0.5	0.4
Hydrometer, Reading 1, Percent Passing	HYD01	%			11.5	31.1	27.2	10	30.9	26.1	46.2	22.5	22.7	54.4
Hydrometer, Reading 2, Percent Passing	HYD02	%			10	31.1	24.6	10	30.9	24	41	22.5	22.7	48.2
Hydrometer, Reading 3, Percent Passing	HYD03	%			10	27	22.1	10	27.7	22	35.7	20.5	22.7	39
Hydrometer, Reading 4, Percent Passing	HYD04	%			10	27	22.1	10	27.7	19.9	33.1	18.6	22.7	32.8
Hydrometer, Reading 5, Percent Passing	HYD05	%			8.5	27	19.5	8.5	24.5	17.8	27.9	16.7	22.7	32.8
Hydrometer, Reading 6, Percent Passing	HYD06	%			8.5	27	17	8.5	21.3	13.7	22.7	12.8	20.1	20.5
Hydrometer, Reading 7, Percent Passing	HYD07	%			8.5	23	17	8.5	21.3	13.7	20.1	12.8	17.4	20.5
Sand	308075-07-2	%			51.8	89.4	51.2	43.4	64	71	42.9	77.9	73.9	40.8
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			52.1	96.3	86.8	53.3	87.9	99.5	92.8	99.6	98.1	98.9
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			32.2	72.4	73.9	36.1	80.9	92	86.4	93	95.6	94.1
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			19.5	35.3	56.2	26	55	43.9	74.8	39.5	64.8	78.8
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			43.9	88.4	83.6	46.1	85.8	98.1	90.4	98.6	97.4	96.6
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			23.6	52.9	63.7	29.2	69.8	59	80.1	57.2	84.7	87.9
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			17.4	26.6	52.1	24.3	45.4	38.4	70.3	33	51.2	73.7
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			13	9.5	41.3	20.4	25.4	28.8	52.5	21.9	25.6	58.8
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			64.8	98.9	92.5	63.8	89.4	99.8	95.4	99.8	99.5	99.6
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			81.8	99.9	99.8	84.1	91.1	99.9	99.8	99.9	99.9	100
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	100	100	100	100	100	100	100	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	100	100	100	100	100	100	100	100
SILT	445	%			4.5	4.1	21.8	11.9	6.4	11	24.6	5.8	2.9	26

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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					Location	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0063-PLC1	23A-0063-PLC1
					Sample Name	23A-0061-PLC1-CS	23A-0061-PLC1-AT	23A-0061-PLC1-BT	23A-0061-PLC1-CT	23A-0062-PLC1-AS	23A-0062-PLC1-BS	23A-0062-PLC1-CS	23A-0062-PLC1-BT	23A-0063-PLC1-AS	23A-0063-PLC1-BS
					Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/29/2023	6/29/2023
					Sample Type	N	FD	FD	FD	N	N	N	FD	N	N
					Depth Interval	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 4.7 ft	0.5 - 3 ft	0 - 0.5 ft	0.5 - 3.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	99.5	990	972	92.9	1370	1870 J	912	893 J	673	2470
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	2.33 JN	24.9	26.4	2.14 JN	35.7	70.7	78.6	50.3	11.0	181
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	< 0.922 U	10.8	9.18	1.62 JN	12.7	14.0	8.70	7.33	6.53	20.6
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	12.2	36.3	60.4	5.85	91.9	194	216 J	141 J	29.7 J	541 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	6.38	44.6	51.8	5.74 JN	69.0	93.4 J	51.8	46.5 J	33.9	117
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	6.89	24.4	27.8	2.31	40.3	73.2	79.0	54.7	14.8	199
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	2.88 JN	22.9	29.9	3.83	30.1	43.0 J	30.0	21.0 J	18.8	61.3
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.844 U	< 3.01 U	< 2.82 U	< 1.12 U	< 2.57 U	< 4.15 U	< 0.724 U	< 0.751 U	< 2.47 U	< 4.68 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	0.775 JN	5.07 J	4.03 JN	< 0.825 UJ	6.07 JN	6.05 JN	5.34 JN	4.39 JN	3.37 J	11.5 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	5.14	4.8 JN	10.7	1.13 JN	15.0	35.6	34.4	24.8	4.33 J	102
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	80.0 J+	711 J+	527 J+	63.0 J+	791 J+	975 J	606 J+	440 J	368 J+	1410 J+
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	4.93	24.7	25.3 JN	2.47	41.0	66.7	72.8	52.0	16.3	187
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	14.8	29.0	92.7	8.96	34.1	352	378 J+	252 J+	22.7 J+	969 J+
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 1.91 UJ	< 1.94 UJ	2.51 J	< 1.88 UJ	3.09 J	5.91 J	4.40	3.22 JN	< 1.14 UJ	8.88
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	6.98 J	8.96	30.0	3.48 J	49.3	140	173	104	9.08	462
OCDD	3268-87-9	pg/g	16000	5000	586	8280	6530	501	12000	18700 J	6640	8210 J	4060	19200
OCDF	39001-02-0	pg/g	16000	5000	53.5	906 J	536	50.1	962	1150 J	657	582 J	404	1670
Total HpCDD (a)	RA_Total_HpCDD	pg/g			99.5	990	972	92.9	1370	1870	912	893	673	2470
Total HpCDF (a)	RA_Total_HpCDF	pg/g			82.3	736	553	65.1	827	1050	685	490	379	1590
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		9.26	78.3	90.9	11.2	112	150	90.5	74.8	59.2	199
Total HxCDF (a)	RA_Total_HxCDF	pg/g			24.0	85.4	114	10.6	173	334	368	248	60.8	927
Total PeCDD (a)	RA_Total_PeCDD	pg/g			0.775	5.07	4.03	< 0.825 U	6.07	6.05	5.34	4.39	3.37	11.5
Total PeCDF (a)	RA_Total_PeCDF	pg/g			19.9	33.8	103	10.1	49.1	388	412	277	27.0	1070
Total TCDD (a)	RA_Total_TCDD	pg/g			< 1.91 U	< 1.94 U	2.51	< 1.88 U	3.09	5.91	4.40	3.22	< 1.14 U	8.88
Total TCDF (a)	RA_Total_TCDF	pg/g			6.98	8.96	30.0	3.48	49.3	140	173	104	9.08	462
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	307 JEB	380 JEB	7280 JEB	204 JEB	25400 JEB	34500 JEB	23300 JEB	28500 JEB	154 JEB	83700 JEB
PCB-002	2051-61-8	ng/g	230	14.0	4.39 JEB	2.46 JEB	65.8 JEB	3.41 JEB	162 EB	339 JEB	405 JEB	227 JEB	2.25 JEB	1030 JEB
PCB-003	2051-62-9	ng/g	230	14.0	37.7	60.6 J	1350 J	33.5	6840 J	10800 J	6110 J	7090 J	54.7 JEB	24200 JEB
PCB-004/010	PCB-4/10	ng/g	230	14.0	1380 J	1040 J	36500 J	1060 J	124000 J	248000 J	178000 JEB	187000 JEB	644 JEB	745000 JEB
PCB-005/008	PCB-5/8	ng/g	230	14.0	1290 J	968 J	37100 J	1180 J	76400 J	196000 J	140000 JEB	153000 JEB	549 JEB	342000 JEB
PCB-006	25569-80-6	ng/g	230	14.0	386 J	136 J	4620 J	284 J	6890 J	20000 J	24000 JEB	15500 JEB	110 JEB	38000 JEB
PCB-007/009	PCB-7/9	ng/g	230	14.0	108 J	16.6 J	759 J	74.2 J	1070 J	1900 J	7330 J	1600 J	21.3	12900 J
PCB-011	2050-67-1	ng/g	230	14.0	33.2 EB	12 JEB	245 JEB	24.8 EB	843 JEB	1370 JEB	1130 JEB	1010 JEB	14.3 JEB	3330 JEB
PCB-012/013	PCB-12/13	ng/g	230	14.0	89.8 J	37.5	573 J	66.5 J	3710 J	2350 J	1470 J	1650 J	59.9 J	7740 J
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0481 U	< 0.0490 U	< 0.192 U	< 0.0473 U	< 0.228 U	< 0.161 U	< 0.213 U	< 0.183 U	< 0.0477 U	10.6 JEB
PCB-015	2050-68-2	ng/g	230	14.0	244 J	292 J	6300 J	216 J	38800 J	20200 J	16100 J	15000 J	535 JEB	70400 JEB
PCB-016/032	PCB-16/32	ng/g	230	14.0	883 JEB	489 JEB	15300 JEB	725 JEB	30400 JEB	73200 JEB	62500 JEB	54000 JEB	506 JEB	201000 JEB
PCB-017	37680-66-3	ng/g	230	14.0	951 JEB	435 JEB	18800 JEB	805 JEB	10900 JEB	36200 JEB	80300 JEB	25400 JEB	379 JEB	110000 JEB
PCB-018	37680-65-2	ng/g	230	14.0	722 JEB	190 JEB	5110 JEB	532 JEB	1960 JEB	4960 JEB	19800 JEB	3510 JEB	216 JEB	25800 JEB
PCB-019	38444-73-4	ng/g	230	14.0	300 J	234 J	7260 J	252 J	20400 J	43700 J	29200 J	32000 J	198 JEB	111000 JEB
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	78.5 JEB	34.3 EB	760 JEB	58.1 JEB	245 JEB	791 JEB	1540 JEB	581 JEB	62.5 JEB	3810 JEB
PCB-022	38444-85-8	ng/g	230	14.0	124 JEB	42.7 JEB	749 JEB	88.5 JEB	820 JEB	1390 JEB	1140 JEB	948 JEB	118 JEB	4440 JEB
PCB-023/034	PCB-23/34	ng/g	230	14.0	19.5	5.73 J	222 J	15.6 J	156	920 J	965 J	697 J	5.78 J	2890 J
PCB-024/027	PCB-24/27	ng/g	230	14.0	184 J	118 J	4010 J	153 J	7390 J	18900 J	16600 J	14000 J	106 JEB	53900 JEB
PCB-025	55712-37-3	ng/g	230	14.0	539 J	126 J	3480 J	403 J	9960 J	15600 J	22500 J	11700 J	167 JEB	58000 JEB
PCB-026	38444-81-4	ng/g	230	14.0	727 J	154 J	3900 J	529 J	8020 J	14300 J	18300 JEB	10300 JEB	191 JEB	52200 JEB
PCB-028	7012-37-5	ng/g	230	14.0	1370 JEB	368 JEB	10300 JEB	1060 JEB	5160 JEB	32400 JEB	89800 JEB	29900 JEB	433 JEB	198000 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0502 U	< 0.0511 U	10.7 J	< 0.0494 U	6.26 J	18.6 J	15.7 J	11.4 J	1.39 J	83.0 J

Table 11
Sediment Analytical Results
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				Location	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0063-PLC1	23A-0063-PLC1
				Sample Name	23A-0061-PLC1-CS	23A-0061-PLC1-AT	23A-0061-PLC1-BT	23A-0061-PLC1-CT	23A-0062-PLC1-AS	23A-0062-PLC1-BS	23A-0062-PLC1-CS	23A-0062-PLC1-BT	23A-0063-PLC1-AS	23A-0063-PLC1-BS
				Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/29/2023	6/29/2023
				Sample Type	N	FD	FD	FD	N	N	N	FD	N	N
				Depth Interval	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 4.7 ft	0.5 - 3 ft	0 - 0.5 ft	0.5 - 3.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0460 U	< 0.0468 U	5.57 J	< 0.0453 U	4.94 J	25.3 J	26.1 J	21.1 J	< 0.0456 U	87.1 J
PCB-031	16606-02-3	ng/g	230	14.0	1130 JEB	279 JEB	7260 JEB	840 JEB	13500 JEB	19100 JEB	13600 JEB	13400 JEB	432 JEB	63500 JEB
PCB-035	37680-69-6	ng/g	230	14.0	2.4 J+	2.74 J+	43.5 J+	1.75 J+	100 J+	144 J	121 J+	123 J+	6.08 J+	553 J
PCB-036	38444-87-0	ng/g	230	14.0	4.64 J	< 0.0474 U	31.4 J	3.45 J	19.1 J	86.7	104	61.3 J	1.12 J	196
PCB-037	38444-90-5	ng/g	230	14.0	59.9 J	61.8 J	699 J	50 J	1810 J	1580 J	801 J	1350 J	138 J	7790 J
PCB-038	53555-66-1	ng/g	230	14.0	11.7 J	6.9 J	172 J	10.2 J	245 J	688 J	766 J	506 J	8.36 J	2190 J
PCB-039	38444-88-1	ng/g	230	14.0	3.36 J	< 0.0241 U	43.4 J	2.92 J	90.6	218 J	197 J	161 J	2.14 J	672 J
PCB-040	38444-93-8	ng/g	230	14.0	65.1 J	12.6 J	226 J	51.4 J	38.2 J	226 J	601 JEB	159 JEB	24.2	513 J
PCB-041/064	PCB-41/64	ng/g	230	14.0	224 J	58.6 J	1120 J	185 J	530 J	1890 J	3100 J	1570 J	91.1 J	4960 J
PCB-042	36559-22-5	ng/g	230	14.0	182 J	61.6 J	1250 J	151 J	1170 J	2590 J	4870 J	1940 J	98.4 J	10900 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	759 J	283 J	6560 J	640 J	7210 J	18300 J	29300 JEB	13800 JEB	352 JEB	70400 JEB
PCB-044	41464-39-5	ng/g	230	14.0	455 JEB	103 JEB	1970 JEB	365 JEB	689 JEB	2210 JEB	6360 JEB	1610 JEB	164 JEB	8980 JEB
PCB-045	70362-45-7	ng/g	230	14.0	74 J	18.6 J	449 J	58.9 J	107	951 J	1190 J	754 J	28.5	1750 J
PCB-046	41464-47-5	ng/g	230	14.0	33.7	14.3 J	232 J	28.2	196 J	358 J	837 J	265 J	22.1	2230 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	452 J	247 J	6690 J	396 J	9710 J	25700 J	29600 JEB	19400 JEB	313 JEB	77200 JEB
PCB-050	62796-65-0	ng/g	230	14.0	5.92 J	3.16 J	90.7	5.2 J	153	339 J	364 J	249 J	3.65 J	968 J
PCB-051	68194-04-7	ng/g	230	14.0	99.7 J	56.3 J	1700 J	87.3 J	1360 J	3760 J	7730 J	2710 J	62.3 J	12900 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	730 JEB	222 JEB	4670 JEB	596 JEB	3930 JEB	9350 JEB	19400 JEB	6910 JEB	281 JEB	37900 JEB
PCB-053	41464-41-9	ng/g	230	14.0	237 J	90.7 J	3180 J	203 J	2290 J	7160 J	15700 J	5300 J	99.7 JEB	32200 JEB
PCB-054	15968-05-5	ng/g	230	14.0	8.19 J	6.33 J	163 J	7.5 J	315 J	713 J	667 J	509 J	6.10 J	2450 J
PCB-055	74338-24-2	ng/g	230	14.0	1.96 J	1.22 J	4.59 J	1.38 J	2.97 J	7.87 J+	< 0.235 U	< 0.201 U	3.22 J	10.3 J+
PCB-056/060	PCB-56/60	ng/g	230	14.0	31.3	49.9 J	460 J	28.5	76 J	261 J	228 JEB	202 JEB	113 JEB	1190 JEB
PCB-057	70424-67-8	ng/g	230	14.0	20.4	3.17 J	132	16.8 J	40.8 J	442 J	773 J	378 J	3.44 J	1080 J
PCB-058	41464-49-7	ng/g	230	14.0	1.05 J	0.811 J	13.1 J	0.885 J	10.4 J	50 J+	54.7 J	47.2 J+	< 0.0367 U	111 J+
PCB-059	74472-33-6	ng/g	230	14.0	28.4	5.64 J	120	19.7	< 0.344 U	244 J	260 J	145 J	10.3 J	338 J
PCB-061/074	PCB-61/74	ng/g	230	14.0	78 J	69.7 J	1090 J	69.4 J	1240 J	1990 J	1900 JEB	1590 JEB	121 J	11300 J
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0506 U	< 0.0515 U	< 0.202 U	< 0.0498 U	< 0.240 U	< 0.170 U	< 0.224 U	< 0.192 U	< 0.0501 U	< 0.298 U
PCB-063	74472-34-7	ng/g	230	14.0	48.8 J	15 J	457 J	41.8 J	229 J	1840 J	2130 J	1570 J	16.6 J	4370 J
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0729 U	< 0.0742 U	3.22 J	< 0.0717 U	2.19 J	11.5 J+	9.89 J	9.11 J+	< 0.0723 U	20.9 J+
PCB-066/080	PCB-66/80	ng/g	230	14.0	69.2 JEB	109 JEB	1700 JEB	71.9 JEB	1240 JEB	3540 JEB	1710 JEB	3190 JEB	199 JEB	14400 JEB
PCB-067	73575-53-8	ng/g	230	14.0	6.97 J	4.7 J	63 J	5.69 J	30.5 J	88.5 J+	191 J	68.9 J+	7.76 J	389 J
PCB-068	73575-52-7	ng/g	230	14.0	9.16 J	5.34 J	107	6.5 J	146	352 J	431 J	295 J	4.86 J	899 J
PCB-069	60233-24-1	ng/g	230	14.0	2.31 J	1.34 J	34.7 J	2.06 J	58.4 J	138 J	126	111 J+	1.62 J	331 J
PCB-070	32598-11-1	ng/g	230	14.0	57.8 JEB	101 JEB	1580 JEB	60.1 JEB	449 JEB	1490 JEB	739 JEB	1430 JEB	173 JEB	7850 JEB
PCB-071	41464-46-4	ng/g	230	14.0	224 J	70.3 J	1830 J	182 J	1810 J	4390 J	7340 JEB	3540 JEB	106 JEB	15100 JEB
PCB-072	41464-42-0	ng/g	230	14.0	14.2 J	5.48 J	135	11.8 J	183 J	432 J	536 J	339 J	5.87 J	1090 J
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0731 U	< 0.0744 U	< 0.292 U	< 0.0719 U	< 0.346 U	< 0.245 U	< 0.324 U	< 0.278 U	< 0.0724 U	< 0.431 U
PCB-077	32598-13-3	ng/g	38.0	14.0	13.4 J+	21.9 J+	189 J	13.7 J+	292 J	773 J	362 J	661 J	32.3 J+	3860 J
PCB-078	70362-49-1	ng/g	230	14.0	1.32 J	< 0.0381 U	7.97 J	0.983 J	3.7 J	16.8 J+	33.7 J	15.7 J+	< 0.0371 U	44.1 J+
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0470 U	< 0.0478 U	< 0.188 U	< 0.0462 U	8.06 J	13.8 J+	14.7 J	13.4 J+	< 0.0465 U	49.0 J+
PCB-081	70362-50-4	ng/g	12.0	14.0	1.14 J+	1.27 J+	8.33 J+	0.989 J+	5.57 J+	14.7 J+	18.0 J+	11.4 J+	1.69 J+	75.2 J+
PCB-082	52663-62-4	ng/g	230	14.0	12.9 J	9.21 J	55.8 J	10.1 J	29.6 J	83.4	110	56.2 J	11.1 J	377 J
PCB-083/109	PCB-83/109	ng/g	230	14.0	17.2 J	6.38 J	124	15 J	58 J	362 J	673 J	299 J	6.08 J	1210 J
PCB-084	52663-60-2	ng/g	230	14.0	59.3 J	23.4	303 J	49.9 J	148	588 J	1130 J	472 J	24.1	2330 J
PCB-085/120	PCB-85/120	ng/g	230	14.0	24.5	20.9	138	18.9	105	200 J	245 J	151 J	22.1	738 J
PCB-086/097	PCB-86/97	ng/g	230	14.0	20.9	25.6	187 J	16.2 J	103	241 J	412 J	179 J	26.8	1950 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	< 0.0294 U	< 0.0299 U	< 0.117 U	< 0.0289 U	< 0.139 U	< 0.0985 U	< 0.130 U	< 0.112 U	< 0.0291 U	< 0.173 U
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.106 U	< 0.108 U	< 0.425 U	< 0.105 U	3.5 J	12.9 J	18.5 J	8.23 J	< 0.105 U	40.6 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	74.6 J	85.4 J	749 J	57.3 J	485 J	1690 J	2550 J	1320 J	79.0 J	9490 J
PCB-091	68194-05-8	ng/g	230	14.0	62.4 J	27.5	630 J	54.8 J	503 J	1790 J	2970 J	1400 J	29.3	6950 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0063-PLC1	23A-0063-PLC1
					Sample Name	23A-0061-PLC1-CS	23A-0061-PLC1-AT	23A-0061-PLC1-BT	23A-0061-PLC1-CT	23A-0062-PLC1-AS	23A-0062-PLC1-BS	23A-0062-PLC1-CS	23A-0062-PLC1-BT	23A-0063-PLC1-AS	23A-0063-PLC1-BS
					Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/29/2023	6/29/2023
					Sample Type	N	FD	FD	FD	N	N	N	FD	N	N
					Depth Interval	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 4.7 ft	0.5 - 3 ft	0 - 0.5 ft	0.5 - 3.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-092	52663-61-3	ng/g	230	14.0	51.1 J	22	435 J	43.9 J	247 J	1370 J	2210 J	1090 J	20.7	5550 J
PCB-093/095	PCB-93/95	ng/g	230	14.0	165 J	65.9 J	1050 J	139 J	293 J	1610 J	3540 J	1290 J	60.0 J	5190 J
PCB-094	73575-55-0	ng/g	230	14.0	6.51 J	2.82 J	88.6	5.87 J	63.7 J	335 J	461 J	263 J	2.99 J	1160 J
PCB-096	73575-54-9	ng/g	230	14.0	6.17 J	1.86 J	51 J	5.37 J	24.4 J	135 J	255 J	116	2.11 J	422 J
PCB-098/102	PCB-98/102	ng/g	230	14.0	23.6	8.53 J	208 J	20.6	164	512 J	752 J	399 J	9.34 J	2240 J
PCB-099	38380-01-7	ng/g	230	14.0	42.4 J	51.3 J	546 J	34.4	566 J	1300 J	1730 J	978 J	53.3 J	8780 J
PCB-100	39485-83-1	ng/g	230	14.0	3.75 J	4.21 J	66.9 J	3.41 J	74.5 J	264 J	329 J	201 J	3.58 J	802 J
PCB-103	60145-21-3	ng/g	230	14.0	5.24 J	3.13 J	70.5 J	4.62 J	67.9 J	214 J	333 J	160 J	2.95 J	819 J
PCB-104	56558-16-8	ng/g	230	14.0	< 0.0447 U	< 0.0455 U	3.57 J	< 0.0439 U	5.4 J	14.1 J	15.5 J	11.1 J	0.252 J	52.2 J
PCB-105/127	PCB-105/127	ng/g	120	14.0	22.1	36.4	192 J	15.8 J	138	291 J	335 J	210 J	37.8	1950 J
PCB-106/118	PCB-106/118	ng/g	120	14.0	53 J	89.3 J	685 J	37.7 J	667 J	1510 J	1860 J	1200 J	86.3 J	11300 J
PCB-107/108	PCB-107/108	ng/g	230	14.0	6.4 J	9.22 J	99.7	5.36 J	86.2 J	373 J	414 J	323 J	8.69 J	1700 J
PCB-110	38380-03-9	ng/g	230	14.0	250 J	113 J	1590 J	207 J	822 J	2760 J	6090 JEB	2240 JEB	107 JEB	12200 JEB
PCB-111/117	PCB-111/117	ng/g	230	14.0	38	33.8	266 J	29.9	261 J	700 J	891 J	533 J	35.7	2770 J
PCB-112	74472-36-9	ng/g	230	14.0	1.56 J	< 0.0468 U	17.2 J	1.42 J	11.8 J	60 J	81.8 J	49.6 J	< 0.0456 U	187
PCB-113	68194-10-5	ng/g	230	14.0	3.23 J	< 0.0491 U	21.7 J	2.73 J	7.47 J	30.4 J	79.3 J	24.5 J	< 0.0479 U	98.8 J
PCB-114	74472-37-0	ng/g	120	14.0	2.25 J	3.16 J	22.1 J	1.6 J	20 J	43.6 J	39.8 J	32.7 J	3.21 J	229 J
PCB-119	56558-17-9	ng/g	230	14.0	12.9 J	7.11 J	142	11.1 J	121	437 J	796 J	355 J	6.66 J	1870 J
PCB-122	76842-07-4	ng/g	230	14.0	0.599 J	1.55 J	7.3 J	< 0.0332 U	5.07 J	9.94 J	10.6 J	7.03 J	1.20 J	94.3 J
PCB-123	65510-44-3	ng/g	120	14.0	2.25 J+	3.42 J+	23.1 J+	1.64 J+	21.4 J+	44.2 J+	56.6 J+	35.0 J+	3.25 J+	292 J
PCB-124	70424-70-3	ng/g	230	14.0	1.58 J	3.56 J	19.3 J	1 J	17.5 J	34.2 J	29.6 J	26.9 J	3.61 J	308 J
PCB-125	74472-39-2	ng/g	230	14.0	< 0.0462 U	< 0.0470 U	6.82 J	< 0.0454 U	11.4 J	35.4 J	13.8 J	29.2 J	0.768 J	170
PCB-126	57465-28-8	ng/g	0.0360	14.0	< 0.0657 U	< 0.0668 U	11.2 J+	< 0.0646 U	9.96 J+	27.2 J+	37.4 J+	23.9 J+	< 0.0651 U	106 J+
PCB-128	38380-07-3	ng/g	230	14.0	11.3 J	15.4 J	73.3 J	6.97 J	69.2 J	136 J	213 J	115	11.7 J	873 J
PCB-129	55215-18-4	ng/g	230	14.0	2.22 J	4.09 J	15.9 J	0.962 J	13.7 J	34.1 J	48.9 J	32.6 J	2.56 J	229 J
PCB-130	52663-66-8	ng/g	230	14.0	5.86 J	4.87 J	40.6 J	4.2 J	29 J	69.5	126	57.2 J	4.11 J	400 J
PCB-131/142	PCB-131/142	ng/g	230	14.0	0.868 J	< 0.100 U	4.92 J	< 0.0971 U	4.79 J	9.68 J	14.7 J	8.60 J	< 0.0978 U	60.1 J
PCB-132/168	PCB-132/168	ng/g	230	14.0	26.3	22.6	142	18.2 J	101	207 J	381 J	169 J	17.6 J	1310 J
PCB-133	35694-04-3	ng/g	230	14.0	2.52 J	< 0.0365 U	22 J	2.02 J	11 J	52.9 J	103	46.1 J	< 0.0356 U	218
PCB-134	52704-70-8	ng/g	230	14.0	4.85 J	3.58 J	42.6 J	3.56 J	24.6 J	105	201 J	89.4	3.08 J	413 J
PCB-135/144	PCB-135/144	ng/g	230	14.0	14.4 J	9.39 J	103	10.8 J	55.2 J	191 J	393 J	157 J	7.24 J	875 J
PCB-136	38411-22-2	ng/g	230	14.0	10 J	7.2 J	74.4 J	7.32 J	40.4 J	164 J	327 J	140	5.75 J	656 J
PCB-137	35694-06-5	ng/g	230	14.0	3.38 J	5.6 J	28.6 J	1.77 J	35.1 J	81.8	97.6	66.8 J	4.42 J	451 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	63.3 J	82.1 J	527 J	41.1 J	443 J	1180 J	1850 J	1010 J	61.0 J	5690 J
PCB-139/149	PCB-139/149	ng/g	230	14.0	52.7 J	42.2 J	386 J	37.7 J	254 J	748 J	1460 J	623 J	33.5	3820 J
PCB-140	59291-64-4	ng/g	230	14.0	< 0.0680 U	< 0.0692 U	6.88 J	< 0.0669 U	3.92 J	9.74 J	20.4 J	7.39 J	< 0.0673 U	55.7 J
PCB-141	52712-04-6	ng/g	230	14.0	6.67 J	11.5 J	51.3 J	3.6 J	43.6 J	106	137	89.4	8.22 J	687 J
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0613 U	< 0.0624 U	< 0.245 U	< 0.0603 U	< 0.290 U	< 0.205 U	< 0.272 U	< 0.233 U	< 0.0607 U	42.3 J
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0810 U	< 0.0824 U	< 0.323 U	< 0.0796 U	< 0.383 U	< 0.271 U	< 0.359 U	< 0.308 U	< 0.0802 U	< 0.477 U
PCB-146	51908-16-8	ng/g	230	14.0	9.22 J	8.04 J	86.4	7.17 J	53.7 J	167 J	320 J	137	6.52 J	910 J
PCB-147	68194-13-8	ng/g	230	14.0	3.79 J	3.96 J	67.1 J	3.11 J	54.1 J	271 J	377 J	230 J	3.60 J	845 J
PCB-148	74472-41-6	ng/g	230	14.0	0.373 J	< 0.0761 U	4.8 J	0.294 J	3.08 J	14.4 J	24.0 J	12.0 J	< 0.0741 U	51.5 J
PCB-150	68194-08-1	ng/g	230	14.0	0.31 J	< 0.0769 U	6.63 J	0.266 J	4.14 J	26.1 J	39.6 J	21.6 J	0.219 J	70.5 J
PCB-151	52663-63-5	ng/g	230	14.0	14.6 J	10.2 J	143	11.5 J	78.5 J	362 J	628 J	302 J	8.50 J	1430 J
PCB-152	68194-09-2	ng/g	230	14.0	0.373 J	< 0.0899 U	7.13 J	0.339 J	4.81 J	26.7 J	34.2 J	22.2 J	0.269 J	88.2 J
PCB-153	35065-27-1	ng/g	230	14.0	34.1	49.2 J	310 J	20	270 J	703 J	1090 J	585 J	37.8	4220 J
PCB-154	60145-22-4	ng/g	230	14.0	2.39 J	1.53 J	34 J	2.02 J	20.5 J	98.7	174 J	82.9	1.31 J	359 J
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0454 U	< 0.0462 U	< 0.181 U	< 0.0447 U	< 0.215 U	< 0.152 U	< 0.201 U	< 0.173 U	< 0.0450 U	1.93 J
PCB-156	38380-08-4	ng/g	120	14.0	5.02 J	8.31 J	44.7 J	2.99 J	48.4 J	116	155	95.9	6.00 J	714 J
PCB-157	69782-90-7	ng/g	120	14.0	1.41 J+	2.2 J+	13.1 J+	0.728 J+	15.3 J+	33.2 J+	45.7 J+	28.8 J+	1.75 J+	188 J+

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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				Location	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0063-PLC1	23A-0063-PLC1
				Sample Name	23A-0061-PLC1-CS	23A-0061-PLC1-AT	23A-0061-PLC1-BT	23A-0061-PLC1-CT	23A-0062-PLC1-AS	23A-0062-PLC1-BS	23A-0062-PLC1-CS	23A-0062-PLC1-BT	23A-0063-PLC1-AS	23A-0063-PLC1-BS
				Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/29/2023	6/29/2023
				Sample Type	N	FD	FD	FD	N	N	N	FD	N	N
				Depth Interval	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 4.7 ft	0.5 - 3 ft	0 - 0.5 ft	0.5 - 3.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-158/160	PCB-158/160	ng/g	230	14.0	6.17 J	8.16 J	42.8 J	3.61 J	43.1 J	91.6	132	75.5	6.16 J	552 J
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0733 U	< 0.0746 U	4.21 J	< 0.0721 U	3.04 J	10.9 J	17.2 J	7.99 J	< 0.0726 U	45.7 J
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0686 U	< 0.0697 U	< 0.274 U	< 0.0674 U	< 0.325 U	< 0.230 U	< 0.304 U	< 0.261 U	< 0.0679 U	< 0.404 U
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0540 U	< 0.0550 U	< 0.216 U	< 0.0531 U	2.65 J	9.46 J	11.7 J	6.43 J	< 0.0535 U	43.1 J
PCB-165	74472-46-1	ng/g	230	14.0	0.479 J	< 0.0754 U	3.41 J	< 0.0729 U	1.63 J	7.22 J	15.0 J	6.18 J	< 0.0734 U	22.8 J
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0638 U	< 0.0649 U	< 0.255 U	< 0.0627 U	3.05 J	6.09 J	< 0.283 U	4.70 J	< 0.0632 U	37.2 J
PCB-167	52663-72-6	ng/g	120	14.0	1.89 J	3.05 J	16.9 J	1.15 J	19.7 J	47 J	61.8 J	39.5 J	2.63 J+	284 J
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0540 U	< 0.0550 U	< 0.216 U	< 0.0531 U	< 0.256 U	< 0.181 U	< 0.240 U	< 0.205 U	< 0.0535 U	< 0.318 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	11.4 J	16.2 J	124	9.39 J	99.8	313 J	470 J	288 J	11.5 J	1540 J
PCB-171	52663-71-5	ng/g	230	14.0	3.43 J	3.83 J	31.5 J	2.66 J	24.5 J	72.9	115	64.2 J	2.88 J	354 J
PCB-172/192	PCB-172/192	ng/g	230	14.0	1.58 J	2.15 J	17.9 J	1.45 J	13.3 J	45.6 J	68.4 J	39.3 J	1.45 J	205
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0791 U	< 0.0804 U	< 0.316 U	< 0.0777 U	< 0.374 U	< 0.265 U	< 0.350 U	< 0.301 U	< 0.0783 U	27.5 J
PCB-174	38411-25-5	ng/g	230	14.0	8.61 J	11.8 J	91.6	6.89 J	70.6 J	211 J	316 J	185 J	8.61 J	1060 J
PCB-175	40186-70-7	ng/g	230	14.0	0.522 J	0.506 J	4.88 J	0.423 J	3.64 J	10.5 J	17.6 J	9.41 J	0.357 J	48.4 J
PCB-176	52663-65-7	ng/g	230	14.0	1.4 J	1.36 J	12.7 J	1.13 J	8.66 J	25 J	42.2 J	21.6 J	0.967 J	132
PCB-177	52663-70-4	ng/g	230	14.0	7.25 J	7.24 J	65.7 J	5.97 J	46.9 J	143 J	237 J	124	5.19 J	698 J
PCB-178	52663-67-9	ng/g	230	14.0	3.1 J	2.58 J	32.8 J	2.61 J	20.2 J	84.6	136	72.9	2.06 J	321 J
PCB-179	52663-64-6	ng/g	230	14.0	4.69 J	4.06 J	46.8 J	3.86 J	28.5 J	115	193 J	100	3.07 J	488 J
PCB-180	35065-29-3	ng/g	230	14.0	19.8	28.7	222 J	16 J	187 J	594 J	832 J	516 J	20.3	2730 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0540 U	< 0.0550 U	< 0.216 U	< 0.0531 U	< 0.256 U	< 0.181 U	< 0.240 U	< 0.205 U	< 0.0535 U	< 0.318 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	14.2 J	14 J	147	11.8 J	106	372 J	584 J	323 J	10.5 J	1560 J
PCB-183	52663-69-1	ng/g	230	14.0	5.65 J	6.51 J	53.7 J	4.43 J	44.9 J	136 J	198 J	116	4.72 J	617 J
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0512 U	< 0.0521 U	< 0.204 U	< 0.0503 U	< 0.242 U	< 0.171 U	< 0.227 U	< 0.195 U	< 0.0507 U	< 0.301 U
PCB-185	52712-05-7	ng/g	230	14.0	0.975 J	1.24 J	10.2 J	0.792 J	8.38 J	27.2 J	36.4 J	23.2 J	0.899 J	125
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0640 U	< 0.0651 U	< 0.255 U	< 0.0629 U	< 0.303 U	< 0.214 U	< 0.284 U	< 0.243 U	< 0.0634 U	< 0.377 U
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0586 U	< 0.0596 U	0.951 J	< 0.0577 U	< 0.278 U	4.45 J	5.51 J	3.95 J	< 0.0581 U	10.8 J
PCB-189	39635-31-9	ng/g	130	14.0	0.46 J	< 0.0606 U	6.13 J	0.442 J	4.91 J	15.8 J	23.8 J	13.6 J	0.506 J	71.5 J
PCB-191	74472-50-7	ng/g	230	14.0	0.334 J	< 0.0548 U	4.69 J	0.264 J	3.93 J	11.2 J	16.0 J	8.95 J	0.365 J	51.3 J
PCB-193	69782-91-8	ng/g	230	14.0	0.992 J	1.47 J	14.2 J	0.838 J	10.6 J	38.7 J	55.8 J	32.0 J	1.05 J	153
PCB-194	35694-08-7	ng/g	230	14.0	7.03 J	8.81 J	90.1	7.07 J	70.9 J	241 J	331 J	207 J	9.61 J	1010 J
PCB-195	52663-78-2	ng/g	230	14.0	2.6 J	2.74 J	28.3 J	2.27 J	22.8 J	78	111	65.2 J	2.48 J	327 J
PCB-196/203	PCB-196/203	ng/g	230	14.0	7.14 J	8.96 J	85.3	5.84 J	71.6 J	235 J	320 J	196 J	7.07 J	974 J
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0644 U	< 0.0655 U	2.3 J	< 0.0633 U	1.79 J	6.95 J	10.0 J	6.47 J	< 0.0637 U	28.8 J
PCB-198	68194-17-2	ng/g	230	14.0	< 0.104 U	< 0.106 U	< 0.417 U	< 0.103 U	< 0.495 U	10.3 J	16.4 J	8.13 J	< 0.103 U	43.7 J
PCB-199	52663-75-9	ng/g	230	14.0	5.84 J	7.5 J	70.6 J	5.19 J	58.9 J	190 J	261 J	160 J	5.91 J	793 J
PCB-200	52663-73-7	ng/g	230	14.0	0.784 J	0.778 J	8.92 J	< 0.0503 U	7.13 J	22.4 J	31.4 J	18.8 J	0.617 J	93.8 J
PCB-201	40186-71-8	ng/g	230	14.0	0.676 J	0.789 J	8.71 J	0.509 J	7.31 J	23.3 J	33.5 J	19.5 J	0.751 J	94.9 J
PCB-202	2136-99-4	ng/g	230	14.0	1.18 J	1.42 J	12.9 J	0.81 J	10.8 J	36.3 J	48.8 J	30.8 J	0.940 J	138
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0846 U	< 0.0861 U	< 0.338 U	< 0.0832 U	< 0.401 U	< 0.283 U	< 0.375 U	< 0.322 U	< 0.0838 U	< 0.498 U
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0600 U	< 0.0610 U	4.51 J	< 0.0590 U	4.32 J	13.2 J	18.0 J	10.4 J	< 0.0594 U	51.5 J
PCB-206	40186-72-9	ng/g	230	14.0	2.92 J	4.49 J	33.3 J	2.73 J	34 J	93.7	120	81.0	3.97 J	338 J
PCB-207	52663-79-3	ng/g	230	14.0	< 0.0760 U	< 0.0773 U	3.16 J	< 0.0747 U	3.8 J	10.3 J	13.3 J	8.97 J	0.434 J	36.4 J
PCB-208	52663-77-1	ng/g	230	14.0	0.675 J	1.25 J	8.26 J	0.665 J	8.93 J	21.7 J	25.1 J	18.2 J	1.07 J	69.8 J
PCB-209	2051-24-3	ng/g	230	14.0	1.13 J	2.3 J	9.31 J	0.96 J	9.95 J	16.3 J	18.8 J	13.6 J	1.91 J	47.0 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	1.13	2.3	9.31	0.96	9.95	16.3	18.8	13.6	1.91	47.0
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	84.4	102	887	68.9	682	2220	3350	1940	74.4	10200
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	284	303	2300	191	1750	5090	8500	4270	234	25600
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	25.3	31.0	312	21.7	256	856	1180	722	27.4	3550
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	16300	8240	221000	13100	437000	915000	934000	699000	8450	2670000
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	969	659	7810	795	5140	17100	28500	13500	648	81400
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	3530	2500	86100	2910	252000	490000	368000	375000	1930	1220000
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	349	443	8700	241	32400	45600	29800	35800	211	109000
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	3.60	5.74	44.7	3.40	46.7	126	158	108	5.47	444
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	3940	1640	36200	3310	33500	89600	137000	68800	2350	326000
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	7110	2550	78200	5530	111000	264000	358000	199000	2970	896000

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0063-PLC1	23A-0063-PLC1
				Sample Name	23A-0061-PLC1-CS	23A-0061-PLC1-AT	23A-0061-PLC1-BT	23A-0061-PLC1-CT	23A-0062-PLC1-AS	23A-0062-PLC1-BS	23A-0062-PLC1-CS	23A-0062-PLC1-BT	23A-0063-PLC1-AS	23A-0063-PLC1-BS
				Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/29/2023	6/29/2023
				Sample Type	N	FD	FD	FD	N	N	N	FD	N	N
				Depth Interval	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 4.7 ft	0.5 - 3 ft	0 - 0.5 ft	0.5 - 3.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	4900	4600	5600	3100	5000	6900	11000	5000	2300	7900
Calcium	7440-70-2	mg/kg			2000	2600	2100	1100	2100	2400	3500	1900	1400	2900
Iron	7439-89-6	mg/kg	5500	20000	16000 J	18000	12000	7900 J	13000	14000	20000	11000	8000	16000
Magnesium	7439-95-4	mg/kg			2900 J	1700	1900	1500 J	1500	2400	3500	1900	780 J	2400
Potassium	7440-09-7	mg/kg			280 J	280 J	370 J	250 J	310 J	430 J	770	310 J	120 J	490 J
Sodium	7440-23-5	mg/kg			230 J	490 J	760	210 J	500 J	860	1900	660	170 J	610 J
Antimony	7440-36-0	mg/kg	3.1	2	< 0.97 U	0.52 J	< 1.7 U	< 0.73 U	< 1.6 U	< 1.8 U	< 1.2 U	< 1.1 U	< 1.8 U	< 1.7 U
Arsenic	7440-38-2	mg/kg	0.68	9.8	2.0	4.0	5.8 J	1.4	4.3	4.2	5.3	2.6	2.5	8.1
Barium	7440-39-3	mg/kg	1500	20	23	67	81 J	20	95	92 J	95	52 J	58	120
Beryllium	7440-41-7	mg/kg	16		0.18 J	0.31 J	0.36 J	0.15 J	0.32 J	0.28 J	0.40 J	0.24 J	0.20 J	0.46 J
Cadmium	7440-43-9	mg/kg	0.71	1	0.14 J	1.3	1.2	0.14 J	1.6	1.7	2.1	0.98	0.56 J	3.0
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	10	25	48 J	9.5	47	51	58	34	14 EB	94 EB
Cobalt	7440-48-4	mg/kg	2.3	50	3.7	6.3	5.8 J	3.0	5.5	5.0	6.0	4.1	4.3	6.6
Copper	7440-50-8	mg/kg	310	31.6	16	54	95 J	14	84	120	110	87	27	190
Lead	7439-92-1	mg/kg	200	35.8	34	88 J	210 J	26	230	190	220	160	59	490
Manganese	7439-96-5	mg/kg	180	460	250	340 J	310 J	190	420	280	490	170	440 JEB	270 JEB
Nickel	7440-02-0	mg/kg	140	22.7	5.5	8.5	13 J	4.2	12	12	12	12	5.1	18
Selenium	7782-49-2	mg/kg	39	11	< 2.4 U	< 4.3 U	< 4.2 U	< 1.8 U	< 3.9 U	< 4.4 U	< 3.0 U	< 2.8 U	< 4.5 U	< 4.2 U
Silver	7440-22-4	mg/kg	39	1	0.078 J	0.30 J	0.69 J	0.040 J	0.63 J	1.5	0.57 J	0.32 J	0.14 J	2.7
Thallium	7440-28-0	mg/kg	0.078		< 0.49 U	< 0.87 U	< 0.84 U	< 0.36 U	< 0.78 U	< 0.89 U	< 0.60 U	< 0.56 U	< 0.89 U	< 0.84 U
Vanadium	7440-62-2	mg/kg	39		8.3	14	20 J	6.6	18	23	24	17	8.0	27
Zinc	7440-66-6	mg/kg	2300	121	63 J	230 J	420 J	43 J	270 J	510 J	530 J	180 J	110 JEB	710 JEB
Mercury	7439-97-6	mg/kg	2.3	0.18	0.18	0.28 J-	0.89	0.14	0.51	1.2	1.6	0.99	0.16 J	2.6
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.55 U	< 1.1 R	< 0.84 U	< 0.53 U	< 1.1 U	< 0.95 U	< 0.88 U	< 0.82 U	< 0.89 U	< 1.2 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 UJ	11	< 10 U	< 9.1 U	< 8.2 U	< 14 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 UJ	30	< 10 U	< 9.1 U	< 8.2 U	< 14 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 6.4 U	< 10 U	23	2.0 J	< 11 UJ	38 J	12	7.6 J	< 8.2 U	< 14 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	14	< 10 U	< 9.1 U	< 8.2 U	< 14 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 R	< 11 UJ	< 10 U	< 9.1 UJ	< 8.2 U	< 14 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 6.4 U	< 10 U	< 9.5 U	< 4.8 UJ	< 11 UJ	< 11 UJ	< 10 U	< 9.1 U	< 8.2 U	< 14 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 R	< 11 UJ	< 10 U	< 9.1 UJ	< 8.2 U	< 14 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	12 J-	6.9 J	< 10 U	< 9.1 U	3.0 J	15
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 R	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 6.4 UJ	< 10 UJ	< 9.5 U	< 4.8 U	< 11 R	< 11 UJ	37	44 J	< 8.2 U	< 14 U
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 6.4 U	< 10 U	< 9.5 U	< 4.8 UJ	< 11 UJ	< 11 UJ	< 10 U	< 9.1 U	< 8.2 U	< 14 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	3.2 J	3.4 J	< 10 U	< 9.1 U	1.8 J	< 14 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 R	< 11 UJ	< 10 U	< 9.1 UJ	< 8.2 U	< 14 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 R	< 11 UJ	< 10 U	< 9.1 UJ	< 8.2 U	< 14 U
2-HEXANONE	591-78-6	ug/kg	20000	45	< 13 U	< 21 U	< 19 U	< 9.6 U	< 22 UJ	< 22 U	< 20 U	< 18 U	< 16 U	< 27 U
ACETONE	67-64-1	ug/kg	7000000	65	9.8 J	360 J	320	15	950 J	350	170	230	170	570
Benzene	71-43-2	ug/kg	1200	10	< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 6.4 U	< 10 U	< 9.5 U	< 4.8 UJ	< 11 UJ	< 11 UJ	< 10 U	< 9.1 U	< 8.2 U	< 14 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0063-PLC1	23A-0063-PLC1
				Sample Name	23A-0061-PLC1-CS	23A-0061-PLC1-AT	23A-0061-PLC1-BT	23A-0061-PLC1-CT	23A-0062-PLC1-AS	23A-0062-PLC1-BS	23A-0062-PLC1-CS	23A-0062-PLC1-BT	23A-0063-PLC1-AS	23A-0063-PLC1-BS
				Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/29/2023	6/29/2023
				Sample Type	N	FD	FD	FD	N	N	N	FD	N	N
				Depth Interval	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 4.7 ft	0.5 - 3 ft	0 - 0.5 ft	0.5 - 3.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 R	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 6.4 U	< 10 U	4.4 J	1.6 J	< 11 UJ	3.2 J	4.2 J	3.9 J	< 8.2 U	3.7 J
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
Chlorobenzene	108-90-7	ug/kg	28000	30	< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 UJ	< 11 UJ	< 10 U	< 9.1 UJ	< 8.2 U	< 14 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 6.4 U	< 10 U	44 j	< 4.8 U	44 J	140 J	44	46 J	11	15
Chloroform	67-66-3	ug/kg	320	87	< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	16	< 10 U	35 J	27	< 11 UJ	46 J	5.0 J	3.0 J	< 8.2 U	< 14 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
Cyclohexane	110-82-7	ug/kg	650000		< 6.4 U	< 10 U	< 9.5 U	< 4.8 UJ	< 11 UJ	3.4 J-	3.9 J	3.8 J	< 8.2 U	< 14 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
Ethylbenzene	100-41-4	ug/kg	5800	290	< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	4.0 J	< 11 U	3.9 J	4.6 J	< 8.2 U	< 14 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 R	3.5 J	< 10 U	2.7 J	< 8.2 U	< 14 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	3.8 J	3.1 J	5.0 J	7.4 J	2.6 J	3.9 J
METHYL ACETATE	79-20-9	ug/kg	7800000		< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	< 13 U	100 J	84	< 9.6 U	260 J	87	37	56	51	160
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 13 U	< 21 U	< 19 U	< 9.6 U	< 22 U	< 22 U	< 20 U	< 18 U	< 16 U	< 27 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 6.4 U	< 10 U	2.9 J	< 4.8 UJ	< 11 UJ	6.8 J-	8.0 J	7.0 J	< 8.2 U	< 14 U
Methylene Chloride	75-09-2	ug/kg	35000	18	< 6.4 UJ	< 10 UJ	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	9.7 J	5.9 J	< 10 U	< 9.1 U	3.1 J	7.2 J
Styrene	100-42-5	ug/kg	600000	126	< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	12	< 10 U	< 9.1 U	< 8.2 U	< 14 U
Toluene	108-88-3	ug/kg	490000	10	< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	4.8 J	4.8 J	< 10 U	< 9.1 U	< 8.2 U	5.4 J
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 6.4 U	< 10 U	< 9.5 U	< 4.8 U	< 11 UJ	8.4 J	< 10 U	< 9.1 U	< 8.2 U	< 14 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 6.4 U	< 10 UJ	< 9.5 U	< 4.8 U	< 11 UJ	< 11 U	< 10 U	< 9.1 U	< 8.2 U	< 14 U
Vinyl Chloride	75-01-4	ug/kg	59	482	3.0 J	< 10 U	42 J	5.8	< 11 UJ	67 J	6.9 J	4.5 J	< 8.2 U	< 14 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-	-	-	< 120 UJ	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 200 UJ	< 380 UJ	< 290 U	< 180 UJ	< 390 UJ	< 330 UJ	< 300 U	< 280 U	< 310 U	< 420 UJ
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 380 U	< 730 UJ	< 570 U	< 360 UJ	< 750 U	< 640 UJ	< 590 U	< 550 UJ	< 600 U	< 820 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 380 UJ	< 730 UJ	< 570 U	< 360 UJ	< 750 UJ	< 640 UJ	< 590 U	< 550 U	< 600 U	< 820 UJ
2-NITROANILINE	88-74-4	ug/kg	63000		< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 380 U	< 730 UJ	< 570 U	< 360 U	< 750 U	< 640 U	< 590 U	< 550 U	< 600 U	< 820 U

Table 11
Sediment Analytical Results
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				Location	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0063-PLC1	23A-0063-PLC1
				Sample Name	23A-0061-PLC1-CS	23A-0061-PLC1-AT	23A-0061-PLC1-BT	23A-0061-PLC1-CT	23A-0062-PLC1-AS	23A-0062-PLC1-BS	23A-0062-PLC1-CS	23A-0062-PLC1-BT	23A-0063-PLC1-AS	23A-0063-PLC1-BS
				Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/29/2023	6/29/2023
				Sample Type	N	FD	FD	FD	N	N	N	FD	N	N
				Depth Interval	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 4.7 ft	0.5 - 3 ft	0 - 0.5 ft	0.5 - 3.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 380 U	< 730 UJ	< 570 U	< 360 U	< 750 U	< 640 U	< 590 U	< 550 U	< 600 U	< 820 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 380 U	< 730 UJ	< 570 U	< 360 UJ	< 750 U	< 640 U	< 590 U	< 550 U	< 600 U	< 820 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 200 U	< 380 UJ	< 290 U	< 180 UJ	< 390 U	< 330 UJ	< 300 UJ	< 280 UJ	< 310 U	< 420 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 380 UJ	< 730 UJ	< 570 U	< 360 UJ	< 750 UJ	< 640 U	< 590 U	< 550 U	< 600 U	< 820 UJ
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 380 UJ	< 730 UJ	< 570 UJ	< 360 UJ	< 750 UJ	< 640 UJ	< 590 U	< 550 U	< 600 UJ	< 820 UJ
4-Nitroaniline	100-01-6	ug/kg	25000		< 380 U	< 730 UJ	< 570 U	< 360 U	< 750 U	< 640 U	< 590 U	< 550 U	< 600 U	< 820 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 380 U	< 730 UJ	< 570 U	< 360 U	< 750 U	< 640 U	< 590 U	< 550 U	< 600 U	< 820 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		210 J	< 730 UJ	200 J	< 360 U	270 J	110 J	< 590 UJ	250 J	250 JEB	370 JEB
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 380 U	< 730 UJ	< 570 U	< 360 U	< 750 U	< 640 U	< 590 U	< 550 U	< 600 U	< 820 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 380 U	< 730 UJ	< 570 U	< 360 U	< 750 U	< 640 U	< 590 U	< 550 U	< 600 U	< 820 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	820	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	1100 J	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 380 U	< 730 UJ	< 570 U	< 360 U	< 750 U	< 640 U	< 590 U	< 550 U	< 600 U	< 820 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 380 U	< 730 UJ	< 570 U	< 360 U	< 750 U	< 640 U	< 590 U	< 550 U	< 600 U	< 820 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	400	190 J	180 J	74 J	390	2200 J	140 J	440 J	230 J	520
Caprolactam	105-60-2	ug/kg	3100000		< 380 U	< 730 UJ	< 570 U	< 360 U	< 750 U	< 640 U	< 590 U	< 550 U	< 600 U	< 820 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 380 U	< 730 UJ	< 570 U	< 360 U	< 750 U	< 640 U	< 590 U	< 550 U	< 600 U	< 820 U
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	830	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	100 J	< 300 U	< 280 U	< 310 U	< 420 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 380 U	< 730 UJ	< 570 U	< 360 U	< 750 U	< 640 U	< 590 U	< 550 U	< 600 U	< 820 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	360	-	-	-	-	2400 J	-	940 J	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 380 U	< 730 UJ	< 570 U	< 360 U	< 750 U	< 640 U	< 590 U	< 550 U	< 600 U	< 820 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 200 U	< 380 UJ	< 290 U	< 180 UJ	< 390 U	< 330 UJ	< 300 U	< 280 UJ	< 310 U	< 420 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 200 U	< 380 UJ	< 290 U	< 180 U	< 390 U	< 330 U	< 300 U	< 280 U	< 310 U	< 420 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	-	-	-	< 640 U	-	< 550 U	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	370	-	-	-	-	1400 J	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	175	44 J	< 730 UJ	< 570 U	< 360 U	< 750 U	< 640 U	< 590 U	160 J	< 600 U	94 J
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	1300 J	-	-	-	-

Table 11
Sediment Analytical Results
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					Location	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0061-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0062-PLC1	23A-0063-PLC1	23A-0063-PLC1
					Sample Name	23A-0061-PLC1-CS	23A-0061-PLC1-AT	23A-0061-PLC1-BT	23A-0061-PLC1-CT	23A-0062-PLC1-AS	23A-0062-PLC1-BS	23A-0062-PLC1-CS	23A-0062-PLC1-BT	23A-0063-PLC1-AS	23A-0063-PLC1-BS
					Sample Date	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/28/2023	6/29/2023	6/29/2023
					Sample Type	N	FD	FD	FD	N	N	N	FD	N	N
					Depth Interval	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 1.7 ft	1.7 - 2.7 ft	0 - 0.5 ft	0.5 - 3 ft	3 - 4.7 ft	0.5 - 3 ft	0 - 0.5 ft	0.5 - 3.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 7.6 UJ	< 15 UJ	2.8 J	< 7.3 U	< 15 UJ	< 13 U	< 12 UJ	< 11 U	-	22
1-Methylnaphthalene	90-12-0	ug/kg	18	141	14 J-	14 J	3.0 J+	3.7 JEB	13 J-	43 JEB	6.0	19 JEB	3.6 JEB	28 JEB
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	20 JEB	23 JEB	5.0 JEB	5.0 JEB	15 JEB	50 JEB	6.6 EB	22 JEB	6.0 EB	13 JEB
Acenaphthene	83-32-9	ug/kg	360000	6.7	39 J-	23 J	11 J	9.2 J	36 J-	180 J	5.4 J	69 J	8.1	17
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	13 J-	12 J	8.3 J	7.6	11 J-	54	3.0 J	36	6.3	9.7
ANTHRACENE	120-12-7	ug/kg	1800000	57	47 J-	18 J	17 J	12 J	41 J-	33 J-	1.9 J-	24 J-	16 J-	5.1 J-
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	150	120 J	130 J+	54 JEB	280	-	40	410 JEB	97 J-	160
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	29 J-	3.3 J	69 J	7.8 J	120 J-	150 J	6.5	48 J	43	59
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	150	96 J	140 J+	85 JEB	290	-	43	400 EB	130	150
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	2.3 J-	< 7.3 UJ	55 J	0.81 J	110 J-	9.4 J-	< 5.9 U	2.9 J-	50	64
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	58 J-	49 J	47 J	24 JEB	98 J-	340 JEB	17	180 JEB	51	58
CHRYSENE	218-01-9	ug/kg	110000	166	130	96 J	130 J+	52 JEB	230	-	33	340 JEB	96	140
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	16 J-	17 J	18 J	8.9 EB	33 J-	100 JEB	5.7 J	55 JEB	15	19
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	280 J	270 J+	140 JEB	490	-	83 J-	-	200	270 J-
FLUORENE	86-73-7	ug/kg	240000	77	43 J-	32 J	12 J	11 JEB	44 J-	220 JEB	6.7	100 JEB	9.9	22
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	33 J-	9.2 J	50 J	14 J	100 J-	180 J	12	50 J	49	59
Naphthalene	91-20-3	ug/kg	2000	176	48 JEB	21 JEB	25 JEB	8.9 JEB	50 JEB	70 JEB	3.2 JEB	27 JEB	30 EB	48 JEB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 7.7 U	< 15 UJ	< 12 U	-	< 15 U	-	< 12 U	-	< 12 U	< 17 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	190 J	150 J+	100 J	490	-	17 J-	350 J-	130	43 J-
PYRENE	129-00-0	ug/kg	180000	195	190	50 J	220 J+	50 J	410	-	54 J	230 J	170	250
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			1100 J	65000 J	32000 J	860 J	30000	72000 J	2800 J-	5700 J	41000	73000
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			-	30	-	-	6.6	-	-	-	11	-
Cadmium	7440-43-9	umol/g			-	0.0084	-	-	0.012	-	-	-	0.0052	-
Copper	7440-50-8	umol/g			-	0.43	-	-	0.74	-	-	-	0.27 EB	-
Lead	7439-92-1	umol/g			-	0.49	-	-	0.92	-	-	-	0.25	-
Nickel	7440-02-0	umol/g			-	0.44 J	-	-	0.51	-	-	-	0.32	-
Silver	7440-22-4	umol/g			-	0.00044	-	-	0.00075	-	-	-	0.00027	-
Zinc	7440-66-6	umol/g			-	3.1	-	-	3.3	-	-	-	2.0	-
Mercury	7439-97-6	umol/g			-	< 0.000073 U	-	-	< 0.000063 U	-	-	-	< 0.000046 U	-

Table 11
Sediment Analytical Results
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					Location	23A-0063-PLC1	23A-0063-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0065-PLC1	23A-0066-PLC1
					Sample Name	23A-0063-PLC1-CS	23A-0063-PLC1-BT	23A-0064-PLC1-AS	23A-0064-PLC1-BS	23A-0064-PLC1-CS	23A-0064-PLC1-AT	23A-0064-PLC1-BT	23A-0064-PLC1-CT	23A-0065-PLC1-AS	23A-0066-PLC1-AS
					Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/24/2023
					Sample Type	N	FD	N	N	N	FD	FD	FD	N	N
					Depth Interval	3.7 - 4.9 ft	0.5 - 3.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/kg	39	29	< 1.9 U	< 4.3 U	< 6.4 UJ	< 4.2 U	< 2.6 U	< 6.1 UJ	< 3.6 U	< 3.0 U	< 2.2 U	< 2.7 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 1.9 U	< 4.3 U	< 6.4 UJ	< 4.2 U	< 2.6 U	< 6.1 UJ	< 3.6 U	< 3.0 U	< 2.2 U	< 2.7 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 1.9 U	< 4.3 U	< 6.4 UJ	< 4.2 U	< 2.6 U	< 6.1 UJ	< 3.6 U	< 3.0 U	< 2.2 U	< 2.7 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 1.9 U	< 4.3 U	< 6.4 UJ	< 4.2 U	< 2.6 U	< 6.1 UJ	< 3.6 U	< 3.0 U	< 2.2 U	< 2.7 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 3.8 U	< 8.3 U	< 12 UJ	< 8.1 U	< 5.1 U	< 12 UJ	< 6.9 U	< 5.9 U	< 4.2 U	< 5.2 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		3.3 J	32 J+	< 6.4 UJ	1.8 J	22 J	< 6.1 UJ	< 3.6 U	28 J+	< 2.2 U	< 2.7 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		14 J	110 J	< 6.4 UJ	17 J	< 2.6 UJ	< 6.1 UJ	3.4 J	76 J	13	< 2.7 U
DIELDRIN	60-57-1	ug/kg	34	1.9	< 3.8 U	< 8.3 U	< 12 UJ	< 8.1 U	< 5.1 U	< 12 UJ	< 6.9 U	< 5.9 U	< 4.2 U	< 5.2 U
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	1.5 J	12 J	< 12 UJ	< 8.1 U	11 J+	< 12 UJ	< 6.9 U	11 J	< 4.2 U	1.6 J
ENDRIN	72-20-8	ug/kg	1900	2.22	3.7 J	32 J	< 12 UJ	< 8.1 U	27 J	< 12 UJ	< 6.9 U	25 J	1.3 J	3.9 J+
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 3.8 U	< 8.3 U	< 12 UJ	< 8.1 U	< 5.1 U	< 12 UJ	< 6.9 U	< 5.9 U	< 4.2 U	< 5.2 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 3.8 U	< 8.3 U	< 12 UJ	< 8.1 U	< 5.1 U	< 12 UJ	< 6.9 U	< 5.9 U	< 4.2 U	< 5.2 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	57 J	900 J	< 6.4 UJ	61 J	520 J	< 6.1 UJ	12 J	440 J	< 2.2 U	35 J
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 1.9 U	< 4.3 U	1.9 J	< 4.2 UJ	< 2.6 UJ	< 6.1 UJ	< 3.6 UJ	< 3.0 U	< 2.2 U	< 2.7 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	17 J	210 J	< 6.4 UJ	8.7 J	170 J+	< 6.1 UJ	1.2 J	150 J	3.2 J	4.0 J
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 19 U	< 43 U	< 64 UJ	< 42 U	< 27 U	< 61 UJ	< 36 U	< 30 U	< 22 U	< 27 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	1.1 J	< 8.3 U	< 12 UJ	< 8.1 U	< 5.1 U	< 12 UJ	< 6.9 U	< 5.9 U	2.1 J	1.4 J
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 3.8 U	< 8.3 U	< 12 UJ	< 8.1 U	< 5.1 U	< 12 UJ	< 6.9 U	< 5.9 U	< 4.2 U	< 5.2 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	16 J+	180 J+	< 12 UJ	14 J+	99 J+	< 12 UJ	2.6 J+	110 J+	6.9 J	10
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 190 U	< 430 U	< 640 UJ	< 420 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		15 J	160 J	< 6.4 UJ	5.4 J	64 J	< 6.1 UJ	0.93 J	64 J	5.4 J	4.2 J
Grain Size															
%CLAY	%CLAY	%			2.6	25.2	37.1	32.5	21.9	37.8	32.1	23.9	10.5	5.7
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			16.5	0.5	2.8	0.2	0.4	1.9	0.2	0.3	12.2	2.7
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			28	41.5	41.5	39.6	51.3	42	44.6	57.5	27.2	35.2
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			29.9	6.8	12.3	4.3	4.6	4.5	3.7	4.7	10.1	11.2
Gravel	GRAVEL	%			23	0.1	1.7	0.8	0.4	1.2	0.1	0.3	28.4	5.1
Hydrometer, Reading 1, Percent Passing	HYD01	%			9.9	60.4	44.6	45.9	30.1	37.8	42	32.8	12.1	16.3
Hydrometer, Reading 2, Percent Passing	HYD02	%			9.9	54	40	42.6	28.1	37.8	38.7	28.3	10.5	14.2
Hydrometer, Reading 3, Percent Passing	HYD03	%			9.9	47.5	40	39.2	26	37.8	38.7	26.1	10.5	12.1
Hydrometer, Reading 4, Percent Passing	HYD04	%			9.9	34.5	40	35.8	24	37.8	35.4	26.1	10.5	7.8
Hydrometer, Reading 5, Percent Passing	HYD05	%			9.9	34.5	40	32.5	21.9	37.8	32.1	23.9	10.5	5.7
Hydrometer, Reading 6, Percent Passing	HYD06	%			9.9	28.1	30.8	29.1	17.8	29.1	28.8	19.4	8.9	5.7
Hydrometer, Reading 7, Percent Passing	HYD07	%			9.9	28.1	30.8	25.8	15.7	29.1	22.1	14.9	8.9	1.4
Sand	308075-07-2	%			74.4	48.8	56.6	44.1	56.3	48.4	48.5	62.5	49.5	49.1
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			60.5	99.4	95.5	99	99.2	96.9	99.7	99.4	59.4	92.2
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			30.6	92.6	83.2	94.7	94.6	92.4	96	94.7	49.3	81
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			11.1	73.3	72.7	83.3	63.1	80.5	80.8	59.4	35.3	64.2
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			46.2	96.3	87.3	96.8	98.3	94.6	97.9	98.5	54.8	88.3
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			18.3	84.3	78.4	90.4	75.8	87.9	91.1	73.4	42	72.1
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			7.4	67.5	66.8	76	57.1	74.4	72.2	52.5	31.1	58.7
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			2.6	51.1	41.7	55.1	43.3	50.4	51.4	37.2	22.1	45.8
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			77	99.9	98.3	99.2	99.6	98.8	99.9	99.7	71.6	94.9
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			93.9	100	99.3	100	99.9	99.8	100	99.9	89.5	99
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	100	100	100	100	100	100	100	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	100	100	100	100	100	100	100	100
SILT	445	%			0	25.9	4.6	22.6	21.4	12.6	19.3	13.3	11.6	40.1

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0063-PLC1	23A-0063-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0065-PLC1	23A-0066-PLC1
					Sample Name	23A-0063-PLC1-CS	23A-0063-PLC1-BT	23A-0064-PLC1-AS	23A-0064-PLC1-BS	23A-0064-PLC1-CS	23A-0064-PLC1-AT	23A-0064-PLC1-BT	23A-0064-PLC1-CT	23A-0065-PLC1-AS	23A-0066-PLC1-AS
					Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/24/2023
					Sample Type	N	FD	N	N	N	FD	FD	FD	N	N
					Depth Interval	3.7 - 4.9 ft	0.5 - 3.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	48.8	2720	1490 J	3150	1140	1710	3140	1670	110	1320 J-
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	< 1.42 U	154	32.9 J	64.7	111	34.0	60.9	90.9	2.22 J	51.2 J-
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	< 0.895 U	23.4	19.0 J	23.3	9.75	20.0	23.5	11.8 JN	1.59 J	9.50 JN
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	3.85 J	457 J	64.2 J	151 J	331 J	74.1 J	148 J	265 J	5.34 J	120 J-
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	3.58 J	132	83.5 J	158	57.7	91.7	146	80.2	6.56	48.7 J-
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	1.82 J	169	36.8 J	72.4	110	42.7	70.0	98.4	2.53 J	44.4 J-
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	1.58 J	64.6	48.9 J	70.8	29.9	53.9	65.9	34.8	3.17 J	33.4 J-
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.841 U	< 4.07 U	< 1.12 UJ	< 0.957 U	< 2.68 U	< 1.02 U	< 2.95 U	< 2.83 U	< 0.31 U	< 3.11 UJ
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	< 0.537 UJ	11.4 JN	9.20 J	12.3	5.69 JN	10.5 J	11.3 J	7.02 JN	0.709 JN	< 1.73 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	1.36 J	86.0	9.03 J	27.9	47.6	10.9	27.1	44.9	1.3 J	10.4 J-
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	29.3 J+	1480 J+	974 J	1420 J+	662 J+	1060 J+	1350 J+	848 J+	57.2 J+	486 J
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	1.8 J	159	33.5 J	70.4	97.3	37.1	64.2	89.9	2.95 J	34.9 J-
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	7.07 J+	786 J+	33.8 J	164 J+	572 J+	37.0 J+	193 J+	444 J+	6.89 J+	138 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 0.636 U	9.46	2.46 J	6.40	4.25 JN	2.16 JN	6.03	5.76	< 0.519 U	3.86 JN
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	3.11	370	16.6 J	69.3	241	18.8	66.4	150	2.39	62.7 J-
OCDD	3268-87-9	pg/g	16000	5000	269	23800 J	10900 J	27200 J	9650	11900	25800 J	15100	717	9160 J-
OCDF	39001-02-0	pg/g	16000	5000	23.9	1800	1070 J	1710	952	1160	1600	954	68.8	654 J-
Total HpCDD (a)	RA_Total_HpCDD	pg/g			48.8	2720	1490	3150	1140	1710	3140	1670	110	1320
Total HpCDF (a)	RA_Total_HpCDF	pg/g			29.3	1630	1010	1480	773	1090	1410	939	59.4	537
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		5.16	220	151	252	97.3	166	235	127	11.3	91.6
Total HxCDF (a)	RA_Total_HxCDF	pg/g			7.47	785	135	294	538	154	282	453	10.8	199
Total PeCDD (a)	RA_Total_PeCDD	pg/g			< 0.537 U	11.4	9.20	12.3	5.69	10.5	11.3	7.02	0.709	< 1.73 U
Total PeCDF (a)	RA_Total_PeCDF	pg/g			8.43	872	42.8	192	620	47.9	220	489	8.19	148
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.636 U	9.46	2.46	6.40	4.25	2.16	6.03	5.76	< 0.519 U	3.86
Total TCDF (a)	RA_Total_TCDF	pg/g			3.11	370	16.6	69.3	241	18.8	66.4	150	2.39	62.7
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	372 JEB	68500 JEB	602 JEB	26600 JEB	69000 JEB	601 JEB	35400 JEB	51700 JEB	22.5 JEB	31600 JEB
PCB-002	2051-61-8	ng/g	230	14.0	4.53 JEB	737 JEB	5.44 JEB	186 EB	1000 JEB	5.44 JEB	258 EB	757 JEB	< 0.0522 U	55.0 J
PCB-003	2051-62-9	ng/g	230	14.0	55.1 JEB	19200 JEB	79.7 JEB	7890 JEB	17900 JEB	85.4 JEB	11100 JEB	14300 JEB	4.26 JEB	1200 J
PCB-004/010	PCB-4/10	ng/g	230	14.0	1780 JEB	597000 JEB	2450 JEB	135000 JEB	728000 JEB	2310 JEB	184000 JEB	410000 JEB	120 JEB	74500 JEB
PCB-005/008	PCB-5/8	ng/g	230	14.0	1400 JEB	279000 JEB	1690 JEB	105000 JEB	303000 JEB	1600 JEB	153000 JEB	254000 JEB	139 JEB	6590 J
PCB-006	25569-80-6	ng/g	230	14.0	226 JEB	27000 JEB	250 JEB	12500 JEB	59600 JEB	236 JEB	17800 JEB	38000 JEB	40.8 JEB	974 J
PCB-007/009	PCB-7/9	ng/g	230	14.0	70.3 J	8310 J	67.3 J	1100 J	7080 J	62.9 J	1460 J	5550 J	7.67 J	471 J
PCB-011	2050-67-1	ng/g	230	14.0	16.0 JEB	2560 JEB	14.1 JEB	908 JEB	2330 JEB	13.9 JEB	1280 JEB	1750 JEB	3.31 JEB	196 JEB
PCB-012/013	PCB-12/13	ng/g	230	14.0	37.2	5520 J	32.9 J	2670 J	3100 J	32.6 J	3630 J	2680 J	11.4 J	275 J
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0470 U	8.60 JEB	< 0.0502 UJ	< 0.341 U	12.7 JEB	< 0.0496 UJ	< 0.330 U	7.26 JEB	< 0.0485 U	< 0.190 U
PCB-015	2050-68-2	ng/g	230	14.0	196 JEB	47100 JEB	444 JEB	28200 JEB	26200 JEB	403 JEB	37800 JEB	24100 JEB	64.8 JEB	1820 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	646 JEB	150000 JEB	775 JEB	38400 JEB	175000 JEB	707 JEB	53700 JEB	116000 JEB	159 JEB	7320 JEB
PCB-017	37680-66-3	ng/g	230	14.0	432 JEB	73500 JEB	506 JEB	23900 JEB	44700 JEB	458 JEB	33000 JEB	49600 JEB	138 JEB	3350 JEB
PCB-018	37680-65-2	ng/g	230	14.0	314 JEB	16400 JEB	185 JEB	4880 JEB	16700 JEB	176 JEB	6320 JEB	13900 JEB	128 JEB	936 JEB
PCB-019	38444-73-4	ng/g	230	14.0	287 JEB	89000 JEB	447 JEB	22200 JEB	132000 JEB	385 JEB	30700 JEB	71200 JEB	38.9 JEB	16400 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	55.9 JEB	2620 JEB	39.7 JEB	599 JEB	1550 JEB	39.7 JEB	783 JEB	1180 JEB	46.9 JEB	144 EB
PCB-022	38444-85-8	ng/g	230	14.0	64.8 JEB	3170 JEB	52.4 JEB	1810 JEB	1120 JEB	52.6 JEB	2350 JEB	909 JEB	57.3 JEB	46.3 J
PCB-023/034	PCB-23/34	ng/g	230	14.0	12.4 J	2130 J	11.2 J	329 J	2530 J	10.6 J	473 J	1840 J	3.30 J	313 J
PCB-024/027	PCB-24/27	ng/g	230	14.0	162 JEB	40200 JEB	212 JEB	9580 JEB	52100 JEB	197 JEB	13300 JEB	34800 JEB	28.8 EB	6670 J
PCB-025	55712-37-3	ng/g	230	14.0	305 JEB	39100 JEB	225 JEB	10100 JEB	30500 JEB	203 JEB	14100 JEB	25200 JEB	82.5 JEB	1410 J
PCB-026	38444-81-4	ng/g	230	14.0	357 JEB	35500 JEB	224 JEB	9800 JEB	32600 JEB	205 JEB	13500 JEB	24700 JEB	117 JEB	2420 J
PCB-028	7012-37-5	ng/g	230	14.0	931 JEB	129000 JEB	719 JEB	8110 JEB	72700 JEB	668 JEB	10400 JEB	70800 JEB	323 JEB	754 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0491 U	57.6 J	< 0.0524 UJ	7.45 J	53.7 J	< 0.0517 UJ	12.9 J	32.9 J	< 0.0507 U	9.68 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0063-PLC1	23A-0063-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0065-PLC1	23A-0066-PLC1
				Sample Name	23A-0063-PLC1-CS	23A-0063-PLC1-BT	23A-0064-PLC1-AS	23A-0064-PLC1-BS	23A-0064-PLC1-CS	23A-0064-PLC1-AT	23A-0064-PLC1-BT	23A-0064-PLC1-CT	23A-0065-PLC1-AS	23A-0066-PLC1-AS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/24/2023
				Sample Type	N	FD	N	N	N	FD	FD	FD	N	N
				Depth Interval	3.7 - 4.9 ft	0.5 - 3.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	0.436 J	67.0 J	< 0.0480 UJ	11.6 J	40.1 J	< 0.0474 UJ	15.2 J	35.3 J	< 0.0464 U	13.1 J
PCB-031	16606-02-3	ng/g	230	14.0	549 JEB	46100 JEB	352 JEB	16100 JEB	32700 JEB	322 JEB	22000 JEB	27300 JEB	260 JEB	3760 JEB
PCB-035	37680-69-6	ng/g	230	14.0	2.73 J+	404 J	2.21 J	81.9 J+	188 J	2.73 J	122 J+	180 J	1.65 J+	15.0 J+
PCB-036	38444-87-0	ng/g	230	14.0	2.67 J	162	1.58 J	51.0 J	201 J	1.62 J	73.4 J	156	1.48 J	20.9 J
PCB-037	38444-90-5	ng/g	230	14.0	45.5 J	4780 J	50.4 J	1490 J	1270 J	48.8 J	2030 J	1130 J	44.7 J	78.9
PCB-038	53555-66-1	ng/g	230	14.0	10.1 J	1520 J	9.92 J	297 J	1580 J	9.51 J	430 J	1240 J	2.73 J	142
PCB-039	38444-88-1	ng/g	230	14.0	2.62 J	489 J	2.66 J	116 J	460 J	2.66 J	161	364 J	0.652 J	60.4 J
PCB-040	38444-93-8	ng/g	230	14.0	34.5	428 J	19.9 J	235	292 J	19.7 J	309 J	258 J	24.4	< 0.156 U
PCB-041/064	PCB-41/64	ng/g	230	14.0	123 J	4630 J	80.6 J	1980 J	2700 J	81.8 J	2640 J	2530 J	83.9 J	116
PCB-042	36559-22-5	ng/g	230	14.0	106 J	7810 J	76.6 J	2010 J	4160 J	73.4 J	2770 J	3780 J	60.2 J	145
PCB-043/049	PCB-43/49	ng/g	230	14.0	449 JEB	49100 JEB	384 JEB	9830 JEB	43000 JEB	361 JEB	14400 JEB	35800 JEB	194 JEB	3450 J
PCB-044	41464-39-5	ng/g	230	14.0	229 JEB	6300 JEB	139 JEB	2030 JEB	3840 JEB	135 JEB	2800 JEB	3400 JEB	147 JEB	85.8 EB
PCB-045	70362-45-7	ng/g	230	14.0	38.3 J	1630 J	29.1 J	713 J	1890 J	28.0 J	1010 J	1460 J	26.9	34.4 J
PCB-046	41464-47-5	ng/g	230	14.0	18.2 J	1530 J	15.9 J	340 J	811 J	15.0 J	457 J	626 J	10.3 J	89.4
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	332 JEB	56600 JEB	377 JEB	11700 JEB	56200 JEB	349 JEB	17500 JEB	45800 JEB	124 JEB	5460 J
PCB-050	62796-65-0	ng/g	230	14.0	3.81 J	731 J	4.48 J	190	721 J	4.19 J	277 J	557 J	1.20 J	107
PCB-051	68194-04-7	ng/g	230	14.0	54.8 J	8850 J	67.7 J	2230 J	7060 J	62.6 J	3230 J	5710 J	19.2 J	1430 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	373 JEB	25800 JEB	274 JEB	6110 JEB	19800 JEB	259 JEB	8680 JEB	17100 JEB	183 JEB	2290 JEB
PCB-053	41464-41-9	ng/g	230	14.0	146 JEB	21800 JEB	140 JEB	3260 JEB	19800 JEB	129 JEB	4620 JEB	14600 JEB	40.1 JEB	2610 J
PCB-054	15968-05-5	ng/g	230	14.0	6.86 J	1800 J	9.39 J	324 J	2350 J	8.32 J	474 J	1340 J	1.30 J	416 J
PCB-055	74338-24-2	ng/g	230	14.0	2.03 J	17.0 J+	2.07 J	8.35 J	< 0.210 U	2.08 J	13.0 J	< 0.243 U	2.77 J	< 0.209 U
PCB-056/060	PCB-56/60	ng/g	230	14.0	40.1 JEB	1000 JEB	82.5 JEB	167 EB	181 JEB	87.2 JEB	208 EB	184 JEB	71.2 JEB	10.5 JEB
PCB-057	70424-67-8	ng/g	230	14.0	11.1 J	911 J	8.41 J	168	1060 J	8.46 J	251	971 J	3.31 J	161 J
PCB-058	41464-49-7	ng/g	230	14.0	1.04 J	90.1 J+	1.10 J	26.0 J	78.1 J+	1.25 J	37.9 J	66.2 J+	0.660 J	< 0.146 U
PCB-059	74472-33-6	ng/g	230	14.0	16.4 J	326 J	9.77 J	184	379 J	8.80 J	260	317 J	10.6 J	9.35 J
PCB-061/074	PCB-61/74	ng/g	230	14.0	105 J	9110 J	82.7 J	1130 J	2080 J	84.8 J	1580 J	2060 J	77.8 J	103
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0494 U	< 0.303 U	< 0.0528 UJ	< 0.358 U	< 0.201 U	< 0.0521 UJ	< 0.347 U	< 0.232 U	< 0.0510 U	< 0.200 U
PCB-063	74472-34-7	ng/g	230	14.0	36.0	3700 J	31.4 J	693 J	3600 J	30.2 J	1030 J	3220 J	13.4 J	508 J
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0713 U	20.1 J+	< 0.0761 UJ	6.00 J	16.2 J+	< 0.0752 UJ	8.39 J	15.5 J+	< 0.0736 U	10.4 J
PCB-066/080	PCB-66/80	ng/g	230	14.0	112 JEB	11400 JEB	145 JEB	1480 JEB	3320 JEB	151 JEB	2020 JEB	3050 JEB	110 JEB	107 EB
PCB-067	73575-53-8	ng/g	230	14.0	8.10 J	335 J	6.92 J	55.4 J	139 J+	6.76 J	77.7 J	137 J+	6.44 J	7.40 J
PCB-068	73575-52-7	ng/g	230	14.0	6.55 J	733 J	8.44 J	181	803 J	7.37 J	283 J	700 J	1.85 J	218 J
PCB-069	60233-24-1	ng/g	230	14.0	1.71 J	285 J	2.08 J	86.4 J	264 J	2.04 J	125 J	229 J	0.461 J	68.0 J
PCB-070	32598-11-1	ng/g	230	14.0	72.3 JEB	6230 JEB	112 JEB	553 JEB	1140 JEB	118 JEB	716 JEB	1110 JEB	108 JEB	27.3 J
PCB-071	41464-46-4	ng/g	230	14.0	128 JEB	11900 JEB	98.9 JEB	2650 JEB	4410 JEB	98.3 JEB	3710 JEB	4820 JEB	58.3 JEB	828 J
PCB-072	41464-42-0	ng/g	230	14.0	9.16 J	917 J	9.26 J	254	849 J	8.74 J	369 J	764 J	2.66 J	227 J
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0715 U	< 0.438 U	< 0.0763 UJ	< 0.518 U	< 0.291 U	< 0.0754 UJ	< 0.501 U	< 0.336 U	< 0.0738 U	< 0.289 U
PCB-077	32598-13-3	ng/g	38.0	14.0	18.4 J+	2320 J	20.5 J	334 J	903 J	19.9 J	441 J	750 J	14.4 J+	21.6 J+
PCB-078	70362-49-1	ng/g	230	14.0	0.675 J	36.3 J+	0.777 J	10.6 J	33.3 J+	0.560 J	15.5 J	34.7 J+	0.394 J	2.91 J
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0459 U	38.1 J+	0.928 J	10.0 J	18.6 J+	1.06 J	13.6 J	19.3 J+	0.783 J	< 0.186 U
PCB-081	70362-50-4	ng/g	12.0	14.0	1.26 J+	50.0 J+	1.83 J	11.0 J+	25.7 J+	1.91 J	13.2 J+	24.6 J+	1.46 J+	4.36 J+
PCB-082	52663-62-4	ng/g	230	14.0	10.2 J	306 J	11.9 J	80.2 J	60.7 J	11.4 J	118 J	65.7 J	10.2 J	< 0.106 U
PCB-083/109	PCB-83/109	ng/g	230	14.0	9.89 J	837 J	10.1 J	161	833 J	9.20 J	244	815 J	4.95 J	40.7 J
PCB-084	52663-60-2	ng/g	230	14.0	33.4	1660 J	29.7 J	390 J	1130 J	28.5 J	569 J	1020 J	20.5	64.0 J
PCB-085/120	PCB-85/120	ng/g	230	14.0	21.1	680 J	24.3 J	199	169 J	22.8 J	278 J	197 J	18.9 J	18.2 J
PCB-086/097	PCB-86/97	ng/g	230	14.0	22.1	1340 J	30.3 J	178	305 J	28.9 J	260	332 J	20.4	13.2 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	< 0.0287 U	< 0.176 U	< 0.0307 UJ	< 0.208 U	< 0.117 U	< 0.0303 UJ	< 0.202 U	< 0.135 U	< 0.0297 U	< 0.116 U
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.104 U	31.3 J	< 0.111 UJ	< 0.753 U	30.8 J	< 0.110 UJ	< 0.729 U	26.9 J	< 0.107 U	8.02 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	69.0 J	6500 J	106 J	774 J	3640 J	101 J	1160 J	3430 J	52.0 J	531 J
PCB-091	68194-05-8	ng/g	230	14.0	39.6 J	4820 J	41.5 J	874 J	4510 J	38.6 J	1310 J	4000 J	17.6 J	426 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0063-PLC1	23A-0063-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0065-PLC1	23A-0066-PLC1
					Sample Name	23A-0063-PLC1-CS	23A-0063-PLC1-BT	23A-0064-PLC1-AS	23A-0064-PLC1-BS	23A-0064-PLC1-CS	23A-0064-PLC1-AT	23A-0064-PLC1-BT	23A-0064-PLC1-CT	23A-0065-PLC1-AS	23A-0066-PLC1-AS
					Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/24/2023
					Sample Type	N	FD	N	N	N	FD	FD	FD	N	N
					Depth Interval	3.7 - 4.9 ft	0.5 - 3.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-092	52663-61-3	ng/g	230	14.0	31.1	3820 J	35.4 J	524 J	3340 J	32.8 J	804 J	3160 J	12.4 J	525 J
PCB-093/095	PCB-93/95	ng/g	230	14.0	86.9 J	3870 J	87.6 J	1070 J	3380 J	84.0 J	1580 J	3420 J	50.7 J	135 J
PCB-094	73575-55-0	ng/g	230	14.0	4.61 J	811 J	5.35 J	118 J	937 J	5.21 J	180	757 J	1.27 J	130
PCB-096	73575-54-9	ng/g	230	14.0	3.35 J	297 J	3.02 J	74.3 J	393 J	2.84 J	106 J	294 J	1.76 J	19.2 J
PCB-098/102	PCB-98/102	ng/g	230	14.0	12.6 J	1600 J	12.7 J	260	947 J	11.7 J	395 J	948 J	6.45 J	107
PCB-099	38380-01-7	ng/g	230	14.0	48.7 J	5990 J	62.0 J	659 J	2190 J	58.6 J	1010 J	2240 J	33.7	210 J
PCB-100	39485-83-1	ng/g	230	14.0	3.04 J	549 J	4.78 J	93.3 J	653 J	4.56 J	144	562 J	0.858 J	161 J
PCB-103	60145-21-3	ng/g	230	14.0	3.53 J	552 J	4.21 J	88.1 J	547 J	4.32 J	135	479 J	1.23 J	91.9
PCB-104	56558-16-8	ng/g	230	14.0	0.213 J	35.7 J	0.239 J	5.80 J	38.2 J	0.287 J	7.48 J	29.8 J	< 0.0451 U	15.0 J
PCB-105/127	PCB-105/127	ng/g	120	14.0	31.8	1380 J	36.4 J	215	247 J	34.1 J	304 J	280 J	28.3	7.65 J
PCB-106/118	PCB-106/118	ng/g	120	14.0	80.7 J	7570 J	94.8 J	782 J	2230 J	90.3 J	1160 J	2280 J	51.9 J	79.1 J
PCB-107/108	PCB-107/108	ng/g	230	14.0	10.1 J	1150 J	10.7 J	141	708 J	9.82 J	213	691 J	5.12 J	35.0 J
PCB-110	38380-03-9	ng/g	230	14.0	174 JEB	8530 JEB	145 JEB	1840 JEB	5510 JEB	138 JEB	2690 JEB	5930 JEB	81.1 JEB	379 J
PCB-111/117	PCB-111/117	ng/g	230	14.0	40.2 J	2020 J	39.0 J	412 J	1390 J	37.8 J	612 J	1280 J	24.8	236 J
PCB-112	74472-36-9	ng/g	230	14.0	1.45 J	137	0.954 J	27.5 J	143	0.920 J	43.1 J	132	0.389 J	15.3 J
PCB-113	68194-10-5	ng/g	230	14.0	1.59 J	74.0 J	1.07 J	21.5 J	81.9	1.02 J	31.9 J	90.7	0.495 J	6.15 J
PCB-114	74472-37-0	ng/g	120	14.0	2.82 J	166	2.84 J	28.0 J	39.8 J	2.64 J	39.7 J	45.0 J	2.23 J	< 0.158 U
PCB-119	56558-17-9	ng/g	230	14.0	11.1 J	1250 J	10.3 J	172	1100 J	9.92 J	258	1040 J	3.00 J	129
PCB-122	76842-07-4	ng/g	230	14.0	1.18 J	64.4 J	1.33 J	< 0.239 U	10.5 J	1.07 J	< 0.232 U	12.7 J	0.845 J	< 0.133 U
PCB-123	65510-44-3	ng/g	120	14.0	3.06 J+	201 J+	3.66 J	25.1 J+	62.1 J+	3.43 J	38.8 J+	69.3 J+	1.79 J+	7.44 J+
PCB-124	70424-70-3	ng/g	230	14.0	2.50 J	192	3.29 J	17.6 J	30.4 J	3.21 J	25.6 J	31.5 J	1.90 J	< 0.167 U
PCB-125	74472-39-2	ng/g	230	14.0	0.862 J	117	0.991 J	11.3 J	45.7 J	0.992 J	17.2 J	44.0 J	0.482 J	4.90 J
PCB-126	57465-28-8	ng/g	0.0360	14.0	0.747 J+	77.7 J+	< 0.0685 UJ	8.61 J+	56.7 J+	< 0.0677 UJ	14.4 J+	67.8 J+	0.441 J+	15.1 J+
PCB-128	38380-07-3	ng/g	230	14.0	6.21 J	601 J	17.4 J	108 J	208 J	15.8 J	147	250 J	4.65 J	18.9 J
PCB-129	55215-18-4	ng/g	230	14.0	1.34 J	155	3.81 J	23.2 J	39.5 J	3.69 J	29.5 J	44.5 J	1.18 J	< 0.201 U
PCB-130	52663-66-8	ng/g	230	14.0	3.07 J	280 J	5.63 J	46.8 J	137	5.28 J	65.5 J	158	1.65 J	27.5 J
PCB-131/142	PCB-131/142	ng/g	230	14.0	0.457 J	42.0 J	1.36 J	8.20 J	13.5 J	0.899 J	10.7 J	14.3 J	0.433 J	< 0.390 U
PCB-132/168	PCB-132/168	ng/g	230	14.0	13.2 J	922 J	27.1 J	176	355 J	24.2 J	243	408 J	8.33 J	80.9
PCB-133	35694-04-3	ng/g	230	14.0	1.18 J	148	2.26 J	19.0 J	159 J	1.70 J	28.0 J	161	0.489 J	53.7 J
PCB-134	52704-70-8	ng/g	230	14.0	2.55 J	281 J	5.38 J	51.3 J	269 J	4.76 J	74.7 J	273 J	1.27 J	22.9 J
PCB-135/144	PCB-135/144	ng/g	230	14.0	6.77 J	613 J	12.7 J	106 J	468 J	11.4 J	147	490 J	3.60 J	75.4
PCB-136	38411-22-2	ng/g	230	14.0	5.29 J	451 J	10.5 J	88.2 J	409 J	9.59 J	122 J	395 J	2.98 J	38.0 J
PCB-137	35694-06-5	ng/g	230	14.0	2.24 J	310 J	5.96 J	44.8 J	135	5.23 J	63.2 J	148	1.52 J	13.4 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	38.6 J	4140 J	93.8 J	638 J	2460 J	85.5 J	929 J	2670 J	24.7	309 J
PCB-139/149	PCB-139/149	ng/g	230	14.0	27.9	2630 J	57.4 J	424 J	1650 J	51.6 J	595 J	1760 J	15.6 J	247 J
PCB-140	59291-64-4	ng/g	230	14.0	0.387 J	37.4 J	0.524 J	< 0.482 U	25.5 J	0.538 J	< 0.466 U	26.4 J	< 0.0686 U	10.0 J
PCB-141	52712-04-6	ng/g	230	14.0	4.14 J	466 J	11.9 J	66.2 J	151	10.3 J	90.6 J	168	3.59 J	8.33 J
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0599 U	28.4 J	0.383 J	< 0.434 U	< 0.244 U	0.295 J	< 0.420 U	< 0.281 U	< 0.0618 U	< 0.242 U
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0791 U	< 0.485 U	< 0.0844 UJ	< 0.574 U	< 0.322 U	< 0.0834 UJ	< 0.555 U	< 0.372 U	< 0.0817 U	< 0.320 U
PCB-146	51908-16-8	ng/g	230	14.0	5.67 J	617 J	11.1 J	79.6 J	432 J	9.76 J	114 J	452 J	2.73 J	125
PCB-147	68194-13-8	ng/g	230	14.0	2.94 J	573 J	5.76 J	80.8 J	761 J	5.25 J	113 J	706 J	0.947 J	122
PCB-148	74472-41-6	ng/g	230	14.0	0.297 J	33.5 J	0.311 J	4.18 J	43.6 J	0.336 J	4.88 J	41.5 J	< 0.0755 U	17.1 J
PCB-150	68194-08-1	ng/g	230	14.0	0.251 J	47.0 J	0.463 J	7.44 J	74.6 J	0.450 J	10.6 J	67.4 J	< 0.0763 U	9.55 J
PCB-151	52663-63-5	ng/g	230	14.0	7.99 J	986 J	14.9 J	148	941 J	13.2 J	210	913 J	3.78 J	131
PCB-152	68194-09-2	ng/g	230	14.0	0.321 J	60.5 J	0.481 J	8.43 J	74.9 J	0.418 J	11.9 J	63.7 J	< 0.0892 U	11.8 J
PCB-153	35065-27-1	ng/g	230	14.0	23.5	2870 J	62.3 J	375 J	1430 J	56.5 J	531 J	1520 J	15.0 J	206 J
PCB-154	60145-22-4	ng/g	230	14.0	1.59 J	241 J	2.53 J	29.2 J	287 J	2.37 J	40.9 J	278 J	0.441 J	66.2 J
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0444 U	1.50 J	< 0.0474 UJ	< 0.322 U	3.01 J	< 0.0468 UJ	< 0.312 U	2.54 J	< 0.0458 U	0.693 J
PCB-156	38380-08-4	ng/g	120	14.0	3.96 J	482 J	8.62 J	65.2 J	182 J	7.34 J	97.9 J	215 J	2.52 J	11.9 J
PCB-157	69782-90-7	ng/g	120	14.0	1.03 J+	127 J+	2.83 J	20.7 J+	54.4 J+	3.09 J	29.1 J+	62.6 J+	0.653 J+	8.04 J+

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0063-PLC1	23A-0063-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0065-PLC1	23A-0066-PLC1
				Sample Name	23A-0063-PLC1-CS	23A-0063-PLC1-BT	23A-0064-PLC1-AS	23A-0064-PLC1-BS	23A-0064-PLC1-CS	23A-0064-PLC1-AT	23A-0064-PLC1-BT	23A-0064-PLC1-CT	23A-0065-PLC1-AS	23A-0066-PLC1-AS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/24/2023
				Sample Type	N	FD	N	N	N	FD	FD	FD	N	N
				Depth Interval	3.7 - 4.9 ft	0.5 - 3.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-158/160	PCB-158/160	ng/g	230	14.0	3.69 J	382 J	7.77 J	60.6 J	142	7.17 J	83.3 J	164	2.53 J	9.58 J
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0716 U	31.3 J	< 0.0765 UJ	< 0.519 U	24.0 J	< 0.0756 UJ	< 0.503 U	25.8 J	< 0.0740 U	7.09 J
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0670 U	< 0.411 U	< 0.0715 UJ	< 0.486 U	< 0.273 U	< 0.0706 UJ	< 0.470 U	< 0.315 U	< 0.0691 U	< 0.271 U
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0528 U	30.9 J	< 0.0564 UJ	< 0.383 U	17.7 J	< 0.0557 UJ	< 0.370 U	19.6 J	< 0.0545 U	< 0.213 U
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0724 U	15.7 J	< 0.0773 UJ	3.10 J	23.0 J	< 0.0763 UJ	< 0.508 U	23.3 J	< 0.0747 U	7.57 J
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0623 U	24.5 J	< 0.0665 UJ	< 0.452 U	< 0.254 U	< 0.0657 UJ	< 0.437 U	9.67 J	< 0.0643 U	< 0.252 U
PCB-167	52663-72-6	ng/g	120	14.0	1.50 J+	192 J+	3.74 J	27.4 J	79.0 J+	3.82 J	36.9 J+	91.0 J+	0.991 J	5.89 J
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0528 U	< 0.324 U	< 0.0564 UJ	< 0.383 U	< 0.215 U	< 0.0557 UJ	< 0.370 U	< 0.248 U	< 0.0545 U	< 0.213 U
PCB-170/190	PCB-170/190	ng/g	230	14.0	8.48 J	1090 J	15.1 J	138	620 J	13.8 J	192	738 J	4.48 J	108
PCB-171	52663-71-5	ng/g	230	14.0	2.09 J	253 J	4.08 J	33.6 J	145	3.73 J	49.6 J	170	1.17 J	28.7 J
PCB-172/192	PCB-172/192	ng/g	230	14.0	1.24 J	144	2.06 J	18.3 J	94.1	1.78 J	26.0 J	109	0.601 J	22.4 J
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0772 U	19.6 J	< 0.0824 UJ	< 0.560 U	10.5 J	< 0.0815 UJ	< 0.542 U	< 0.363 U	< 0.0797 U	< 0.312 U
PCB-174	38411-25-5	ng/g	230	14.0	6.31 J	764 J	11.7 J	98.0 J	412 J	11.0 J	139	480 J	3.71 J	87.5
PCB-175	40186-70-7	ng/g	230	14.0	0.301 J	34.7 J	0.562 J	4.49 J	21.1 J	0.427 J	< 0.418 U	24.8 J	< 0.0614 U	4.55 J
PCB-176	52663-65-7	ng/g	230	14.0	0.850 J	90.4 J	1.39 J	12.3 J	54.2 J	1.35 J	18.3 J	59.4 J	0.436 J	15.8 J
PCB-177	52663-70-4	ng/g	230	14.0	4.63 J	499 J	7.12 J	67.2 J	302 J	6.58 J	91.3 J	350 J	2.24 J	107
PCB-178	52663-67-9	ng/g	230	14.0	1.88 J	225	2.93 J	30.0 J	196 J	2.77 J	43.4 J	219 J	0.892 J	59.5 J
PCB-179	52663-64-6	ng/g	230	14.0	2.89 J	332 J	4.84 J	46.2 J	279 J	4.48 J	66.4 J	299 J	1.40 J	66.9 J
PCB-180	35065-29-3	ng/g	230	14.0	15.3 J	1950 J	26.7 J	251	1140 J	23.9 J	349 J	1350 J	7.92 J	216 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0528 U	< 0.324 U	< 0.0564 UJ	< 0.383 U	< 0.215 U	< 0.0557 UJ	< 0.370 U	< 0.248 U	< 0.0545 U	< 0.213 U
PCB-182/187	PCB-182/187	ng/g	230	14.0	9.61 J	1120 J	15.2 J	146	818 J	13.6 J	205	929 J	4.19 J	246 J
PCB-183	52663-69-1	ng/g	230	14.0	3.62 J	445 J	6.61 J	61.4 J	266 J	5.84 J	85.4 J	310 J	1.96 J	50.4 J
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0500 U	< 0.307 U	< 0.0534 UJ	< 0.363 U	< 0.203 U	< 0.0527 UJ	< 0.351 U	< 0.235 U	< 0.0516 U	< 0.202 U
PCB-185	52712-05-7	ng/g	230	14.0	0.684 J	89.7 J	1.34 J	12.8 J	48.8 J	1.15 J	17.3 J	56.5 J	0.421 J	7.88 J
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0625 U	< 0.383 U	< 0.0667 UJ	< 0.453 U	< 0.254 U	< 0.0659 UJ	< 0.438 U	< 0.294 U	< 0.0645 U	< 0.253 U
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0573 U	6.31 J	< 0.0611 UJ	0.986 J	11.4 J	< 0.0604 UJ	< 0.402 U	12.2 J	< 0.0591 U	1.97 J
PCB-189	39635-31-9	ng/g	130	14.0	0.374 J	50.7 J	0.667 J	6.18 J	32.9 J	0.701 J	7.44 J	38.9 J	< 0.0601 U	6.33 J
PCB-191	74472-50-7	ng/g	230	14.0	0.319 J	35.6 J	0.514 J	4.92 J	22.1 J	0.494 J	< 0.369 U	25.5 J	< 0.0543 U	3.98 J
PCB-193	69782-91-8	ng/g	230	14.0	0.874 J	106 J	1.34 J	14.0 J	85.7	1.35 J	20.2 J	94.2	0.413 J	19.7 J
PCB-194	35694-08-7	ng/g	230	14.0	5.46 J	657 J	8.49 J	92.7 J	499 J	7.86 J	280 J	584 J	2.59 J	144
PCB-195	52663-78-2	ng/g	230	14.0	2.16 J	218	3.38 J	34.3 J	160 J	2.94 J	41.6 J	192 J	1.25 J	45.0 J
PCB-196/203	PCB-196/203	ng/g	230	14.0	5.39 J	645 J	9.31 J	97.1 J	478 J	8.70 J	131	555 J	2.99 J	129
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0629 U	20.0 J	0.275 J	2.97 J	14.9 J	< 0.0663 UJ	< 0.441 U	17.0 J	< 0.0649 U	4.83 J
PCB-198	68194-17-2	ng/g	230	14.0	< 0.102 UJ	27.9 J	< 0.109 UJ	< 0.740 U	20.0 J	< 0.108 UJ	< 0.716 U	25.2 J	< 0.105 U	6.43 J
PCB-199	52663-75-9	ng/g	230	14.0	4.35 J	527 J	7.57 J	82.6 J	388 J	6.91 J	111 J	452 J	2.08 J	123
PCB-200	52663-73-7	ng/g	230	14.0	0.715 J	60.6 J	0.881 J	10.2 J	46.4 J	0.850 J	12.6 J	50.6 J	< 0.0516 U	13.6 J
PCB-201	40186-71-8	ng/g	230	14.0	0.476 J	63.8 J	0.891 J	10.2 J	47.3 J	0.701 J	16.8 J	54.3 J	< 0.0408 U	15.6 J
PCB-202	2136-99-4	ng/g	230	14.0	0.670 J	92.6 J	1.40 J	15.6 J	75.9	1.12 J	22.6 J	86.2 J	0.338 J	22.9 J
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0826 U	< 0.507 U	< 0.0882 UJ	< 0.599 U	< 0.336 U	< 0.0872 UJ	< 0.580 U	< 0.388 U	< 0.0853 U	< 0.334 U
PCB-205	74472-53-0	ng/g	230	14.0	10.5 J	31.7 J	< 0.0625 UJ	5.72 J	26.9 J	< 0.0618 UJ	< 0.411 U	29.7 J	< 0.0605 U	7.04 J
PCB-206	40186-72-9	ng/g	230	14.0	1.83 J	230 J	5.19 J	49.9 J	177 J	5.89 J	62.3 J	206 J	3.78 J	51.1 J
PCB-207	52663-79-3	ng/g	230	14.0	0.178 J	24.7 J	0.619 J	4.74 J	18.8 J	0.691 J	6.92 J	24.3 J	< 0.0767 U	5.97 J
PCB-208	52663-77-1	ng/g	230	14.0	0.402 J	48.7 J	1.75 J	14.7 J	36.7 J	1.63 J	17.6 J	45.5 J	< 0.0767 U	11.1 J
PCB-209	2051-24-3	ng/g	230	14.0	0.432 J	31.5 J	3.54 J	19.6 J	22.6 J	3.28 J	21.2 J	26.8 J	< 0.0441 U	7.50 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	0.432	31.5	3.54	19.6	22.6	3.28	21.2	26.8	< 0.0441 U	7.50
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	59.5	7260	102	945	4560	93.0	1310	5270	29.8	1050
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	166	17800	377	2710	11000	340	3830	11600	99.6	1640
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	29.7	2340	32.2	351	1760	29.1	616	2050	9.25	511
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	11800	2010000	13000	530000	2050000	12300	739000	1450000	3850	187000
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	761	56600	819	9250	34800	778	13700	33800	456	3410
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	3730	966000	4950	285000	1130000	4660	399000	736000	387	84800
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	432	88400	687	34700	87900	692	46800	66800	26.8	32900
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	2.41	303	7.56	69.3	233	8.21	86.8	276	3.78	68.2
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	2480	236000	2240	49000	182000	2160	70300	151000	1400	18500
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	4180	634000	3820	148000	598000	3490	203000	441000	1430	43900

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0063-PLC1	23A-0063-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0065-PLC1	23A-0066-PLC1
				Sample Name	23A-0063-PLC1-CS	23A-0063-PLC1-BT	23A-0064-PLC1-AS	23A-0064-PLC1-BS	23A-0064-PLC1-CS	23A-0064-PLC1-AT	23A-0064-PLC1-BT	23A-0064-PLC1-CT	23A-0065-PLC1-AS	23A-0066-PLC1-AS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/24/2023
				Sample Type	N	FD	N	N	N	FD	FD	FD	N	N
				Depth Interval	3.7 - 4.9 ft	0.5 - 3.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	3100	8600	5500	7800	6400	6000	6300	6000	4500	5400 EB
Calcium	7440-70-2	mg/kg			1100	3000	3400	3000	1900	3500	2300	2000	7100	8100 EB
Iron	7439-89-6	mg/kg	5500	20000	6800	17000	15000	16000	12000	16000	13000	11000	12000	10000 EB
Magnesium	7439-95-4	mg/kg			1500	2700	1600	2200	2200	1800	1700	2100	2400	2200 EB
Potassium	7440-09-7	mg/kg			240 J	560 J	370 J	410 J	420 J	410 J	360 J	380 J	230 J	360 J
Sodium	7440-23-5	mg/kg			150 J	650 J	490	920 J	680 J	470 J	760 J	810	230 J	270 J
Antimony	7440-36-0	mg/kg	3.1	2	< 1.0 U	< 2.2 U	1.3	< 2.2 U	< 1.3 U	1.1	< 1.9 U	< 1.7 U	< 1.1 U	< 1.1 UJ
Arsenic	7440-38-2	mg/kg	0.68	9.8	1.5	8.4	6.5	7.7 J	3.7	6.0	5.3 J	4.7	1.3	3.2
Barium	7440-39-3	mg/kg	1500	20	30	130	100	140	71	95	88	95	18	57
Beryllium	7440-41-7	mg/kg	16		0.16 J	0.54 J	0.50	0.61 J	0.27 J	0.51	0.42 J	0.32 J	0.18 J	0.33 J
Cadmium	7440-43-9	mg/kg	0.71	1	0.24 J	3.2	1.8	3.5	1.2	1.6	2.6	2.1	0.15 J	0.85
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	9.4 EB	110 EB	49 EB	91 EB	35 EB	47 EB	61 EB	50 EB	8.1 EB	33 EB
Cobalt	7440-48-4	mg/kg	2.3	50	2.9	6.1	9.0	7.4 J	4.5	8.6	5.0 J	4.8	4.2	4.5
Copper	7440-50-8	mg/kg	310	31.6	14	200	80	160	100	76	120	130	22	56
Lead	7439-92-1	mg/kg	200	35.8	38	470	140	470	150	140	330	200	41	100
Manganese	7439-96-5	mg/kg	180	460	100 JEB	280 JEB	440 EB	330 EB	170 JEB	420 EB	240 JEB	220 JEB	160 EB	190 JEB
Nickel	7440-02-0	mg/kg	140	22.7	4.7	17	13	20	10	13	13	11	6.6	9.9
Selenium	7782-49-2	mg/kg	39	11	< 2.5 U	< 5.5 U	0.60 J	< 5.6 U	< 3.3 U	0.54 J	< 4.7 U	< 4.3 U	< 2.8 U	< 2.6 U
Silver	7440-22-4	mg/kg	39	1	0.060 J	1.9	0.44 J	1.2	0.44 J	0.50	1.1	0.83 J	0.045 J	0.36 J
Thallium	7440-28-0	mg/kg	0.078		< 0.50 U	< 1.1 U	< 0.48 U	< 1.1 U	< 0.66 U	< 0.40 U	< 0.94 U	< 0.85 U	< 0.56 U	< 0.53 U
Vanadium	7440-62-2	mg/kg	39		5.9	33	22	32	19	22	22	22	8.4	20
Zinc	7440-66-6	mg/kg	2300	121	170 JEB	520 JEB	330 JEB	420 JEB	230 JEB	320 JEB	310 JEB	320 JEB	62 JEB	130
Mercury	7439-97-6	mg/kg	2.3	0.18	2.1	2.6	0.78	1.6 J	0.84	0.67	4.2 J	1.3	0.076 J	0.66
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.56 U	0.78 J	< 0.50 U	< 1.2 U	< 0.75 U	< 0.48 U	< 1.0 U	< 0.87 U	< 0.63 U	< 0.78 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	1000	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 4.5 U	< 14 U	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 U	-	< 8.6 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		150	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 4.5 U	< 14 U	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 U	-	< 8.6 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	74	< 14 U	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	19 J	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 4.5 U	< 14 UJ	< 19 UJ	< 14 UJ	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 4.5 U	< 14 UJ	< 19 UJ	< 14 UJ	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	48	33 J	< 19 UJ	14	2.4 J	< 18 UJ	21	3.7 J-	-	< 8.6 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 U	-	< 8.6 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	24	< 14 UJ	< 19 UJ	< 14 UJ	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
1,2-Dichloroethane	107-06-2	ug/kg	460	986	9.0	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	17	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 4.5 U	< 14 UJ	< 19 UJ	< 14 UJ	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 4.5 U	< 14 UJ	< 19 UJ	< 14 UJ	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
2-HEXANONE	591-78-6	ug/kg	20000	45	< 9.1 U	< 28 UJ	< 38 UJ	< 28 U	< 18 U	< 36 UJ	< 35 U	< 22 UJ	-	< 17 U
ACETONE	67-64-1	ug/kg	7000000	65	25	890 J+	210 J	560	120 J	770 J	560	210	-	16 JEB
Benzene	71-43-2	ug/kg	1200	10	4.7 J	4.2 J	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 U	-	< 8.6 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 4.5 U	< 14 U	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0063-PLC1	23A-0063-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0065-PLC1	23A-0066-PLC1
				Sample Name	23A-0063-PLC1-CS	23A-0063-PLC1-BT	23A-0064-PLC1-AS	23A-0064-PLC1-BS	23A-0064-PLC1-CS	23A-0064-PLC1-AT	23A-0064-PLC1-BT	23A-0064-PLC1-CT	23A-0065-PLC1-AS	23A-0066-PLC1-AS
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/24/2023
				Sample Type	N	FD	N	N	N	FD	FD	FD	N	N
				Depth Interval	3.7 - 4.9 ft	0.5 - 3.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	1.3 J	3.7 J-	< 19 UJ	6.7 J	2.3 J	< 18 UJ	5.8 J	2.2 J-	-	< 8.6 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
Chlorobenzene	108-90-7	ug/kg	28000	30	8.0 J	< 14 UJ	< 19 UJ	< 14 UJ	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
CHLOROETHANE	75-00-3	ug/kg	540000		9.3	29 J-	< 19 UJ	< 14 U	5.6 J	< 18 UJ	< 18 U	3.0 J-	-	< 8.6 U
Chloroform	67-66-3	ug/kg	320	87	< 4.5 U	< 14 U	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	2700	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 4.5 U	< 14 U	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 U	-	< 8.6 U
Cyclohexane	110-82-7	ug/kg	650000		2.7 J	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 4.5 U	< 14 U	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
Ethylbenzene	100-41-4	ug/kg	5800	290	49	13 J-	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	3.8 J	5.3 J	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
m,p-Xylene	179601-23-1	ug/kg	55000		44	13 J-	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	< 9.1 U	250 J	28 J	140	30	110 J	140	62 J	-	< 17 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 9.1 U	< 28 U	< 38 UJ	< 28 U	< 18 U	< 36 UJ	< 35 U	< 22 U	-	< 17 U
Methylcyclohexane	108-87-2	ug/kg	9800		11	10 J-	< 19 UJ	4.1 J	8.3 J	< 18 UJ	4.9 J	7.4 J-	-	< 8.6 U
Methylene Chloride	75-09-2	ug/kg	35000	18	< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		33	24 J-	< 19 UJ	4.2 J	< 8.9 U	< 18 UJ	5.0 J	1.3 J-	-	< 8.6 U
Styrene	100-42-5	ug/kg	600000	126	< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	29	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
Toluene	108-88-3	ug/kg	490000	10	46 J	14 J	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	3.4 J	-	< 8.6 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	5.2	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 4.5 U	< 14 U	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 U	-	< 8.6 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	6.0 J	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 4.5 U	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 UJ	< 11 UJ	-	< 8.6 U
Vinyl Chloride	75-01-4	ug/kg	59	482	1400	< 14 UJ	< 19 UJ	< 14 U	< 8.9 U	< 18 UJ	< 18 U	< 11 UJ	-	< 8.6 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-	-	-	< 85 UJ	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	230 J-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 190 UJ	< 430 UJ	< 640 UJ	< 410 UJ	< 270 UJ	< 610 UJ	< 360 UJ	< 300 U	< 220 UJ	< 270 UJ
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 380 U	< 830 U	< 1200 UJ	< 800 UJ	< 520 UJ	< 1200 UJ	< 690 U	< 580 U	< 420 UJ	< 510 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 UJ	< 270 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 UJ	< 270 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	330 J-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 380 UJ	< 830 UJ	< 1200 UJ	< 800 UJ	< 520 UJ	< 1200 UJ	< 690 UJ	< 580 U	< 420 UJ	< 510 UJ
2-NITROANILINE	88-74-4	ug/kg	63000		< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 UJ	< 270 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 380 U	< 830 U	< 1200 UJ	< 800 U	< 520 U	< 1200 UJ	< 690 U	< 580 U	< 420 U	< 510 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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				Location	23A-0063-PLC1	23A-0063-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0065-PLC1	23A-0066-PLC1
				Sample Name	23A-0063-PLC1-CS	23A-0063-PLC1-BT	23A-0064-PLC1-AS	23A-0064-PLC1-BS	23A-0064-PLC1-CS	23A-0064-PLC1-AT	23A-0064-PLC1-BT	23A-0064-PLC1-CT	23A-0065-PLC1-AS	23A-0066-PLC1-AS	
				Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/24/2023	
				Sample Type	N	FD	N	N	N	FD	FD	FD	N	N	
				Depth Interval	3.7 - 4.9 ft	0.5 - 3.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0 - 0.5 ft	
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
3-NITROANILINE	99-09-2	ug/kg	25000		< 380 U	< 830 U	< 1200 UJ	< 800 U	< 520 U	< 1200 UJ	< 690 U	< 580 U	< 420 UJ	< 510 U	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 380 U	< 830 U	< 1200 UJ	< 800 U	< 520 U	< 1200 UJ	< 690 U	< 580 U	< 420 UJ	< 510 U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 UJ	< 270 U	
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 190 U	< 430 U	< 640 UJ	< 410 UJ	< 270 UJ	< 610 UJ	< 360 UJ	< 300 U	< 220 UJ	< 270 U	
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 380 UJ	< 830 UJ	< 1200 UJ	< 800 U	< 520 UJ	< 1200 UJ	< 690 U	< 580 U	< 420 UJ	< 510 U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 UJ	< 270 U	
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 380 UJ	< 830 UJ	< 1200 UJ	< 800 UJ	< 520 UJ	< 1200 UJ	< 690 UJ	< 580 U	< 420 UJ	< 510 UJ	
4-Nitroaniline	100-01-6	ug/kg	25000		< 380 U	< 830 U	< 1200 UJ	< 800 U	< 520 U	< 1200 UJ	< 690 U	< 580 U	< 420 UJ	< 510 U	
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 380 U	< 830 U	< 1200 UJ	< 800 U	< 520 U	< 1200 UJ	< 690 U	< 580 U	< 420 UJ	< 510 U	
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	1000 J-	-	
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	< 220 UJ	-	
Acetophenone	98-86-2	ug/kg	780000		140 JEB	330 JEB	320 JEB	250 JEB	59 JEB	370 JEB	190 JEB	230 JEB	190 JEB	130 J	
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	-	-	1600	-	
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 380 U	< 830 U	< 1200 UJ	< 800 U	< 520 U	< 1200 UJ	< 690 U	< 580 U	< 420 U	< 510 U	
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 380 U	< 830 U	< 1200 UJ	< 800 U	< 520 U	< 1200 UJ	< 690 U	< 580 U	< 420 U	< 510 U	
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	-	-	-	1800	-	
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	-	-	660 J-	-	
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	-	-	-	1500 J-	-	
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	< 220 UJ	-	
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	660 J-	-	
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U	
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	93 J	< 270 U	
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 380 U	< 830 U	< 1200 UJ	< 800 U	< 520 U	< 1200 UJ	< 690 U	< 580 U	< 420 U	< 510 U	
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 380 U	< 830 U	< 1200 UJ	< 800 U	< 520 U	< 1200 UJ	< 690 U	< 580 U	< 420 U	< 510 U	
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	110 J	420 J	290 J	630	210 J	130 J	550	180 J	98 J	140 J	
Caprolactam	105-60-2	ug/kg	3100000		< 380 U	< 830 U	< 1200 UJ	< 800 U	< 520 U	< 1200 UJ	< 690 U	< 580 U	< 420 U	< 510 U	
CARBAZOLE	86-74-8	ug/kg	240000	69	< 380 U	< 830 U	< 1200 UJ	< 800 U	< 520 U	< 1200 UJ	< 690 U	< 580 U	590 J-	< 510 U	
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-	-	-	1700	-	
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	200 J-	-	
Dibenzofuran	132-64-9	ug/kg	7800	510	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	780 J-	< 270 U	
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U	
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U	
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 190 U	< 430 U	< 640 UJ	< 410 U	5400 J	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U	
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 380 U	< 830 U	< 1200 UJ	< 800 U	< 520 U	< 1200 UJ	< 690 U	< 580 U	< 420 U	< 510 U	
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	-	620	-	-	640	5100	-	
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	1100 J-	-	
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U	
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U	
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 380 U	< 830 U	< 1200 UJ	< 800 U	< 520 U	< 1200 UJ	< 690 U	< 580 U	< 420 U	< 510 U	
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U	
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	410 J-	-	
ISOPHORONE	78-59-1	ug/kg	570000	876	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U	
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	520 J-	-	
NITROBENZENE	98-95-3	ug/kg	5100	407	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U	
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 190 U	< 430 U	< 640 UJ	< 410 UJ	< 270 UJ	< 610 UJ	< 360 UJ	< 300 U	< 220 U	< 270 U	
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 190 U	< 430 U	< 640 UJ	< 410 U	< 270 U	< 610 UJ	< 360 U	< 300 U	< 220 U	< 270 U	
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	-	-	< 520 U	< 1200 UJ	-	-	< 420 U	-	
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	-	-	-	-	-	7100	-	
PHENOL	108-95-2	ug/kg	1900000	175	< 380 U	< 830 U	300 J	130 J	< 520 U	180 J	120 J	< 580 U	61 J	< 510 U	
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	-	-	520	2600 J	-	

Table 11
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					Location	23A-0063-PLC1	23A-0063-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0064-PLC1	23A-0065-PLC1	23A-0066-PLC1
					Sample Name	23A-0063-PLC1-CS	23A-0063-PLC1-BT	23A-0064-PLC1-AS	23A-0064-PLC1-BS	23A-0064-PLC1-CS	23A-0064-PLC1-AT	23A-0064-PLC1-BT	23A-0064-PLC1-CT	23A-0065-PLC1-AS	23A-0066-PLC1-AS
					Sample Date	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/29/2023	6/24/2023
					Sample Type	N	FD	N	N	N	FD	FD	FD	N	N
					Depth Interval	3.7 - 4.9 ft	0.5 - 3.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0.5 - 3.7 ft	3.7 - 5.7 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 7.5 U	18 J-	< 25 UJ	< 16 U	< 10 U	< 23 UJ	< 14 U	< 12 U	-	< 10 U
1-Methylnaphthalene	90-12-0	ug/kg	18	141	3.8 EB	20 EB	< 12 UJ	5.6 JEB	40 JEB	< 12 UJ	5.0 JEB	22 JEB	-	< 5.1 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	4.7 EB	12 EB	< 12 UJ	5.0 JEB	42 JEB	< 12 UJ	4.7 JEB	24 JEB	-	1.8 J
Acenaphthene	83-32-9	ug/kg	360000	6.7	10 J-	15	5.0 J	16 J	98 J	5.2 J	14 J	57 J-	-	< 5.1 U
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	5.2 J-	8.3	15 J	12	18 J-	5.8 J	12	16 J-	-	< 5.1 U
ANTHRACENE	120-12-7	ug/kg	1800000	57	16 J-	5.4 J-	14 J	22 J-	14 J-	9.8 J	20 J-	22 J-	-	< 5.1 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	100	86	70 J	170	310	60 J	160 J-	390	-	4.3 J
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	38 J-	33	16 J	21	41 J	9.7 J	14 J-	130	-	< 5.1 U
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	130	110	95 J	160	310	86 J	160	360	-	6.6
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	26 J-	45	< 12 UJ	< 8.0 U	3.1 J	< 12 UJ	< 6.9 U	6.4 J-	-	< 5.1 U
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	42 J-	50	36 J	52	130	39 J	51 J-	150	-	2.5 J
CHRYSENE	218-01-9	ug/kg	110000	166	110	91	68 J	110	290	57 J	97 J-	360	-	6.1
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	8.1 J-	22	14 J	20	38	10 J	19 J-	41 J-	-	< 5.1 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	230	140	110 J	280 J-	-	110 J	270 J-	-	-	11
FLUORENE	86-73-7	ug/kg	240000	77	13 J-	20	8.7 J	23	130 J	5.9 J	22	60 J-	-	< 5.1 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	25 J-	65	17 J	20	47 J	12 J	16 J-	81 J-	-	2.0 J
Naphthalene	91-20-3	ug/kg	2000	176	24 EB	56 EB	3.6 JEB	9.2 EB	34 JEB	3.2 JEB	6.7 JEB	35 JEB	-	17 EB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 7.6 U	< 17 U	-	-	-	-	-	< 12 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	160	46 J-	65 J	120 J-	350 J-	57 J	100 J-	390 J-	-	4.6 J
PYRENE	129-00-0	ug/kg	180000	195	190	130	46 J	74 J	290 J	40 J	49 J	-	-	9.3
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			1600	77000	160000 J	160000	52000	150000 J	140000	63000	12000	22000
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			-	-	36 J	-	-	22 J	-	-	-	< 3.1 U
Cadmium	7440-43-9	umol/g			-	-	0.013 J	-	-	0.013 J	-	-	-	0.00056
Copper	7440-50-8	umol/g			-	-	0.49 JEB	-	-	0.67 JEB	-	-	-	0.10
Lead	7439-92-1	umol/g			-	-	0.52 J	-	-	0.63 J	-	-	-	0.031
Nickel	7440-02-0	umol/g			-	-	0.50 J	-	-	0.59 J	-	-	-	0.039
Silver	7440-22-4	umol/g			-	-	0.00042 J	-	-	0.00073 J	-	-	-	0.00021
Zinc	7440-66-6	umol/g			-	-	3.7 J	-	-	4.2 J	-	-	-	0.17
Mercury	7439-97-6	umol/g			-	-	< 0.000092 UJ	-	-	< 0.000093 UJ	-	-	-	0.000019 J

Table 11
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Boston, Massachusetts

				Location	23A-0066-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0068-PLC2	23A-0068-PLC2	23A-0069-PLC1	23A-0069-PLC1	23A-0069-PLC1	23A-0070-PLC1
				Sample Name	23A-0066-PLC1-BS	23A-0067-PLC1-AS	23A-0067-PLC1-BS	23A-0067-PLC1-CS	23A-0068-PLC2-AS	23A-0068-PLC2-BS	23A-0069-PLC1-AS	23A-0069-PLC1-BS	23A-0069-PLC1-CS	23A-0070-PLC1-AS
				Sample Date	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 2.9 ft	0 - 0.5 ft	0.5 - 0.9 ft	0 - 0.5 ft	0.5 - 3.4 ft	3.4 - 6 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 1.9 U	< 6.5 UJ	< 3.2 U	< 2.2 UJ	< 2.1 U	< 2.0 U	< 2.4 U	< 1.9 U	< 1.9 U	< 5.2 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 1.9 U	< 6.5 UJ	< 3.2 U	< 2.2 UJ	< 2.1 U	< 2.0 U	< 2.4 U	< 1.9 U	< 1.9 U	< 5.2 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 1.9 U	< 6.5 UJ	< 3.2 U	< 2.2 UJ	< 2.1 U	< 2.0 U	< 2.4 U	< 1.9 U	< 1.9 U	< 5.2 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 1.9 U	< 6.5 UJ	< 3.2 U	< 2.2 UJ	< 2.1 U	< 2.0 U	< 2.4 U	< 1.9 U	< 1.9 U	< 5.2 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 3.6 U	< 13 UJ	< 6.2 U	< 4.2 UJ	< 4.1 U	< 3.8 U	< 4.6 U	< 3.6 U	< 3.7 U	< 10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		< 1.9 U	< 6.5 UJ	3.9 J	< 2.2 UJ	< 2.1 U	< 2.0 U	< 2.4 U	< 1.9 U	< 1.9 U	< 5.2 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		< 1.9 U	< 6.5 UJ	15 J	< 2.2 UJ	1.1 J	0.68 J	< 2.4 U	< 1.9 U	< 1.9 U	< 5.2 U
DIELDRIN	60-57-1	ug/kg	34	1.9	< 3.6 U	< 13 UJ	< 6.2 U	< 4.2 UJ	< 4.1 U	< 3.8 U	< 4.6 U	< 3.6 U	< 3.7 U	< 10 U
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 3.6 U	< 13 UJ	2.8 J	< 4.2 UJ	< 4.1 U	< 3.8 U	0.34 J	< 3.6 U	< 3.7 U	< 10 U
ENDRIN	72-20-8	ug/kg	1900	2.22	0.23 J	< 13 UJ	8.1 J	0.33 J	0.49 J	0.37 J	0.82 J	< 3.6 U	< 3.7 U	< 10 U
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 3.6 U	< 13 UJ	< 6.2 U	< 4.2 UJ	< 4.1 U	< 3.8 U	< 4.6 U	< 3.6 U	< 3.7 U	< 10 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 3.6 U	< 13 UJ	< 6.2 U	< 4.2 UJ	< 4.1 U	< 3.8 U	< 4.6 U	< 3.6 U	< 3.7 U	< 10 U
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	1.1 J	< 6.5 UJ	66 J	< 2.2 UJ	1.3 J	< 2.0 U	9.9 J	< 1.9 U	< 1.9 U	< 5.2 U
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 1.9 U	< 6.5 UJ	< 3.2 U	< 2.2 UJ	< 2.1 U	< 2.0 U	< 2.4 U	< 1.9 U	< 1.9 U	< 5.2 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	0.32 J	< 6.5 UJ	13	0.68 J	< 2.1 U	< 2.0 U	1.1 J+	< 1.9 U	< 1.9 U	< 5.2 U
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 19 U	< 65 UJ	< 32 U	< 22 UJ	< 21 U	< 20 U	< 24 U	< 19 U	< 19 U	< 52 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	< 3.6 U	< 13 UJ	2.8 J	0.86 J	1.7 J	1.1 J	< 4.6 U	< 3.6 U	< 3.7 U	< 10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 3.6 U	< 13 UJ	4.9 J	0.29 J	< 4.1 U	0.44 J	< 4.6 U	< 3.6 U	< 3.7 U	< 10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	0.42 J	< 13 UJ	25 J+	0.74 J	1.8 J	1.4 J	2.7 J	< 3.6 U	< 3.7 U	< 10 U
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 190 U	< 650 UJ	< 320 U	< 220 UJ	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		0.20 J	< 6.5 UJ	8.1 J	< 2.2 UJ	< 2.1 U	< 2.0 U	< 2.4 U	< 1.9 U	< 1.9 U	< 5.2 U
Grain Size														
%CLAY	%CLAY	%			2.2	24.3	3.1	1	1.2	1	4.9	3.5	14.7	5.5
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			14.7	3	8.4	1.6	0.9	10.3	1.1	14.4	0	3.4
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			9.1	37.3	16.9	69.1	69.8	38.7	33.3	21.2	16.2	36.3
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			4.5	10.2	36.6	14.9	11.5	24.7	14	34	4.1	6.2
Gravel	GRAVEL	%			47.6	5.1	3.1	0.1	0.7	8.4	1.6	11.2	0	6.5
Hydrometer, Reading 1, Percent Passing	HYD01	%			4.9	37.2	10.6	4.1	4.7	2.4	19.4	6.2	36.9	22.1
Hydrometer, Reading 2, Percent Passing	HYD02	%			3.5	32.9	8.8	4.1	4.7	2.4	15.8	3.5	31.3	22.1
Hydrometer, Reading 3, Percent Passing	HYD03	%			2.2	32.9	6.9	2.6	2.9	1	12.1	3.5	28.6	13.8
Hydrometer, Reading 4, Percent Passing	HYD04	%			2.2	28.6	5	1	2.9	1	8.5	3.5	20.3	5.5
Hydrometer, Reading 5, Percent Passing	HYD05	%			2.2	24.3	3.1	1	1.2	1	4.9	3.5	14.7	5.5
Hydrometer, Reading 6, Percent Passing	HYD06	%			2.2	20	1.3	1	1.2	1	4.9	3.5	6.5	5.5
Hydrometer, Reading 7, Percent Passing	HYD07	%			0.9	20	1.3	1	1.2	1	1.2	0.9	0.9	5.5
Sand	308075-07-2	%			28.3	50.5	61.9	85.6	82.2	73.7	48.4	69.6	20.3	45.9
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			37.7	91.9	88.5	98.3	98.4	81.3	97.3	74.4	100	90.1
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			33.2	81.7	51.9	83.4	86.9	56.6	83.3	40.4	95.9	83.9
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			28.5	70.5	39.8	41.7	51.7	30.4	68	26.2	91.5	77.2
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			35.9	89.3	77.8	94.4	96.1	70	90.6	56.9	97.6	88
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			30.5	74.2	41.1	60.5	68.1	40.3	74.3	29.7	93.4	78.9
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			27.2	66.6	39.1	30.4	40.3	25.6	63.6	24.1	88.7	74
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			24.1	44.4	35	14.3	17.1	17.9	50	19.2	79.7	47.6
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			52.4	94.9	96.9	99.9	99.3	91.6	98.4	88.8	100	93.5
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			75.4	98.8	99.8	100	99.9	100	100	97.9	100	98.6
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	100	100	100	100	100	100	100	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	100	100	100	100	100	100	100	100
SILT	445	%			21.9	20.1	31.9	13.3	15.9	16.9	45.1	15.7	65	42.1

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0066-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0068-PLC2	23A-0068-PLC2	23A-0069-PLC1	23A-0069-PLC1	23A-0069-PLC1	23A-0070-PLC1
				Sample Name	23A-0066-PLC1-BS	23A-0067-PLC1-AS	23A-0067-PLC1-BS	23A-0067-PLC1-CS	23A-0068-PLC2-AS	23A-0068-PLC2-BS	23A-0069-PLC1-AS	23A-0069-PLC1-BS	23A-0069-PLC1-CS	23A-0070-PLC1-AS
				Sample Date	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 2.9 ft	0 - 0.5 ft	0.5 - 0.9 ft	0 - 0.5 ft	0.5 - 3.4 ft	3.4 - 6 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	7.86 JN	1520 J	2900	166	173	58.4	827	12.0	< 0.335 U	1430 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	< 0.433 U	38.7 J	89.1 J	1.68 J	2.92	1.56 J	16.9	< 0.274 U	< 0.289 U	28.2 J
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	< 0.626 UJ	19.0 J	24.1 J	1.72 JN	2.62 J	0.809 JN	7.27 J	< 0.386 UJ	< 0.377 UJ	15.1 J
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	< 0.399 U	63.2 J	171 J	3.02 J	5.13 J	3.78 JN	40.1 J	< 4.8 UJ	< 4.8 UJ	51.6 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	< 0.596 U	69.6 J	145 J	11.1 J	11.1 J	4.35 J	40.8 J	0.842 JN	< 0.405 UJ	69.8 J
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	< 0.386 U	44.2 J	70.9	2.11 J	3.22	1.77 J	19.1	< 0.222 U	< 0.247 U	31.6 J
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	< 0.592 U	49.2 J	82.9 J	5.99 J	6.29 J	2.03 J	27.1 J	0.391 JN	< 0.346 UJ	40.6 J
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.579 U	< 3.19 UJ	< 1.73 U	< 0.229 U	< 0.336 U	< 0.325 U	< 0.854 U	< 0.245 U	< 0.285 U	< 1.16 UJ
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	< 0.36 UJ	8.31 J	8.60 JN	1.16 J	1.02 JN	0.554 JN	3.28 JN	< 0.45 UJ	< 0.411 UJ	6.72 J
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	< 0.31 U	7.14 J	18.0	0.491 J	0.485 JN	0.273 JN	4.64	< 0.253 U	< 0.249 U	6.94 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	3.63 J+	1080 J	984 J+	73.3 J+	79.8 J+	32.2 J+	367 J+	3.62 J+	< 0.215 U	783 J+
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	< 0.453 U	34.1 J	58.7	2.11 J	3.56 JN	1.79 J	16.3	< 0.212 U	< 0.262 U	26.1 J
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	0.657 J	23.7 J+	172 J+	3.53 J+	6.92 J+	4.60 J+	46.5 J+	< 0.234 U	< 0.253 U	25.1 J+
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 0.988 UJ	1.89 JN	6.31	< 1.19 UJ	< 0.419 U	< 0.467 U	3.75	< 0.552 UJ	< 0.517 UJ	1.47 JN
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	< 0.304 U	11.0 J	87.4	1.76	2.53	0.892	20.5	< 0.278 U	< 0.26 U	11.6 J
OCDD	3268-87-9	pg/g	16000	5000	55.4 J+	9800 J	17300 J	753	926	292	4480	57.8	9.79	9710 J
OCDF	39001-02-0	pg/g	16000	5000	3.71 JN	1170 J	1210	54.9	88.8	26.8	326	2.89 JN	< 0.491 U	891 J
Total HpCDD (a)	RA_Total_HpCDD	pg/g			7.86	1520	2900	166	173	58.4	827	12.0	< 0.335 U	1430
Total HpCDF (a)	RA_Total_HpCDF	pg/g			3.63	1120	1070	75.0	82.7	33.8	384	3.62	< 0.289 U	811
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		< 0.626 U	138	252	18.8	20.0	7.19	75.2	1.23	< 0.405 U	126
Total HxCDF (a)	RA_Total_HxCDF	pg/g			< 0.579 U	142	301	7.24	11.9	7.34	75.5	< 4.8 U	< 4.8 U	109
Total PeCDD (a)	RA_Total_PeCDD	pg/g			< 0.36 U	8.31	8.60	1.16	1.02	0.554	3.28	< 0.45 U	< 0.411 U	6.72
Total PeCDF (a)	RA_Total_PeCDF	pg/g			0.657	30.8	190	4.02	7.41	4.87	51.1	< 0.253 U	< 0.253 U	32.0
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.988 U	1.89	6.31	< 1.19 U	< 0.419 U	< 0.467 U	3.75	< 0.552 U	< 0.517 U	1.47
Total TCDF (a)	RA_Total_TCDF	pg/g			< 0.304 U	11.0	87.4	1.76	2.53	0.892	20.5	< 0.278 U	< 0.26 U	11.6
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	93.2 JEB	511 JEB	89300 JEB	239 JEB	96.9 JEB	36.4 JEB	36.1 JEB	97.3 JEB	4.90 JEB	556 JEB
PCB-002	2051-61-8	ng/g	230	14.0	< 0.0268 U	2.07 J	120 J	< 0.0262 UJ	0.534 J	< 0.0269 UJ	< 0.0269 UJ	< 0.0261 UJ	< 0.0260 UJ	3.62 J
PCB-003	2051-62-9	ng/g	230	14.0	8.97 J	42.9 J	4870 J	10.3 J	12.3 J	7.34 J	6.89 J	3.64 J	< 0.0254 UJ	75.1 J
PCB-004/010	PCB-4/10	ng/g	230	14.0	368 JEB	802 JEB	171000 JEB	373 JEB	216 JEB	79.3 JEB	82.7 JEB	88.2 JEB	5.46 JEB	1620 JEB
PCB-005/008	PCB-5/8	ng/g	230	14.0	59.4 J	271 J	28800 J	67.5 J	118 J	50.0 J	45.8 J	20.3 J	1.15 J+	702 J
PCB-006	25569-80-6	ng/g	230	14.0	8.22 J	48.0 J	4360 J	13.1 J	17.7 J	7.37 J	6.88 J	3.03 J	< 0.0253 UJ	130 J
PCB-007/009	PCB-7/9	ng/g	230	14.0	2.11 J	11.7 J	703 J	2.30 J	3.69 J	1.30 J	1.44 J	0.723 J	< 0.0438 UJ	31.5 J
PCB-011	2050-67-1	ng/g	230	14.0	1.11 JEB	7.05 JEB	735 JEB	2.21 JEB	2.44 JEB	< 0.0249 U	< 0.0249 U	< 0.0241 U	< 0.0241 U	15.6 JEB
PCB-012/013	PCB-12/13	ng/g	230	14.0	1.40 J	18.5 J	1310 J	4.04 J	6.21 J	2.06 J	1.89 J	0.435 J	< 0.0434 UJ	41.7 J
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0249 U	< 0.0434 UJ	< 0.212 U	< 0.0243 UJ	< 0.0248 UJ	< 0.0250 U	< 0.0250 U	< 0.0242 U	< 0.0242 U	< 0.0436 UJ
PCB-015	2050-68-2	ng/g	230	14.0	10.0	153 J	3800 J	12.6 J	44.8 J	17.3 J	15.5 J	2.15 J	< 0.0222 UJ	291 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	35.8 JEB	234 JEB	14500 JEB	40.1 JEB	79.9 JEB	29.7 JEB	33.3 JEB	7.22 JEB	< 0.0630 UJ	619 JEB
PCB-017	37680-66-3	ng/g	230	14.0	21.4 JEB	154 JEB	12500 JEB	27.9 JEB	45.9 JEB	20.0 JEB	21.5 JEB	3.38 JEB	< 0.0278 UJ	434 JEB
PCB-018	37680-65-2	ng/g	230	14.0	5.23 JEB	70.9 JEB	3040 JEB	11.2 JEB	17.9 JEB	7.07 JEB	7.53 JEB	1.26 JEB	< 0.0321 UJ	156 JEB
PCB-019	38444-73-4	ng/g	230	14.0	78.6 J	176 J	22800 J	58.5 J	56.5 J	20.2 J	19.5 J	8.81 J	0.768 J	403 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	0.860 JEB	18.2 JEB	385 JEB	2.57 JEB	3.05 JEB	1.54 JEB	1.96 JEB	< 0.0673 UJ	< 0.0673 UJ	33.7 JEB
PCB-022	38444-85-8	ng/g	230	14.0	0.573 J	20.0 J	410 J	2.86 J	4.82 J	1.93 J	2.29 J	< 0.0239 U	< 0.0239 U	46.5 J
PCB-023/034	PCB-23/34	ng/g	230	14.0	1.37 J	4.50 J	600 J	1.70 J	1.50 J	0.621 J	< 0.0452 UJ	< 0.0438 UJ	< 0.0437 UJ	11.3 J
PCB-024/027	PCB-24/27	ng/g	230	14.0	41.8 J	88.2 J	8960 J	24.1 J	30.3 J	10.7 J	12.0 J	2.90 J	< 0.0425 UJ	200 J
PCB-025	55712-37-3	ng/g	230	14.0	5.78 J	61.5 J	4290 J	11.7 J	16.8 J	6.62 J	9.06 J	0.609 J	< 0.0246 UJ	155 J
PCB-026	38444-81-4	ng/g	230	14.0	13.0	92.8 J	6340 J	18.7 J	27.2 J	10.8 J	11.3 J	1.54 J	< 0.0210 UJ	218 J
PCB-028	7012-37-5	ng/g	230	14.0	4.31 JEB	126 JEB	2040 JEB	10.7 JEB	28.5 JEB	12.5 EB	14.9 EB	0.669 JEB	< 0.0231 U	261 JEB
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0260 U	< 0.0453 UJ	11.0 J	< 0.0254 UJ	< 0.0259 U	< 0.0261 U	< 0.0261 U	< 0.0253 U	< 0.0253 U	< 0.0455 UJ

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0066-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0068-PLC2	23A-0068-PLC2	23A-0069-PLC1	23A-0069-PLC1	23A-0069-PLC1	23A-0070-PLC1
				Sample Name	23A-0066-PLC1-BS	23A-0067-PLC1-AS	23A-0067-PLC1-BS	23A-0067-PLC1-CS	23A-0068-PLC2-AS	23A-0068-PLC2-BS	23A-0069-PLC1-AS	23A-0069-PLC1-BS	23A-0069-PLC1-CS	23A-0070-PLC1-AS
				Sample Date	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 2.9 ft	0 - 0.5 ft	0.5 - 0.9 ft	0 - 0.5 ft	0.5 - 3.4 ft	3.4 - 6 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0238 U	< 0.0415 UJ	11.3 J	< 0.0233 UJ	< 0.0237 U	< 0.0239 U	< 0.0239 U	< 0.0232 U	< 0.0232 U	< 0.0417 UJ
PCB-031	16606-02-3	ng/g	230	14.0	21.5 JEB	170 JEB	8410 JEB	28.1 JEB	45.3 JEB	17.7 JEB	18.4 JEB	2.68 JEB	< 0.0291 UJ	379 JEB
PCB-035	37680-69-6	ng/g	230	14.0	< 0.0282 U	< 0.0493 UJ	46.8 J	< 0.0276 UJ	< 0.0282 U	< 0.0284 U	< 0.0284 U	< 0.0275 U	< 0.0275 U	2.90 J
PCB-036	38444-87-0	ng/g	230	14.0	< 0.0241 U	< 0.0420 UJ	39.1 J	< 0.0236 UJ	< 0.0240 U	< 0.0242 U	< 0.0242 U	< 0.0235 U	< 0.0235 U	< 0.0422 UJ
PCB-037	38444-90-5	ng/g	230	14.0	< 0.0265 U	19.0 J	354 J	2.10 J	5.39 J	< 0.0266 U	< 0.0266 U	< 0.0258 U	< 0.0258 UJ	40.0 J
PCB-038	53555-66-1	ng/g	230	14.0	0.998 J	< 0.0348 UJ	248 J	< 0.0195 UJ	1.25 J	< 0.0201 UJ	< 0.0201 UJ	< 0.0194 UJ	< 0.0194 UJ	< 0.0350 UJ
PCB-039	38444-88-1	ng/g	230	14.0	< 0.0122 U	< 0.0214 UJ	97.3	< 0.0120 UJ	< 0.0122 U	< 0.0123 U	< 0.0123 U	< 0.0119 U	< 0.0119 U	3.46 J
PCB-040	38444-93-8	ng/g	230	14.0	< 0.0204 U	7.03 J	91.5	< 0.0200 U	< 0.0204 U	0.683 J	< 0.0206 U	< 0.0199 U	< 0.0199 U	13.0 J
PCB-041/064	PCB-41/64	ng/g	230	14.0	0.795 J	30.8 J	1140 J	3.14 J	6.39 J	2.93 J	2.78 J	0.112 J	< 0.0452 UJ	67.9 J
PCB-042	36559-22-5	ng/g	230	14.0	0.794 J	32.1 J	993 J	3.62 J	6.50 J	2.82 J	2.80 J	< 0.0497 UJ	< 0.0497 UJ	65.8 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	16.2	170 J	9360 J	27.9 J	39.7 J	17.8	17.4	1.92 J	< 0.0525 U	358 J
PCB-044	41464-39-5	ng/g	230	14.0	0.822 JEB	53.3 JEB	1050 JEB	5.43 JEB	9.64 JEB	4.19 JEB	4.18 JEB	0.322 JEB	< 0.0264 UJ	102 JEB
PCB-045	70362-45-7	ng/g	230	14.0	< 0.0222 U	9.93 J	381 J	0.892 J	1.98 J	0.898 J	0.820 J	< 0.0216 U	< 0.0216 U	19.0 J
PCB-046	41464-47-5	ng/g	230	14.0	0.539 J	7.34 J	381 J	1.33 J	1.59 J	0.617 J	< 0.0261 U	< 0.0253 U	< 0.0253 U	14.6 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	23.5 J	153 J	9660 J	24.9 J	40.5 J	18.4	17.5	2.29 J	< 0.0827 U	363 J
PCB-050	62796-65-0	ng/g	230	14.0	0.541 J	2.03 J	180 J	< 0.0310 U	0.670 J	0.317 J	< 0.0319 U	< 0.0309 U	< 0.0309 U	5.32 J
PCB-051	68194-04-7	ng/g	230	14.0	8.22 J	35.6 J	2500 J	6.91 J	10.0 J	4.39 J	4.37 J	0.549 J	< 0.0262 UJ	86.8 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	12.1 EB	134 JEB	6380 JEB	22.1 JEB	29.8 JEB	12.5 EB	12.6 EB	1.52 JEB	< 0.0604 U	262 JEB
PCB-053	41464-41-9	ng/g	230	14.0	11.0	62.0 J	4790 J	12.9 J	16.3 J	6.29 J	6.22 J	0.915 J	< 0.0234 UJ	126 J
PCB-054	15968-05-5	ng/g	230	14.0	2.11 J	5.13 J	499 J	1.45 J	1.72 J	0.659 J	0.703 J	0.175 J	< 0.0205 U	11.9 J
PCB-055	74338-24-2	ng/g	230	14.0	< 0.0274 U	< 0.0477 UJ	< 0.233 U	< 0.0268 U	< 0.0273 U	< 0.0275 U	< 0.0275 U	< 0.0266 U	< 0.0266 U	< 0.0479 UJ
PCB-056/060	PCB-56/60	ng/g	230	14.0	< 0.0534 U	22.4 JEB	70.7 JEB	1.43 JEB	3.58 JEB	1.66 JEB	1.65 JEB	< 0.0520 UJ	< 0.0520 UJ	45.2 JEB
PCB-057	70424-67-8	ng/g	230	14.0	0.436 J	2.66 J	215 J	0.651 J	0.489 J	< 0.0212 U	< 0.0212 U	< 0.0206 U	< 0.0206 U	6.36 J
PCB-058	41464-49-7	ng/g	230	14.0	< 0.0192 U	< 0.0334 UJ	18.4 J	< 0.0187 U	< 0.0191 U	< 0.0193 U	< 0.0193 U	< 0.0187 U	< 0.0186 U	< 0.0336 UJ
PCB-059	74472-33-6	ng/g	230	14.0	< 0.0375 U	3.37 J	115 J	< 0.0367 UJ	3.36 J	0.266 J	1.65 J	0.107 J	< 0.0365 UJ	7.77 J
PCB-061/074	PCB-61/74	ng/g	230	14.0	0.555 J	29.1 J	507 J	3.02 J	6.23 J	2.96 J	2.76 J	0.179 J	< 0.0480 U	73.7 J
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0262 U	< 0.0457 UJ	< 0.223 U	< 0.0256 U	< 0.0261 U	< 0.0263 U	< 0.0263 U	< 0.0255 U	< 0.0255 U	< 0.0459 UJ
PCB-063	74472-34-7	ng/g	230	14.0	1.86 J	10.4 J	724 J	2.20 J	2.85 J	1.23 J	1.35 J	0.152 J	< 0.0191 U	26.6 J
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0377 U	< 0.0658 UJ	12.2 J	< 0.0369 U	< 0.0376 U	< 0.0379 U	< 0.0379 U	< 0.0367 U	< 0.0367 U	< 0.0661 UJ
PCB-066/080	PCB-66/80	ng/g	230	14.0	0.657 JEB	47.9 JEB	440 JEB	5.31 JEB	8.20 JEB	3.93 JEB	4.12 JEB	0.283 JEB	< 0.0465 U	97.8 JEB
PCB-067	73575-53-8	ng/g	230	14.0	< 0.0231 U	2.21 J	70.7 J	< 0.0226 U	< 0.0231 U	< 0.0232 U	< 0.0232 U	< 0.0225 U	< 0.0225 U	5.33 J
PCB-068	73575-52-7	ng/g	230	14.0	1.33 J	4.22 J	297 J	1.37 J	1.88 J	< 0.0275 U	< 0.0275 U	0.118 J	< 0.0266 U	8.10 J
PCB-069	60233-24-1	ng/g	230	14.0	< 0.0284 U	1.01 J	68.1 J	< 0.0278 U	< 0.0284 U	< 0.0286 U	< 0.0286 U	< 0.0277 U	< 0.0277 U	2.64 J
PCB-070	32598-11-1	ng/g	230	14.0	< 0.0257 U	46.1 J	200 J	5.51 J	7.51 J	3.35 J	3.47 J	0.274 J	< 0.0250 U	87.4 J
PCB-071	41464-46-4	ng/g	230	14.0	4.70 J	38.8 J	2480 J	7.65 J	9.48 J	4.14 J	4.42 J	0.472 J	< 0.0338 UJ	99.6 J
PCB-072	41464-42-0	ng/g	230	14.0	1.20 J	4.78 J	322 J	1.25 J	1.17 J	0.529 J	0.795 J	0.0951 J	< 0.0300 U	10.4 J
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0378 U	< 0.0660 UJ	< 0.323 U	< 0.0370 U	< 0.0377 U	3.54 J	< 0.0380 U	< 0.0368 U	< 0.0368 U	< 0.0663 UJ
PCB-077	32598-13-3	ng/g	38.0	14.0	< 0.0223 U	9.92 J	140 J+	< 0.0218 U	1.56 J+	0.849 J	< 0.0224 U	< 0.0217 U	< 0.0217 U	15.7 J+
PCB-078	70362-49-1	ng/g	230	14.0	< 0.0194 U	< 0.0338 UJ	12.5 J	< 0.0189 U	< 0.0193 U	< 0.0195 U	< 0.0195 U	< 0.0189 U	< 0.0188 U	< 0.0339 UJ
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0243 U	< 0.0424 UJ	< 0.207 U	< 0.0238 U	< 0.0242 U	< 0.0244 U	< 0.0244 U	< 0.0237 U	< 0.0236 U	1.29 J
PCB-081	70362-50-4	ng/g	12.0	14.0	< 0.0379 U	< 0.0661 UJ	< 0.323 U	< 0.0371 U	< 0.0378 U	< 0.0381 U	< 0.0381 U	< 0.0369 U	< 0.0369 U	< 0.0665 UJ
PCB-082	52663-62-4	ng/g	230	14.0	< 0.0139 U	4.80 J	23.5 J	< 0.0136 UJ	< 0.0139 UJ	< 0.0140 UJ	< 0.0140 UJ	< 0.0136 UJ	< 0.0136 UJ	9.17 J
PCB-083/109	PCB-83/109	ng/g	230	14.0	< 0.0598 U	4.63 J	178 J	0.657 J	0.919 J	0.381 J	< 0.0602 UJ	< 0.0583 UJ	< 0.0582 UJ	7.47 J
PCB-084	52663-60-2	ng/g	230	14.0	0.351 J	15.5 J	439 J	2.40 J	2.64 J	1.19 J	1.30 J	0.137 J	< 0.0235 U	25.5 J
PCB-085/120	PCB-85/120	ng/g	230	14.0	< 0.0537 U	12.3 J	80.2 J	1.24 J	1.64 J	0.762 J	0.831 J	< 0.0523 U	< 0.0523 U	20.4 J
PCB-086/097	PCB-86/97	ng/g	230	14.0	< 0.0236 U	14.2 J	181 J	2.24 J	2.57 J	0.973 J	1.03 J	< 0.0230 UJ	< 0.0230 UJ	23.3 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	1.29 J	25.0 J	< 0.130 UJ	3.89 J	3.92 J	2.07 J	2.11 J	< 0.0148 UJ	< 0.0148 UJ	43.5 J
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.0550 U	< 0.0960 UJ	12.9 J	< 0.0538 UJ	< 0.0549 U	< 0.0553 U	< 0.0553 U	< 0.0536 U	< 0.0535 U	< 0.0964 UJ
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	2.26 J	58.0 J	1250 J	10.5 J	9.31 J	4.83 J	4.61 J	0.551 J	< 0.0580 U	93.2 J
PCB-091	68194-05-8	ng/g	230	14.0	1.88 J	19.9 J	1010 J	3.24 J	3.74 J	2.33 J	2.40 J	0.221 J	< 0.0300 UJ	38.8 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0066-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0068-PLC2	23A-0068-PLC2	23A-0069-PLC1	23A-0069-PLC1	23A-0069-PLC1	23A-0070-PLC1
					Sample Name	23A-0066-PLC1-BS	23A-0067-PLC1-AS	23A-0067-PLC1-BS	23A-0067-PLC1-CS	23A-0068-PLC2-AS	23A-0068-PLC2-BS	23A-0069-PLC1-AS	23A-0069-PLC1-BS	23A-0069-PLC1-CS	23A-0070-PLC1-AS
					Sample Date	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 2.9 ft	0 - 0.5 ft	0.5 - 0.9 ft	0 - 0.5 ft	0.5 - 3.4 ft	3.4 - 6 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-092	52663-61-3	ng/g	230	14.0		2.08 J	18.7 J	994 J	3.76 J	3.33 J	1.86 J	1.88 J	0.211 J	< 0.0132 U	32.6 J
PCB-093/095	PCB-93/95	ng/g	230	14.0		0.746 J	45.6 J	1070 J	7.15 J	7.70 J	3.51 J	3.45 J	0.284 J	< 0.0387 UJ	79.5 J
PCB-094	73575-55-0	ng/g	230	14.0		0.517 J	2.36 J	254 J	0.796 J	0.618 J	0.372 J	< 0.0457 U	< 0.0442 U	< 0.0442 U	5.22 J
PCB-096	73575-54-9	ng/g	230	14.0		< 0.0214 U	1.30 J	92.5	< 0.0210 UJ	0.304 J	< 0.0215 U	< 0.0215 U	< 0.0209 U	< 0.0209 U	2.69 J
PCB-098/102	PCB-98/102	ng/g	230	14.0		0.380 J	5.44 J	305 J	0.993 J	1.17 J	0.637 J	< 0.0399 UJ	< 0.0387 UJ	< 0.0386 UJ	12.5 J
PCB-099	38380-01-7	ng/g	230	14.0		0.782 J	31.9 J	720 J	5.16 J	5.37 J	2.73 J	2.76 J	0.281 J	< 0.0213 U	55.9 J
PCB-100	39485-83-1	ng/g	230	14.0		0.937 J	3.00 J	214 J	0.706 J	0.622 J	0.503 J	< 0.0243 U	< 0.0236 U	< 0.0235 U	6.98 J
PCB-103	60145-21-3	ng/g	230	14.0		0.500 J	2.27 J	153	0.475 J	0.589 J	0.383 J	< 0.0251 U	< 0.0243 U	< 0.0243 U	4.87 J
PCB-104	56558-16-8	ng/g	230	14.0		< 0.0231 U	< 0.0403 UJ	15.0 J	< 0.0226 UJ	< 0.0231 U	< 0.0232 U	< 0.0232 U	< 0.0225 U	< 0.0225 U	0.817 J
PCB-105/127	PCB-105/127	ng/g	120	14.0		< 0.0392 U	15.3 J	48.4 J	1.48 J	2.36 J	1.05 J	1.03 J	< 0.0382 U	< 0.0382 U	27.3 J
PCB-106/118	PCB-106/118	ng/g	120	14.0		< 0.0468 U	49.6 J	463 J	8.29 J	7.89 J	3.24 J	3.52 J	0.390 J	< 0.0456 U	74.9 J
PCB-107/108	PCB-107/108	ng/g	230	14.0		< 0.0481 U	5.60 J	141	0.973 J	1.01 J	< 0.0484 U	< 0.0483 U	< 0.0468 U	< 0.0468 U	8.02 J
PCB-110	38380-03-9	ng/g	230	14.0		2.20 J	83.6 J	2110 J	12.4 J	14.0 J	6.73 J	6.39 J	0.534 J	< 0.0218 UJ	134 J
PCB-111/117	PCB-111/117	ng/g	230	14.0		1.25 J	< 0.119 UJ	375 J	3.35 J	3.42 J	< 0.0686 UJ	1.90 J	0.231 J	< 0.0664 UJ	< 0.120 UJ
PCB-112	74472-36-9	ng/g	230	14.0		< 0.0238 U	< 0.0415 UJ	37.7 J	< 0.0233 UJ	< 0.0237 U	< 0.0239 U	< 0.0239 U	< 0.0232 U	< 0.0232 U	0.887 J
PCB-113	68194-10-5	ng/g	230	14.0		< 0.0250 U	< 0.0436 UJ	31.1 J	< 0.0244 UJ	< 0.0249 U	< 0.0251 U	< 0.0251 U	< 0.0243 U	< 0.0243 U	< 0.0438 UJ
PCB-114	74472-37-0	ng/g	120	14.0		< 0.0207 U	< 0.0362 UJ	9.65 J	< 0.0203 UJ	< 0.0207 U	< 0.0209 U	< 0.0208 U	< 0.0202 U	< 0.0202 U	2.40 J
PCB-119	56558-17-9	ng/g	230	14.0		0.544 J	5.21 J	206 J	0.798 J	1.01 J	0.780 J	0.736 J	< 0.0267 U	< 0.0267 U	8.75 J
PCB-122	76842-07-4	ng/g	230	14.0		< 0.0175 U	< 0.0305 UJ	< 0.149 U	< 0.0171 UJ	< 0.0174 U	< 0.0176 U	< 0.0176 U	< 0.0170 U	< 0.0170 U	< 0.0306 UJ
PCB-123	65510-44-3	ng/g	120	14.0		< 0.0162 U	2.46 J	17.0 J+	< 0.0158 UJ	< 0.0162 U	< 0.0163 U	< 0.0163 U	< 0.0158 U	< 0.0158 U	3.85 J
PCB-124	70424-70-3	ng/g	230	14.0		< 0.0218 U	< 0.0381 UJ	< 0.186 U	< 0.0213 UJ	< 0.0218 U	< 0.0219 U	< 0.0219 U	< 0.0213 U	< 0.0212 U	2.71 J
PCB-125	74472-39-2	ng/g	230	14.0		< 0.0239 U	< 0.0417 UJ	8.58 J	< 0.0234 UJ	< 0.0238 U	< 0.0240 U	< 0.0240 U	< 0.0233 U	< 0.0233 U	< 0.0419 UJ
PCB-126	57465-28-8	ng/g	0.0360	14.0		< 0.0340 U	< 0.0593 UJ	32.7 J	< 0.0332 U	< 0.0339 UJ	< 0.0342 UJ	< 0.0342 UJ	< 0.0331 U	< 0.0331 U	3.37 J
PCB-128	38380-07-3	ng/g	230	14.0		< 0.0240 U	10.9 J	78.8 J	1.34 J	1.40 J	0.716 J	0.783 J	< 0.0234 UJ	< 0.0234 UJ	15.7 J
PCB-129	55215-18-4	ng/g	230	14.0		< 0.0264 U	2.51 J	< 0.225 U	< 0.0258 U	< 0.0263 U	< 0.0265 U	< 0.0265 U	< 0.0257 U	< 0.0257 U	3.88 J
PCB-130	52663-66-8	ng/g	230	14.0		< 0.0207 U	3.84 J	85.0 J	0.714 J	0.680 J	< 0.0209 UJ	< 0.0208 UJ	< 0.0202 UJ	< 0.0202 UJ	5.57 J
PCB-131/142	PCB-131/142	ng/g	230	14.0		< 0.0511 U	< 0.0891 UJ	< 0.435 U	< 0.0499 U	< 0.0509 U	< 0.0513 U	< 0.0513 U	< 0.0497 U	< 0.0497 U	< 0.0895 UJ
PCB-132/168	PCB-132/168	ng/g	230	14.0		0.363 J	18.3 J	303 J	2.85 J	2.70 J	1.23 J	1.33 J	0.155 J	< 0.0582 U	31.9 J
PCB-133	35694-04-3	ng/g	230	14.0		0.314 J	1.33 J	113	< 0.0182 U	< 0.0185 U	0.377 J	0.340 J	< 0.0181 U	< 0.0181 U	1.76 J
PCB-134	52704-70-8	ng/g	230	14.0		< 0.0492 U	3.23 J	67.6 J	0.626 J	< 0.0491 U	0.441 J	0.425 J	< 0.0479 U	< 0.0479 U	5.34 J
PCB-135/144	PCB-135/144	ng/g	230	14.0		0.387 J	7.80 J	230 J	1.27 J	1.25 J	0.760 J	0.855 J	0.0679 J	< 0.0503 UJ	17.0 J
PCB-136	38411-22-2	ng/g	230	14.0		0.227 J	6.42 J	146 J	1.12 J	0.940 J	0.593 J	0.646 J	0.0560 J	< 0.0419 UJ	14.2 J
PCB-137	35694-06-5	ng/g	230	14.0		< 0.0241 U	3.93 J	25.7 J	< 0.0236 UJ	0.560 J	< 0.0242 UJ	< 0.0242 UJ	< 0.0235 UJ	< 0.0235 UJ	5.50 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0		1.47 J	62.4 J	785 J	8.29 J	7.58 J	5.34 J	5.23 J	0.462 J	< 0.0751 U	106 J
PCB-139/149	PCB-139/149	ng/g	230	14.0		1.26 J	35.7 J	688 J	5.35 J	5.21 J	3.10 J	3.18 J	0.302 J	< 0.0692 UJ	82.5 J
PCB-140	59291-64-4	ng/g	230	14.0		< 0.0352 U	< 0.0613 UJ	24.9 J	< 0.0344 U	< 0.0351 U	< 0.0353 U	< 0.0353 U	< 0.0342 U	< 0.0342 U	< 0.0616 UJ
PCB-141	52712-04-6	ng/g	230	14.0		< 0.0247 U	7.35 J	36.3 J	0.753 J	0.954 J	< 0.0248 UJ	0.463 J	< 0.0240 UJ	< 0.0240 UJ	19.7 J
PCB-143	68194-15-0	ng/g	230	14.0		< 0.0317 U	< 0.0553 UJ	< 0.270 U	< 0.0310 U	< 0.0316 U	< 0.0319 U	< 0.0319 U	< 0.0309 U	< 0.0309 U	< 0.0556 UJ
PCB-145	74472-40-5	ng/g	230	14.0		< 0.0419 U	< 0.0730 UJ	< 0.357 U	< 0.0409 U	< 0.0418 U	< 0.0421 U	< 0.0421 U	< 0.0408 U	< 0.0407 U	< 0.0734 UJ
PCB-146	51908-16-8	ng/g	230	14.0		0.636 J	7.22 J	329 J	1.32 J	1.49 J	0.889 J	0.812 J	0.0967 J	< 0.0276 U	12.2 J
PCB-147	68194-13-8	ng/g	230	14.0		0.688 J	3.32 J	174 J	0.875 J	0.821 J	1.01 J	1.12 J	0.0751 J	< 0.0359 U	6.16 J
PCB-148	74472-41-6	ng/g	230	14.0		< 0.0387 U	< 0.0675 UJ	28.4 J	< 0.0379 U	< 0.0386 U	< 0.0389 U	< 0.0389 U	< 0.0377 U	< 0.0377 U	< 0.0678 UJ
PCB-150	68194-08-1	ng/g	230	14.0		< 0.0391 U	< 0.0682 UJ	16.9 J	< 0.0382 U	< 0.0390 U	< 0.0393 U	< 0.0393 U	< 0.0381 U	< 0.0381 U	0.594 J
PCB-151	52663-63-5	ng/g	230	14.0		0.696 J	9.01 J	338 J	1.62 J	1.48 J	1.19 J	1.27 J	0.0910 J	< 0.0276 UJ	25.3 J
PCB-152	68194-09-2	ng/g	230	14.0		< 0.0457 U	< 0.0798 UJ	22.1 J	< 0.0447 U	< 0.0456 U	< 0.0460 U	< 0.0460 U	< 0.0445 U	< 0.0445 U	< 0.0801 UJ
PCB-153	35065-27-1	ng/g	230	14.0		0.899 J	38.5 J	541 J	5.43 J	5.53 J	2.84 J	3.01 J	0.319 J	< 0.0242 U	89.7 J
PCB-154	60145-22-4	ng/g	230	14.0		0.394 J	1.46 J	116	0.435 J	0.397 J	0.454 J	0.435 J	< 0.0265 U	< 0.0265 U	2.43 J
PCB-155	33979-03-2	ng/g	230	14.0		< 0.0235 U	< 0.0410 UJ	< 0.200 U	< 0.0230 UJ	< 0.0235 U	< 0.0236 U	< 0.0236 U	< 0.0229 U	< 0.0229 U	< 0.0412 UJ
PCB-156	38380-08-4	ng/g	120	14.0		< 0.0197 U	4.88 J	30.3 J	0.812 J	0.700 J	< 0.0199 U	< 0.0199 U	< 0.0192 U	< 0.0192 U	7.52 J
PCB-157	69782-90-7	ng/g	120	14.0		< 0.0275 U	1.61 J	16.8 J+	< 0.0268 U	< 0.0274 U	< 0.0276 U	< 0.0276 U	< 0.0267 U	< 0.0267 U	4.05 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0066-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0068-PLC2	23A-0068-PLC2	23A-0069-PLC1	23A-0069-PLC1	23A-0069-PLC1	23A-0070-PLC1
					Sample Name	23A-0066-PLC1-BS	23A-0067-PLC1-AS	23A-0067-PLC1-BS	23A-0067-PLC1-CS	23A-0068-PLC2-AS	23A-0068-PLC2-BS	23A-0069-PLC1-AS	23A-0069-PLC1-BS	23A-0069-PLC1-CS	23A-0070-PLC1-AS
					Sample Date	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 2.9 ft	0 - 0.5 ft	0.5 - 0.9 ft	0 - 0.5 ft	0.5 - 3.4 ft	3.4 - 6 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-158/160	PCB-158/160	ng/g	230	14.0	< 0.0602 U	5.38 J	31.7 J	0.813 J	0.820 J	0.672 J	< 0.0606 UJ	< 0.0587 UJ	< 0.0586 UJ	9.52 J
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0379 U	< 0.0661 UJ	14.5 J	< 0.0371 U	< 0.0378 U	< 0.0381 U	< 0.0381 U	< 0.0369 U	< 0.0369 U	2.16 J
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0355 U	< 0.0618 UJ	< 0.302 U	< 0.0347 U	< 0.0354 U	< 0.0356 U	< 0.0356 U	< 0.0345 U	< 0.0345 U	< 0.0621 UJ
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0279 U	< 0.0488 UJ	< 0.238 U	< 0.0273 U	< 0.0279 U	< 0.0281 U	< 0.0281 U	< 0.0272 U	< 0.0272 U	< 0.0490 UJ
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0383 U	< 0.0668 UJ	14.4 J	< 0.0375 U	< 0.0382 U	< 0.0385 U	< 0.0385 U	< 0.0373 U	< 0.0373 U	< 0.0671 UJ
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0330 U	< 0.0575 UJ	< 0.281 U	< 0.0323 U	< 0.0329 U	< 0.0332 U	< 0.0332 U	< 0.0321 U	< 0.0321 U	< 0.0578 UJ
PCB-167	52663-72-6	ng/g	120	14.0	< 0.0254 U	2.39 J	12.7 J	< 0.0248 U	0.410 J	< 0.0255 U	< 0.0255 U	< 0.0247 U	< 0.0247 U	3.34 J
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0279 U	< 0.0488 UJ	< 0.238 U	< 0.0273 U	< 0.0279 UJ	< 0.0281 U	< 0.0281 UJ	< 0.0272 U	< 0.0272 U	< 0.0490 UJ
PCB-170/190	PCB-170/190	ng/g	230	14.0	0.525 J	10.4 J	229 J	0.919 J	1.63 J	1.84 J	2.10 J	0.109 J	< 0.0448 UJ	41.8 J
PCB-171	52663-71-5	ng/g	230	14.0	< 0.0365 U	2.77 J	60.3 J	0.512 J	0.577 J	0.412 J	0.423 J	< 0.0356 U	< 0.0356 U	10.9 J
PCB-172/192	PCB-172/192	ng/g	230	14.0	< 0.0606 U	1.32 J	41.5 J	< 0.0593 U	0.338 J	0.260 J	0.305 J	< 0.0591 U	< 0.0590 U	5.55 J
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0409 U	< 0.0713 UJ	< 0.349 U	< 0.0400 U	< 0.0408 U	< 0.0411 U	< 0.0411 U	< 0.0398 U	< 0.0398 U	< 0.0716 UJ
PCB-174	38411-25-5	ng/g	230	14.0	0.412 J	8.36 J	196 J	1.15 J	1.30 J	1.03 J	1.14 J	0.0748 J	< 0.0499 U	49.2 J
PCB-175	40186-70-7	ng/g	230	14.0	< 0.0315 U	< 0.0550 UJ	< 0.269 U	< 0.0308 U	< 0.0314 U	< 0.0317 U	< 0.0317 U	< 0.0307 U	< 0.0307 U	1.83 J
PCB-176	52663-65-7	ng/g	230	14.0	0.0933 J	1.09 J	34.9 J	< 0.0288 U	0.181 J	< 0.0296 U	< 0.0296 U	< 0.0287 U	< 0.0286 U	5.67 J
PCB-177	52663-70-4	ng/g	230	14.0	0.583 J	5.27 J	210 J	0.864 J	1.06 J	0.850 J	1.04 J	0.0812 J	< 0.0358 U	24.0 J
PCB-178	52663-67-9	ng/g	230	14.0	0.343 J	2.16 J	113	0.500 J	0.527 J	0.532 J	0.644 J	< 0.0449 U	< 0.0449 U	9.68 J
PCB-179	52663-64-6	ng/g	230	14.0	0.314 J	3.32 J	137 J	0.576 J	0.608 J	0.638 J	0.605 J	< 0.0238 UJ	< 0.0237 UJ	19.2 J
PCB-180	35065-29-3	ng/g	230	14.0	0.918 J	17.5 J	425 J	2.25 J	2.93 J	2.65 J	2.88 J	0.168 J	< 0.0316 U	98.0 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0279 U	< 0.0488 UJ	< 0.238 U	< 0.0273 U	1.06 J	< 0.0281 U	< 0.0281 U	< 0.0272 U	< 0.0272 U	< 0.0490 UJ
PCB-182/187	PCB-182/187	ng/g	230	14.0	1.19 J	10.3 J	438 J	1.55 J	1.85 J	1.81 J	1.93 J	0.123 J	< 0.0715 UJ	58.3 J
PCB-183	52663-69-1	ng/g	230	14.0	0.259 J	4.65 J	99.3 J	0.634 J	0.681 J	0.537 J	0.636 J	< 0.0356 UJ	< 0.0356 UJ	25.4 J
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0265 U	< 0.0462 UJ	< 0.226 U	< 0.0259 U	< 0.0264 U	< 0.0266 U	< 0.0266 U	< 0.0258 U	< 0.0258 U	< 0.0464 UJ
PCB-185	52712-05-7	ng/g	230	14.0	< 0.0366 U	1.04 J	17.7 J	< 0.0358 U	< 0.0366 U	< 0.0368 U	< 0.0368 U	< 0.0357 U	< 0.0357 U	6.95 J
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0331 U	< 0.0577 UJ	< 0.282 U	< 0.0324 U	< 0.0330 U	< 0.0333 U	< 0.0333 U	< 0.0322 U	< 0.0322 U	< 0.0580 UJ
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0303 U	< 0.0529 UJ	3.52 J	< 0.0296 U	< 0.0303 U	< 0.0305 U	< 0.0305 U	< 0.0295 U	< 0.0295 U	< 0.0531 UJ
PCB-189	39635-31-9	ng/g	130	14.0	< 0.0308 U	< 0.0537 UJ	11.2 J	< 0.0301 U	< 0.0307 U	< 0.0310 U	< 0.0310 U	< 0.0300 U	< 0.0300 U	1.27 J
PCB-191	74472-50-7	ng/g	230	14.0	< 0.0278 U	< 0.0486 UJ	6.53 J	< 0.0272 U	< 0.0278 U	< 0.0280 U	< 0.0280 U	< 0.0271 U	< 0.0271 U	1.53 J
PCB-193	69782-91-8	ng/g	230	14.0	0.168 J	1.15 J	37.9 J	< 0.0344 U	0.237 J	0.280 J	0.340 J	< 0.0342 U	< 0.0342 U	4.55 J
PCB-194	35694-08-7	ng/g	230	14.0	0.794 J	6.09 J	300 J	1.22 J	1.23 J	1.58 J	1.73 J	< 0.0433 UJ	< 0.0432 UJ	31.7 J
PCB-195	52663-78-2	ng/g	230	14.0	< 0.0787 UJ	2.40 J	90.2	< 0.0770 U	< 0.0785 U	0.755 J	< 0.0791 U	< 0.0767 U	< 0.0766 U	12.5 J
PCB-196/203	PCB-196/203	ng/g	230	14.0	0.675 J	6.17 J	247 J	1.33 J	1.50 J	1.48 J	1.60 J	< 0.0727 UJ	< 0.0727 UJ	40.3 J
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0333 U	< 0.0581 UJ	7.28 J	< 0.0325 U	< 0.0332 U	< 0.0335 U	< 0.0335 U	< 0.0324 U	< 0.0324 U	1.41 J
PCB-198	68194-17-2	ng/g	230	14.0	< 0.0540 UJ	< 0.0942 UJ	< 0.461 U	< 0.0528 U	< 0.0539 U	< 0.0543 U	< 0.0543 U	< 0.0526 U	< 0.0526 U	1.69 J
PCB-199	52663-75-9	ng/g	230	14.0	0.654 J	5.01 J	228 J	1.40 J	1.27 J	1.35 J	1.12 J	< 0.0506 UJ	< 0.0506 UJ	31.8 J
PCB-200	52663-73-7	ng/g	230	14.0	< 0.0265 U	< 0.0462 UJ	25.1 J	< 0.0259 U	< 0.0264 U	< 0.0266 U	< 0.0266 U	< 0.0258 U	< 0.0258 U	4.57 J
PCB-201	40186-71-8	ng/g	230	14.0	< 0.0209 U	< 0.0365 UJ	27.5 J	< 0.0205 U	< 0.0209 U	< 0.0210 U	< 0.0210 U	< 0.0204 U	< 0.0204 U	4.36 J
PCB-202	2136-99-4	ng/g	230	14.0	< 0.0357 U	1.07 J	45.8 J	< 0.0350 U	< 0.0357 U	< 0.0359 U	< 0.0359 U	< 0.0348 U	< 0.0348 U	5.62 J
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0437 U	< 0.0763 UJ	< 0.373 U	< 0.0428 U	< 0.0437 U	< 0.0440 U	< 0.0440 U	< 0.0426 U	< 0.0426 U	< 0.0767 UJ
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0310 U	< 0.0541 UJ	14.6 J	< 0.0303 U	< 0.0309 U	< 0.0312 U	< 0.0312 U	< 0.0302 U	< 0.0302 U	1.33 J
PCB-206	40186-72-9	ng/g	230	14.0	< 0.0297 UJ	3.15 J	111	1.33 J	0.715 J	0.679 J	0.811 J	< 0.0289 U	< 0.0289 U	10.7 J
PCB-207	52663-79-3	ng/g	230	14.0	< 0.0393 U	< 0.0686 UJ	11.4 J	< 0.0384 U	< 0.0392 U	< 0.0395 U	< 0.0395 U	< 0.0383 U	< 0.0383 U	1.63 J
PCB-208	52663-77-1	ng/g	230	14.0	< 0.0393 U	1.34 J	24.5 J	< 0.0384 U	0.256 J	0.166 J	< 0.0395 U	< 0.0383 U	< 0.0383 U	2.44 J
PCB-209	2051-24-3	ng/g	230	14.0	< 0.0226 UJ	2.20 J	18.9 J	< 0.0221 U	0.360 J	< 0.0227 U	< 0.0227 U	< 0.0220 U	< 0.0220 U	2.78 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	< 0.0226 U	2.20	18.9	< 0.0221 U	0.360	< 0.0227 U	< 0.0227 U	< 0.022 U	< 0.022 U	2.78
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	4.81	69.3	2060	8.96	13.0	10.8	12.0	0.556	< 0.0715 U	364
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	7.33	237	4270	33.6	32.9	19.6	19.9	1.62	< 0.0751 U	472
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	2.12	20.7	985	3.95	4.00	5.17	4.45	< 0.0767 U	< 0.0766 U	135
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	901	4790	451000	1220	1220	506	510	259	12.3	10100
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	15.7	427	10500	70.5	74.1	34.3	33.9	2.84	< 0.0664 U	729
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	450	1310	211000	475	409	157	154	115	6.61	2830
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	102	556	94300	249	110	43.7	43.0	101	4.90	635
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	< 0.0393 U	4.49	147	1.33	0.971	0.845	0.811	< 0.0383 U	< 0.0383 U	14.8
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	87.4	925	43100	139	211	94.9	89.6	9.48	< 0.0827 U	1980
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	231	1240	85100	240	364	139	152	29.1	0.768	2960

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0066-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0068-PLC2	23A-0068-PLC2	23A-0069-PLC1	23A-0069-PLC1	23A-0069-PLC1	23A-0070-PLC1
				Sample Name	23A-0066-PLC1-BS	23A-0067-PLC1-AS	23A-0067-PLC1-BS	23A-0067-PLC1-CS	23A-0068-PLC2-AS	23A-0068-PLC2-BS	23A-0069-PLC1-AS	23A-0069-PLC1-BS	23A-0069-PLC1-CS	23A-0070-PLC1-AS
				Sample Date	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 2.9 ft	0 - 0.5 ft	0.5 - 0.9 ft	0 - 0.5 ft	0.5 - 3.4 ft	3.4 - 6 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	3500 EB	6300	5000	3600	4300	4000	5300	4000	3300	4200
Calcium	7440-70-2	mg/kg			1600 EB	3700	1700	2500	3800	2200	1600	1700	1800	2300
Iron	7439-89-6	mg/kg	5500	20000	5500 EB	20000	10000	8300	8200	8800	11000	9900	9000	13000
Magnesium	7439-95-4	mg/kg			2200 EB	2000	1700	2100	2800	2900	1800	2100	1600	1500
Potassium	7440-09-7	mg/kg			200 J	440	280 J	150 J	190 J	140 J	370 J	230 J	280 J	220 J
Sodium	7440-23-5	mg/kg			91 J	500	230 J	98 J	120 J	86 J	190 J	100 J	110 J	370 J
Antimony	7440-36-0	mg/kg	3.1	2	< 0.91 UJ	1.6	1.8	< 0.98 U	< 0.95 U	< 0.83 U	< 1.2 U	< 0.86 U	< 0.92 U	< 2.6 U
Arsenic	7440-38-2	mg/kg	0.68	9.8	0.96	6.3 J	4.2	1.2 J	1.6	1.3	4.2	0.82	1.2	4.4 J
Barium	7440-39-3	mg/kg	1500	20	23	100	47	21	27	18	49	16	32	330
Beryllium	7440-41-7	mg/kg	16		0.20 J	0.57 J	0.34 J	0.17 J	0.20 J	0.16 J	0.35 J	0.15 J	0.17 J	0.37 J
Cadmium	7440-43-9	mg/kg	0.71	1	< 0.46 U	1.4	1.1	< 0.49 U	< 0.47 U	< 0.42 U	0.78	< 0.43 U	< 0.46 U	0.88 J
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	8.4 EB	48 JEB	35 EB	15 JEB	13 EB	9.4 EB	37 EB	7.4 EB	6.7 EB	37 JEB
Cobalt	7440-48-4	mg/kg	2.3	50	3.2	12 J	4.7	3.3 J	3.8	4.0	4.8	3.5	3.7	5.9 J
Copper	7440-50-8	mg/kg	310	31.6	10	63 J	63	26 J	28	8.8	51	9.7	11	43 J
Lead	7439-92-1	mg/kg	200	35.8	7.3	130	140	18	24	14	85	4.3	3.3	86
Manganese	7439-96-5	mg/kg	180	460	100 JEB	630 JEB	190 EB	190 JEB	240 EB	210 EB	160 EB	85 EB	120 EB	440 JEB
Nickel	7440-02-0	mg/kg	140	22.7	6.0	14 J	9.6	8.0 J	7.1	6.5	9.4	5.4	6.1	9.7 J
Selenium	7782-49-2	mg/kg	39	11	< 2.3 U	< 2.0 U	< 3.8 U	< 2.4 U	< 2.4 U	< 2.1 U	< 2.9 U	< 2.2 U	< 2.3 U	< 6.4 U
Silver	7440-22-4	mg/kg	39	1	< 0.46 U	0.40	0.41 J	< 0.49 U	0.17 J	< 0.42 U	0.32 J	< 0.43 U	< 0.46 U	0.26 J
Thallium	7440-28-0	mg/kg	0.078		< 0.46 U	0.064 J	< 0.75 U	< 0.49 U	< 0.47 U	< 0.42 U	< 0.59 U	< 0.43 U	< 0.46 U	< 1.3 U
Vanadium	7440-62-2	mg/kg	39		13	24	18	8.9	9.1	8.5	19	10	12	19
Zinc	7440-66-6	mg/kg	2300	121	20	320 J	190	34 J	51	44	130	22	15	200 J
Mercury	7439-97-6	mg/kg	2.3	0.18	< 0.11 U	0.59	0.58	0.097 J	0.068 J	0.029 J	0.45	< 0.11 U	< 0.11 U	0.39
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 0.53 U	1.2	< 0.93 U	< 0.61 U	< 0.61 U	< 0.58 U	< 0.69 U	< 0.53 U	< 0.55 U	< 1.5 U
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
2-HEXANONE	591-78-6	ug/kg	20000	45	< 11 U	< 38 UJ	< 18 U	< 13 U	< 12 U	< 12 U	< 12 U	< 9.0 U	< 14 U	< 26 U
ACETONE	67-64-1	ug/kg	7000000	65	8.2 JEB	500 JEB	200 EB	27 JEB	10 JEB	12 EB	16 EB	12 EB	13 JEB	410 EB
Benzene	71-43-2	ug/kg	1200	10	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U

Table 11
Sediment Analytical Results
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Lower Neponset River
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				Location	23A-0066-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0068-PLC2	23A-0068-PLC2	23A-0069-PLC1	23A-0069-PLC1	23A-0069-PLC1	23A-0070-PLC1
				Sample Name	23A-0066-PLC1-BS	23A-0067-PLC1-AS	23A-0067-PLC1-BS	23A-0067-PLC1-CS	23A-0068-PLC2-AS	23A-0068-PLC2-BS	23A-0069-PLC1-AS	23A-0069-PLC1-BS	23A-0069-PLC1-CS	23A-0070-PLC1-AS
				Sample Date	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 2.9 ft	0 - 0.5 ft	0.5 - 0.9 ft	0 - 0.5 ft	0.5 - 3.4 ft	3.4 - 6 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Chlorobenzene	108-90-7	ug/kg	28000	30	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Chloroform	67-66-3	ug/kg	320	87	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Cyclohexane	110-82-7	ug/kg	650000		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Ethylbenzene	100-41-4	ug/kg	5800	290	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	< 11 U	120 JEB	58 EB	< 13 U	< 12 U	< 12 U	< 12 U	< 9.0 U	< 14 U	100 EB
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 11 U	< 38 UJ	< 18 U	< 13 U	< 12 U	< 12 U	< 12 U	< 9.0 U	< 14 U	< 26 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Methylene Chloride	75-09-2	ug/kg	35000	18	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Styrene	100-42-5	ug/kg	600000	126	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Toluene	108-88-3	ug/kg	490000	10	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
Vinyl Chloride	75-01-4	ug/kg	59	482	< 5.3 U	< 19 UJ	< 8.8 U	< 6.7 U	< 6.1 U	< 6.2 U	< 6.2 U	< 4.5 U	< 6.8 U	< 13 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	< 86 UJ	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
2-NITROANILINE	88-74-4	ug/kg	63000		< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U

Table 11
Sediment Analytical Results
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				Location	23A-0066-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0068-PLC2	23A-0068-PLC2	23A-0069-PLC1	23A-0069-PLC1	23A-0069-PLC1	23A-0070-PLC1
				Sample Name	23A-0066-PLC1-BS	23A-0067-PLC1-AS	23A-0067-PLC1-BS	23A-0067-PLC1-CS	23A-0068-PLC2-AS	23A-0068-PLC2-BS	23A-0069-PLC1-AS	23A-0069-PLC1-BS	23A-0069-PLC1-CS	23A-0070-PLC1-AS
				Sample Date	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 2.9 ft	0 - 0.5 ft	0.5 - 0.9 ft	0 - 0.5 ft	0.5 - 3.4 ft	3.4 - 6 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 UJ
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 360 U	380 J	< 620 U	170 J	180 J	160 J	130 J	130 J	< 370 U	370 J
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	260	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	260	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	< 190 U	170 J	110 J	60 J	82 J	76 J	67 J	49 J	< 190 U	210 J
Caprolactam	105-60-2	ug/kg	3100000		< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
CARBAZOLE	86-74-8	ug/kg	240000	69	< 360 U	< 1300 UJ	< 620 U	< 420 U	43 J	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 190 U	< 650 UJ	< 320 U	< 220 U	1400	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	-	520	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 190 U	< 650 UJ	< 320 U	< 220 R	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 190 U	< 650 UJ	< 320 U	< 220 U	< 210 U	< 200 U	< 240 U	< 190 U	< 190 U	< 520 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	-	490	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	175	< 360 U	< 1300 UJ	< 620 U	< 420 U	< 410 U	< 390 U	< 460 U	< 360 U	< 370 U	< 1000 U
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	510	-	-	-	-	-

Table 11
Sediment Analytical Results
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				Location	23A-0066-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0067-PLC1	23A-0068-PLC2	23A-0068-PLC2	23A-0069-PLC1	23A-0069-PLC1	23A-0069-PLC1	23A-0070-PLC1
				Sample Name	23A-0066-PLC1-BS	23A-0067-PLC1-AS	23A-0067-PLC1-BS	23A-0067-PLC1-CS	23A-0068-PLC2-AS	23A-0068-PLC2-BS	23A-0069-PLC1-AS	23A-0069-PLC1-BS	23A-0069-PLC1-CS	23A-0070-PLC1-AS
				Sample Date	6/24/2023	6/23/2023	6/23/2023	6/23/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/22/2023	6/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.5 - 1.7 ft	0 - 0.5 ft	0.5 - 2.3 ft	2.3 - 2.9 ft	0 - 0.5 ft	0.5 - 0.9 ft	0 - 0.5 ft	0.5 - 3.4 ft	3.4 - 6 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 7.2 U	< 25 UJ	< 12 U	-	< 8.3 U	< 7.7 U	< 9.4 U	< 7.2 U	< 7.4 U	< 20 U
1-Methylnaphthalene	90-12-0	ug/kg	18	141	< 3.6 U	< 13 UJ	4.2 J	1.2 J	13	0.93 J-	< 4.6 U	< 3.6 U	< 3.7 U	< 10 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	< 3.6 U	3.3 J	3.1 J	1.9 J	18	1.4 J-	1.4 J	1.1 J	< 3.7 U	2.2 J
Acenaphthene	83-32-9	ug/kg	360000	6.7	< 3.6 U	< 13 UJ	6.4	2.1 J	43	2.7 J-	< 4.6 U	< 3.6 U	< 3.7 U	< 10 U
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	< 3.6 U	< 13 UJ	8.7	2.0 J	11	5.6 J-	< 4.6 U	1.1 J	< 3.7 U	< 10 U
ANTHRACENE	120-12-7	ug/kg	1800000	57	< 3.6 U	< 13 UJ	9.9 J-	5.1	170	14 J-	< 4.6 U	2.2 J	< 3.7 U	2.1 J
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	2.6 J	< 13 UJ	62	21	-	40 J-	6.9	4.7	< 3.7 U	15
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	2.3 J	< 13 UJ	57	13	300	36 J-	3.2 J	2.3 J	< 3.7 U	9.2 J
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	3.1 J	< 13 UJ	71	27	-	52 J-	7.5	4.5	< 3.7 U	24
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	1.8 J	< 13 UJ	31	1.3 J	25 J-	4.5 J-	< 4.6 U	< 3.6 U	< 3.7 U	< 10 U
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	1.2 J	< 13 UJ	27	11	220	27 J-	3.0 J	2.0 J	< 3.7 U	8.4 J
CHRYSENE	218-01-9	ug/kg	110000	166	3.2 J	< 13 UJ	66	23	320	34 J-	5.8	4.1	< 3.7 U	21
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	< 3.6 U	< 13 UJ	8.4	3.3 J	43 J-	5.8 J-	< 4.6 U	< 3.6 U	< 3.7 U	< 10 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	4.6	< 13 UJ	110	36	-	110	12	11	< 3.7 U	44
FLUORENE	86-73-7	ug/kg	240000	77	< 3.6 U	< 13 UJ	9.6	2.4 J	48	3.2 J-	< 4.6 U	0.76 J	< 3.7 U	< 10 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	1.4 J	< 13 UJ	26	9.5	150	20 J-	2.6 J	2.2 J	< 3.7 U	7.7 J
Naphthalene	91-20-3	ug/kg	2000	176	< 3.6 U	40 JEB	3.5 JEB	11 EB	42 EB	7.6 JEB	10 EB	10 EB	< 3.7 U	27 EB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 7.3 U	< 26 UJ	< 13 U	< 8.6 U	< 8.4 U	< 7.8 UJ	< 9.4 U	< 7.3 U	< 7.5 U	< 21 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	1.5 J	< 13 UJ	41 J-	22	-	38 J-	5.1	7.6	< 3.7 U	18
PYRENE	129-00-0	ug/kg	180000	195	4.7	< 13 UJ	99	32	-	100	9.8	8.9	< 3.7 U	30 J
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			570	170000 J	38000	11000	4900	1900	39000	37000	630	310000 J
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			-	23 J	-	-	1.1 J	-	2.3 J	-	-	26 J
Cadmium	7440-43-9	umol/g			-	0.011 J	-	-	0.0025	-	0.0039	-	-	0.020 J
Copper	7440-50-8	umol/g			-	0.55 J	-	-	0.22	-	0.53	-	-	0.87 J
Lead	7439-92-1	umol/g			-	0.48 J	-	-	0.15	-	0.21	-	-	0.83 J
Nickel	7440-02-0	umol/g			-	0.74 J	-	-	0.24	-	1.2	-	-	0.69 J
Silver	7440-22-4	umol/g			-	0.00066 J	-	-	0.00023	-	0.00018	-	-	0.00071 J
Zinc	7440-66-6	umol/g			-	3.1 J	-	-	0.65	-	1.0	-	-	10 J
Mercury	7439-97-6	umol/g			-	< 0.000089 UJ	-	-	< 0.000034 U	-	< 0.000038 U	-	-	< 0.00015 UJ

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				Location	23A-0070-PLC1	23A-0070-PLC1	23A-0071-PLC1	23A-0072-PLC1	23A-0072-PLC1	23A-0073-PLC1	23A-0074-PLC1	23A-0075-PLC1	23A-0076-PLC1	23A-0077-PLC1
				Sample Name	23A-0070-PLC1-BS	23A-0070-PLC1-CS	23A-0071-PLC1-AS	23A-0072-PLC1-AS	23A-0072-PLC1-AT	23A-0073-PLC1-AS	23A-0074-PLC1-AS	23A-0075-PLC1-AS	23A-0076-PLC1-AS	23A-0077-PLC1-AS
				Sample Date	6/23/2023	6/23/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023
				Sample Type	N	N	N	N	FD	N	N	N	N	N
				Depth Interval	0.5 - 2.3 ft	2.3 - 4.2 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 4.6 U	< 4.2 U	< 2.9 U	< 2.0 U	< 2.2 U	< 2.0 U	< 6.6 UJ	< 24 UJ	< 14 U	< 11 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 4.6 U	< 4.2 U	< 2.9 U	< 2.0 U	< 2.2 U	< 2.0 U	< 6.6 UJ	< 24 UJ	< 14 U	< 11 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 4.6 U	< 4.2 U	< 2.9 U	< 2.0 U	< 2.2 U	< 2.0 U	< 6.6 UJ	< 24 UJ	< 14 U	< 11 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 4.6 U	< 4.2 U	< 2.9 U	< 2.0 U	< 2.2 U	< 2.0 U	< 6.6 UJ	< 24 UJ	< 14 U	< 11 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 8.8 U	< 8.1 U	< 5.6 U	< 3.9 U	< 4.3 U	< 3.9 U	< 13 UJ	< 47 UJ	< 26 U	< 21 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		< 4.6 U	2.7 J	< 2.9 U	< 2.0 U	< 2.2 U	< 2.0 U	< 6.6 UJ	< 24 UJ	< 14 U	< 11 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		25 J	9.3 J	< 2.9 U	< 2.0 U	< 2.2 U	< 2.0 U	< 6.6 UJ	< 24 UJ	< 14 U	< 11 U
DIELDRIN	60-57-1	ug/kg	34	1.9	< 8.8 U	< 8.1 U	< 5.6 U	< 3.9 U	< 4.3 U	< 3.9 U	< 13 UJ	< 47 UJ	< 26 U	< 21 U
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 8.8 U	1.8 J	< 5.6 U	< 3.9 U	< 4.3 U	< 3.9 U	< 13 UJ	< 47 UJ	< 26 U	< 21 U
ENDRIN	72-20-8	ug/kg	1900	2.22	4.5 J	4.5 J	< 5.6 U	< 3.9 U	< 4.3 U	< 3.9 U	< 13 UJ	< 47 UJ	< 26 U	< 21 U
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 8.8 U	< 8.1 U	< 5.6 U	< 3.9 U	< 4.3 U	< 3.9 U	< 13 UJ	< 47 UJ	< 26 U	< 21 U
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 8.8 U	< 8.1 U	< 5.6 U	< 3.9 U	< 4.3 U	< 3.9 U	< 13 UJ	< 47 UJ	< 26 U	9.2 J
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	45 J	30 J	< 2.9 U	< 2.0 U	< 2.2 U	< 2.0 U	< 6.6 UJ	< 24 UJ	< 14 U	< 11 U
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 4.6 U	< 4.2 U	< 2.9 U	< 2.0 U	< 2.2 U	< 2.0 U	< 6.6 UJ	< 24 UJ	< 14 U	< 11 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	6.8 J	8.1 J	< 2.9 U	< 2.0 U	< 2.2 U	< 2.0 U	< 6.6 UJ	< 24 UJ	< 14 U	< 11 U
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 46 U	< 42 U	< 29 U	< 20 U	< 22 U	< 20 U	< 66 UJ	< 240 UJ	< 140 U	< 110 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	< 8.8 U	2.8 J	< 5.6 U	< 3.9 U	< 4.3 U	< 3.9 U	12 J	< 47 UJ	< 26 U	< 21 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 8.8 U	3.4 J	< 5.6 U	< 3.9 U	< 4.3 U	< 3.9 U	21 J	< 47 UJ	< 26 U	< 21 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	13 J+	14 J+	2.7 J	3.9 J	7.8	< 3.9 U	< 13 UJ	< 47 UJ	< 26 U	5.5 J
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 460 U	< 420 U	< 290 U	< 200 U	< 220 U	< 200 U	< 660 UJ	< 2400 UJ	< 1400 U	< 1100 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		< 4.6 U	5.0 J	< 2.9 U	< 2.0 U	< 2.2 U	< 2.0 U	< 6.6 UJ	< 24 UJ	< 14 U	< 11 U
Grain Size														
%CLAY	%CLAY	%			10.2	10.3	1.2	0	0	0	0	2	1	0
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			1.6	1.3	13	30.6	26.1	31	2.6	2.4	17.3	16.1
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			19.4	28.6	15.3	5.9	3.7	8.9	34.6	8.7	20.3	21.4
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			4	11.3	16.5	27.1	17.6	11.5	6.9	2.7	14.3	16.4
Gravel	GRAVEL	%			0.1	0	44.3	22.6	32.5	34.2	1.1	8.1	20.4	31.6
Hydrometer, Reading 1, Percent Passing	HYD01	%			17.9	25.7	6.4	0.9	0	0.8	7.9	5.5	6.9	0.9
Hydrometer, Reading 2, Percent Passing	HYD02	%			10.2	18	6.4	0	0	0.8	7.9	4.3	5.5	0.9
Hydrometer, Reading 3, Percent Passing	HYD03	%			10.2	10.3	4.6	0	0	0.8	7.9	3.2	4	0.9
Hydrometer, Reading 4, Percent Passing	HYD04	%			10.2	10.3	4.6	0	0	0	3.2	3.2	2.5	0
Hydrometer, Reading 5, Percent Passing	HYD05	%			10.2	10.3	1.2	0	0	0	0	2	1	0
Hydrometer, Reading 6, Percent Passing	HYD06	%			10.2	10.3	1.2	0	0	0	0	0.8	1	0
Hydrometer, Reading 7, Percent Passing	HYD07	%			10.2	10.3	0	0	0	0	0	0	0	0
Sand	308075-07-2	%			25	41.2	44.8	63.6	47.4	51.4	44.1	13.8	51.9	53.9
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			98.3	98.7	42.7	46.8	41.4	34.8	96.3	89.5	62.3	52.3
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			94.3	87.4	26.2	19.7	23.8	23.3	89.4	86.8	48	35.9
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			89.9	73.8	16.3	14.9	20.9	18.8	70.9	82.5	35.4	21.6
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			96.1	95.3	35.6	31.5	31.5	28.1	93.1	88.5	56.2	47.1
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			92.1	78.5	19.3	16	21.5	20.4	83	84.8	40.2	26.8
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			87.4	69.4	14.7	14.4	20.6	17.8	66.4	81.8	33.3	19.4
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			74.9	58.8	10.9	13.8	20.1	14.4	54.8	78.1	27.7	14.5
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			99.9	100	55.7	77.4	67.5	65.8	98.9	91.9	79.6	68.4
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			100	100	79.8	97.9	98.1	98.2	100	92.8	92.6	94.5
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	100	100	100	100	100	100	100	100	100
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	100	100	100	100	100	100	100	100	100
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	100	100	100	100	100	100	100	100	100
SILT	445	%			64.7	48.5	9.8	13.8	20.1	14.4	54.8	76.1	26.7	14.5

Table 11
Sediment Analytical Results
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					Location	23A-0070-PLC1	23A-0070-PLC1	23A-0071-PLC1	23A-0072-PLC1	23A-0072-PLC1	23A-0073-PLC1	23A-0074-PLC1	23A-0075-PLC1	23A-0076-PLC1	23A-0077-PLC1
					Sample Name	23A-0070-PLC1-BS	23A-0070-PLC1-CS	23A-0071-PLC1-AS	23A-0072-PLC1-AS	23A-0072-PLC1-AT	23A-0073-PLC1-AS	23A-0074-PLC1-AS	23A-0075-PLC1-AS	23A-0076-PLC1-AS	23A-0077-PLC1-AS
					Sample Date	6/23/2023	6/23/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023
					Sample Type	N	N	N	N	FD	N	N	N	N	N
					Depth Interval	0.5 - 2.3 ft	2.3 - 4.2 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	3580	9210	23.2	71.6	53.1	15.1	717 J	155 J	12.2 J	48.7 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	62.1	229	0.668 JN	2.07 J	2.55	0.629 J	40.8 J	7.92 J	0.595 JN	2.55
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	25.8 J	78.1 J	0.752 J	1.54 J	1.38 J	0.764 J	14.8 J	3.39 J	0.528 J	1.5 J
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	118 J	482 J	2.1 JN	5.10	5.68	2.16 J	166 J	34.9 J	2.25 J	8.56 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	152 J	488 J	1.33 J	3.56 JN	5.15	0.714 JN	35.4 J	7.43 J	0.993 J	2.54
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	60.1	190	1.45 J	3.83	4.66	1.60 J	76.9 J	16.5 J	1.29 J	4.34
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	68.2 J	252 J	0.934 JN	2.41	2.10 J	0.806 JN	29.7 J	6.20 J	0.576 JN	1.97 J
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 1.77 U	< 3.1 U	< 0.359 U	< 0.332 U	< 0.477 U	< 0.399 U	< 1.52 UJ	< 0.537 UJ	< 0.289 U	< 0.312 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	9.06 JN	32.1 JN	< 0.258 UJ	0.8 JN	0.769 JN	< 0.579 UJ	9.15 J	2.18 JN	< 0.311 UJ	0.844 J
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	18.6	36.9	0.612 J	2.16 J	2.33 JN	1.28 JN	22.9 J	6.09 J	0.461 J	0.975 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	1270 J+	2810 J+	18.7	38.7	55.6	13.6	1160 J	247 J	14.8	60.8
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	52.0	151	1.27 JN	4.48	6.09	1.91 J	50.1 J	9.91 J	0.759 JN	2.7
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	114 J+	538 J+	2.49	6.54	6.10	3.19	66.7 J	12.6 J	1.24 JN	3.7 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	5.14	20.9	< 0.971 UJ	< 0.965 UJ	< 0.896 UJ	0.511 J	2.27 J	< 0.457 UJ	< 0.349 U	< 0.476 U
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	50.0	167	0.882	2.46 JN	3.56	3.23	33.6 J	12.9 J	0.582 JN	1.35
OCDD	3268-87-9	pg/g	16000	5000	27400 J	43900 J	176 EB	616 JEB	260 JEB	118 EB	5770 JEB	1280 JEB	86.6 EB	485 EB
OCDF	39001-02-0	pg/g	16000	5000	1590	3150	25.7	61.5	44.0	16.1	1080 J	230 J	15.1 J	57.5 J
Total HpCDD (a)	RA_Total_HpCDD	pg/g			3580	9210	23.2	71.6	53.1	15.1	717	155	12.2	48.7
Total HpCDF (a)	RA_Total_HpCDF	pg/g			1330	3040	19.4	40.8	58.2	14.2	1200	255	15.4	63.3
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		246	818	3.02	7.51	8.63	2.28	79.9	17.0	2.10	6.01
Total HxCDF (a)	RA_Total_HxCDF	pg/g			230	823	4.82	13.4	16.4	5.67	293	61.3	4.30	15.6
Total PeCDD (a)	RA_Total_PeCDD	pg/g			9.06	32.1	< 0.258 U	0.8	0.769	< 0.579 U	9.15	2.18	< 0.311 U	0.844
Total PeCDF (a)	RA_Total_PeCDF	pg/g			133	575	3.10	8.70	8.43	4.47	89.6	18.7	1.70	4.68
Total TCDD (a)	RA_Total_TCDD	pg/g			5.14	20.9	< 0.971 U	< 0.965 U	< 0.896 U	0.511	2.27	< 0.457 U	< 0.349 U	< 0.476 U
Total TCDF (a)	RA_Total_TCDF	pg/g			50.0	167	0.882	2.46	3.56	3.23	33.6	12.9	0.582	1.35
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	14.0	31300 JEB	193000 JEB	< 0.0365 U	< 0.0363 U	< 0.0337 U	1.38 J	< 0.0373 UJ	< 0.0365 UJ	< 0.0372 U	< 0.0373 U
PCB-002	2051-61-8	ng/g	230	14.0	135 J	173 J	< 0.0526 U	< 0.0523 U	< 0.0485 U	< 0.0519 U	< 0.0537 UJ	< 0.0526 UJ	< 0.0537 U	< 0.0538 U
PCB-003	2051-62-9	ng/g	230	14.0	2540 J	2710 J	< 0.0513 U	< 0.0509 U	< 0.0473 U	< 0.0506 U	< 0.0523 UJ	< 0.0512 UJ	< 0.0523 U	< 0.0524 U
PCB-004/010	PCB-4/10	ng/g	230	14.0	55900 JEB	342000 JEB	2.67 J	4.19 J	2.79 J	4.83 J	< 0.0936 UJ	< 0.0916 UJ	< 0.0935 U	< 0.0937 U
PCB-005/008	PCB-5/8	ng/g	230	14.0	18600 J	30800 J	< 0.0876 U	0.922 J	< 0.0808 U	1.57 J	0.502 J	< 0.0875 UJ	< 0.0893 U	< 0.0895 U
PCB-006	25569-80-6	ng/g	230	14.0	3290 J	4660 J	< 0.0511 U	< 0.0508 U	< 0.0471 U	< 0.0504 U	< 0.0521 UJ	< 0.0510 UJ	< 0.0521 U	< 0.0522 U
PCB-007/009	PCB-7/9	ng/g	230	14.0	393 J	1140 J	< 0.0886 U	< 0.0880 U	< 0.0817 U	< 0.0874 U	< 0.0904 UJ	< 0.0885 UJ	< 0.0903 U	< 0.0905 U
PCB-011	2050-67-1	ng/g	230	14.0	372 JEB	1190 JEB	< 0.0488 U	< 0.0484 U	< 0.0449 U	< 0.0481 U	< 0.0498 UJ	< 0.0487 UJ	< 0.0497 U	< 0.0498 U
PCB-012/013	PCB-12/13	ng/g	230	14.0	753 J	939 J	< 0.0878 U	< 0.0872 U	< 0.0809 U	< 0.0866 U	< 0.0896 UJ	< 0.0877 UJ	< 0.0895 U	< 0.0897 U
PCB-014	34883-41-5	ng/g	230	14.0	< 0.351 U	20.8 J	< 0.0489 U	< 0.0486 U	< 0.0451 U	< 0.0483 U	< 0.0500 UJ	< 0.0489 UJ	< 0.0499 U	< 0.0500 U
PCB-015	2050-68-2	ng/g	230	14.0	2920 J	1950 J	< 0.0449 U	1.60 J	< 0.0414 U	< 0.0443 U	0.940 J	< 0.0448 UJ	< 0.0457 U	< 0.0458 U
PCB-016/032	PCB-16/32	ng/g	230	14.0	10300 JEB	24700 JEB	2.00 J	2.84 J	1.99 J	1.70 J	< 0.130 UJ	< 0.127 UJ	< 0.130 U	< 0.130 U
PCB-017	37680-66-3	ng/g	230	14.0	6830 JEB	11600 JEB	1.34 J	1.33 J	0.879 J	0.925 J	3.65 J	< 0.0561 UJ	< 0.0572 U	< 0.0574 U
PCB-018	37680-65-2	ng/g	230	14.0	2870 JEB	8750 JEB	1.59 J	1.76 J	1.09 J	< 0.0640 U	2.00 J	< 0.0648 UJ	< 0.0661 U	< 0.0663 U
PCB-019	38444-73-4	ng/g	230	14.0	8800 J	52700 J	< 0.0441 U	2.17 J	2.16 J	1.56 J	< 0.0450 UJ	< 0.0440 UJ	< 0.0450 U	< 0.0451 U
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	320 JEB	862 JEB	< 0.136 U	< 0.135 U	< 0.125 U	< 0.134 U	< 0.139 UJ	< 0.136 UJ	< 0.139 U	< 0.139 U
PCB-022	38444-85-8	ng/g	230	14.0	944 J	979 J	< 0.0484 U	< 0.0481 U	< 0.0446 U	< 0.0477 U	< 0.0494 UJ	< 0.0483 UJ	< 0.0493 U	< 0.0494 U
PCB-023/034	PCB-23/34	ng/g	230	14.0	227 J	1600 J	< 0.0884 U	< 0.0878 U	< 0.0815 U	< 0.0872 U	< 0.0902 UJ	< 0.0883 UJ	< 0.0901 U	< 0.0903 U
PCB-024/027	PCB-24/27	ng/g	230	14.0	3540 J	22500 J	< 0.0859 U	< 0.0853 U	0.688 J	0.795 J	< 0.0876 UJ	< 0.0858 UJ	< 0.0875 U	< 0.0877 U
PCB-025	55712-37-3	ng/g	230	14.0	1890 J	2680 J	< 0.0497 U	< 0.0494 U	< 0.0458 U	< 0.0491 U	< 0.0507 UJ	< 0.0497 UJ	< 0.0507 U	< 0.0508 U
PCB-026	38444-81-4	ng/g	230	14.0	4060 J	11900 J	< 0.0423 U	< 0.0421 U	< 0.0390 U	< 0.0418 U	< 0.0432 UJ	< 0.0423 UJ	< 0.0432 U	< 0.0433 U
PCB-028	7012-37-5	ng/g	230	14.0	1830 JEB	1760 JEB	3.41 J	3.00 J	1.68 J	0.600 J	3.99 J	< 0.0466 UJ	< 0.0475 U	< 0.0476 U
PCB-029	15862-07-4	ng/g	230	14.0	< 0.366 U	31.0 J	< 0.0511 U	< 0.0508 U	< 0.0471 U	< 0.0504 U	< 0.0521 UJ	< 0.0510 UJ	< 0.0521 U	< 0.0522 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0070-PLC1	23A-0070-PLC1	23A-0071-PLC1	23A-0072-PLC1	23A-0072-PLC1	23A-0073-PLC1	23A-0074-PLC1	23A-0075-PLC1	23A-0076-PLC1	23A-0077-PLC1
					Sample Name	23A-0070-PLC1-BS	23A-0070-PLC1-CS	23A-0071-PLC1-AS	23A-0072-PLC1-AS	23A-0072-PLC1-AT	23A-0073-PLC1-AS	23A-0074-PLC1-AS	23A-0075-PLC1-AS	23A-0076-PLC1-AS	23A-0077-PLC1-AS
					Sample Date	6/23/2023	6/23/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023
					Sample Type	N	N	N	N	FD	N	N	N	N	N
					Depth Interval	0.5 - 2.3 ft	2.3 - 4.2 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-030	35693-92-6	ng/g	230	14.0		9.62 J	38.4 J	< 0.0468 U	< 0.0465 U	< 0.0432 U	< 0.0462 U	< 0.0478 UJ	< 0.0468 UJ	< 0.0477 U	< 0.0478 U
PCB-031	16606-02-3	ng/g	230	14.0		6060 JEB	11700 JEB	2.49 J	2.36 J	0.964 J	0.898 J	2.24 J	< 0.0588 UJ	< 0.0600 U	< 0.0601 U
PCB-035	37680-69-6	ng/g	230	14.0		21.0 J+	64.0 J	< 0.0556 U	< 0.0552 U	< 0.0512 U	< 0.0548 U	< 0.0567 UJ	< 0.0555 UJ	< 0.0566 U	< 0.0568 U
PCB-036	38444-87-0	ng/g	230	14.0		10.6 J	78.6 J	< 0.0474 U	< 0.0471 U	< 0.0437 U	< 0.0468 U	< 0.0484 UJ	< 0.0473 UJ	< 0.0483 U	< 0.0484 U
PCB-037	38444-90-5	ng/g	230	14.0		447 J	505 J	< 0.0521 U	< 0.0517 U	< 0.0480 U	< 0.0514 U	< 0.0531 UJ	< 0.0520 UJ	< 0.0531 U	< 0.0532 U
PCB-038	53555-66-1	ng/g	230	14.0		94.5 J	428 J	< 0.0392 U	< 0.0390 U	< 0.0362 U	< 0.0387 U	< 0.0400 UJ	< 0.0392 UJ	< 0.0400 U	< 0.0401 U
PCB-039	38444-88-1	ng/g	230	14.0		44.3 J	150 J	< 0.0241 U	< 0.0239 U	< 0.0222 U	< 0.0238 U	< 0.0246 UJ	< 0.0241 UJ	< 0.0246 U	< 0.0246 U
PCB-040	38444-93-8	ng/g	230	14.0		126 J	135 J	< 0.0402 U	< 0.0399 U	< 0.0371 U	< 0.0397 U	< 0.0410 UJ	< 0.0402 UJ	< 0.0410 U	< 0.0411 U
PCB-041/064	PCB-41/64	ng/g	230	14.0		714 J	921 J	1.39 J	2.05 J	1.51 J	< 0.0901 U	2.01 J	< 0.0912 UJ	< 0.0931 U	0.308 J
PCB-042	36559-22-5	ng/g	230	14.0		808 J	1540 J	< 0.100 U	< 0.0998 U	< 0.0926 U	< 0.0991 U	< 0.102 UJ	< 0.100 UJ	< 0.102 U	< 0.103 U
PCB-043/049	PCB-43/49	ng/g	230	14.0		4570 J	20800 J	3.02 J	4.84 J	3.98 J	0.941 J	8.52 J	< 0.106 UJ	< 0.108 U	0.782 J
PCB-044	41464-39-5	ng/g	230	14.0		1050 JEB	1510 JEB	2.34 J	4.00 J	3.37 J	< 0.0527 U	5.15 J	< 0.0534 UJ	< 0.0545 U	0.431 J
PCB-045	70362-45-7	ng/g	230	14.0		209	312	< 0.0437 U	< 0.0434 U	< 0.0403 U	< 0.0431 U	< 0.0446 UJ	< 0.0437 UJ	< 0.0446 U	< 0.0447 U
PCB-046	41464-47-5	ng/g	230	14.0		194	696 J	< 0.0511 U	< 0.0508 U	< 0.0471 U	< 0.0504 U	< 0.0521 UJ	< 0.0510 UJ	< 0.0521 U	< 0.0522 U
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0		3740 J	17600 J	2.30 J	2.13 J	2.16 J	0.996 J	2.95 J	< 0.167 UJ	< 0.170 U	0.345 J
PCB-050	62796-65-0	ng/g	230	14.0		80.6 J	448 J	< 0.0624 U	< 0.0619 U	< 0.0575 U	< 0.0615 U	< 0.0636 UJ	< 0.0623 UJ	< 0.0636 U	< 0.0637 U
PCB-051	68194-04-7	ng/g	230	14.0		1220 J	6730 J	< 0.0530 U	< 0.0527 U	< 0.0489 U	< 0.0523 U	< 0.0541 UJ	< 0.0530 UJ	< 0.0541 U	< 0.0542 U
PCB-052/073	PCB-52/73	ng/g	230	14.0		3610 JEB	13900 JEB	3.68 J	7.53 J	6.67 J	1.26 J	10.9 J	1.65 J	0.485 J	0.997 J
PCB-053	41464-41-9	ng/g	230	14.0		1830 J	13300 J	< 0.0472 U	1.18 J	1.24 J	< 0.0466 U	1.25 J	< 0.0471 UJ	< 0.0481 U	< 0.0482 U
PCB-054	15968-05-5	ng/g	230	14.0		169	1320 J	< 0.0414 U	< 0.0411 U	< 0.0381 U	< 0.0408 U	< 0.0422 UJ	< 0.0413 UJ	< 0.0422 U	< 0.0423 U
PCB-055	74338-24-2	ng/g	230	14.0		4.95 J	< 0.451 UJ	< 0.0538 U	< 0.0535 U	< 0.0496 U	< 0.0531 U	< 0.0549 UJ	< 0.0537 UJ	< 0.0549 U	< 0.0550 U
PCB-056/060	PCB-56/60	ng/g	230	14.0		156 JEB	97.6 JEB	2.55 J	2.66 J	1.49 J	< 0.104 U	3.26 J	< 0.105 UJ	< 0.107 U	< 0.107 U
PCB-057	70424-67-8	ng/g	230	14.0		79.1 J	514 J	< 0.0416 U	< 0.0413 U	< 0.0383 U	< 0.0410 U	< 0.0424 UJ	< 0.0415 UJ	< 0.0424 U	< 0.0425 U
PCB-058	41464-49-7	ng/g	230	14.0		6.18 J	17.9 J	< 0.0377 U	< 0.0374 U	< 0.0347 U	< 0.0372 U	< 0.0385 UJ	< 0.0376 UJ	< 0.0384 U	< 0.0385 U
PCB-059	74472-33-6	ng/g	230	14.0		63.0 J	74.6 J	< 0.0738 U	< 0.0733 U	< 0.0680 U	< 0.0728 U	< 0.0753 UJ	< 0.0737 UJ	< 0.0753 U	< 0.0754 U
PCB-061/074	PCB-61/74	ng/g	230	14.0		337 J	392 J	1.56 J	1.91 J	1.34 J	< 0.0956 U	3.18 J	< 0.0968 UJ	< 0.0988 U	0.312 J
PCB-062	54230-22-7	ng/g	230	14.0		< 0.369 U	< 0.432 UJ	< 0.0515 U	< 0.0511 U	< 0.0475 U	< 0.0508 U	< 0.0525 UJ	< 0.0514 UJ	< 0.0525 U	< 0.0526 U
PCB-063	74472-34-7	ng/g	230	14.0		297 J	1880 J	< 0.0387 U	< 0.0384 U	< 0.0356 U	< 0.0381 U	< 0.0394 UJ	< 0.0386 UJ	< 0.0394 U	< 0.0395 U
PCB-065	33284-54-7	ng/g	230	14.0		< 0.532 U	40.9 J	< 0.0742 U	< 0.0737 U	< 0.0684 U	< 0.0732 U	< 0.0757 UJ	< 0.0741 UJ	< 0.0757 U	< 0.0758 U
PCB-066/080	PCB-66/80	ng/g	230	14.0		439 JEB	827 JEB	3.62 J	4.40 J	3.55 J	0.712 J	6.27 J	< 0.0939 UJ	< 0.0959 U	0.542 J
PCB-067	73575-53-8	ng/g	230	14.0		27.9 J	49.6 J	< 0.0455 U	< 0.0452 U	< 0.0419 U	< 0.0448 U	< 0.0464 UJ	< 0.0454 UJ	< 0.0463 U	< 0.0464 U
PCB-068	73575-52-7	ng/g	230	14.0		106 J	672 J	< 0.0538 U	< 0.0535 U	< 0.0496 U	< 0.0531 U	< 0.0549 UJ	< 0.0537 UJ	< 0.0549 U	< 0.0550 U
PCB-069	60233-24-1	ng/g	230	14.0		35.8 J	170 J	< 0.0559 U	< 0.0556 U	< 0.0516 U	< 0.0552 U	< 0.0571 UJ	< 0.0559 UJ	< 0.0570 U	< 0.0572 U
PCB-070	32598-11-1	ng/g	230	14.0		304 J	405 J	3.83 J	4.79 J	3.99 J	0.576 J	7.40 J	< 0.0504 UJ	0.353 J	0.655 J
PCB-071	41464-46-4	ng/g	230	14.0		1160 J	2060 J	0.881 J	1.37 J	1.22 J	< 0.0675 U	3.03 J	< 0.0683 UJ	< 0.0697 U	0.266 J
PCB-072	41464-42-0	ng/g	230	14.0		135 J	714 J	< 0.0606 U	< 0.0602 U	< 0.0559 U	< 0.0598 U	< 0.0618 UJ	< 0.0605 UJ	< 0.0618 U	< 0.0619 U
PCB-076	70362-48-0	ng/g	230	14.0		< 0.533 U	< 0.624 UJ	< 0.0744 U	< 0.0739 U	< 0.0686 U	< 0.0734 U	< 0.0759 UJ	< 0.0743 UJ	< 0.0759 U	< 0.0760 U
PCB-077	32598-13-3	ng/g	38.0	14.0		90.8 J+	125 J+	< 0.0439 U	< 0.0436 U	< 0.0405 U	< 0.0433 U	< 0.0448 UJ	< 0.0438 UJ	< 0.0448 U	< 0.0449 U
PCB-078	70362-49-1	ng/g	230	14.0		< 0.273 U	< 0.319 UJ	< 0.0381 U	< 0.0378 U	< 0.0351 U	< 0.0376 U	< 0.0389 UJ	< 0.0380 UJ	< 0.0388 U	< 0.0389 U
PCB-079	41464-48-6	ng/g	230	14.0		< 0.343 U	< 0.401 UJ	< 0.0478 U	< 0.0475 U	< 0.0441 U	< 0.0471 U	< 0.0488 UJ	< 0.0477 UJ	< 0.0487 U	< 0.0488 U
PCB-081	70362-50-4	ng/g	12.0	14.0		< 0.535 U	< 0.626 U	< R	< R	< R	< R	< 0.0761 UJ	< 0.0745 UJ	< 0.0761 U	< 0.0762 U
PCB-082	52663-62-4	ng/g	230	14.0		40.0 J	62.5 J	< 0.0274 U	< 0.0272 U	< 0.0252 U	< 0.0270 U	1.90 J	< 0.0274 UJ	< 0.0279 U	< 0.0280 U
PCB-083/109	PCB-83/109	ng/g	230	14.0		58.8 J	277 J	< 0.118 U	< 0.117 U	< 0.109 U	< 0.116 U	< 0.120 UJ	< 0.118 UJ	< 0.120 U	< 0.120 U
PCB-084	52663-60-2	ng/g	230	14.0		174	574 J	< 0.0474 U	1.68 J	2.06 J	< 0.0468 U	4.98 J	< 0.0473 UJ	< 0.0483 U	< 0.0484 U
PCB-085/120	PCB-85/120	ng/g	230	14.0		92.1 J	144 J	< 0.106 U	1.64 J	1.75 J	< 0.104 U	4.45 J	< 0.106 UJ	< 0.108 U	< 0.108 U
PCB-086/097	PCB-86/97	ng/g	230	14.0		88.3 J	279 J	< 0.0464 U	2.42 J	2.24 J	< 0.0458 U	6.40 J	< 0.0464 UJ	< 0.0473 U	< 0.0474 U
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0		< 0.214 UJ	< 0.251 UJ	< 0.0299 U	< 0.0297 U	< 0.0276 U	< 0.0295 U	< 0.0305 UJ	1.32 J	< 0.0305 U	< 0.0306 U
PCB-088/121	PCB-88/121	ng/g	230	14.0		< 0.776 U	29.8 J	< 0.108 U	< 0.107 U	< 0.0997 U	< 0.107 U	< 0.110 UJ	< 0.108 UJ	< 0.110 U	< 0.111 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0		389 J	3040 J	2.67 J	7.56 J	8.53 J	1.69 J	22.4 J	4.02 J	1.09 J	1.37 J
PCB-091	68194-05-8	ng/g	230	14.0		381 J	2120 J	< 0.0606 U	1.14 J	< 0.0559 U	< 0.0598 U	3.13 J	< 0.0605 UJ	< 0.0618 U	< 0.0619 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0070-PLC1	23A-0070-PLC1	23A-0071-PLC1	23A-0072-PLC1	23A-0072-PLC1	23A-0073-PLC1	23A-0074-PLC1	23A-0075-PLC1	23A-0076-PLC1	23A-0077-PLC1
					Sample Name	23A-0070-PLC1-BS	23A-0070-PLC1-CS	23A-0071-PLC1-AS	23A-0072-PLC1-AS	23A-0072-PLC1-AT	23A-0073-PLC1-AS	23A-0074-PLC1-AS	23A-0075-PLC1-AS	23A-0076-PLC1-AS	23A-0077-PLC1-AS
					Sample Date	6/23/2023	6/23/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023
					Sample Type	N	N	N	N	FD	N	N	N	N	N
					Depth Interval	0.5 - 2.3 ft	2.3 - 4.2 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-092	52663-61-3	ng/g	230	14.0	269	2390 J	< 0.0266 U	1.02 J	< 0.0245 U	< 0.0263 U	3.70 J	< 0.0266 UJ	< 0.0271 U	< 0.0272 U
PCB-093/095	PCB-93/95	ng/g	230	14.0	407 J	1230 J	< 0.0783 UJ	6.37 J	6.39 J	1.22 J	16.4 J	2.86 J	0.709 J	1.11 J
PCB-094	73575-55-0	ng/g	230	14.0	47.7 J	593 J	< 0.0894 U	< 0.0888 U	< 0.0824 U	< 0.0882 U	< 0.0912 UJ	< 0.0893 UJ	< 0.0911 U	< 0.0913 U
PCB-096	73575-54-9	ng/g	230	14.0	28.7 J	140 J	< 0.0422 U	< 0.0419 U	< 0.0389 U	< 0.0416 U	< 0.0430 UJ	< 0.0421 UJ	< 0.0430 U	< 0.0431 U
PCB-098/102	PCB-98/102	ng/g	230	14.0	95.1 J	296 J	< 0.0781 U	< 0.0776 U	< 0.0720 U	< 0.0770 U	1.03 J	< 0.0780 UJ	< 0.0796 U	< 0.0798 U
PCB-099	38380-01-7	ng/g	230	14.0	245	953 J	< 0.0431 U	3.47 J	3.55 J	< 0.0425 U	9.65 J	1.87 J	< 0.0440 U	0.549 J
PCB-100	39485-83-1	ng/g	230	14.0	66.8 J	702 J	< 0.0476 U	< 0.0473 U	< 0.0439 U	< 0.0470 U	< 0.0486 UJ	< 0.0475 UJ	< 0.0485 U	< 0.0486 U
PCB-103	60145-21-3	ng/g	230	14.0	48.7 J	402 J	< 0.0491 U	< 0.0488 U	< 0.0453 U	< 0.0485 U	< 0.0502 UJ	< 0.0491 UJ	< 0.0501 U	< 0.0502 U
PCB-104	56558-16-8	ng/g	230	14.0	5.16 J	53.7 J	< 0.0455 U	< 0.0452 U	< 0.0419 U	< 0.0448 U	< 0.0464 UJ	< 0.0454 UJ	< 0.0463 U	< 0.0464 U
PCB-105/127	PCB-105/127	ng/g	120	14.0	92.0 J	153 J	< 0.0771 U	2.39 J	3.27 J	< 0.0761 U	7.23 J	< 0.0770 UJ	< 0.0786 U	< 0.0788 U
PCB-106/118	PCB-106/118	ng/g	120	14.0	265	957 J	2.69 J	6.40 J	8.00 J	1.74 J	21.8 J	3.77 J	1.16 J	1.32 J
PCB-107/108	PCB-107/108	ng/g	230	14.0	41.6 J	275	< 0.0946 U	< 0.0940 U	< 0.0872 U	< 0.0933 U	< 0.0965 UJ	< 0.0945 UJ	< 0.0964 U	< 0.0967 U
PCB-110	38380-03-9	ng/g	230	14.0	729 J	2260 J	3.90 J	9.46 J	10.9 J	2.53 J	27.4 J	4.71 J	1.39 J	2.09 J
PCB-111/117	PCB-111/117	ng/g	230	14.0	193 J	1060 J	< 0.134 U	2.74 J	3.19 J	< 0.132 U	7.75 J	1.44 J	< 0.137 U	< 0.137 U
PCB-112	74472-36-9	ng/g	230	14.0	9.63 J	77.4 J	< 0.0468 U	< 0.0465 U	< 0.0432 U	< 0.0462 U	< 0.0478 UJ	< 0.0468 UJ	< 0.0477 U	< 0.0478 U
PCB-113	68194-10-5	ng/g	230	14.0	8.55 J	24.8 J	< 0.0491 U	< 0.0488 U	< 0.0453 U	< 0.0485 U	< 0.0502 UJ	< 0.0491 UJ	< 0.0501 U	< 0.0502 U
PCB-114	74472-37-0	ng/g	120	14.0	10.6 J	22.7 J	< 0.0408 U	< 0.0405 U	< 0.0376 U	< 0.0402 U	< 0.0416 UJ	< 0.0407 UJ	< 0.0416 U	< 0.0417 U
PCB-119	56558-17-9	ng/g	230	14.0	74.6 J	444 J	< 0.0540 U	< 0.0536 U	< 0.0498 U	< 0.0533 U	< 0.0551 UJ	< 0.0539 UJ	< 0.0551 U	< 0.0552 U
PCB-122	76842-07-4	ng/g	230	14.0	< 0.246 U	< 0.288 U	< 0.0344 U	< 0.0342 U	< 0.0317 U	< 0.0339 U	< 0.0351 UJ	< 0.0343 UJ	< 0.0351 U	< 0.0351 U
PCB-123	65510-44-3	ng/g	120	14.0	13.4 J+	38.8 J+	< 0.0319 U	< 0.0316 U	< 0.0294 U	< 0.0314 U	< 0.0325 UJ	< 0.0318 UJ	< 0.0325 U	< 0.0325 U
PCB-124	70424-70-3	ng/g	230	14.0	7.90 J	< 0.360 U	< 0.0429 U	< 0.0426 U	< 0.0396 U	< 0.0424 U	< 0.0438 UJ	< 0.0429 UJ	< 0.0438 U	< 0.0439 U
PCB-125	74472-39-2	ng/g	230	14.0	4.78 J	27.1 J	< 0.0470 U	< 0.0467 U	< 0.0433 U	< 0.0464 U	< 0.0480 UJ	< 0.0470 UJ	< 0.0479 U	< 0.0480 U
PCB-126	57465-28-8	ng/g	0.0360	14.0	< 0.479 U	73.8 J	< 0.0668 U	< 0.0664 U	< 0.0616 U	< 0.0659 U	< 0.0682 UJ	< 0.0667 UJ	< 0.0681 U	< 0.0683 U
PCB-128	38380-07-3	ng/g	230	14.0	55.4 J	180 J	< 0.0472 U	1.14 J	1.48 J	< 0.0466 U	6.91 J	< 0.0471 UJ	< 0.0481 U	< 0.0482 U
PCB-129	55215-18-4	ng/g	230	14.0	9.83 J	45.8 J	< 0.0519 U	< 0.0515 U	< 0.0478 U	< 0.0512 U	< 0.0529 UJ	< 0.0518 UJ	< 0.0529 U	< 0.0530 U
PCB-130	52663-66-8	ng/g	230	14.0	23.3 J	125 J	< 0.0408 U	< 0.0405 U	< 0.0376 U	< 0.0402 U	1.51 J	< 0.0407 UJ	< 0.0416 U	< 0.0417 U
PCB-131/142	PCB-131/142	ng/g	230	14.0	4.36 J	< 0.842 U	< 0.100 U	< 0.0998 U	< 0.0926 U	< 0.0991 U	< 0.102 UJ	< 0.100 UJ	< 0.102 U	< 0.103 U
PCB-132/168	PCB-132/168	ng/g	230	14.0	101 J	439 J	< 0.118 U	2.13 J	2.00 J	0.765 J	9.05 J	1.87 J	< 0.120 U	0.576 J
PCB-133	35694-04-3	ng/g	230	14.0	14.2 J	248	< 0.0365 U	< 0.0363 U	< 0.0337 U	< 0.0360 U	< 0.0373 UJ	< 0.0365 UJ	< 0.0372 U	< 0.0373 U
PCB-134	52704-70-8	ng/g	230	14.0	22.5 J	144 J	< 0.0967 U	< 0.0961 U	< 0.0892 U	< 0.0954 U	1.35 J	< 0.0966 UJ	< 0.0986 U	< 0.0988 U
PCB-135/144	PCB-135/144	ng/g	230	14.0	57.1 J	348 J	< 0.102 U	< 0.101 U	< 0.0937 U	< 0.100 U	3.79 J	< 0.101 UJ	< 0.104 U	< 0.104 U
PCB-136	38411-22-2	ng/g	230	14.0	48.9 J	280 J	< 0.0847 U	0.619 J	0.768 J	< 0.0836 U	2.84 J	0.480 J	< 0.0863 U	0.174 J
PCB-137	35694-06-5	ng/g	230	14.0	20.0 J	80.7 J	< 0.0474 U	< 0.0471 U	< 0.0437 U	< 0.0468 U	1.84 J	< 0.0473 UJ	< 0.0483 U	< 0.0484 U
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	343 J	1900 J	2.26 J	7.05 J	8.33 J	3.19 J	31.7 J	7.13 J	1.57 J	2.28 J
PCB-139/149	PCB-139/149	ng/g	230	14.0	229 J	1130 J	1.26 J	4.21 J	4.34 J	1.47 J	16.7 J	3.53 J	0.715 J	1.25 J
PCB-140	59291-64-4	ng/g	230	14.0	< 0.496 U	33.7 J	< 0.0692 U	< 0.0687 U	< 0.0637 U	< 0.0682 U	< 0.0706 UJ	< 0.0691 UJ	< 0.0705 U	< 0.0707 U
PCB-141	52712-04-6	ng/g	230	14.0	32.1 J	113 J	< 0.0486 U	0.898 J	< 0.0448 U	< 0.0479 U	5.16 J	< 0.0485 UJ	< 0.0495 U	< 0.0496 U
PCB-143	68194-15-0	ng/g	230	14.0	< 0.447 U	< 0.523 U	< 0.0624 U	< 0.0619 U	< 0.0575 U	< 0.0615 U	< 0.0636 UJ	< 0.0623 UJ	< 0.0636 U	< 0.0637 U
PCB-145	74472-40-5	ng/g	230	14.0	< 0.590 U	< 0.691 U	< 0.0824 U	< 0.0818 U	< 0.0759 U	< 0.0813 U	< 0.0840 UJ	< 0.0823 UJ	< 0.0840 U	< 0.0842 U
PCB-146	51908-16-8	ng/g	230	14.0	46.9 J	476 J	< 0.0557 U	0.615 J	< 0.0514 U	< 0.0550 U	3.11 J	0.692 J	< 0.0568 U	< 0.0570 U
PCB-147	68194-13-8	ng/g	230	14.0	46.8 J	693 J	< 0.0726 U	< 0.0722 U	< 0.0670 U	< 0.0717 U	< 0.0741 UJ	< 0.0726 UJ	< 0.0741 U	< 0.0742 U
PCB-148	74472-41-6	ng/g	230	14.0	3.05 J	67.4 J	< 0.0761 U	< 0.0756 U	< 0.0702 U	< 0.0751 U	< 0.0777 UJ	< 0.0761 UJ	< 0.0776 U	< 0.0778 U
PCB-150	68194-08-1	ng/g	230	14.0	5.27 J	61.6 J	< 0.0769 U	< 0.0764 U	< 0.0709 U	< 0.0759 U	< 0.0785 UJ	< 0.0768 UJ	< 0.0784 U	< 0.0786 U
PCB-151	52663-63-5	ng/g	230	14.0	78.2 J	732 J	< 0.0557 U	0.856 J	< 0.0514 U	< 0.0550 U	4.15 J	0.885 J	< 0.0568 U	0.293 J
PCB-152	68194-09-2	ng/g	230	14.0	4.00 J	64.6 J	< 0.0899 U	< 0.0893 U	< 0.0829 U	< 0.0887 U	< 0.0918 UJ	< 0.0898 UJ	< 0.0917 U	< 0.0919 U
PCB-153	35065-27-1	ng/g	230	14.0	202	1080 J	1.37 J	4.33 J	5.00 J	2.01 J	20.3 J	4.19 J	1.01 J	1.52 J
PCB-154	60145-22-4	ng/g	230	14.0	20.3 J	251	< 0.0536 U	< 0.0533 U	< 0.0494 U	< 0.0529 U	< 0.0547 UJ	< 0.0536 UJ	< 0.0547 U	< 0.0548 U
PCB-155	33979-03-2	ng/g	230	14.0	< 0.331 U	< 0.388 U	< 0.0462 U	< 0.0459 U	< 0.0426 U	< 0.0456 U	< 0.0472 UJ	< 0.0462 UJ	< 0.0471 U	< 0.0472 U
PCB-156	38380-08-4	ng/g	120	14.0	28.3 J	92.6 J	< 0.0388 U	< 0.0386 U	< 0.0358 U	< 0.0383 U	2.57 J	< 0.0388 R	< 0.0396 R	< 0.0397 R
PCB-157	69782-90-7	ng/g	120	14.0	9.46 J+	37.0 J	< 0.0540 U	< 0.0536 U	< 0.0498 U	< 0.0533 U	< 0.0551 UJ	< 0.0539 UJ	< 0.0551 UJ	< 0.0552 UJ

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0070-PLC1	23A-0070-PLC1	23A-0071-PLC1	23A-0072-PLC1	23A-0072-PLC1	23A-0073-PLC1	23A-0074-PLC1	23A-0075-PLC1	23A-0076-PLC1	23A-0077-PLC1
					Sample Name	23A-0070-PLC1-BS	23A-0070-PLC1-CS	23A-0071-PLC1-AS	23A-0072-PLC1-AS	23A-0072-PLC1-AT	23A-0073-PLC1-AS	23A-0074-PLC1-AS	23A-0075-PLC1-AS	23A-0076-PLC1-AS	23A-0077-PLC1-AS
					Sample Date	6/23/2023	6/23/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023
					Sample Type	N	N	N	N	FD	N	N	N	N	N
					Depth Interval	0.5 - 2.3 ft	2.3 - 4.2 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-158/160	PCB-158/160	ng/g	230	14.0		29.0 J	89.7 J	< 0.118 U	0.741 J	0.682 J	< 0.117 U	3.08 J	0.770 J	< 0.121 U	< 0.121 U
PCB-159	39635-35-3	ng/g	230	14.0		< 0.535 U	24.3 J	< 0.0746 U	< 0.0741 U	< 0.0688 U	< 0.0736 U	< 0.0761 UJ	< 0.0745 UJ	< 0.0761 U	< 0.0762 U
PCB-161	74472-43-8	ng/g	230	14.0		< 0.500 U	< 0.585 U	< 0.0697 U	< 0.0693 U	< 0.0643 U	< 0.0688 U	< 0.0712 UJ	< 0.0697 UJ	< 0.0711 U	< 0.0713 U
PCB-162	39635-34-2	ng/g	230	14.0		< 0.394 U	< 0.461 U	< 0.0550 U	< 0.0546 U	< 0.0507 U	< 0.0542 U	< 0.0561 UJ	< 0.0549 UJ	< 0.0560 U	< 0.0562 U
PCB-165	74472-46-1	ng/g	230	14.0		< 0.540 U	24.3 J	< 0.0754 U	< 0.0749 U	< 0.0695 U	< 0.0744 U	< 0.0769 UJ	< 0.0753 UJ	< 0.0768 U	< 0.0770 U
PCB-166	41411-63-6	ng/g	230	14.0		< 0.465 U	< 0.544 U	< 0.0649 U	< 0.0645 U	< 0.0598 U	< 0.0640 U	< 0.0662 UJ	< 0.0648 UJ	< 0.0661 U	< 0.0663 U
PCB-167	52663-72-6	ng/g	120	14.0		12.2 J	40.9 J	< 0.0499 U	< 0.0496 U	< 0.0460 U	< 0.0493 U	1.21 J	< 0.0499 UJ	< 0.0509 U	< 0.0510 U
PCB-169	32774-16-6	ng/g	0.120	14.0		< 0.394 U	< 0.461 U	< 0.0550 U	< 0.0546 U	< 0.0507 U	< 0.0542 U	< 0.0561 UJ	< 0.0549 UJ	< 0.0560 U	< 0.0562 U
PCB-170/190	PCB-170/190	ng/g	230	14.0		77.0 J	438 J	< 0.0905 U	0.876 J	0.729 J	< 0.0893 U	5.41 J	< 0.0904 UJ	< 0.0923 U	< 0.0925 U
PCB-171	52663-71-5	ng/g	230	14.0		19.3 J	111 J	< 0.0719 U	< 0.0714 U	< 0.0663 U	< 0.0709 U	1.53 J	< 0.0718 UJ	< 0.0733 U	< 0.0734 U
PCB-172/192	PCB-172/192	ng/g	230	14.0		12.2 J	86.9 J	< 0.119 U	< 0.118 U	< 0.110 U	< 0.118 U	0.774 J	< 0.119 UJ	< 0.122 U	< 0.122 U
PCB-173	68194-16-1	ng/g	230	14.0		< 0.576 U	< 0.675 U	< 0.0804 U	< 0.0799 U	< 0.0741 U	< 0.0793 U	< 0.0821 UJ	< 0.0803 UJ	< 0.0820 U	< 0.0822 U
PCB-174	38411-25-5	ng/g	230	14.0		56.7 J	382 J	< 0.101 U	< 0.100 U	0.799 J	< 0.0995 U	5.50 J	1.13 J	< 0.103 U	0.436 J
PCB-175	40186-70-7	ng/g	230	14.0		< 0.444 U	< 0.520 U	< 0.0620 U	< 0.0616 U	< 0.0571 U	< 0.0611 U	< 0.0632 UJ	< 0.0619 UJ	< 0.0632 U	< 0.0633 U
PCB-176	52663-65-7	ng/g	230	14.0		7.29 J	60.6 J	< 0.0579 U	< 0.0575 U	< 0.0534 U	< 0.0571 U	0.575 J	< 0.0578 UJ	< 0.0590 U	< 0.0591 U
PCB-177	52663-70-4	ng/g	230	14.0		42.9 J	372 J	< 0.0723 U	< 0.0718 U	< 0.0666 U	< 0.0713 U	2.78 J	< 0.0722 UJ	< 0.0737 U	< 0.0738 U
PCB-178	52663-67-9	ng/g	230	14.0		20.5 J	248	< 0.0907 U	< 0.0901 U	< 0.0836 U	< 0.0895 U	1.06 J	< 0.0906 UJ	< 0.0925 U	< 0.0927 U
PCB-179	52663-64-6	ng/g	230	14.0		28.5 J	300 J	< 0.0480 U	< 0.0477 U	< 0.0442 U	< 0.0473 U	1.82 J	0.352 J	< 0.0489 U	< 0.0490 U
PCB-180	35065-29-3	ng/g	230	14.0		142	870 J	< 0.0639 U	1.63 J	1.69 J	1.03 J	10.8 J	2.45 J	0.431 J	1.12 J
PCB-181	74472-47-2	ng/g	230	14.0		< 0.394 U	< 0.461 U	< 0.0550 U	< 0.0546 U	< 0.0507 U	< 0.0542 U	< 0.0561 UJ	< 0.0549 UJ	< 0.0560 U	< 0.0562 U
PCB-182/187	PCB-182/187	ng/g	230	14.0		92.8 J	896 J	< 0.145 U	0.912 J	0.917 J	< 0.143 U	6.05 J	1.32 J	< 0.147 U	0.565 J
PCB-183	52663-69-1	ng/g	230	14.0		35.4 J	195 J	< 0.0719 U	< 0.0714 U	< 0.0663 U	< 0.0709 U	2.58 J	0.515 J	< 0.0733 U	< 0.0734 U
PCB-184	74472-48-3	ng/g	230	14.0		< 0.373 U	< 0.437 U	< 0.0521 U	< 0.0517 U	< 0.0480 U	< 0.0514 U	< 0.0531 UJ	< 0.0520 UJ	< 0.0531 U	< 0.0532 U
PCB-185	52712-05-7	ng/g	230	14.0		6.31 J	31.6 J	< 0.0721 U	< 0.0716 U	< 0.0664 U	< 0.0711 U	0.701 J	< 0.0720 UJ	< 0.0735 U	< 0.0736 U
PCB-186	74472-49-4	ng/g	230	14.0		< 0.466 U	< 0.546 U	< 0.0651 U	< 0.0646 U	< 0.0600 U	< 0.0642 U	< 0.0664 UJ	< 0.0650 UJ	< 0.0663 U	< 0.0665 U
PCB-188	74487-85-7	ng/g	230	14.0		< 0.427 U	12.5 J	< 0.0596 U	< 0.0592 U	< 0.0550 U	< 0.0588 U	< 0.0609 UJ	< 0.0596 UJ	< 0.0608 U	< 0.0609 U
PCB-189	39635-31-9	ng/g	130	14.0		4.74 J	28.9 J	< 0.0606 U	< 0.0602 U	< 0.0559 U	< 0.0598 U	< 0.0618 UJ	< 0.0605 UJ	< 0.0618 U	< 0.0619 U
PCB-191	74472-50-7	ng/g	230	14.0		2.23 J	15.0 J	< 0.0548 U	< 0.0544 U	< 0.0505 U	< 0.0540 U	< 0.0559 UJ	< 0.0547 UJ	< 0.0558 U	< 0.0560 U
PCB-193	69782-91-8	ng/g	230	14.0		8.64 J	97.2 J	< 0.0692 U	< 0.0687 U	< 0.0637 U	< 0.0682 U	0.537 J	< 0.0691 UJ	< 0.0705 U	< 0.0707 U
PCB-194	35694-08-7	ng/g	230	14.0		61.5 J	597 J	< 0.0874 U	< 0.0868 U	< 0.0806 U	< 0.0862 U	3.56 J	1.31 J	< 0.0891 U	< 0.0893 U
PCB-195	52663-78-2	ng/g	230	14.0		21.7 J	182	< 0.155 U	< 0.154 U	< 0.143 U	< 0.153 U	1.79 J	< 0.155 UJ	< 0.158 U	< 0.158 U
PCB-196/203	PCB-196/203	ng/g	230	14.0		63.7 J	525 J	< 0.147 U	< 0.146 U	< 0.135 U	< 0.145 U	4.14 J	1.13 J	< 0.150 U	< 0.150 U
PCB-197	33091-17-7	ng/g	230	14.0		< 0.469 U	16.8 J	< 0.0655 U	< 0.0650 U	< 0.0603 U	< 0.0646 U	< 0.0668 UJ	< 0.0654 UJ	< 0.0667 U	< 0.0669 U
PCB-198	68194-17-2	ng/g	230	14.0		< 0.762 U	< 0.891 U	< 0.106 U	< 0.106 U	< 0.0980 U	< 0.105 U	< 0.108 UJ	< 0.106 UJ	< 0.108 U	< 0.109 U
PCB-199	52663-75-9	ng/g	230	14.0		54.7 J	495 J	< 0.102 U	< 0.102 U	< 0.0942 U	< 0.101 U	3.99 J	0.821 J	< 0.104 U	< 0.104 U
PCB-200	52663-73-7	ng/g	230	14.0		7.73 J	54.6 J	< 0.0521 U	< 0.0517 U	< 0.0480 U	< 0.0514 U	0.456 J	< 0.0520 UJ	< 0.0531 U	< 0.0532 U
PCB-201	40186-71-8	ng/g	230	14.0		7.50 J	62.1 J	< 0.0412 U	< 0.0409 U	< 0.0380 U	< 0.0406 U	0.380 J	< 0.0411 UJ	< 0.0420 U	< 0.0421 U
PCB-202	2136-99-4	ng/g	230	14.0		9.51 J	98.9 J	< 0.0703 U	< 0.0699 U	< 0.0648 U	< 0.0694 U	0.782 J	< 0.0702 UJ	< 0.0717 U	< 0.0718 U
PCB-204	74472-52-9	ng/g	230	14.0		< 0.617 U	< 0.722 U	< 0.0860 U	< 0.0855 U	< 0.0793 U	< 0.0849 U	< 0.0878 UJ	< 0.0860 UJ	< 0.0877 U	< 0.0879 U
PCB-205	74472-53-0	ng/g	230	14.0		< 0.437 U	30.5 J	< 0.0610 U	< 0.0606 U	< 0.0562 U	< 0.0602 U	< 0.0622 UJ	< 0.0609 UJ	< 0.0622 U	< 0.0623 U
PCB-206	40186-72-9	ng/g	230	14.0		28.3 J	230	< 0.0585 U	2.15 J	< 0.0539 U	< 0.0577 U	5.28 J	1.71 J	< 0.0596 U	0.620 J
PCB-207	52663-79-3	ng/g	230	14.0		< 0.554 U	23.6 J	< 0.0773 U	< 0.0768 U	< 0.0713 U	< 0.0763 U	0.551 J	< 0.0772 UJ	< 0.0788 U	< 0.0790 U
PCB-208	52663-77-1	ng/g	230	14.0		6.54 J	55.9 J	< 0.0773 U	1.38 J	< 0.0713 U	< 0.0763 U	2.36 J	0.526 J	< 0.0788 U	0.300 J
PCB-209	2051-24-3	ng/g	230	14.0		9.38 J	34.1 J	< 0.0445 U	2.12 J	< 0.0410 U	0.597 J	6.93 J	2.13 J	< 0.0454 U	0.939 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0		9.38	34.1	< 0.0445 U	2.12	< 0.041 U	0.597	6.93	2.13	< 0.0454 U	0.939
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0		557	4140	< 0.145 U	3.42	4.14	1.03	40.1	5.77	0.431	2.12
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0		1450	8800	4.89	22.6	22.6	7.43	115	19.5	3.30	6.09
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0		226	2060	< 0.155 U	< 0.154 U	< 0.143 U	< 0.153 U	15.1	3.26	< 0.158 U	< 0.158 U
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0		192000	853000	52.8	135	119	35.0	391	54.6	8.91	21.2
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0		3890	18700	9.26	46.3	49.9	7.18	138	20.0	4.35	6.44
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0		82200	383000	2.67	6.71	2.79	6.40	1.44	< 0.0916 U	< 0.0935 U	< 0.0937 U
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0		34000	196000	< 0.0526 U	< 0.0523 U	< 0.0485 U	1.38	< 0.0537 U	< 0.0526 U	< 0.0537 U	< 0.0538 U
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0		34.8	310	< 0.0773 U	3.53	< 0.0713 U	< 0.0763 U	8.19	2.24	< 0.0788 U	0.920
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0		21600	87300	25.2	36.9	30.5	4.49	53.9	1.65	0.838	4.64
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0		48300	153000	10.8	13.5	9.45	6.48	11.9	< 0.136 U	< 0.139 U	< 0.139 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0070-PLC1	23A-0070-PLC1	23A-0071-PLC1	23A-0072-PLC1	23A-0072-PLC1	23A-0073-PLC1	23A-0074-PLC1	23A-0075-PLC1	23A-0076-PLC1	23A-0077-PLC1
				Sample Name	23A-0070-PLC1-BS	23A-0070-PLC1-CS	23A-0071-PLC1-AS	23A-0072-PLC1-AS	23A-0072-PLC1-AT	23A-0073-PLC1-AS	23A-0074-PLC1-AS	23A-0075-PLC1-AS	23A-0076-PLC1-AS	23A-0077-PLC1-AS
				Sample Date	6/23/2023	6/23/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023
				Sample Type	N	N	N	N	FD	N	N	N	N	N
				Depth Interval	0.5 - 2.3 ft	2.3 - 4.2 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700	25000	7300	9400	5600 J	3900 J	940 J	3000 J	11000 J	13000	7800	3900
Calcium	7440-70-2	mg/kg			2600	2800	1900	1500	640	640	5100	5200	1800	1700
Iron	7439-89-6	mg/kg	5500	20000	15000	16000	13000 J	15000 J	5100 J	5600 J	18000 J	12000	8400	9900
Magnesium	7439-95-4	mg/kg			2100	2500	1900 J	1300 J	< 590 UJ	1100 J	2900 J	2100	2100	1700
Potassium	7440-09-7	mg/kg			400 J	540 J	410 J	390 J	190 J	190 J	940	740	450 J	380 J
Sodium	7440-23-5	mg/kg			370 J	380 J	190 J	81 J	78 J	83 J	860	670	110 J-	110 J-
Antimony	7440-36-0	mg/kg	3.1	2	< 2.6 U	2.9	0.94 J-	0.059 J-	0.085 J-	0.39 J-	1.1 J-	0.98	< 1.4 U	< 1.4 U
Arsenic	7440-38-2	mg/kg	0.68	9.8	13 J	8.1 J	3.6 J	1.1 J	1.1 J	0.66 J	12 J	11 J	1.5 J	3.7 J
Barium	7440-39-3	mg/kg	1500	20	110	110	26	24	16	25	140	320 J	42 J	24 J
Beryllium	7440-41-7	mg/kg	16		0.67 J	0.65 J	0.33 J	< 0.56 U	0.097 J	< 0.56 U	0.72	1.4	0.36 J	0.19 J
Cadmium	7440-43-9	mg/kg	0.71	1	3.8	4.1	0.27 J	< 0.56 U	0.081 J	< 0.56 U	2.4	1.4 J	0.18 J	0.91 J
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	93 JEB	92 JEB	12 EB	12 EB	7.5 EB	5.9 EB	81 EB	100 JEB	12 JEB	55 JEB
Cobalt	7440-48-4	mg/kg	2.3	50	8.7 J	7.5 J	1.7 J	1.6 J	1.1 J	1.5 J	9.9 J	6.1 J	1.7 J	3.3 J
Copper	7440-50-8	mg/kg	310	31.6	140 J	200 J	44 J	15 J	20 J	24 J	170 J	110 J	91 J	30 J
Lead	7439-92-1	mg/kg	200	35.8	460	380	68 J	40 J	30 J	35 J	310 J	190 J	23 J	41 J
Manganese	7439-96-5	mg/kg	180	460	400 JEB	310 JEB	100 EB	120 EB	92 EB	310 EB	390 EB	310 JEB	140 JEB	190 JEB
Nickel	7440-02-0	mg/kg	140	22.7	20 J	20 J	4.6 J	4.6 J	4.5 J	3.4 J	18 J	11 J	4.2 J	6.5 J
Selenium	7782-49-2	mg/kg	39	11	< 6.4 U	< 5.0 U	1.5 J	< 2.8 U	< 2.6 U	< 2.8 U	2.5	3.6	< 3.4 U	1.1 J
Silver	7440-22-4	mg/kg	39	1	0.89 J	1.1	0.084 J	0.070 J	0.031 J	0.023 J	0.40 J	0.39 J	0.063 J	0.027 J
Thallium	7440-28-0	mg/kg	0.078		< 1.3 U	0.13 J	< 0.64 U	< 0.56 U	< 0.53 U	< 0.56 U	0.14 J	0.12 J	0.050 J	< 0.70 U
Vanadium	7440-62-2	mg/kg	39		39	50	7.4	6.1	3.5	6.5	28	19 J	4.4 J	7.2 J
Zinc	7440-66-6	mg/kg	2300	121	410 J	500 J	39 JEB	80 JEB	67 JEB	33 JEB	410 JEB	190 JEB	46 JEB	260 JEB
Mercury	7439-97-6	mg/kg	2.3	0.18	1.7	3.0	0.054 J	0.056 J	< 0.10 U	0.026 J	0.73	0.70	0.70	0.040 J-
Total Cyanide														
CYANIDE	57-12-5	mg/kg	2.3		< 1.3 U	< 1.2 U	< 0.84 U	< 0.68 U	< 0.56 U	< 0.62 U	0.27 J	< 0.50 UJ	< 0.73 UJ	< 0.80 UJ
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 16 UJ	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 UJ	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 UJ
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 16 UJ	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 UJ	< 21 UJ	< 21 UJ	< 11 U	< 6.6 UJ
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	3.7 J+	< 12 U	2.8 J+	< 6.9 U	< 6.3 U	< 6.1 U	5.9 J	< 21 UJ	< 11 U	< 6.6 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 16 UJ	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 16 UJ	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 UJ	< 21 UJ	< 21 UJ	< 11 U	< 6.6 UJ
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 16 UJ	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 16 UJ	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 UJ	< 21 UJ	< 21 UJ	< 11 U	< 6.6 UJ
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 16 UJ	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 UJ	< 21 UJ	< 21 UJ	< 11 U	< 6.6 UJ
2-HEXANONE	591-78-6	ug/kg	20000	45	< 33 U	< 24 U	< 19 UJ	< 14 U	< 13 U	< 12 U	< 43 UJ	< 42 UJ	< 22 U	< 13 U
ACETONE	67-64-1	ug/kg	7000000	65	610 EB	530 EB	220	< 14 U	< 13 U	60	540 J	< 42 UJ	< 22 U	< 13 U
Benzene	71-43-2	ug/kg	1200	10	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0070-PLC1	23A-0070-PLC1	23A-0071-PLC1	23A-0072-PLC1	23A-0072-PLC1	23A-0073-PLC1	23A-0074-PLC1	23A-0075-PLC1	23A-0076-PLC1	23A-0077-PLC1
				Sample Name	23A-0070-PLC1-BS	23A-0070-PLC1-CS	23A-0071-PLC1-AS	23A-0072-PLC1-AS	23A-0072-PLC1-AT	23A-0073-PLC1-AS	23A-0074-PLC1-AS	23A-0075-PLC1-AS	23A-0076-PLC1-AS	23A-0077-PLC1-AS
				Sample Date	6/23/2023	6/23/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023
				Sample Type	N	N	N	N	FD	N	N	N	N	N
				Depth Interval	0.5 - 2.3 ft	2.3 - 4.2 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 16 UJ	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 16 U	5.0 J	< 9.4 U	< 6.9 U	< 6.3 U	2.9 J	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Chlorobenzene	108-90-7	ug/kg	28000	30	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 UJ	< 21 UJ	< 21 UJ	< 11 U	< 6.6 UJ
CHLOROETHANE	75-00-3	ug/kg	540000		< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Chloroform	67-66-3	ug/kg	320	87	< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 16 U	< 12 U	< 9.4 UJ	< 6.9 UJ	< 6.3 UJ	< 6.1 UJ	2.1 J	< 21 UJ	< 11 U	< 6.6 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Cyclohexane	110-82-7	ug/kg	650000		< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Ethylbenzene	100-41-4	ug/kg	5800	290	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 16 UJ	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 16 U	< 12 U	27	< 6.9 U	< 6.3 U	2.5 J	8.7 J	< 21 UJ	< 11 U	< 6.6 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	170 EB	150 EB	17 J	< 14 U	< 13 U	9.9 J	67 J	< 42 UJ	< 22 U	< 13 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 33 U	< 24 U	< 19 UJ	< 14 U	< 13 U	< 12 U	< 43 UJ	< 42 UJ	< 22 U	< 13 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 16 U	28	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Methylene Chloride	75-09-2	ug/kg	35000	18	< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 16 U	3.3 J	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Styrene	100-42-5	ug/kg	600000	126	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Toluene	108-88-3	ug/kg	490000	10	< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 16 U	< 12 U	< 9.4 UJ	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 16 U	< 12 U	< 9.4 UJ	1.3 J	0.97 J	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
Vinyl Chloride	75-01-4	ug/kg	59	482	< 16 U	< 12 U	< 9.4 U	< 6.9 U	< 6.3 U	< 6.1 U	< 21 UJ	< 21 UJ	< 11 U	< 6.6 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 450 U	< 420 U	< 1100 UJ	< 6000 UJ	< 860 UJ	< 5800 UJ	< 6600 UJ	< 6300 UJ	< 1400 UJ	< 1100 UJ
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	< 440 U	< 2400 U	< 340 U	< 2300 U	< 2600 UJ	< 2500 UJ	< 560 U	< 440 U
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	< 1100 UJ	< 6000 UJ	< 860 UJ	< 5800 UJ	< 6600 UJ	< 6300 UJ	< 1400 UJ	< 1100 UJ
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 450 U	< 420 U	< 1100 UJ	< 6000 UJ	< 860 UJ	< 5800 UJ	< 6600 UJ	< 6300 UJ	< 1400 UJ	< 1100 UJ
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 450 U	< 420 U	< 1100 R	< 6000 R	< 860 R	< 5800 R	< 6600 R	< 6300 R	< 1400 R	< 1100 R
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 450 U	< 420 U	< 1100 R	< 6000 R	< 860 R	< 5800 R	< 6600 R	< 6300 R	< 1400 R	< 1100 R
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 450 U	< 420 U	< 1100 R	< 6000 R	< 860 R	< 5800 R	< 6600 R	< 6300 R	< 1400 R	< 1100 R
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
2-NITROANILINE	88-74-4	ug/kg	63000		< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 450 U	< 420 U	< 1100 UJ	< 6000 UJ	< 860 UJ	< 5800 UJ	< 6600 UJ	< 6300 UJ	< 1400 UJ	< 1100 UJ
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0070-PLC1	23A-0070-PLC1	23A-0071-PLC1	23A-0072-PLC1	23A-0072-PLC1	23A-0073-PLC1	23A-0074-PLC1	23A-0075-PLC1	23A-0076-PLC1	23A-0077-PLC1
				Sample Name	23A-0070-PLC1-BS	23A-0070-PLC1-CS	23A-0071-PLC1-AS	23A-0072-PLC1-AS	23A-0072-PLC1-AT	23A-0073-PLC1-AS	23A-0074-PLC1-AS	23A-0075-PLC1-AS	23A-0076-PLC1-AS	23A-0077-PLC1-AS
				Sample Date	6/23/2023	6/23/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023
				Sample Type	N	N	N	N	FD	N	N	N	N	N
				Depth Interval	0.5 - 2.3 ft	2.3 - 4.2 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 880 UJ	< 810 UJ	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	< 1100 R	< 6000 R	< 860 R	< 5800 R	< 6600 R	< 6300 R	< 1400 R	< 1100 R
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
Acetophenone	98-86-2	ug/kg	780000		520 J	390 J	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	630 J
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 880 U	< 810 U	< 2200 UJ	< 12000 UJ	< 1700 UJ	< 11000 UJ	< 13000 UJ	< 12000 UJ	< 2800 UJ	< 2100 UJ
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	710	-	< 1100 U	4000 J	800 J	2800 J	5100 J	< 6300 UJ	< 1400 U	1400
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	< 1100 U	3400 J	750 J	< 5800 U	4900 J	< 6300 UJ	< 1400 U	1100
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	740	-	< 1100 U	4100 J	950 J	3300 J	7200 J	< 6300 UJ	< 1400 U	1400
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	< 1100 U	2000 J	490 J	< 5800 U	3400 J	< 6300 UJ	< 1400 U	590 J
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 450 U	< 420 U	< 1100 UJ	< 6000 UJ	< 860 UJ	< 5800 UJ	< 6600 UJ	< 6300 UJ	< 1400 UJ	< 1100 UJ
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	780	520	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
Caprolactam	105-60-2	ug/kg	3100000		< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
CARBAZOLE	86-74-8	ug/kg	240000	69	180 J	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
CHRYSENE	218-01-9	ug/kg	110000	166	750	-	< 1100 U	4300 J	890 J	2800 J	6100 J	< 6300 UJ	< 1400 U	1300
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
Dibenzofuran	132-64-9	ug/kg	7800	510	150 J	< 420 U	< 1100 UJ	< 6000 UJ	< 860 UJ	< 5800 UJ	< 6600 UJ	< 6300 UJ	< 1400 UJ	< 1100 UJ
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
FLUORANTHENE	206-44-0	ug/kg	240000	423	1700	-	< 1100 U	9100 J	1900 J	6500 J	12000 J	< 6300 UJ	< 1400 U	3400 J
FLUORENE	86-73-7	ug/kg	240000	77	-	-	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 450 U	< 420 U	< 1100 R	< 6000 R	< 860 R	< 5800 R	< 6600 R	< 6300 R	< 1400 R	< 1100 R
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 880 U	< 810 U	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	< 1100 U	2600 J	600 J	< 5800 U	4700 J	< 6300 UJ	< 1400 U	840 J
ISOPHORONE	78-59-1	ug/kg	570000	876	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
Naphthalene	91-20-3	ug/kg	2000	176	-	-	< 1100 R	< 6000 R	< 860 R	< 5800 R	< 6600 R	< 6300 R	< 1400 R	< 1100 R
NITROBENZENE	98-95-3	ug/kg	5100	407	< 450 U	< 420 U	< 1100 R	< 6000 R	< 860 R	< 5800 R	< 6600 R	< 6300 R	< 1400 R	< 1100 R
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 450 U	< 420 U	< 1100 UJ	< 6000 UJ	< 860 UJ	< 5800 UJ	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 450 U	< 420 U	< 1100 U	< 6000 U	< 860 U	< 5800 U	< 6600 UJ	< 6300 UJ	< 1400 U	< 1100 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	< 2200 U	< 12000 U	< 1700 U	< 11000 U	< 13000 UJ	< 12000 UJ	< 2800 U	< 2100 U
PHENANTHRENE	85-01-8	ug/kg	1800000	204	1800	-	< 1100 U	9000 J	1600 J	4600 J	7800 J	< 6300 UJ	< 1400 U	2600
PHENOL	108-95-2	ug/kg	1900000	175	100 J	86 J	< 2200 UJ	< 12000 UJ	< 1700 UJ	< 11000 UJ	< 13000 UJ	< 12000 UJ	< 2800 UJ	< 2100 UJ
PYRENE	129-00-0	ug/kg	180000	195	970	-	< 1100 U	9100 J	1600 J	4900 J	9300 J	< 6300 UJ	< 1400 U	2500 J

Table 11
Sediment Analytical Results
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Lower Neponset River
Boston, Massachusetts

					Location	23A-0070-PLC1	23A-0070-PLC1	23A-0071-PLC1	23A-0072-PLC1	23A-0072-PLC1	23A-0073-PLC1	23A-0074-PLC1	23A-0075-PLC1	23A-0076-PLC1	23A-0077-PLC1
					Sample Name	23A-0070-PLC1-BS	23A-0070-PLC1-CS	23A-0071-PLC1-AS	23A-0072-PLC1-AS	23A-0072-PLC1-AT	23A-0073-PLC1-AS	23A-0074-PLC1-AS	23A-0075-PLC1-AS	23A-0076-PLC1-AS	23A-0077-PLC1-AS
					Sample Date	6/23/2023	6/23/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023
					Sample Type	N	N	N	N	FD	N	N	N	N	N
					Depth Interval	0.5 - 2.3 ft	2.3 - 4.2 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 18 U	< 16 U	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	49	22	-	-	-	-	-	-	-	-
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	65	11	-	-	-	-	-	-	-	-
Acenaphthene	83-32-9	ug/kg	360000	6.7	290 J	17 J	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	15	9.8 J-	-	-	-	-	-	-	-	-
ANTHRACENE	120-12-7	ug/kg	1800000	57	340	24 J-	-	-	-	-	-	-	-	-
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	120 J-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	260	81 J-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	120 J-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	10 J-	54 J-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	350	42 J-	-	-	-	-	-	-	-	-
CHRYSENE	218-01-9	ug/kg	110000	166	-	160	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	86 J-	15 J-	-	-	-	-	-	-	-	-
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	310	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	270	25 J-	-	-	-	-	-	-	-	-
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	170	46 J-	-	-	-	-	-	-	-	-
Naphthalene	91-20-3	ug/kg	2000	176	120 EB	45 EB	-	-	-	-	-	-	-	-
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 18 U	< 17 U	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	140	-	-	-	-	-	-	-	-
PYRENE	129-00-0	ug/kg	180000	195	-	290 J	-	-	-	-	-	-	-	-
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			180000	170000 J	76000	7000	5900	4600	180000 J	110000 J	14000	19000
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			-	-	-	-	-	-	-	-	-	-
Cadmium	7440-43-9	umol/g			-	-	-	-	-	-	-	-	-	-
Copper	7440-50-8	umol/g			-	-	-	-	-	-	-	-	-	-
Lead	7439-92-1	umol/g			-	-	-	-	-	-	-	-	-	-
Nickel	7440-02-0	umol/g			-	-	-	-	-	-	-	-	-	-
Silver	7440-22-4	umol/g			-	-	-	-	-	-	-	-	-	-
Zinc	7440-66-6	umol/g			-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	umol/g			-	-	-	-	-	-	-	-	-	-

Table 11
Sediment Analytical Results
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				Location	23A-0078-PLC1	23A-0079-PLC1	23A-0080-PLC1	23A-0080-PLC1	23A-0081-PLC1	23A-0083-PLC1	23A-0084-PLC1	23A-0085-PLC1	23A-0086-PLC1	23A-0087-PLC1
				Sample Name	23A-0078-PLC1-AS	23A-0079-PLC1-AS	23A-0080-PLC1-AS	23A-0080-PLC1-AT	23A-0081-PLC1-AS	23A-0083-PLC1-AS	23A-0084-PLC1-AS	23A-0085-PLC1-AS	23A-0086-PLC1-AS	23A-0087-PLC1-AS
				Sample Date	11/9/2023	10/30/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023
				Sample Type	N	N	N	FD	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL Pesticides														
ALDRIN	309-00-2	ug/kg	39	29	< 14 U	-	< 6.0 UJ	< 6.0 UJ	< 7.2 U	< 2.2 UJ	< 3.5 UJ	< 4.8 U	< 5.8 UJ	-
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	< 14 U	-	< 6.0 R	< 6.0 R	< 7.2 U	< 2.2 R	< 3.5 R	< 4.8 U	< 5.8 R	-
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		< 14 U	-	< 6.0 UJ	< 6.0 UJ	< 7.2 U	< 2.2 UJ	< 3.5 UJ	< 4.8 U	< 5.8 UJ	-
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	< 14 U	-	< 6.0 UJ	< 6.0 UJ	< 7.2 U	< 2.2 UJ	< 3.5 UJ	< 4.8 U	< 5.8 UJ	-
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	< 28 U	-	< 12 UJ	< 12 UJ	< 14 U	< 4.3 UJ	< 6.8 UJ	< 9.3 U	< 11 UJ	-
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		< 14 U	-	< 6.0 UJ	< 6.0 UJ	< 7.2 U	< 2.2 UJ	< 3.5 UJ	< 4.8 U	< 5.8 UJ	-
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		< 14 U	-	< 6.0 UJ	< 6.0 UJ	< 7.2 U	< 2.2 UJ	< 3.5 UJ	< 4.8 U	< 5.8 UJ	-
DIELDRIN	60-57-1	ug/kg	34	1.9	< 28 U	-	< 12 UJ	< 12 UJ	< 14 U	< 4.3 UJ	5.5 J	< 9.3 U	< 11 UJ	-
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	< 28 U	-	< 12 UJ	< 12 UJ	< 14 U	< 4.3 UJ	< 6.8 UJ	< 9.3 U	< 11 UJ	-
ENDRIN	72-20-8	ug/kg	1900	2.22	< 28 U	-	< 12 UJ	< 12 UJ	< 14 U	< 4.3 UJ	< 6.8 UJ	< 9.3 U	< 11 UJ	-
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		< 28 U	-	< 12 UJ	< 12 UJ	< 14 U	< 4.3 UJ	< 6.8 UJ	< 9.3 U	< 11 UJ	-
ENDRIN KETONE	53494-70-5	ug/kg	1900		< 28 U	-	< 12 UJ	< 12 UJ	< 14 U	< 4.3 UJ	< 6.8 UJ	< 9.3 U	< 11 UJ	-
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	< 14 U	-	< 6.0 UJ	< 6.0 UJ	< 7.2 U	< 2.2 UJ	< 3.5 UJ	< 4.8 U	< 5.8 UJ	-
HEPTACHLOR	76-44-8	ug/kg	130	0.6	< 14 U	-	< 6.0 UJ	< 6.0 UJ	< 7.2 U	< 2.2 UJ	< 3.5 UJ	< 4.8 U	< 5.8 UJ	-
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	< 14 U	-	< 6.0 UJ	< 6.0 UJ	< 7.2 U	< 2.2 UJ	< 3.5 UJ	< 4.8 U	< 5.8 UJ	-
METHOXYCHLOR	72-43-5	ug/kg	32000	30	< 140 U	-	< 60 UJ	< 60 UJ	< 72 U	< 22 UJ	< 35 UJ	< 48 U	< 58 UJ	-
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	< 28 U	-	14 J	13 J-	< 14 U	1.8 J-	7.3 J-	5.9 J	13 J	-
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	< 28 U	-	< 12 UJ	< 12 UJ	23 J	< 4.3 UJ	< 6.8 UJ	< 9.3 U	< 11 UJ	-
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	< 28 U	-	12 J	81 J	12 J	< 4.3 UJ	6.5 J	5.9 J	11 J	-
TOXAPHENE	8001-35-2	ug/kg	490	0.1	< 1400 U	-	< 600 UJ	< 600 UJ	< 720 U	< 220 UJ	< 350 UJ	< 480 U	< 580 UJ	-
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		< 14 U	-	< 6.0 UJ	< 6.0 UJ	< 7.2 U	< 2.2 UJ	< 3.5 UJ	< 4.8 U	< 5.8 UJ	-
Grain Size														
%CLAY	%CLAY	%			0	-	0	0	0	0	0	0	3.1	-
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			20.8	-	0.6	0.7	1.6	2.2	0.9	0.2	1	-
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			9.5	-	46.6	42.9	73	75.6	73.6	85.7	41	-
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			21.3	-	7.9	3.1	8.3	9.6	2	2.3	3.7	-
Gravel	GRAVEL	%			32.7	-	0.3	0.5	5.8	1	0.1	0	0.4	-
Hydrometer, Reading 1, Percent Passing	HYD01	%			0.7	-	8.5	3.2	7.4	1	2	1.2	3.1	-
Hydrometer, Reading 2, Percent Passing	HYD02	%			0.7	-	3.4	0	4.6	1	2	1.2	3.1	-
Hydrometer, Reading 3, Percent Passing	HYD03	%			0.7	-	0	0	1.9	1	0	1.2	3.1	-
Hydrometer, Reading 4, Percent Passing	HYD04	%			0	-	0	0	0	1	0	1.2	3.1	-
Hydrometer, Reading 5, Percent Passing	HYD05	%			0	-	0	0	0	0	0	0	3.1	-
Hydrometer, Reading 6, Percent Passing	HYD06	%			0	-	0	0	0	0	0	0	3.1	-
Hydrometer, Reading 7, Percent Passing	HYD07	%			0	-	0	0	0	0	0	0	3.1	-
Sand	308075-07-2	%			51.6	-	55.1	46.7	82.9	87.4	76.5	88.2	45.7	-
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			46.5	-	99.1	98.8	92.6	96.8	99	99.8	98.6	-
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			25.2	-	91.2	95.7	84.3	87.2	97	97.5	94.9	-
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			17.6	-	81.2	89.9	45.6	26.2	85.9	42.9	90.5	-
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			37	-	96.4	97.7	90	94.5	98.3	99.3	96.2	-
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			19.5	-	85.8	93.6	68.2	52.7	94.3	63.2	93.1	-
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			16.8	-	77.1	86.1	35.6	19.5	75.8	28.1	84.7	-
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			15.7	-	44.6	52.8	11.3	11.6	23.4	11.8	53.9	-
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			67.3	-	99.7	99.5	94.2	99	99.9	100	99.6	-
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			93.5	-	100	99.9	96.7	100	100	100	100	-
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			100	-	100	100	100	100	100	100	100	-
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			100	-	100	100	100	100	100	100	100	-
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			100	-	100	100	100	100	100	100	100	-
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			100	-	100	100	100	100	100	100	100	-
SILT	445	%			15.7	-	44.6	52.8	11.3	11.6	23.4	11.8	50.8	-

Table 11
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					Location	23A-0078-PLC1	23A-0079-PLC1	23A-0080-PLC1	23A-0080-PLC1	23A-0081-PLC1	23A-0083-PLC1	23A-0084-PLC1	23A-0085-PLC1	23A-0086-PLC1	23A-0087-PLC1
					Sample Name	23A-0078-PLC1-AS	23A-0079-PLC1-AS	23A-0080-PLC1-AS	23A-0080-PLC1-AT	23A-0081-PLC1-AS	23A-0083-PLC1-AS	23A-0084-PLC1-AS	23A-0085-PLC1-AS	23A-0086-PLC1-AS	23A-0087-PLC1-AS
					Sample Date	11/9/2023	10/30/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023
					Sample Type	N	N	N	FD	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	19.6 J	47.6	2710 J	2530 J	927	768	1230	393	1960 J	1730 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	< 0.292 U	0.753 J	40.6 J	38.6 J	13.1	9.06	20.2	6.53	32.9 J	27.0 J
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	0.578 JN	0.881 JN	24.0 J	22.1 J	8.28	6.02	10.7	4.04	17.7 J	15.6 J
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	1.94 J	1.68 J	84.5 J	81.9 J	21.8	13.0	34.6	21.8	73.6 J	53.0 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	1.08 J	3.46	136 J	128 J	47.0	48.5	62.9	22.0	102 J	90.8 J
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	1.41 J	1.17 J	44.7 J	43.7 J	12.9	5.65	18.1	9.33	33.8 J	29.5 J
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	0.95 J	1.80 JN	73.5 J	70.3 J	25.6	23.6	33.3	12.3	53.5 J	51.5 J
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.337 U	< 0.309 U	< 1.12 UJ	< 1.63 UJ	< 0.898 U	< 0.616 U	< 0.964 U	< 0.804 U	< 1.25 UJ	< 1.27 UJ
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	0.369 JN	0.298 JN	10.2 J	9.94 JN	4.11 JN	2.25 J	4.43 J	1.79 JN	9.09 J	7.73 J
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	0.363 JN	< 0.251 U	11.0 J	9.58 J	3.68	1.45 J	4.07	1.86 JN	7.30 J	7.08 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	15.1	24.5	1650 J	1650 J	490	377	741	316	1220 J	1170 J
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	1.56 J	1.45 J	37.2 J	37.1 J	11.7	6.27	17.9	6.61	28.8 J	26.7 J
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	2.47 J	1.62 J	29.6 J	28.1 J	10.2	5.29	12.8	6.46	22.3 J	19.8 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	< 0.419 U	< 0.927 UJ	2.59 J	2.32 J	1.03 J	0.424 JN	1.13 J	0.357 JN	1.82 J	1.6 JN
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	0.439 JN	0.448 J	16.8 J	16.3 J	6.87	2.56	7.09	3.00	12.1 J	11.3 J
OCDD	3268-87-9	pg/g	16000	5000	156 EB	255	18000 J	16600 J	6390	4440	8060	2260	12500 J	11100 J
OCDF	39001-02-0	pg/g	16000	5000	18.4 JN	19.3	1490 J	1440 J	508	316	840	236	1140 J	1030 J
Total HpCDD (a)	RA_Total_HpCDD	pg/g			19.6	47.6	2710	2530	927	768	1230	393	1960	1730
Total HpCDF (a)	RA_Total_HpCDF	pg/g			15.1	25.3	1690	1690	503	386	761	323	1250	1200
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		2.61	6.14	234	220	80.9	78.1	107	38.3	173	158
Total HxCDF (a)	RA_Total_HxCDF	pg/g			4.91	4.30	166	163	46.4	24.9	70.6	37.7	136	109
Total PeCDD (a)	RA_Total_PeCDD	pg/g			0.369	0.298	10.2	9.94	4.11	2.25	4.43	1.79	9.09	7.73
Total PeCDF (a)	RA_Total_PeCDF	pg/g			2.83	1.62	40.6	37.7	13.9	6.74	16.9	8.32	29.6	26.9
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.419 U	< 0.927 U	2.59	2.32	1.03	0.424	1.13	0.357	1.82	1.6
Total TCDF (a)	RA_Total_TCDF	pg/g			0.439	0.448	16.8	16.3	6.87	2.56	7.09	3.00	12.1	11.3
PCB Congeners															
PCB-001	2051-60-7	ng/g	230	14.0	< 0.0357 U	0.339 J	4.88 J	5.10 J	2.71 J	< 0.0363 U	< 0.0368 U	2.37 J	1.51 J	0.775 J
PCB-002	2051-61-8	ng/g	230	14.0	< 0.0515 U	< 0.0502 U	< 0.0535 UJ	< 0.0532 UJ	< 0.0531 U	< 0.0524 U	< 0.0530 U	< 0.0530 U	< 0.0541 UJ	< 0.0534 UJ
PCB-003	2051-62-9	ng/g	230	14.0	< 0.0502 U	< 0.0489 U	0.611 J	0.681 J	< 0.0518 U	< 0.0510 U	< 0.0517 U	< 0.0516 U	< 0.0527 UJ	< 0.0520 UJ
PCB-004/010	PCB-4/10	ng/g	230	14.0	< 0.0897 U	1.68 J	20.5 J	21.0 J	23.1	0.944 J	2.38 J	10.1 J	8.57 J	4.99 J
PCB-005/008	PCB-5/8	ng/g	230	14.0	< 0.0857 U	0.909 J	8.76 J	10.0 J	5.25 J	0.731 J	1.58 J	3.31 J	4.87 J	2.80 J
PCB-006	25569-80-6	ng/g	230	14.0	< 0.0500 U	< 0.0487 U	7.18 J	8.51 J	1.89 J	< 0.0508 U	0.584 J	< 0.0514 U	< 0.0525 UJ	1.11 J
PCB-007/009	PCB-7/9	ng/g	230	14.0	< 0.0866 U	< 0.0845 U	1.12 J	1.44 J	< 0.0894 U	< 0.0881 U	< 0.0893 U	< 0.0892 U	< 0.0909 UJ	< 0.0898 UJ
PCB-011	2050-67-1	ng/g	230	14.0	< 0.0477 U	< 0.0465 U	0.795 J	0.901 J	< 0.0492 U	< 0.0485 U	< 0.0491 U	< 0.0491 U	< 0.0501 UJ	< 0.0494 UJ
PCB-012/013	PCB-12/13	ng/g	230	14.0	< 0.0859 U	< 0.0838 U	< 0.0893 UJ	0.792 J	< 0.0886 U	< 0.0874 U	< 0.0885 U	< 0.0884 U	< 0.0901 UJ	< 0.0890 UJ
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0479 U	< 0.0467 U	< 0.0498 UJ	< 0.0495 UJ	< 0.0494 U	< 0.0487 U	< 0.0493 U	< 0.0493 U	< 0.0503 UJ	< 0.0496 UJ
PCB-015	2050-68-2	ng/g	230	14.0	< 0.0439 U	3.56 J	4.51 J	5.23 J	1.88 J	0.744 J	1.08 J	< 0.0452 U	3.26 J	2.02 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	< 0.125 U	4.92 J	14.1 J	15.2 J	5.55 J	1.34 J	3.70 J	5.26 J	8.52 J	7.99 J
PCB-017	37680-66-3	ng/g	230	14.0	< 0.0549 U	1.94 J	13.8 J	14.9 J	6.02 J	1.47 J	5.78 J	4.95 J	9.63 J	8.72 J
PCB-018	37680-65-2	ng/g	230	14.0	< 0.0635 U	1.27 J	14.7 J	16.4 J	6.25 J	0.790 J	3.21 J	2.13 J	5.59 J	6.61 J
PCB-019	38444-73-4	ng/g	230	14.0	< 0.0431 U	1.91 J	6.16 J	6.04 J	3.76 J	0.562 J	1.88 J	3.98 J	4.53 J	3.63 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	< 0.133 U	< 0.130 U	6.62 J	5.86 J	< 0.137 U	< 0.135 U	2.20 J	< 0.137 U	< 0.140 UJ	4.83 J
PCB-022	38444-85-8	ng/g	230	14.0	< 0.0473 U	0.588 J	3.58 J	3.76 J	< 0.0488 U	< 0.0481 U	0.729 J	< 0.0487 U	< 0.0497 UJ	1.34 J
PCB-023/034	PCB-23/34	ng/g	230	14.0	< 0.0864 U	< 0.0843 U	< 0.0899 UJ	< 0.0893 UJ	< 0.0892 U	< 0.0879 U	< 0.0891 U	< 0.0890 U	< 0.0907 UJ	< 0.0896 UJ
PCB-024/027	PCB-24/27	ng/g	230	14.0	< 0.0840 U	1.08 J	3.39 J	3.89 J	1.93 J	0.304 J	1.36 J	1.75 J	2.96 J	2.35 J
PCB-025	55712-37-3	ng/g	230	14.0	< 0.0486 U	1.09 J	4.60 J	5.38 J	1.37 J	< 0.0495 U	1.23 J	< 0.0501 U	2.84 J	2.26 J
PCB-026	38444-81-4	ng/g	230	14.0	< 0.0414 U	1.72 J	7.54 J	8.23 J	3.21 J	0.657 J	2.12 J	2.02 J	5.09 J	4.18 J
PCB-028	7012-37-5	ng/g	230	14.0	< 0.0456 U	4.50 J	12.3 J	13.3 J	5.07 J	1.22 J	3.33 J	2.12 J	5.49 J	6.40 J
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0500 U	< 0.0487 U	< 0.0519 UJ	< 0.0516 UJ	< 0.0516 U	< 0.0508 U	< 0.0515 U	< 0.0514 U	< 0.0525 UJ	< 0.0518 UJ

Table 11
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					Location	23A-0078-PLC1	23A-0079-PLC1	23A-0080-PLC1	23A-0080-PLC1	23A-0081-PLC1	23A-0083-PLC1	23A-0084-PLC1	23A-0085-PLC1	23A-0086-PLC1	23A-0087-PLC1
					Sample Name	23A-0078-PLC1-AS	23A-0079-PLC1-AS	23A-0080-PLC1-AS	23A-0080-PLC1-AT	23A-0081-PLC1-AS	23A-0083-PLC1-AS	23A-0084-PLC1-AS	23A-0085-PLC1-AS	23A-0086-PLC1-AS	23A-0087-PLC1-AS
					Sample Date	11/9/2023	10/30/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023
					Sample Type	N	N	N	FD	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-030	35693-92-6	ng/g	230	14.0	< 0.0458 U	< 0.0447 U	< 0.0476 UJ	< 0.0473 UJ	< 0.0473 U	< 0.0466 U	< 0.0472 U	< 0.0471 U	< 0.0481 UJ	< 0.0475 UJ
PCB-031	16606-02-3	ng/g	230	14.0	< 0.0576 U	2.70 J	11.0 J	12.5 J	4.03 J	0.882 J	2.70 J	2.50 J	6.26 J	5.10 J
PCB-035	37680-69-6	ng/g	230	14.0	< 0.0543 U	< 0.0530 U	< 0.0565 UJ	< 0.0561 UJ	< 0.0561 U	< 0.0553 U	< 0.0560 U	< 0.0559 U	< 0.0570 UJ	< 0.0563 UJ
PCB-036	38444-87-0	ng/g	230	14.0	< 0.0464 U	< 0.0452 U	< 0.0482 UJ	< 0.0479 UJ	< 0.0479 U	< 0.0472 U	< 0.0478 U	< 0.0477 U	< 0.0487 UJ	< 0.0481 UJ
PCB-037	38444-90-5	ng/g	230	14.0	< 0.0509 U	0.649 J	3.10 J	3.32 J	< 0.0526 U	< 0.0518 U	< 0.0525 U	< 0.0524 U	< 0.0535 UJ	< 0.0528 UJ
PCB-038	53555-66-1	ng/g	230	14.0	< 0.0384 U	< 0.0374 U	< 0.0399 UJ	< 0.0396 UJ	< 0.0396 U	< 0.0390 U	< 0.0395 U	< 0.0395 U	< 0.0403 UJ	< 0.0398 UJ
PCB-039	38444-88-1	ng/g	230	14.0	< 0.0236 U	< 0.0230 U	< 0.0245 UJ	< 0.0243 UJ	< 0.0243 U	< 0.0240 U	< 0.0243 U	< 0.0242 U	< 0.0247 UJ	< 0.0244 UJ
PCB-040	38444-93-8	ng/g	230	14.0	< 0.0393 U	< 0.0384 U	< 0.0409 UJ	< 0.0406 UJ	< 0.0406 U	< 0.0400 U	< 0.0405 U	< 0.0405 U	< 0.0413 UJ	< 0.0408 UJ
PCB-041/064	PCB-41/64	ng/g	230	14.0	< 0.0893 U	1.28 J	4.64 J	4.20 J	2.37 J	0.644 J	1.67 J	1.23 J	4.22 J	3.07 J
PCB-042	36559-22-5	ng/g	230	14.0	< 0.0982 U	1.31 J	5.02 J	4.87 J	2.59 J	< 0.0999 U	1.79 J	< 0.101 U	3.22 J	3.44 J
PCB-043/049	PCB-43/49	ng/g	230	14.0	0.332 J	5.56 J	31.6 J	30.5 J	15.3 J	3.49 J	10.6 J	7.17 J	22.2 J	23.0 J
PCB-044	41464-39-5	ng/g	230	14.0	0.192 J	2.82 J	14.4 J	13.6 J	6.90 J	1.16 J	4.60 J	4.08 J	8.46 J	8.70 J
PCB-045	70362-45-7	ng/g	230	14.0	< 0.0427 U	0.493 J	2.05 J	2.34 J	< 0.0441 U	< 0.0435 U	0.668 J	< 0.0440 U	< 0.0449 UJ	1.26 J
PCB-046	41464-47-5	ng/g	230	14.0	< 0.0500 U	< 0.0487 U	1.80 J	1.89 J	< 0.0516 U	< 0.0508 U	< 0.0515 U	< 0.0514 U	< 0.0525 UJ	1.41 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	0.207 J	4.27 J	16.9 J	17.7 J	8.92 J	1.55 J	6.27 J	3.63 J	13.8 J	13.2 J
PCB-050	62796-65-0	ng/g	230	14.0	< 0.0610 U	< 0.0595 U	< 0.0634 UJ	< 0.0630 UJ	< 0.0630 U	< 0.0620 U	< 0.0628 U	< 0.0628 U	< 0.0640 UJ	< 0.0632 UJ
PCB-051	68194-04-7	ng/g	230	14.0	< 0.0519 U	0.914 J	4.30 J	4.42 J	1.64 J	0.326 J	1.68 J	< 0.0534 U	3.92 J	3.59 J
PCB-052/073	PCB-52/73	ng/g	230	14.0	0.438 J	5.06 J	37.8 J	35.8 J	18.9 J	3.12 J	12.9 J	11.0 J	25.1 J	26.4 J
PCB-053	41464-41-9	ng/g	230	14.0	< 0.0462 U	1.78 J	8.96 J	9.16 J	4.12 J	0.858 J	3.24 J	2.20 J	7.30 J	7.41 J
PCB-054	15968-05-5	ng/g	230	14.0	< 0.0405 U	< 0.0395 U	0.671 J	0.653 J	< 0.0418 U	< 0.0412 U	< 0.0417 U	< 0.0416 U	< 0.0425 UJ	0.474 J
PCB-055	74338-24-2	ng/g	230	14.0	< 0.0526 U	< 0.0513 U	< 0.0547 UJ	< 0.0544 UJ	< 0.0543 U	< 0.0535 U	< 0.0542 U	< 0.0542 U	< 0.0552 UJ	< 0.0546 UJ
PCB-056/060	PCB-56/60	ng/g	230	14.0	< 0.103 U	1.08 J	3.74 J	3.83 J	1.85 J	< 0.105 U	1.48 J	< 0.106 U	< 0.108 UJ	2.52 J
PCB-057	70424-67-8	ng/g	230	14.0	< 0.0407 U	< 0.0397 U	< 0.0423 UJ	< 0.0420 UJ	< 0.0420 U	< 0.0414 U	< 0.0419 U	< 0.0418 U	< 0.0427 UJ	< 0.0422 UJ
PCB-058	41464-49-7	ng/g	230	14.0	< 0.0369 U	< 0.0359 U	< 0.0383 UJ	< 0.0381 UJ	< 0.0380 U	< 0.0375 U	< 0.0380 U	< 0.0379 U	< 0.0387 UJ	< 0.0382 UJ
PCB-059	74472-33-6	ng/g	230	14.0	< 0.0722 U	< 0.0704 U	0.842 J	< 0.0746 UJ	< 0.0745 U	< 0.0734 U	< 0.0744 U	< 0.0743 U	< 0.0758 UJ	< 0.0749 UJ
PCB-061/074	PCB-61/74	ng/g	230	14.0	< 0.0948 U	1.14 J	4.14 J	4.19 J	1.70 J	0.355 J	1.52 J	1.19 J	2.73 J	2.49 J
PCB-062	54230-22-7	ng/g	230	14.0	< 0.0503 U	< 0.0491 U	< 0.0523 UJ	< 0.0520 UJ	< 0.0520 U	< 0.0512 U	< 0.0519 U	< 0.0518 U	< 0.0529 UJ	< 0.0522 UJ
PCB-063	74472-34-7	ng/g	230	14.0	< 0.0378 U	< 0.0369 U	0.847 J	< 0.0391 UJ	< 0.0390 U	< 0.0385 U	< 0.0390 U	< 0.0389 U	< 0.0397 UJ	< 0.0392 UJ
PCB-065	33284-54-7	ng/g	230	14.0	< 0.0726 U	< 0.0708 U	< 0.0754 UJ	< 0.0750 UJ	< 0.0749 U	< 0.0738 U	< 0.0748 U	< 0.0747 U	< 0.0762 UJ	< 0.0753 UJ
PCB-066/080	PCB-66/80	ng/g	230	14.0	0.243 J	2.39 J	13.7 J	13.9 J	7.26 J	1.20 J	5.11 J	3.06 J	10.8 J	9.49 J
PCB-067	73575-53-8	ng/g	230	14.0	< 0.0445 U	< 0.0434 U	< 0.0462 UJ	< 0.0459 UJ	< 0.0459 U	< 0.0452 U	< 0.0458 U	< 0.0458 U	< 0.0467 UJ	< 0.0461 UJ
PCB-068	73575-52-7	ng/g	230	14.0	< 0.0526 U	< 0.0513 U	2.05 J	< 0.0544 UJ	< 0.0543 U	< 0.0535 U	< 0.0542 U	< 0.0542 U	< 0.0552 UJ	< 0.0546 UJ
PCB-069	60233-24-1	ng/g	230	14.0	< 0.0547 U	< 0.0534 U	< 0.0569 UJ	< 0.0565 UJ	< 0.0565 U	< 0.0557 U	< 0.0564 U	< 0.0563 U	< 0.0574 UJ	< 0.0567 UJ
PCB-070	32598-11-1	ng/g	230	14.0	0.292 J	2.47 J	15.5 J	14.4 J	7.57 J	1.24 J	5.45 J	4.84 J	10.4 J	9.51 J
PCB-071	41464-46-4	ng/g	230	14.0	< 0.0669 U	1.53 J	8.38 J	8.50 J	4.54 J	0.589 J	2.96 J	1.68 J	6.41 J	5.75 J
PCB-072	41464-42-0	ng/g	230	14.0	< 0.0593 U	< 0.0578 U	1.29 J	< 0.0612 UJ	< 0.0612 U	< 0.0603 U	< 0.0611 U	< 0.0610 U	< 0.0622 UJ	< 0.0615 UJ
PCB-076	70362-48-0	ng/g	230	14.0	< 0.0728 U	< 0.0710 U	< 0.0756 UJ	< 0.0752 UJ	< 0.0751 U	< 0.0740 U	< 0.0750 U	< 0.0749 U	< 0.0764 UJ	< 0.0755 UJ
PCB-077	32598-13-3	ng/g	38.0	14.0	< 0.0429 U	< 0.0419 U	1.91 J	1.43 J	< 0.0443 U	< 0.0437 U	< 0.0442 U	< 0.0442 U	< 0.0451 UJ	1.07 J
PCB-078	70362-49-1	ng/g	230	14.0	< 0.0372 U	< 0.0363 U	< 0.0387 UJ	< 0.0385 UJ	< 0.0384 U	< 0.0379 U	< 0.0384 U	< 0.0383 U	< 0.0391 UJ	< 0.0386 UJ
PCB-079	41464-48-6	ng/g	230	14.0	< 0.0467 U	< 0.0456 U	< 0.0486 UJ	< 0.0483 UJ	< 0.0482 U	< 0.0475 U	< 0.0481 U	< 0.0481 U	< 0.0491 UJ	< 0.0485 UJ
PCB-081	70362-50-4	ng/g	12.0	14.0	< 0.0729 U	< R	0.817 J	< R	< R	< R	< R	< R	< R	< R
PCB-082	52663-62-4	ng/g	230	14.0	< 0.0268 U	< 0.0261 U	4.08 J	3.91 J	2.11 J	< 0.0273 U	1.64 J	< 0.0276 U	< 0.0281 UJ	2.90 J
PCB-083/109	PCB-83/109	ng/g	230	14.0	< 0.115 U	< 0.112 U	3.47 J	3.34 J	< 0.119 U	< 0.117 U	1.16 J	< 0.118 U	< 0.121 UJ	2.31 J
PCB-084	52663-60-2	ng/g	230	14.0	< 0.0464 U	0.834 J	14.5 J	13.3 J	7.30 J	1.39 J	5.29 J	3.56 J	10.7 J	10.0 J
PCB-085/120	PCB-85/120	ng/g	230	14.0	< 0.103 U	0.485 J	10.5 J	9.66 J	5.32 J	0.920 J	3.98 J	2.87 J	7.72 J	7.37 J
PCB-086/097	PCB-86/97	ng/g	230	14.0	< 0.0454 U	0.614 J	15.1 J	14.0 J	6.99 J	1.52 J	5.38 J	3.05 J	10.3 J	10.6 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	< 0.0293 U	< 0.0285 U	< 0.0304 UJ	< 0.0302 UJ	< 0.0302 U	1.44 J	< 0.0301 U	< 0.0301 U	< 0.0307 UJ	< 0.0303 UJ
PCB-088/121	PCB-88/121	ng/g	230	14.0	< 0.106 U	< 0.103 U	< 0.110 UJ	< 0.109 UJ	< 0.109 U	< 0.108 U	< 0.109 U	< 0.109 U	< 0.111 UJ	< 0.110 UJ
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	0.781 J	2.83 J	62.5 J	57.1 J	29.7 J	5.35 J	22.7 J	14.5 J	42.8 J	42.2 J
PCB-091	68194-05-8	ng/g	230	14.0	< 0.0593 U	0.620 J	10.6 J	10.0 J	5.21 J	1.03 J	3.79 J	2.40 J	7.51 J	7.60 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0078-PLC1	23A-0079-PLC1	23A-0080-PLC1	23A-0080-PLC1	23A-0081-PLC1	23A-0083-PLC1	23A-0084-PLC1	23A-0085-PLC1	23A-0086-PLC1	23A-0087-PLC1
					Sample Name	23A-0078-PLC1-AS	23A-0079-PLC1-AS	23A-0080-PLC1-AS	23A-0080-PLC1-AT	23A-0081-PLC1-AS	23A-0083-PLC1-AS	23A-0084-PLC1-AS	23A-0085-PLC1-AS	23A-0086-PLC1-AS	23A-0087-PLC1-AS
					Sample Date	11/9/2023	10/30/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023
					Sample Type	N	N	N	FD	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-092	52663-61-3	ng/g	230	14.0	< 0.0260 U	0.659 J	14.0 J	13.4 J	6.89 J	1.38 J	5.16 J	3.09 J	9.90 J	10.0 J
PCB-093/095	PCB-93/95	ng/g	230	14.0	0.582 J	2.22 J	50.1 J	46.0 J	24.1 J	4.49 J	18.2 J	11.7 J	34.0 J	34.3 J
PCB-094	73575-55-0	ng/g	230	14.0	< 0.0874 U	< 0.0852 U	< 0.0909 UJ	< 0.0903 UJ	< 0.0902 U	< 0.0889 U	< 0.0900 U	< 0.0899 U	< 0.0917 UJ	< 0.0906 UJ
PCB-096	73575-54-9	ng/g	230	14.0	< 0.0412 U	< 0.0402 U	0.425 J	< 0.0426 UJ	< 0.0426 U	< 0.0419 U	< 0.0425 U	< 0.0424 U	< 0.0433 UJ	< 0.0427 UJ
PCB-098/102	PCB-98/102	ng/g	230	14.0	< 0.0764 U	< 0.0745 U	2.32 J	2.11 J	1.30 J	< 0.0777 U	0.856 J	< 0.0786 U	1.78 J	1.62 J
PCB-099	38380-01-7	ng/g	230	14.0	< 0.0422 U	1.48 J	29.4 J	27.2 J	13.8 J	2.63 J	10.8 J	6.54 J	20.6 J	19.7 J
PCB-100	39485-83-1	ng/g	230	14.0	< 0.0465 U	< 0.0454 U	< 0.0484 UJ	< 0.0481 UJ	< 0.0480 U	< 0.0474 U	< 0.0480 U	< 0.0479 U	< 0.0489 UJ	< 0.0483 UJ
PCB-103	60145-21-3	ng/g	230	14.0	< 0.0481 U	< 0.0469 U	1.12 J	1.16 J	< 0.0496 U	< 0.0489 U	< 0.0495 U	< 0.0495 U	< 0.0505 UJ	0.738 J
PCB-104	56558-16-8	ng/g	230	14.0	< 0.0445 U	< 0.0434 U	< 0.0462 UJ	< 0.0459 UJ	< 0.0459 U	< 0.0452 U	< 0.0458 U	< 0.0458 U	< 0.0467 UJ	< 0.0461 UJ
PCB-105/127	PCB-105/127	ng/g	120	14.0	< 0.0754 U	0.652 J	11.8 J	10.1 J	4.92 J	0.733 J	3.33 J	3.81 J	6.54 J	7.33 J
PCB-106/118	PCB-106/118	ng/g	120	14.0	0.716 J	2.29 J	46.3 J	41.2 J	22.7 J	3.90 J	16.8 J	12.4 J	31.3 J	30.1 J
PCB-107/108	PCB-107/108	ng/g	230	14.0	< 0.0925 U	< 0.0902 U	3.98 J	3.99 J	< 0.0955 U	< 0.0941 U	1.55 J	< 0.0952 U	< 0.0971 UJ	2.75 J
PCB-110	38380-03-9	ng/g	230	14.0	1.11 J	3.91 J	78.9 J	72.3 J	40.8 J	7.25 J	30.7 J	18.2 J	58.2 J	54.8 J
PCB-111/117	PCB-111/117	ng/g	230	14.0	< 0.131 U	0.981 J	18.6 J	16.0 J	9.42 J	1.29 J	6.91 J	5.20 J	13.5 J	12.1 J
PCB-112	74472-36-9	ng/g	230	14.0	< 0.0458 U	< 0.0447 U	< 0.0476 UJ	< 0.0473 UJ	< 0.0473 U	< 0.0466 U	< 0.0472 U	< 0.0471 U	< 0.0481 UJ	< 0.0475 UJ
PCB-113	68194-10-5	ng/g	230	14.0	< 0.0481 U	< 0.0469 U	< 0.0500 UJ	< 0.0496 UJ	< 0.0496 U	< 0.0489 U	< 0.0495 U	< 0.0495 U	< 0.0505 UJ	< 0.0498 UJ
PCB-114	74472-37-0	ng/g	120	14.0	< 0.0399 U	< 0.0389 U	< 0.0415 UJ	< 0.0412 UJ	< 0.0412 U	< 0.0406 U	< 0.0411 U	< 0.0411 U	< 0.0419 UJ	< 0.0414 UJ
PCB-119	56558-17-9	ng/g	230	14.0	< 0.0528 U	< 0.0515 U	3.28 J	3.14 J	1.90 J	< 0.0537 U	1.18 J	< 0.0544 U	< 0.0554 UJ	2.47 J
PCB-122	76842-07-4	ng/g	230	14.0	< 0.0336 U	< 0.0328 U	< 0.0350 UJ	< 0.0347 UJ	< 0.0347 U	< 0.0342 U	< 0.0346 U	< 0.0346 U	< 0.0353 UJ	< 0.0349 UJ
PCB-123	65510-44-3	ng/g	120	14.0	< 0.0312 U	< 0.0304 U	2.03 J	1.98 J	< 0.0322 U	< 0.0317 U	< 0.0321 U	< 0.0321 U	< 0.0327 UJ	< 0.0323 UJ
PCB-124	70424-70-3	ng/g	230	14.0	< 0.0420 U	< 0.0410 U	2.34 J	1.89 J	< 0.0433 U	< 0.0427 U	< 0.0433 U	< 0.0432 U	< 0.0441 UJ	1.32 J
PCB-125	74472-39-2	ng/g	230	14.0	< 0.0460 U	< 0.0448 U	< 0.0478 UJ	< 0.0475 UJ	< 0.0475 U	< 0.0468 U	< 0.0474 U	< 0.0473 U	< 0.0483 UJ	< 0.0477 UJ
PCB-126	57465-28-8	ng/g	0.0360	14.0	< 0.0653 U	< 0.0637 U	< 0.0679 UJ	< 0.0675 UJ	< 0.0675 U	< 0.0665 U	< 0.0673 U	< 0.0673 U	< 0.0686 UJ	< 0.0678 UJ
PCB-128	38380-07-3	ng/g	230	14.0	< 0.0462 U	0.705 J	17.2 J	16.1 J	8.61 J	1.86 J	6.65 J	3.23 J	13.1 J	12.4 J
PCB-129	55215-18-4	ng/g	230	14.0	< 0.0507 U	< 0.0495 U	3.57 J	3.02 J	< 0.0524 U	< 0.0516 U	1.29 J	< 0.0522 U	< 0.0533 UJ	2.37 J
PCB-130	52663-66-8	ng/g	230	14.0	< 0.0399 U	< 0.0389 U	5.30 J	4.93 J	2.24 J	0.506 J	2.16 J	< 0.0411 U	4.78 J	4.31 J
PCB-131/142	PCB-131/142	ng/g	230	14.0	< 0.0982 U	< 0.0958 U	1.14 J	0.814 J	< 0.101 U	< 0.0999 U	< 0.101 U	< 0.101 U	< 0.103 UJ	< 0.102 UJ
PCB-132/168	PCB-132/168	ng/g	230	14.0	0.321 J	1.05 J	26.5 J	24.4 J	13.4 J	2.50 J	10.5 J	5.62 J	18.7 J	19.5 J
PCB-133	35694-04-3	ng/g	230	14.0	< 0.0357 U	< 0.0348 U	1.23 J	1.11 J	< 0.0369 U	< 0.0363 U	< 0.0368 U	< 0.0368 U	< 0.0375 UJ	< 0.0370 UJ
PCB-134	52704-70-8	ng/g	230	14.0	< 0.0946 U	< 0.0923 U	4.12 J	3.69 J	1.90 J	< 0.0963 U	1.59 J	< 0.0974 U	< 0.0993 UJ	2.87 J
PCB-135/144	PCB-135/144	ng/g	230	14.0	< 0.0994 U	0.358 J	9.74 J	9.28 J	4.98 J	0.985 J	4.18 J	2.13 J	7.51 J	7.19 J
PCB-136	38411-22-2	ng/g	230	14.0	0.109 J	0.296 J	8.04 J	7.69 J	4.12 J	0.726 J	3.22 J	1.80 J	6.13 J	6.03 J
PCB-137	35694-06-5	ng/g	230	14.0	< 0.0464 U	< 0.0452 U	5.27 J	4.86 J	2.19 J	0.584 J	2.27 J	< 0.0477 U	4.02 J	3.53 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	1.17 J	3.72 J	86.8 J	81.4 J	38.8 J	7.97 J	33.2 J	18.3 J	60.2 J	61.4 J
PCB-139/149	PCB-139/149	ng/g	230	14.0	0.615 J	2.16 J	46.7 J	43.6 J	22.7 J	4.48 J	18.5 J	9.93 J	34.4 J	34.1 J
PCB-140	59291-64-4	ng/g	230	14.0	< 0.0676 U	< 0.0660 U	< 0.0703 UJ	< 0.0699 UJ	< 0.0698 U	< 0.0688 U	< 0.0697 U	< 0.0696 U	< 0.0710 UJ	< 0.0701 UJ
PCB-141	52712-04-6	ng/g	230	14.0	< 0.0475 U	0.482 J	11.2 J	10.2 J	5.18 J	1.21 J	4.27 J	2.01 J	7.95 J	8.05 J
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0610 U	< 0.0595 U	< 0.0634 UJ	< 0.0630 UJ	< 0.0630 U	< 0.0620 U	< 0.0628 U	< 0.0628 U	< 0.0640 UJ	< 0.0632 UJ
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0805 U	< 0.0786 U	< 0.0837 UJ	< 0.0832 UJ	< 0.0832 U	< 0.0819 U	< 0.0830 U	< 0.0829 U	< 0.0846 UJ	< 0.0835 UJ
PCB-146	51908-16-8	ng/g	230	14.0	< 0.0545 U	0.324 J	8.05 J	7.46 J	4.09 J	0.862 J	3.28 J	2.00 J	6.18 J	6.19 J
PCB-147	68194-13-8	ng/g	230	14.0	< 0.0710 U	< 0.0693 U	2.08 J	2.03 J	1.02 J	< 0.0723 U	0.727 J	< 0.0731 U	1.67 J	1.46 J
PCB-148	74472-41-6	ng/g	230	14.0	< 0.0745 U	< 0.0726 U	< 0.0774 UJ	< 0.0769 UJ	< 0.0769 U	< 0.0758 U	< 0.0767 U	< 0.0766 U	< 0.0782 UJ	< 0.0772 UJ
PCB-150	68194-08-1	ng/g	230	14.0	< 0.0752 U	< 0.0734 U	< 0.0782 UJ	< 0.0777 UJ	< 0.0777 U	< 0.0765 U	< 0.0775 U	< 0.0774 U	< 0.0790 UJ	< 0.0780 UJ
PCB-151	52663-63-5	ng/g	230	14.0	< 0.0545 U	0.401 J	9.65 J	9.19 J	4.92 J	0.939 J	3.74 J	2.36 J	7.36 J	7.22 J
PCB-152	68194-09-2	ng/g	230	14.0	< 0.0880 U	< 0.0858 U	< 0.0914 UJ	< 0.0909 UJ	< 0.0908 U	< 0.0895 U	< 0.0906 U	< 0.0905 U	< 0.0923 UJ	< 0.0912 UJ
PCB-153	35065-27-1	ng/g	230	14.0	0.737 J	2.22 J	52.7 J	49.0 J	25.2 J	5.13 J	21.2 J	11.1 J	39.6 J	38.9 J
PCB-154	60145-22-4	ng/g	230	14.0	< 0.0524 U	< 0.0511 U	0.893 J	0.856 J	< 0.0541 U	< 0.0533 U	< 0.0540 U	< 0.0540 U	< 0.0550 UJ	< 0.0544 UJ
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0452 U	< 0.0441 U	< 0.0470 UJ	< 0.0467 UJ	< 0.0467 U	< 0.0460 U	< 0.0466 U	< 0.0465 U	< 0.0475 UJ	< 0.0469 UJ
PCB-156	38380-08-4	ng/g	120	14.0	< 0.0380 R	< 0.0371 U	6.16 J	5.32 J	3.15 J	0.396 J	2.40 J	1.47 J	4.34 J	4.69 J
PCB-157	69782-90-7	ng/g	120	14.0	< 0.0528 UJ	< 0.0515 U	2.57 J	1.67 J	< 0.0545 U	< 0.0537 U	< 0.0544 U	< 0.0544 U	< 0.0554 UJ	1.52 J

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0078-PLC1	23A-0079-PLC1	23A-0080-PLC1	23A-0080-PLC1	23A-0081-PLC1	23A-0083-PLC1	23A-0084-PLC1	23A-0085-PLC1	23A-0086-PLC1	23A-0087-PLC1
				Sample Name	23A-0078-PLC1-AS	23A-0079-PLC1-AS	23A-0080-PLC1-AS	23A-0080-PLC1-AT	23A-0081-PLC1-AS	23A-0083-PLC1-AS	23A-0084-PLC1-AS	23A-0085-PLC1-AS	23A-0086-PLC1-AS	23A-0087-PLC1-AS
				Sample Date	11/9/2023	10/30/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023
				Sample Type	N	N	N	FD	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-158/160	PCB-158/160	ng/g	230	14.0	< 0.116 U	0.374 J	7.88 J	7.03 J	3.37 J	0.889 J	3.00 J	1.99 J	5.56 J	5.74 J
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0729 U	< 0.0712 U	< 0.0758 UJ	< 0.0754 UJ	< 0.0753 U	< 0.0742 U	< 0.0752 U	< 0.0751 U	< 0.0766 UJ	< 0.0756 UJ
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0682 U	< 0.0665 U	< 0.0709 UJ	< 0.0704 UJ	< 0.0704 U	< 0.0694 U	< 0.0703 U	< 0.0702 U	< 0.0716 UJ	< 0.0707 UJ
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0538 U	< 0.0524 U	< 0.0559 UJ	< 0.0555 UJ	< 0.0555 U	< 0.0547 U	< 0.0554 U	< 0.0553 U	< 0.0564 UJ	< 0.0558 UJ
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0737 U	< 0.0719 U	< 0.0766 UJ	< 0.0761 UJ	< 0.0761 U	< 0.0750 U	< 0.0759 U	< 0.0759 U	< 0.0774 UJ	< 0.0764 UJ
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0635 U	< 0.0619 U	< 0.0660 UJ	< 0.0655 UJ	< 0.0655 U	< 0.0646 U	< 0.0654 U	< 0.0653 U	< 0.0666 UJ	< 0.0658 UJ
PCB-167	52663-72-6	ng/g	120	14.0	< 0.0488 U	< 0.0476 U	3.38 J	2.76 J	1.40 J	< 0.0497 U	1.12 J	< 0.0503 U	2.23 J	2.44 J
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0538 U	< 0.0524 U	< 0.0559 UJ	< 0.0555 UJ	< 0.0555 U	< 0.0547 U	< 0.0554 U	< 0.0553 U	< 0.0564 UJ	< 0.0558 UJ
PCB-170/190	PCB-170/190	ng/g	230	14.0	0.250 J	0.572 J	10.7 J	9.96 J	4.58 J	1.07 J	4.20 J	2.16 J	7.80 J	7.42 J
PCB-171	52663-71-5	ng/g	230	14.0	< 0.0703 U	< 0.0686 U	2.90 J	2.98 J	1.30 J	< 0.0715 U	1.19 J	< 0.0723 U	< 0.0738 UJ	2.01 J
PCB-172/192	PCB-172/192	ng/g	230	14.0	< 0.117 U	< 0.114 U	1.19 J	1.10 J	< 0.120 U	< 0.119 U	0.551 J	< 0.120 U	< 0.122 UJ	0.916 J
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0786 U	< 0.0767 U	< 0.0818 UJ	< 0.0812 UJ	< 0.0812 U	< 0.0800 U	< 0.0810 U	< 0.0809 U	< 0.0826 UJ	< 0.0816 UJ
PCB-174	38411-25-5	ng/g	230	14.0	< 0.0986 U	0.457 J	8.79 J	8.23 J	3.67 J	0.934 J	3.63 J	1.78 J	6.38 J	6.14 J
PCB-175	40186-70-7	ng/g	230	14.0	< 0.0606 U	< 0.0591 U	0.306 J	< 0.0626 UJ	< 0.0626 U	< 0.0617 U	< 0.0624 U	< 0.0624 U	< 0.0636 UJ	< 0.0628 UJ
PCB-176	52663-65-7	ng/g	230	14.0	< 0.0566 U	< 0.0552 U	1.03 J	0.836 J	< 0.0584 U	< 0.0576 U	0.383 J	< 0.0583 U	< 0.0594 UJ	0.700 J
PCB-177	52663-70-4	ng/g	230	14.0	< 0.0707 U	< 0.0689 U	5.00 J	4.86 J	1.94 J	0.477 J	1.91 J	0.990 J	3.05 J	3.65 J
PCB-178	52663-67-9	ng/g	230	14.0	< 0.0887 U	< 0.0865 U	1.71 J	1.66 J	< 0.0916 U	< 0.0903 U	0.546 J	< 0.0913 U	< 0.0931 UJ	1.04 J
PCB-179	52663-64-6	ng/g	230	14.0	< 0.0469 U	0.182 J	2.86 J	2.73 J	1.13 J	0.305 J	1.11 J	0.714 J	2.01 J	2.10 J
PCB-180	35065-29-3	ng/g	230	14.0	0.469 J	1.08 J	17.3 J	16.3 J	7.68 J	2.10 J	7.22 J	4.30 J	12.6 J	12.4 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0538 U	< 0.0524 U	< 0.0559 UJ	< 0.0555 UJ	< 0.0555 U	< 0.0547 U	< 0.0554 U	< 0.0553 U	< 0.0564 UJ	< 0.0558 UJ
PCB-182/187	PCB-182/187	ng/g	230	14.0	0.263 J	0.496 J	9.20 J	8.67 J	3.75 J	0.968 J	3.76 J	2.16 J	6.52 J	6.43 J
PCB-183	52663-69-1	ng/g	230	14.0	< 0.0703 U	< 0.0686 U	4.43 J	4.30 J	1.68 J	0.418 J	1.88 J	1.12 J	2.70 J	3.22 J
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0509 U	< 0.0497 U	< 0.0529 UJ	< 0.0526 UJ	< 0.0526 U	< 0.0518 U	< 0.0525 U	< 0.0524 U	< 0.0535 UJ	< 0.0528 UJ
PCB-185	52712-05-7	ng/g	230	14.0	< 0.0705 U	< 0.0687 U	0.824 J	0.832 J	< 0.0728 U	< 0.0717 U	< 0.0726 U	< 0.0725 U	< 0.0740 UJ	0.596 J
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0636 U	< 0.0621 U	< 0.0662 UJ	< 0.0657 UJ	< 0.0657 U	< 0.0647 U	< 0.0656 U	< 0.0655 U	< 0.0668 UJ	< 0.0660 UJ
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0583 U	< 0.0569 U	< 0.0606 UJ	< 0.0602 UJ	< 0.0602 U	< 0.0593 U	< 0.0601 U	< 0.0600 U	< 0.0612 UJ	< 0.0605 UJ
PCB-189	39635-31-9	ng/g	130	14.0	< 0.0593 U	< 0.0578 U	< 0.0616 UJ	< 0.0612 UJ	< 0.0612 U	< 0.0603 U	< 0.0611 U	< 0.0610 U	< 0.0622 UJ	< 0.0615 UJ
PCB-191	74472-50-7	ng/g	230	14.0	< 0.0536 U	< 0.0523 U	< 0.0557 UJ	< 0.0553 UJ	< 0.0553 U	< 0.0545 U	< 0.0552 U	< 0.0551 U	< 0.0562 UJ	< 0.0556 UJ
PCB-193	69782-91-8	ng/g	230	14.0	< 0.0676 U	< 0.0660 U	0.843 J	0.710 J	< 0.0698 U	< 0.0688 U	0.272 J	< 0.0696 U	< 0.0710 UJ	0.591 J
PCB-194	35694-08-7	ng/g	230	14.0	< 0.0855 U	< 0.0834 U	4.04 J	3.82 J	< 0.0883 U	< 0.0870 U	1.94 J	< 0.0880 U	< 0.0898 UJ	2.35 J
PCB-195	52663-78-2	ng/g	230	14.0	< 0.151 U	< 0.148 U	1.64 J	1.01 J	< 0.156 U	< 0.154 U	< 0.156 U	< 0.156 U	< 0.159 UJ	0.813 J
PCB-196/203	PCB-196/203	ng/g	230	14.0	< 0.144 U	< 0.140 U	4.75 J	4.45 J	< 0.148 U	< 0.146 U	2.25 J	< 0.148 U	3.06 J	3.35 J
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0640 U	< 0.0624 U	< 0.0666 UJ	< 0.0661 UJ	< 0.0661 U	< 0.0651 U	< 0.0660 U	< 0.0659 U	< 0.0672 UJ	< 0.0664 UJ
PCB-198	68194-17-2	ng/g	230	14.0	< 0.104 U	< 0.101 U	< 0.108 UJ	< 0.107 UJ	< 0.107 U	< 0.106 U	< 0.107 U	< 0.107 U	< 0.109 UJ	< 0.108 UJ
PCB-199	52663-75-9	ng/g	230	14.0	< 0.0999 U	< 0.0975 U	3.91 J	4.06 J	< 0.103 U	< 0.102 U	1.67 J	< 0.103 U	2.31 J	2.84 J
PCB-200	52663-73-7	ng/g	230	14.0	< 0.0509 U	< 0.0497 U	0.494 J	< 0.0526 UJ	< 0.0526 U	< 0.0518 U	< 0.0525 U	< 0.0524 U	< 0.0535 UJ	< 0.0528 UJ
PCB-201	40186-71-8	ng/g	230	14.0	< 0.0403 U	< 0.0393 U	< 0.0419 UJ	< 0.0416 UJ	< 0.0416 U	< 0.0410 U	< 0.0415 U	< 0.0415 U	< 0.0423 UJ	< 0.0418 UJ
PCB-202	2136-99-4	ng/g	230	14.0	< 0.0688 U	< 0.0671 U	0.897 J	0.702 J	< 0.0710 U	< 0.0700 U	< 0.0709 U	< 0.0708 U	< 0.0722 UJ	< 0.0713 UJ
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0842 U	< 0.0821 U	< 0.0875 UJ	< 0.0869 UJ	< 0.0869 U	< 0.0856 U	< 0.0867 U	< 0.0866 U	< 0.0884 UJ	< 0.0873 UJ
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0597 U	< 0.0582 U	< 0.0620 UJ	< 0.0616 UJ	< 0.0616 U	< 0.0607 U	< 0.0615 U	< 0.0614 U	< 0.0626 UJ	< 0.0619 UJ
PCB-206	40186-72-9	ng/g	230	14.0	< 0.0572 U	< 0.0558 U	3.09 J	2.93 J	< 0.0590 U	< 0.0582 U	1.14 J	< 0.0589 U	2.20 J	2.34 J
PCB-207	52663-79-3	ng/g	230	14.0	< 0.0756 U	< 0.0737 U	< 0.0786 UJ	< 0.0781 UJ	< 0.0781 U	< 0.0769 U	< 0.0779 U	< 0.0778 U	< 0.0794 UJ	< 0.0784 UJ
PCB-208	52663-77-1	ng/g	230	14.0	< 0.0756 U	< 0.0737 U	0.891 J	0.888 J	< 0.0781 U	< 0.0769 U	0.419 J	< 0.0778 U	< 0.0794 UJ	0.523 J
PCB-209	2051-24-3	ng/g	230	14.0	0.510 J	< 0.0424 U	2.15 J	2.65 J	1.26 J	0.357 J	0.714 J	< 0.0448 U	1.76 J	2.06 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	0.510	< 0.0424 U	2.15	2.65	1.26	0.357	0.714	< 0.0448 U	1.76	2.06
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	0.982	2.79	67.1	63.2	25.7	6.27	26.7	13.2	41.1	47.2
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	2.95	12.1	320	296	147	29.0	123	61.9	224	230
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	< 0.151 U	< 0.148 U	15.7	14.0	< 0.156 U	< 0.154 U	5.86	< 0.156 U	5.37	9.35
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	9.34	93.4	1130	1070	512	93.2	391	243	717	739
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	3.19	17.6	385	352	182	33.3	139	87.3	255	260
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	< 0.0897 U	6.15	42.9	47.9	32.1	2.42	5.62	13.4	16.7	10.9
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	< 0.0515 U	0.339	5.49	5.78	2.71	< 0.0524 U	< 0.053 U	2.37	1.51	0.775
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	< 0.0756 U	< 0.0737 U	3.98	3.82	< 0.0781 U	< 0.0769 U	1.56	< 0.0778 U	2.20	2.86
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	1.70	32.1	181	171	83.7	14.5	59.9	40.1	119	123
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	< 0.133 U	22.4	101	109	37.2	7.23	28.2	24.7	50.9	53.4

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0078-PLC1	23A-0079-PLC1	23A-0080-PLC1	23A-0080-PLC1	23A-0081-PLC1	23A-0083-PLC1	23A-0084-PLC1	23A-0085-PLC1	23A-0086-PLC1	23A-0087-PLC1
					Sample Name	23A-0078-PLC1-AS	23A-0079-PLC1-AS	23A-0080-PLC1-AS	23A-0080-PLC1-AT	23A-0081-PLC1-AS	23A-0083-PLC1-AS	23A-0084-PLC1-AS	23A-0085-PLC1-AS	23A-0086-PLC1-AS	23A-0087-PLC1-AS
					Sample Date	11/9/2023	10/30/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023
					Sample Type	N	N	N	FD	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	mg/kg	7700	25000	8400	4200	9500	9700	11000 J	5500	7600	4500 J	9900	-
Calcium	7440-70-2	mg/kg			2700	1800	4900	4800	5700 J	2100	3900	2000 J	4600	-
Iron	7439-89-6	mg/kg	5500	20000	38000	8400	21000	19000	18000 J	8900	15000	7000 J	23000	-
Magnesium	7439-95-4	mg/kg			4900	1800	2400	2800	3300 J	1700	2300	1400 J	2500	-
Potassium	7440-09-7	mg/kg			470 J	400 J	750	760	860	400 J	680 J	410 J	790	-
Sodium	7440-23-5	mg/kg			82 J-	< 550 U	< 500 U	< 450 U	470 J	< 560 U	< 1100 U	190 J	< 460 U	-
Antimony	7440-36-0	mg/kg	3.1	2	1.3	< 0.98 UJ	0.84 J	0.84 J	0.60 J	0.058 J-	0.41 J-	0.23 J	0.88 J	-
Arsenic	7440-38-2	mg/kg	0.68	9.8	3.6 J	0.61	6.8	6.9	6.0	1.5	3.4	1.2	5.8	-
Barium	7440-39-3	mg/kg	1500	20	33 J	8.8	110	110	140	25	62	30	91	-
Beryllium	7440-41-7	mg/kg	16		0.18 J	< 0.49 U	0.66	0.61	0.55	0.087 J	0.29 J	0.16 J	0.47 J	-
Cadmium	7440-43-9	mg/kg	0.71	1	0.11 J	< 0.49 U	1.8	1.6	1.7	0.21 J	0.96	0.47 J	1.5 J	-
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	11 JEB	4.4 EB	74 EB	69 EB	56 EB	18 EB	38 EB	12 EB	60 EB	-
Cobalt	7440-48-4	mg/kg	2.3	50	3.6 J	2.9	12	11	11	2.9	6.1	2.9	11	-
Copper	7440-50-8	mg/kg	310	31.6	40 J	6.5 J	73 J	68 J	60	11 J	35 J	16	57 J	-
Lead	7439-92-1	mg/kg	200	35.8	100 J	15	150	150	130	22	78	28	130	-
Manganese	7439-96-5	mg/kg	180	460	360 JEB	210 EB	570 EB	530 EB	1500 JEB	240 EB	360 EB	140 JEB	580 EB	-
Nickel	7440-02-0	mg/kg	140	22.7	7.6 J	3.8	12	11	14	3.8	6.9	3.6	9.9	-
Selenium	7782-49-2	mg/kg	39	11	< 2.7 U	< 2.5 U	2.0 J	2.0 J	1.9 J	< 3.1 U	0.98 J	< 3.7 U	< 8.8 U	-
Silver	7440-22-4	mg/kg	39	1	0.035 J	0.11 J	0.48	0.41 J	0.36 J	0.12 J	0.21 J	0.097 J	0.36 J	-
Thallium	7440-28-0	mg/kg	0.078		< 0.55 U	< 0.49 U	0.081 J	0.071 J	0.092 J	< 0.61 U	0.051 J	0.031 J	< 1.8 U	-
Vanadium	7440-62-2	mg/kg	39		9.8 J	4.7	31	29	25	5.3	15	6.0	28	-
Zinc	7440-66-6	mg/kg	2300	121	120 JEB	33 EB	290 EB	270 EB	290 EB	63 EB	160 EB	72 EB	240 EB	-
Mercury	7439-97-6	mg/kg	2.3	0.18	< 0.14 UJ	0.037 J	0.88	0.91	0.72 J-	0.16	0.53	0.21 J-	0.91	-
Total Cyanide															
CYANIDE	57-12-5	mg/kg	2.3		< 0.59 UJ	0.68	0.69	1.6	< 2.0 U	< 0.61 U	1.8	< 0.89 U	1.2	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-	
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-	
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-	
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-	
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	< 2.4 UJ	-	< 20 UJ	< 16 UJ	< 12 UJ	< 6.5 U	< 10 UJ	< 7.3 U	< 18 UJ	-	
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 2.4 UJ	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-	
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	< 2.4 UJ	-	< 20 UJ	< 16 UJ	< 12 UJ	< 6.5 U	< 10 UJ	< 7.3 U	< 18 UJ	-	
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 UJ	< 6.5 U	< 10 UJ	< 7.3 U	< 18 UJ	-	
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 UJ	< 6.5 U	< 10 UJ	< 7.3 U	< 18 UJ	-	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-	
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	< 2.4 UJ	-	< 20 UJ	< 16 UJ	< 12 UJ	< 6.5 U	< 10 UJ	< 7.3 U	< 18 UJ	-	
1,2-Dichloroethane	107-06-2	ug/kg	460	986	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-	
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-	
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 UJ	< 6.5 U	< 10 UJ	< 7.3 U	< 18 UJ	-	
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	< 2.4 UJ	-	< 20 UJ	< 16 UJ	< 12 UJ	< 6.5 U	< 10 UJ	< 7.3 U	< 18 UJ	-	
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	< 2.4 UJ	-	< 20 UJ	< 16 UJ	< 12 UJ	< 6.5 U	< 10 UJ	< 7.3 U	< 18 UJ	-	
2-HEXANONE	591-78-6	ug/kg	20000	45	< 4.9 U	-	< 39 UJ	< 32 UJ	< 24 U	< 13 U	< 21 U	< 15 U	< 36 UJ	-	
ACETONE	67-64-1	ug/kg	7000000	65	< 4.9 U	-	190 J	200 J	< 24 U	< 13 U	< 21 U	84	130 J	-	
Benzene	71-43-2	ug/kg	1200	10	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-	
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-	
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-	

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0078-PLC1	23A-0079-PLC1	23A-0080-PLC1	23A-0080-PLC1	23A-0081-PLC1	23A-0083-PLC1	23A-0084-PLC1	23A-0085-PLC1	23A-0086-PLC1	23A-0087-PLC1
				Sample Name	23A-0078-PLC1-AS	23A-0079-PLC1-AS	23A-0080-PLC1-AS	23A-0080-PLC1-AT	23A-0081-PLC1-AS	23A-0083-PLC1-AS	23A-0084-PLC1-AS	23A-0085-PLC1-AS	23A-0086-PLC1-AS	23A-0087-PLC1-AS
				Sample Date	11/9/2023	10/30/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023
				Sample Type	N	N	N	FD	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
BROMOFORM	75-25-2	ug/kg	19000	142	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 UJ	< 6.5 U	< 10 UJ	< 7.3 U	< 18 UJ	-
BROMOMETHANE	74-83-9	ug/kg	680	6.5	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Chlorobenzene	108-90-7	ug/kg	28000	30	< 2.4 UJ	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
CHLOROETHANE	75-00-3	ug/kg	540000		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Chloroform	67-66-3	ug/kg	320	87	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
CHLOROMETHANE	74-87-3	ug/kg	11000		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Cyclohexane	110-82-7	ug/kg	650000		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Ethylbenzene	100-41-4	ug/kg	5800	290	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 UJ	< 6.5 U	< 10 UJ	< 7.3 U	< 18 UJ	-
m,p-Xylene	179601-23-1	ug/kg	55000		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
METHYL ACETATE	79-20-9	ug/kg	7800000		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	2.7 J	< 18 UJ	-
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	< 4.9 U	-	28 J	32 J	< 24 U	< 13 U	< 21 U	16	38 J	-
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	< 4.9 U	-	< 39 UJ	< 32 UJ	< 24 U	< 13 U	< 21 U	< 15 U	< 36 UJ	-
Methylcyclohexane	108-87-2	ug/kg	9800		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Methylene Chloride	75-09-2	ug/kg	35000	18	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Styrene	100-42-5	ug/kg	600000	126	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Toluene	108-88-3	ug/kg	490000	10	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Trichlorofluoromethane	75-69-4	ug/kg	2300000		< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
Vinyl Chloride	75-01-4	ug/kg	59	482	< 2.4 U	-	< 20 UJ	< 16 UJ	< 12 U	< 6.5 U	< 10 U	< 7.3 U	< 18 UJ	-
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	< 1500 UJ	-	< 6100 UJ	< 6000 UJ	< 1500 UJ	< 890 UJ	< 1400 UJ	< 960 UJ	< 5600 UJ	-
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 580 U	-	< 2400 UJ	< 2300 UJ	< 570 U	< 350 U	< 550 U	< 380 U	< 2200 UJ	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	< 1500 UJ	-	< 6100 UJ	< 6000 UJ	< 1500 UJ	< 890 UJ	< 1400 UJ	< 960 UJ	< 5600 UJ	-
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 UJ	< 1400 UJ	< 960 U	< 5600 UJ	-
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		< 1500 UJ	-	< 6100 UJ	< 6000 UJ	< 1500 UJ	< 890 UJ	< 1400 UJ	< 960 UJ	< 5600 UJ	-
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	< 1500 R	-	< 6100 R	< 6000 R	< 1500 R	< 890 R	< 1400 R	< 960 R	< 5600 R	-
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 UJ	< 1400 UJ	< 960 U	< 5600 UJ	-
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 1500 R	-	< 6100 R	< 6000 R	< 1500 R	< 890 R	< 1400 R	< 960 R	< 5600 R	-
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	< 1500 R	-	< 6100 R	< 6000 R	< 1500 R	< 890 R	< 1400 R	< 960 R	< 5600 R	-
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
2-NITROANILINE	88-74-4	ug/kg	63000		< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	< 1500 UJ	-	< 6100 R	< 6000 R	< 1500 UJ	< 890 R	< 1400 R	< 960 UJ	< 5600 R	-
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23A-0078-PLC1	23A-0079-PLC1	23A-0080-PLC1	23A-0080-PLC1	23A-0081-PLC1	23A-0083-PLC1	23A-0084-PLC1	23A-0085-PLC1	23A-0086-PLC1	23A-0087-PLC1
				Sample Name	23A-0078-PLC1-AS	23A-0079-PLC1-AS	23A-0080-PLC1-AS	23A-0080-PLC1-AT	23A-0081-PLC1-AS	23A-0083-PLC1-AS	23A-0084-PLC1-AS	23A-0085-PLC1-AS	23A-0086-PLC1-AS	23A-0087-PLC1-AS
				Sample Date	11/9/2023	10/30/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023
				Sample Type	N	N	N	FD	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
3-NITROANILINE	99-09-2	ug/kg	25000		< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 UJ	< 1400 UJ	< 960 U	< 5600 UJ	-
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 1500 U	-	< 6100 R	< 6000 R	< 1500 U	< 890 R	< 1400 R	< 960 U	< 5600 R	-
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
4-Nitroaniline	100-01-6	ug/kg	25000		< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
Acenaphthene	83-32-9	ug/kg	360000	6.7	< 1500 R	-	< 6100 R	< 6000 R	< 1500 R	< 890 R	< 1400 R	< 960 R	< 5600 R	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
Acetophenone	98-86-2	ug/kg	780000		< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
ANTHRACENE	120-12-7	ug/kg	1800000	57	< 1500 U	-	< 6100 R	< 6000 R	< 1500 U	< 890 R	< 1400 R	< 960 U	< 5600 R	-
ATRAZINE	1912-24-9	ug/kg	2400	0.3	< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
BENZALDEHYDE	100-52-7	ug/kg	170000	59	< 2900 UJ	-	< 12000 UJ	< 12000 UJ	< 2800 UJ	< 1700 UJ	< 2700 UJ	< 1900 UJ	< 11000 UJ	-
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	800 J	-	< 6100 UJ	< 6000 UJ	2200	730 J-	650 J-	330 J	< 5600 UJ	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	740 J	-	< 6100 UJ	< 6000 UJ	2300	580 J	740 J	< 960 U	< 5600 UJ	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	1200 J	-	3200 J	3200 J	3700	870 J-	1300 J-	590 J	2900 J	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	550 J	-	1600 J	1500 J	1500	360 J	630 J	260 J	1500 J	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	< 1500 U	-	< 6100 UJ	< 6000 UJ	940 J	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 UJ	< 1400 UJ	< 960 U	< 5600 UJ	-
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	< 1500 UJ	-	< 6100 R	< 6000 R	< 1500 UJ	< 890 R	< 1400 R	< 960 UJ	< 5600 R	-
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	< 1500 U	-	< 6100 UJ	< 6000 UJ	920 J	1000 J-	830 J-	< 960 U	< 5600 UJ	-
Caprolactam	105-60-2	ug/kg	3100000		< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
CARBAZOLE	86-74-8	ug/kg	240000	69	< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 UJ	< 2700 UJ	< 1900 U	< 11000 UJ	-
CHRYSENE	218-01-9	ug/kg	110000	166	950 J	-	2500 J	< 6000 UJ	2500	660 J-	1000 J-	460 J	2300 J	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
Dibenzofuran	132-64-9	ug/kg	7800	510	< 1500 UJ	-	< 6100 R	< 6000 R	< 1500 UJ	< 890 R	< 1400 R	< 960 UJ	< 5600 R	-
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	< 1500 U	-	< 6100 R	< 6000 R	< 1500 U	< 890 R	< 1400 R	< 960 U	< 5600 R	-
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 1500 U	-	< 6100 R	< 6000 R	< 1500 U	< 890 R	< 1400 R	< 960 U	< 5600 R	-
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	690 J	< 2700 U	< 1900 U	< 11000 UJ	-
FLUORANTHENE	206-44-0	ug/kg	240000	423	2300 J	-	< 6100 UJ	< 6000 UJ	4900	1700 J-	1900 J-	900 J	< 5600 UJ	-
FLUORENE	86-73-7	ug/kg	240000	77	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	< 1500 U	-	< 6100 R	< 6000 R	< 1500 U	< 890 R	< 1400 R	< 960 U	< 5600 R	-
Hexachlorobutadiene	87-68-3	ug/kg	1200		< 1500 R	-	< 6100 R	< 6000 R	< 1500 R	< 890 R	< 1400 R	< 960 R	< 5600 R	-
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	740 J	-	< 6100 UJ	< 6000 UJ	1900	450 J	730 J	< 960 U	< 5600 UJ	-
ISOPHORONE	78-59-1	ug/kg	570000	876	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
Naphthalene	91-20-3	ug/kg	2000	176	< 1500 R	-	< 6100 R	< 6000 R	< 1500 R	< 890 R	< 1400 R	< 960 R	< 5600 R	-
NITROBENZENE	98-95-3	ug/kg	5100	407	< 1500 R	-	< 6100 R	< 6000 R	< 1500 R	< 890 R	< 1400 R	< 960 R	< 5600 R	-
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 UJ	< 1400 UJ	< 960 U	< 5600 UJ	-
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	< 1500 U	-	< 6100 UJ	< 6000 UJ	< 1500 U	< 890 U	< 1400 U	< 960 U	< 5600 UJ	-
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	< 2900 U	-	< 12000 UJ	< 12000 UJ	< 2800 U	< 1700 U	< 2700 U	< 1900 U	< 11000 UJ	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	1100 J	-	< 6100 R	< 6000 R	870 J	780 J-	640 J-	< 960 U	< 5600 R	-
PHENOL	108-95-2	ug/kg	1900000	175	< 2900 UJ	-	< 12000 R	< 12000 R	< 2800 UJ	< 1700 R	< 2700 R	< 1900 UJ	< 11000 R	-
PYRENE	129-00-0	ug/kg	180000	195	1600 J	-	< 6100 UJ	3200 J	4000	1200 J-	1500 J-	720 J	< 5600 UJ	-

Table 11
Sediment Analytical Results
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				Location	23A-0078-PLC1	23A-0079-PLC1	23A-0080-PLC1	23A-0080-PLC1	23A-0081-PLC1	23A-0083-PLC1	23A-0084-PLC1	23A-0085-PLC1	23A-0086-PLC1	23A-0087-PLC1
				Sample Name	23A-0078-PLC1-AS	23A-0079-PLC1-AS	23A-0080-PLC1-AS	23A-0080-PLC1-AT	23A-0081-PLC1-AS	23A-0083-PLC1-AS	23A-0084-PLC1-AS	23A-0085-PLC1-AS	23A-0086-PLC1-AS	23A-0087-PLC1-AS
				Sample Date	11/9/2023	10/30/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023	10/31/2023	10/30/2023	10/30/2023
				Sample Type	N	N	N	FD	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-	-	-	-	-
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-	-	-	-	-
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-	-	-	-	-
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-	-	-	-	-
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-	-	-	-	-
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-	-	-	-	-
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-	-	-	-	-
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-	-	-	-	-
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	-	-	-	-	-	-	-
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon														
TOTAL ORGANIC CARBON	TOC	mg/kg			3000	-	160000 J	140000 J	60000	12000	36000	17000	77000 J	-
AVS/SEM														
Acid Volatile Sulfide	AVS	umol/g			-	-	-	-	-	-	-	-	-	-
Cadmium	7440-43-9	umol/g			-	-	-	-	-	-	-	-	-	-
Copper	7440-50-8	umol/g			-	-	-	-	-	-	-	-	-	-
Lead	7439-92-1	umol/g			-	-	-	-	-	-	-	-	-	-
Nickel	7440-02-0	umol/g			-	-	-	-	-	-	-	-	-	-
Silver	7440-22-4	umol/g			-	-	-	-	-	-	-	-	-	-
Zinc	7440-66-6	umol/g			-	-	-	-	-	-	-	-	-	-
Mercury	7439-97-6	umol/g			-	-	-	-	-	-	-	-	-	-

Table 11
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					Location	23A-0088-PLC1	23A-0089-PLC1	23A-0091-PLC1	23A-0092-PLC1	23A-0093-PLC1	23A-0094-PLC1
					Sample Name	23A-0088-PLC1-AS	23A-0089-PLC1-AS	23A-0091-PLC1-AS	23A-0092-PLC1-AS	23A-0093-PLC1-AS	23A-0094-PLC1-AS
					Sample Date	10/31/2023	10/31/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL							
TCL Pesticides											
ALDRIN	309-00-2	ug/kg	39	29	-	< 5.5 U	< 4.7 U	< 3.1 U	< 10 UJ	< 6.1 UJ	
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	-	< 5.5 U	< 4.7 U	< 3.1 U	< 10 UJ	< 6.1 UJ	
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		-	< 5.5 U	< 4.7 U	< 3.1 U	< 10 UJ	< 6.1 UJ	
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	-	< 5.5 U	< 4.7 U	< 3.1 U	< 10 UJ	< 6.1 UJ	
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	-	< 11 U	< 9.1 U	< 6.1 U	< 20 UJ	< 12 UJ	
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		-	< 5.5 U	6.4	< 3.1 U	< 10 UJ	6.9 J	
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		-	< 5.5 U	< 4.7 U	< 3.1 U	< 10 UJ	< 6.1 UJ	
DIELDRIN	60-57-1	ug/kg	34	1.9	-	< 11 U	< 9.1 U	4.9 J	< 20 UJ	< 12 UJ	
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	-	< 11 U	< 9.1 U	< 6.1 U	< 20 UJ	< 12 UJ	
ENDRIN	72-20-8	ug/kg	1900	2.22	-	< 11 U	< 9.1 U	< 6.1 U	< 20 UJ	< 12 UJ	
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		-	< 11 U	< 9.1 U	5.7 J	< 20 UJ	< 12 UJ	
ENDRIN KETONE	53494-70-5	ug/kg	1900		-	< 11 U	< 9.1 U	< 6.1 U	< 20 UJ	< 12 UJ	
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	-	< 5.5 U	< 4.7 U	< 3.1 U	< 10 UJ	< 6.1 UJ	
HEPTACHLOR	76-44-8	ug/kg	130	0.6	-	< 5.5 U	< 4.7 U	< 3.1 U	< 10 UJ	< 6.1 UJ	
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	-	< 5.5 U	< 4.7 U	< 3.1 U	< 10 UJ	< 6.1 UJ	
METHOXYCHLOR	72-43-5	ug/kg	32000	30	-	< 55 U	< 47 U	34 J	< 100 UJ	< 61 UJ	
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	-	9.7 J	13 J	19 J+	24 J	7.4 J	
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	-	11 J	18 J	3.8 J	20 J	16 J	
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	-	6.8 J	12 J	10 J	< 20 UJ	11 J	
TOXAPHENE	8001-35-2	ug/kg	490	0.1	-	< 550 U	< 470 U	< 310 U	< 1000 UJ	< 610 UJ	
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		-	< 5.5 U	< 4.7 U	< 3.1 U	< 10 UJ	< 6.1 UJ	
Grain Size											
%CLAY	%CLAY	%			-	-	0	0	0	0	
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			-	-	0.9	11.5	0.9	0.1	
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			-	-	54	25.1	7.9	24.4	
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			-	-	3.1	23.3	0.8	2.7	
Gravel	GRAVEL	%			-	-	0	20	0	2	
Hydrometer, Reading 1, Percent Passing	HYD01	%			-	-	7.8	5.1	4.4	13.9	
Hydrometer, Reading 2, Percent Passing	HYD02	%			-	-	2	1.3	4.4	0	
Hydrometer, Reading 3, Percent Passing	HYD03	%			-	-	0	1.3	4.4	0	
Hydrometer, Reading 4, Percent Passing	HYD04	%			-	-	0	1.3	4.4	0	
Hydrometer, Reading 5, Percent Passing	HYD05	%			-	-	0	0	0	0	
Hydrometer, Reading 6, Percent Passing	HYD06	%			-	-	0	0	0	0	
Hydrometer, Reading 7, Percent Passing	HYD07	%			-	-	0	0	0	0	
Sand	308075-07-2	%			-	-	58	59.9	9.6	27.2	
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			-	-	99.1	68.5	99.1	97.9	
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			-	-	96	45.2	98.3	95.2	
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			-	-	72.4	27.5	96.3	86.3	
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			-	-	98.3	59.3	98.7	96.9	
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			-	-	88.8	33.3	97.9	92.5	
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			-	-	64	25.3	95.2	82.2	
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			-	-	42	20.1	90.4	70.8	
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			-	-	100	80	100	98	
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			-	-	100	93	100	100	
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			-	-	100	100	100	100	
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			-	-	100	100	100	100	
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			-	-	100	100	100	100	
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			-	-	100	100	100	100	
SILT	445	%			-	-	42	20.1	90.4	70.8	

Table 11
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					Location	23A-0088-PLC1	23A-0089-PLC1	23A-0091-PLC1	23A-0092-PLC1	23A-0093-PLC1	23A-0094-PLC1
					Sample Name	23A-0088-PLC1-AS	23A-0089-PLC1-AS	23A-0091-PLC1-AS	23A-0092-PLC1-AS	23A-0093-PLC1-AS	23A-0094-PLC1-AS
					Sample Date	10/31/2023	10/31/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL							
PCDD/F											
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	4680 J	1040	469 J	41.7 J	946 J	547 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	36.6	13.8	18.2	3.20	40.3 J	23.4 J
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	30.7	9.25	16.0	1.54 J	20.9 J	11.1 J
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	35.0	22.1	81.1 J	19.6 J	163 J	86.4 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	239	56.3	22.2	2.74	43.8 J	25.5 J
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	16.0	12.2	37.8	8.74	75.4 J	43.0 J
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	122	30.7	18.3	2.01 J	38.9 J	21.3 J
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	< 0.997 U	< 1.17 U	< 1.02 U	< 0.446 U	< 1.85 UJ	< 0.929 UJ
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	11.2 J	4.12 J	4.67 JN	1.08 JN	9.32 J	5.31 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	3.14	3.01	9.02	2.88	14.5 J	9.73 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	1400	613	477	108	1240 J	648 J
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	21.7	11.8	20.0	6.21	41.9 J	25.0 J
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	13.6	9.60	22.7 J	12.4 J	38.4 J	26.2 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	1.47 J	1.14 J	1.50 JN	< 0.481 UJ	2.24 J	1.2 JN
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	5.79	5.49	14.6	4.29	12.6 J	10.3 J
OCDD	3268-87-9	pg/g	16000	5000	27600 J	6350	2710 EB	331 EB	7600 JEB	4760 JEB
OCDF	39001-02-0	pg/g	16000	5000	1470	512	448 J	71.8 J	1270 J	699 J
Total HpCDD (a)	RA_Total_HpCDD	pg/g			4680	1040	469	41.7	946	547
Total HpCDF (a)	RA_Total_HpCDF	pg/g			1440	627	495	111	1280	671
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		392	96.3	56.5	6.29	104	57.9
Total HxCDF (a)	RA_Total_HxCDF	pg/g			72.7	46.1	139	34.6	280	154
Total PeCDD (a)	RA_Total_PeCDD	pg/g			11.2	4.12	4.67	1.08	9.32	5.31
Total PeCDF (a)	RA_Total_PeCDF	pg/g			16.7	12.6	31.7	15.3	52.9	35.9
Total TCDD (a)	RA_Total_TCDD	pg/g			1.47	1.14	1.50	< 0.481 U	2.24	1.2
Total TCDF (a)	RA_Total_TCDF	pg/g			5.79	5.49	14.6	4.29	12.6	10.3
PCB Congeners										
PCB-001	2051-60-7	ng/g	230	14.0	< 0.0347 U	< 0.0369 U	< 0.0374 U	< 0.0357 U	< 0.0545 UJ	< 0.0373 UJ
PCB-002	2051-61-8	ng/g	230	14.0	< 0.0501 U	< 0.0532 U	< 0.0539 U	< 0.0515 U	< 0.0786 UJ	< 0.0538 UJ
PCB-003	2051-62-9	ng/g	230	14.0	< 0.0488 U	< 0.0519 U	< 0.0526 U	< 0.0502 U	< 0.0766 UJ	< 0.0524 UJ
PCB-004/010	PCB-4/10	ng/g	230	14.0	2.33 J	3.06 J	< 0.0940 U	< 0.0897 U	< 0.137 UJ	1.09 J
PCB-005/008	PCB-5/8	ng/g	230	14.0	2.63 J	2.98 J	< 0.0898 U	< 0.0857 U	< 0.131 UJ	1.13 J
PCB-006	25569-80-6	ng/g	230	14.0	0.940 J	0.977 J	< 0.0524 U	< 0.0500 U	< 0.0763 UJ	0.400 J
PCB-007/009	PCB-7/9	ng/g	230	14.0	< 0.0843 U	< 0.0896 U	< 0.0908 U	< 0.0866 U	< 0.132 UJ	< 0.0905 UJ
PCB-011	2050-67-1	ng/g	230	14.0	< 0.0464 U	< 0.0493 U	< 0.0500 U	< 0.0477 U	< 0.0728 UJ	0.578 J
PCB-012/013	PCB-12/13	ng/g	230	14.0	< 0.0835 U	< 0.0888 U	< 0.0900 U	< 0.0859 U	< 0.131 UJ	< 0.0897 UJ
PCB-014	34883-41-5	ng/g	230	14.0	< 0.0466 U	< 0.0495 U	< 0.0502 U	< 0.0479 U	< 0.0731 UJ	< 0.0500 UJ
PCB-015	2050-68-2	ng/g	230	14.0	0.868 J	< 0.0454 U	2.26 J	< 0.0439 U	1.52 J	2.26 J
PCB-016/032	PCB-16/32	ng/g	230	14.0	3.58 J	5.14 J	< 0.131 U	< 0.125 U	< 0.190 UJ	2.64 J
PCB-017	37680-66-3	ng/g	230	14.0	3.62 J	4.50 J	< 0.0575 U	< 0.0549 U	4.80 J	4.69 J
PCB-018	37680-65-2	ng/g	230	14.0	3.58 J	4.97 J	< 0.0665 U	< 0.0635 U	2.03 J	2.18 J
PCB-019	38444-73-4	ng/g	230	14.0	1.43 J	1.54 J	< 0.0452 U	< 0.0431 U	< 0.0658 UJ	0.802 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	< 0.129 U	3.97 J	< 0.139 U	< 0.133 U	< 0.203 UJ	< 0.139 UJ
PCB-022	38444-85-8	ng/g	230	14.0	< 0.0460 U	1.70 J	< 0.0496 U	< 0.0473 U	< 0.0722 UJ	< 0.0494 UJ
PCB-023/034	PCB-23/34	ng/g	230	14.0	< 0.0841 U	< 0.0894 U	< 0.0906 U	< 0.0865 U	< 0.132 UJ	< 0.0903 UJ
PCB-024/027	PCB-24/27	ng/g	230	14.0	0.591 J	1.40 J	< 0.0880 U	< 0.0840 U	< 0.128 UJ	0.739 J
PCB-025	55712-37-3	ng/g	230	14.0	< 0.0473 U	< 0.0503 U	< 0.0510 U	< 0.0486 U	< 0.0742 UJ	1.31 J
PCB-026	38444-81-4	ng/g	230	14.0	< 0.0403 U	2.26 J	< 0.0434 U	< 0.0414 U	< 0.0632 UJ	1.86 J
PCB-028	7012-37-5	ng/g	230	14.0	2.58 J	4.39 J	4.81 J	< 0.0456 U	5.59 J	8.58 J
PCB-029	15862-07-4	ng/g	230	14.0	< 0.0486 U	< 0.0517 U	< 0.0524 U	< 0.0500 U	< 0.0763 UJ	< 0.0522 UJ

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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					Location	23A-0088-PLC1	23A-0089-PLC1	23A-0091-PLC1	23A-0092-PLC1	23A-0093-PLC1	23A-0094-PLC1
					Sample Name	23A-0088-PLC1-AS	23A-0089-PLC1-AS	23A-0091-PLC1-AS	23A-0092-PLC1-AS	23A-0093-PLC1-AS	23A-0094-PLC1-AS
					Sample Date	10/31/2023	10/31/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL							
PCB-030	35693-92-6	ng/g	230	14.0		< 0.0445 U	< 0.0473 U	< 0.0480 U	< 0.0458 U	< 0.0699 UJ	< 0.0478 UJ
PCB-031	16606-02-3	ng/g	230	14.0		2.23 J	4.15 J	2.50 J	< 0.0576 U	3.29 J	4.11 J
PCB-035	37680-69-6	ng/g	230	14.0		< 0.0528 U	< 0.0562 U	< 0.0569 U	< 0.0543 U	< 0.0829 UJ	< 0.0568 UJ
PCB-036	38444-87-0	ng/g	230	14.0		< 0.0451 U	< 0.0479 U	< 0.0486 U	< 0.0464 U	< 0.0708 UJ	< 0.0484 UJ
PCB-037	38444-90-5	ng/g	230	14.0		< 0.0495 U	< 0.0527 U	< 0.0534 U	< 0.0509 U	< 0.0777 UJ	< 0.0532 UJ
PCB-038	53555-66-1	ng/g	230	14.0		< 0.0373 U	< 0.0397 U	< 0.0402 U	< 0.0384 U	< 0.0586 UJ	< 0.0401 UJ
PCB-039	38444-88-1	ng/g	230	14.0		< 0.0229 U	< 0.0244 U	< 0.0247 U	< 0.0236 U	< 0.0360 UJ	< 0.0246 UJ
PCB-040	38444-93-8	ng/g	230	14.0		< 0.0383 U	< 0.0407 U	< 0.0412 U	< 0.0393 U	< 0.0600 UJ	< 0.0411 UJ
PCB-041/064	PCB-41/64	ng/g	230	14.0		< 0.0868 U	1.65 J	1.26 J	0.741 J	2.09 J	2.15 J
PCB-042	36559-22-5	ng/g	230	14.0		< 0.0955 U	< 0.102 U	< 0.103 U	< 0.0982 U	< 0.150 UJ	1.65 J
PCB-043/049	PCB-43/49	ng/g	230	14.0		5.78 J	9.09 J	5.72 J	2.00 J	7.32 J	7.89 J
PCB-044	41464-39-5	ng/g	230	14.0		2.70 J	4.65 J	3.21 J	1.38 J	3.57 J	4.58 J
PCB-045	70362-45-7	ng/g	230	14.0		< 0.0416 U	< 0.0442 U	< 0.0448 U	< 0.0428 U	< 0.0652 UJ	< 0.0447 UJ
PCB-046	41464-47-5	ng/g	230	14.0		< 0.0486 U	< 0.0517 U	< 0.0524 U	< 0.0500 U	< 0.0763 UJ	< 0.0522 UJ
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0		2.26 J	5.21 J	2.19 J	0.819 J	3.47 J	4.22 J
PCB-050	62796-65-0	ng/g	230	14.0		< 0.0593 U	< 0.0631 U	< 0.0639 U	< 0.0610 U	< 0.0931 UJ	< 0.0637 UJ
PCB-051	68194-04-7	ng/g	230	14.0		< 0.0504 U	1.15 J	< 0.0543 U	< 0.0519 U	< 0.0792 UJ	0.642 J
PCB-052/073	PCB-52/73	ng/g	230	14.0		6.99 J	11.4 J	5.44 J	3.12 J	6.97 J	8.27 J
PCB-053	41464-41-9	ng/g	230	14.0		1.74 J	2.82 J	1.05 J	0.340 J	1.62 J	1.59 J
PCB-054	15968-05-5	ng/g	230	14.0		< 0.0394 U	< 0.0418 U	< 0.0424 U	< 0.0405 U	< 0.0618 UJ	< 0.0423 UJ
PCB-055	74338-24-2	ng/g	230	14.0		< 0.0512 U	< 0.0544 U	< 0.0551 U	< 0.0526 U	< 0.0803 UJ	< 0.0550 UJ
PCB-056/060	PCB-56/60	ng/g	230	14.0		< 0.100 U	1.42 J	2.17 J	0.876 J	2.74 J	2.71 J
PCB-057	70424-67-8	ng/g	230	14.0		< 0.0395 U	< 0.0420 U	< 0.0426 U	< 0.0407 U	< 0.0621 UJ	< 0.0425 UJ
PCB-058	41464-49-7	ng/g	230	14.0		< 0.0358 U	< 0.0381 U	< 0.0386 U	< 0.0369 U	< 0.0563 UJ	< 0.0385 UJ
PCB-059	74472-33-6	ng/g	230	14.0		< 0.0702 U	< 0.0747 U	< 0.0756 U	< 0.0722 U	< 0.110 UJ	< 0.0754 UJ
PCB-061/074	PCB-61/74	ng/g	230	14.0		0.794 J	1.43 J	1.90 J	0.790 J	2.36 J	2.67 J
PCB-062	54230-22-7	ng/g	230	14.0		< 0.0490 U	< 0.0521 U	< 0.0528 U	< 0.0504 U	< 0.0768 UJ	< 0.0526 UJ
PCB-063	74472-34-7	ng/g	230	14.0		< 0.0368 U	< 0.0391 U	< 0.0396 U	< 0.0378 U	< 0.0577 UJ	< 0.0395 UJ
PCB-065	33284-54-7	ng/g	230	14.0		< 0.0706 U	< 0.0750 U	< 0.0760 U	< 0.0726 U	< 0.111 UJ	< 0.0758 UJ
PCB-066/080	PCB-66/80	ng/g	230	14.0		2.47 J	4.56 J	4.25 J	1.77 J	5.13 J	5.95 J
PCB-067	73575-53-8	ng/g	230	14.0		< 0.0432 U	< 0.0460 U	< 0.0466 U	< 0.0445 U	< 0.0679 UJ	< 0.0464 UJ
PCB-068	73575-52-7	ng/g	230	14.0		< 0.0512 U	< 0.0544 U	< 0.0551 U	< 0.0526 U	< 0.0803 UJ	< 0.0550 UJ
PCB-069	60233-24-1	ng/g	230	14.0		< 0.0532 U	< 0.0566 U	< 0.0573 U	< 0.0547 U	< 0.0835 UJ	< 0.0572 UJ
PCB-070	32598-11-1	ng/g	230	14.0		2.93 J	5.39 J	4.17 J	2.16 J	5.60 J	6.02 J
PCB-071	41464-46-4	ng/g	230	14.0		< 0.0650 U	2.28 J	1.97 J	0.605 J	4.50 J	2.24 J
PCB-072	41464-42-0	ng/g	230	14.0		< 0.0577 U	< 0.0613 U	< 0.0621 U	< 0.0593 U	< 0.0905 UJ	< 0.0619 UJ
PCB-076	70362-48-0	ng/g	230	14.0		< 0.0708 U	< 0.0752 U	< 0.0762 U	< 0.0728 U	< 0.111 UJ	< 0.0760 UJ
PCB-077	32598-13-3	ng/g	38.0	14.0		< 0.0418 U	< 0.0444 U	< 0.0450 U	< 0.0429 U	< 0.0655 UJ	< 0.0449 UJ
PCB-078	70362-49-1	ng/g	230	14.0		< 0.0362 U	< 0.0385 U	< 0.0390 U	< 0.0372 U	< 0.0568 UJ	< 0.0389 UJ
PCB-079	41464-48-6	ng/g	230	14.0		< 0.0455 U	< 0.0483 U	< 0.0490 U	< 0.0467 U	< 0.0713 UJ	< 0.0488 UJ
PCB-081	70362-50-4	ng/g	12.0	14.0		< R	< R	< 0.0764 U	< 0.0730 U	< 0.111 UJ	< 0.0762 UJ
PCB-082	52663-62-4	ng/g	230	14.0		< 0.0261 U	< 0.0277 U	< 0.0281 U	0.683 J	< 0.0409 UJ	0.943 J
PCB-083/109	PCB-83/109	ng/g	230	14.0		< 0.112 U	< 0.119 U	< 0.121 U	< 0.115 U	< 0.176 UJ	< 0.120 UJ
PCB-084	52663-60-2	ng/g	230	14.0		4.03 J	4.36 J	1.95 J	1.84 J	2.34 J	2.76 J
PCB-085/120	PCB-85/120	ng/g	230	14.0		2.39 J	3.27 J	2.11 J	1.62 J	2.60 J	2.30 J
PCB-086/097	PCB-86/97	ng/g	230	14.0		3.87 J	4.72 J	2.17 J	2.19 J	2.78 J	3.69 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0		< 0.0285 U	< 0.0303 U	< 0.0307 U	< 0.0293 U	< 0.0447 UJ	< 0.0306 UJ
PCB-088/121	PCB-88/121	ng/g	230	14.0		< 0.103 U	< 0.109 U	< 0.111 U	< 0.106 U	< 0.162 UJ	< 0.111 UJ
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0		15.3 J	17.6 J	9.21 J	7.85 J	11.6 J	12.1 J
PCB-091	68194-05-8	ng/g	230	14.0		2.69 J	2.85 J	< 0.0621 U	1.04 J	1.64 J	1.85 J

Table 11
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				Location	23A-0088-PLC1	23A-0089-PLC1	23A-0091-PLC1	23A-0092-PLC1	23A-0093-PLC1	23A-0094-PLC1
				Sample Name	23A-0088-PLC1-AS	23A-0089-PLC1-AS	23A-0091-PLC1-AS	23A-0092-PLC1-AS	23A-0093-PLC1-AS	23A-0094-PLC1-AS
				Sample Date	10/31/2023	10/31/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
				Sample Type	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL						
PCB-092	52663-61-3	ng/g	230	14.0	3.31 J	3.74 J	1.72 J	1.39 J	2.11 J	2.18 J
PCB-093/095	PCB-93/95	ng/g	230	14.0	12.7 J	14.3 J	5.55 J	5.65 J	6.97 J	8.60 J
PCB-094	73575-55-0	ng/g	230	14.0	< 0.0850 U	< 0.0904 U	< 0.0916 U	< 0.0874 U	< 0.133 UJ	< 0.0913 UJ
PCB-096	73575-54-9	ng/g	230	14.0	< 0.0401 U	< 0.0426 U	< 0.0432 U	< 0.0412 U	< 0.0629 UJ	< 0.0431 UJ
PCB-098/102	PCB-98/102	ng/g	230	14.0	< 0.0743 U	< 0.0790 U	< 0.0800 U	0.332 J	1.64 J	0.664 J
PCB-099	38380-01-7	ng/g	230	14.0	6.83 J	8.15 J	4.06 J	3.04 J	5.09 J	5.43 J
PCB-100	39485-83-1	ng/g	230	14.0	< 0.0453 U	< 0.0481 U	< 0.0488 U	< 0.0466 U	< 0.0710 UJ	< 0.0486 UJ
PCB-103	60145-21-3	ng/g	230	14.0	< 0.0468 U	< 0.0497 U	< 0.0504 U	< 0.0481 U	< 0.0734 UJ	< 0.0502 UJ
PCB-104	56558-16-8	ng/g	230	14.0	< 0.0432 U	< 0.0460 U	< 0.0466 U	< 0.0445 U	< 0.0679 UJ	< 0.0464 UJ
PCB-105/127	PCB-105/127	ng/g	120	14.0	2.38 J	3.53 J	2.76 J	2.25 J	3.69 J	4.20 J
PCB-106/118	PCB-106/118	ng/g	120	14.0	10.5 J	13.6 J	8.40 J	6.42 J	11.3 J	11.3 J
PCB-107/108	PCB-107/108	ng/g	230	14.0	< 0.0900 U	< 0.0957 U	< 0.0969 U	< 0.0925 U	< 0.141 UJ	< 0.0967 UJ
PCB-110	38380-03-9	ng/g	230	14.0	20.2 J	23.6 J	9.58 J	9.30 J	11.3 J	14.1 J
PCB-111/117	PCB-111/117	ng/g	230	14.0	4.79 J	5.30 J	2.80 J	2.67 J	3.91 J	4.35 J
PCB-112	74472-36-9	ng/g	230	14.0	< 0.0445 U	< 0.0473 U	< 0.0480 U	< 0.0458 U	< 0.0699 UJ	< 0.0478 UJ
PCB-113	68194-10-5	ng/g	230	14.0	< 0.0468 U	< 0.0497 U	< 0.0504 U	< 0.0481 U	< 0.0734 UJ	< 0.0502 UJ
PCB-114	74472-37-0	ng/g	120	14.0	< 0.0388 U	< 0.0413 U	< 0.0418 U	< 0.0399 U	< 0.0609 UJ	< 0.0417 UJ
PCB-119	56558-17-9	ng/g	230	14.0	< 0.0514 U	< 0.0546 U	< 0.0553 U	< 0.0528 U	< 0.0806 UJ	< 0.0552 UJ
PCB-122	76842-07-4	ng/g	230	14.0	< 0.0327 U	< 0.0348 U	< 0.0352 U	< 0.0336 U	< 0.0513 UJ	< 0.0351 UJ
PCB-123	65510-44-3	ng/g	120	14.0	< 0.0303 U	< 0.0322 U	< 0.0326 U	< 0.0312 U	< 0.0476 UJ	< 0.0325 UJ
PCB-124	70424-70-3	ng/g	230	14.0	< 0.0408 U	< 0.0434 U	< 0.0440 U	< 0.0420 U	< 0.0641 UJ	< 0.0439 UJ
PCB-125	74472-39-2	ng/g	230	14.0	< 0.0447 U	< 0.0475 U	< 0.0482 U	< 0.0460 U	< 0.0702 UJ	< 0.0480 UJ
PCB-126	57465-28-8	ng/g	0.0360	14.0	< 0.0636 U	< 0.0676 U	< 0.0685 U	< 0.0654 U	< 0.0997 UJ	< 0.0683 UJ
PCB-128	38380-07-3	ng/g	230	14.0	5.57 J	5.14 J	2.56 J	1.94 J	3.53 J	3.24 J
PCB-129	55215-18-4	ng/g	230	14.0	< 0.0493 U	< 0.0525 U	< 0.0532 U	< 0.0507 U	< 0.0774 UJ	< 0.0530 UJ
PCB-130	52663-66-8	ng/g	230	14.0	1.70 J	< 0.0413 U	< 0.0418 U	0.709 J	< 0.0609 UJ	< 0.0417 UJ
PCB-131/142	PCB-131/142	ng/g	230	14.0	< 0.0955 U	< 0.102 U	< 0.103 U	< 0.0982 U	< 0.150 UJ	< 0.103 UJ
PCB-132/168	PCB-132/168	ng/g	230	14.0	8.04 J	7.90 J	3.15 J	2.93 J	4.64 J	4.44 J
PCB-133	35694-04-3	ng/g	230	14.0	< 0.0347 U	< 0.0369 U	< 0.0374 U	< 0.0357 U	< 0.0545 UJ	< 0.0373 UJ
PCB-134	52704-70-8	ng/g	230	14.0	1.10 J	< 0.0978 U	< 0.0991 U	< 0.0946 U	< 0.144 UJ	< 0.0988 UJ
PCB-135/144	PCB-135/144	ng/g	230	14.0	3.18 J	3.01 J	1.22 J	1.19 J	1.98 J	1.99 J
PCB-136	38411-22-2	ng/g	230	14.0	2.42 J	2.38 J	0.818 J	1.01 J	1.46 J	1.50 J
PCB-137	35694-06-5	ng/g	230	14.0	1.77 J	< 0.0479 U	< 0.0486 U	0.575 J	< 0.0708 UJ	< 0.0484 UJ
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	26.8 J	25.1 J	12.8 J	10.0 J	17.3 J	16.5 J
PCB-139/149	PCB-139/149	ng/g	230	14.0	14.3 J	13.6 J	5.90 J	5.57 J	8.64 J	8.83 J
PCB-140	59291-64-4	ng/g	230	14.0	< 0.0658 U	< 0.0699 U	< 0.0709 U	< 0.0676 U	< 0.103 UJ	< 0.0707 UJ
PCB-141	52712-04-6	ng/g	230	14.0	4.18 J	3.66 J	2.10 J	1.57 J	2.96 J	2.80 J
PCB-143	68194-15-0	ng/g	230	14.0	< 0.0593 U	< 0.0631 U	< 0.0639 U	< 0.0610 U	< 0.0931 UJ	< 0.0637 UJ
PCB-145	74472-40-5	ng/g	230	14.0	< 0.0783 U	< 0.0833 U	< 0.0844 U	< 0.0806 U	< 0.123 UJ	< 0.0842 UJ
PCB-146	51908-16-8	ng/g	230	14.0	2.62 J	2.71 J	1.43 J	1.03 J	1.83 J	1.63 J
PCB-147	68194-13-8	ng/g	230	14.0	< 0.0691 U	< 0.0735 U	< 0.0745 U	< 0.0711 U	< 0.108 UJ	< 0.0742 UJ
PCB-148	74472-41-6	ng/g	230	14.0	< 0.0724 U	< 0.0770 U	< 0.0780 U	< 0.0745 U	< 0.114 UJ	< 0.0778 UJ
PCB-150	68194-08-1	ng/g	230	14.0	< 0.0732 U	< 0.0778 U	< 0.0788 U	< 0.0752 U	< 0.115 UJ	< 0.0786 UJ
PCB-151	52663-63-5	ng/g	230	14.0	2.80 J	2.91 J	1.49 J	1.22 J	2.63 J	2.13 J
PCB-152	68194-09-2	ng/g	230	14.0	< 0.0856 U	< 0.0910 U	< 0.0922 U	< 0.0880 U	< 0.134 UJ	< 0.0919 UJ
PCB-153	35065-27-1	ng/g	230	14.0	16.7 J	15.6 J	8.58 J	6.46 J	12.6 J	11.1 J
PCB-154	60145-22-4	ng/g	230	14.0	< 0.0510 U	< 0.0542 U	< 0.0549 U	< 0.0524 U	< 0.0800 UJ	< 0.0548 UJ
PCB-155	33979-03-2	ng/g	230	14.0	< 0.0440 U	< 0.0468 U	< 0.0474 U	< 0.0452 U	< 0.0690 UJ	< 0.0472 UJ
PCB-156	38380-08-4	ng/g	120	14.0	1.68 J	1.87 J	< 0.0398 R	0.829 J-	< 0.0580 R	1.45 J
PCB-157	69782-90-7	ng/g	120	14.0	< 0.0514 U	< 0.0546 U	< 0.0553 UJ	< 0.0528 UJ	< 0.0806 UJ	< 0.0552 UJ

Table 11
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Boston, Massachusetts

				Location	23A-0088-PLC1	23A-0089-PLC1	23A-0091-PLC1	23A-0092-PLC1	23A-0093-PLC1	23A-0094-PLC1
				Sample Name	23A-0088-PLC1-AS	23A-0089-PLC1-AS	23A-0091-PLC1-AS	23A-0092-PLC1-AS	23A-0093-PLC1-AS	23A-0094-PLC1-AS
				Sample Date	10/31/2023	10/31/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
				Sample Type	N	N	N	N	N	N
				Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL						
PCB-158/160	PCB-158/160	ng/g	230	14.0	2.68 J	2.31 J	0.967 J	0.812 J	1.68 J	1.35 J
PCB-159	39635-35-3	ng/g	230	14.0	< 0.0710 U	< 0.0754 U	< 0.0764 U	< 0.0730 U	< 0.111 UJ	< 0.0762 UJ
PCB-161	74472-43-8	ng/g	230	14.0	< 0.0663 U	< 0.0705 U	< 0.0715 U	< 0.0682 U	< 0.104 UJ	< 0.0712 UJ
PCB-162	39635-34-2	ng/g	230	14.0	< 0.0523 U	< 0.0556 U	1.64 J	< 0.0538 U	3.01 J	< 0.0562 UJ
PCB-165	74472-46-1	ng/g	230	14.0	< 0.0717 U	< 0.0762 U	< 0.0772 U	< 0.0737 U	< 0.113 UJ	< 0.0770 UJ
PCB-166	41411-63-6	ng/g	230	14.0	< 0.0617 U	< 0.0656 U	< 0.0665 U	< 0.0635 U	< 0.0969 UJ	< 0.0663 UJ
PCB-167	52663-72-6	ng/g	120	14.0	1.23 J	0.708 J	< 0.0512 U	< 0.0488 U	< 0.0745 UJ	< 0.0510 UJ
PCB-169	32774-16-6	ng/g	0.120	14.0	< 0.0523 U	< 0.0556 U	< 0.0563 U	< 0.0538 U	< 0.0821 UJ	< 0.0562 UJ
PCB-170/190	PCB-170/190	ng/g	230	14.0	3.83 J	3.20 J	2.85 J	1.80 J	4.30 J	3.70 J
PCB-171	52663-71-5	ng/g	230	14.0	0.967 J	< 0.0727 U	0.590 J	0.400 J	0.836 J	0.878 J
PCB-172/192	PCB-172/192	ng/g	230	14.0	< 0.113 U	< 0.121 U	< 0.122 U	< 0.117 U	0.583 J	< 0.122 UJ
PCB-173	68194-16-1	ng/g	230	14.0	< 0.0765 U	< 0.0813 U	< 0.0824 U	< 0.0787 U	< 0.120 UJ	< 0.0822 UJ
PCB-174	38411-25-5	ng/g	230	14.0	3.09 J	2.62 J	2.62 J	1.79 J	3.85 J	3.53 J
PCB-175	40186-70-7	ng/g	230	14.0	< 0.0589 U	< 0.0627 U	< 0.0635 U	< 0.0606 U	< 0.0925 UJ	< 0.0633 UJ
PCB-176	52663-65-7	ng/g	230	14.0	0.304 J	< 0.0585 U	< 0.0593 U	0.182 J	0.462 J	0.333 J
PCB-177	52663-70-4	ng/g	230	14.0	1.72 J	1.42 J	0.987 J	0.938 J	1.85 J	1.58 J
PCB-178	52663-67-9	ng/g	230	14.0	0.516 J	< 0.0917 U	0.378 J	0.329 J	0.747 J	0.628 J
PCB-179	52663-64-6	ng/g	230	14.0	0.933 J	0.752 J	0.891 J	0.571 J	1.40 J	1.15 J
PCB-180	35065-29-3	ng/g	230	14.0	6.54 J	5.28 J	5.75 J	3.59 J	8.46 J	7.22 J
PCB-181	74472-47-2	ng/g	230	14.0	< 0.0523 U	< 0.0556 U	< 0.0563 U	< 0.0538 U	< 0.0821 UJ	< 0.0562 UJ
PCB-182/187	PCB-182/187	ng/g	230	14.0	3.13 J	2.85 J	2.70 J	1.98 J	4.10 J	3.92 J
PCB-183	52663-69-1	ng/g	230	14.0	1.72 J	1.32 J	1.20 J	0.818 J	2.09 J	1.71 J
PCB-184	74472-48-3	ng/g	230	14.0	< 0.0495 U	< 0.0527 U	< 0.0534 U	< 0.0509 U	< 0.0777 UJ	< 0.0532 UJ
PCB-185	52712-05-7	ng/g	230	14.0	< 0.0686 U	< 0.0729 U	< 0.0739 U	< 0.0705 U	< 0.108 UJ	< 0.0736 UJ
PCB-186	74472-49-4	ng/g	230	14.0	< 0.0619 U	< 0.0658 U	< 0.0667 U	< 0.0637 U	< 0.0971 UJ	< 0.0665 UJ
PCB-188	74487-85-7	ng/g	230	14.0	< 0.0567 U	< 0.0603 U	< 0.0611 U	< 0.0583 U	< 0.0890 UJ	< 0.0609 UJ
PCB-189	39635-31-9	ng/g	130	14.0	< 0.0577 U	< 0.0613 U	< 0.0621 U	< 0.0593 U	< 0.0905 UJ	< 0.0619 UJ
PCB-191	74472-50-7	ng/g	230	14.0	< 0.0521 U	< 0.0554 U	< 0.0561 U	< 0.0536 U	< 0.0818 UJ	< 0.0560 UJ
PCB-193	69782-91-8	ng/g	230	14.0	< 0.0658 U	< 0.0699 U	< 0.0709 U	< 0.0676 U	0.299 J	0.331 J
PCB-194	35694-08-7	ng/g	230	14.0	2.63 J	< 0.0884 U	3.62 J	2.69 J	4.20 J	3.04 J
PCB-195	52663-78-2	ng/g	230	14.0	< 0.147 U	< 0.157 U	< 0.159 U	< 0.151 U	< 0.231 UJ	1.21 J
PCB-196/203	PCB-196/203	ng/g	230	14.0	1.91 J	1.35 J	2.94 J	1.39 J	3.84 J	3.22 J
PCB-197	33091-17-7	ng/g	230	14.0	< 0.0623 U	< 0.0662 U	< 0.0671 U	< 0.0640 U	< 0.0977 UJ	< 0.0669 UJ
PCB-198	68194-17-2	ng/g	230	14.0	< 0.101 U	< 0.107 U	< 0.109 U	< 0.104 U	< 0.159 UJ	< 0.109 UJ
PCB-199	52663-75-9	ng/g	230	14.0	2.03 J	1.12 J	2.27 J	1.20 J	2.95 J	2.90 J
PCB-200	52663-73-7	ng/g	230	14.0	< 0.0495 U	< 0.0527 U	< 0.0534 U	< 0.0509 U	< 0.0777 UJ	< 0.0532 UJ
PCB-201	40186-71-8	ng/g	230	14.0	< 0.0392 U	< 0.0416 U	< 0.0422 U	< 0.0403 U	< 0.0615 UJ	< 0.0421 UJ
PCB-202	2136-99-4	ng/g	230	14.0	< 0.0669 U	< 0.0711 U	< 0.0721 U	< 0.0688 U	< 0.105 UJ	< 0.0718 UJ
PCB-204	74472-52-9	ng/g	230	14.0	< 0.0819 U	< 0.0870 U	< 0.0882 U	< 0.0842 U	< 0.128 UJ	< 0.0879 UJ
PCB-205	74472-53-0	ng/g	230	14.0	< 0.0580 U	< 0.0617 U	< 0.0625 U	< 0.0597 U	< 0.0911 UJ	< 0.0623 UJ
PCB-206	40186-72-9	ng/g	230	14.0	1.19 J	1.03 J	3.68 J	1.66 J	5.90 J	4.83 J
PCB-207	52663-79-3	ng/g	230	14.0	< 0.0735 U	< 0.0782 U	0.324 J	< 0.0756 U	0.458 J	0.308 J
PCB-208	52663-77-1	ng/g	230	14.0	0.572 J	< 0.0782 U	1.62 J	0.761 J	2.57 J	1.85 J
PCB-209	2051-24-3	ng/g	230	14.0	1.57 J	0.654 J	4.87 J	2.14 J	7.56 J	5.30 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	1.57	0.654	4.87	2.14	7.56	5.30
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	22.8	17.4	18.0	12.4	29.0	25.0
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	96.8	86.9	42.7	35.8	62.3	57.0
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	6.57	2.47	8.83	5.28	11.0	10.4
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	268	306	173	119	248	262
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	89.0	105	50.3	46.3	67.0	74.5
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	6.77	7.02	2.26	< 0.0897 U	1.52	5.46
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	< 0.0501 U	< 0.0532 U	< 0.0539 U	< 0.0515 U	< 0.0786 U	< 0.0538 U
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	1.76	1.03	5.62	2.42	8.93	6.99
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	25.7	51.0	33.3	14.6	45.4	50.6
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	17.6	34.0	7.31	< 0.133 U	15.7	26.9

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0088-PLC1	23A-0089-PLC1	23A-0091-PLC1	23A-0092-PLC1	23A-0093-PLC1	23A-0094-PLC1
					Sample Name	23A-0088-PLC1-AS	23A-0089-PLC1-AS	23A-0091-PLC1-AS	23A-0092-PLC1-AS	23A-0093-PLC1-AS	23A-0094-PLC1-AS
					Sample Date	10/31/2023	10/31/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL							
TAL Metals and Mercury											
Aluminum	7429-90-5	mg/kg	7700	25000	-	4400 J	6300 J	5500 J	8700 J	9800 J	
Calcium	7440-70-2	mg/kg			-	2200 J	2700	2700	3300	4300	
Iron	7439-89-6	mg/kg	5500	20000	-	8600 J	10000 J	13000 J	14000 J	15000 J	
Magnesium	7439-95-4	mg/kg			-	1500 J	1800	2000	2400	2900	
Potassium	7440-09-7	mg/kg			-	420 J	520 J	440 J	790	860	
Sodium	7440-23-5	mg/kg			-	170 J	220 J-	120 J-	1600	820	
Antimony	7440-36-0	mg/kg	3.1	2	-	0.17 J	< 2.6 UJ	< 1.4 UJ	< 0.99 UJ	< 1.0 UJ	
Arsenic	7440-38-2	mg/kg	0.68	9.8	-	1.8	3.5	2.8	5.0	4.0	
Barium	7440-39-3	mg/kg	1500	20	-	36	62	30	130	100	
Beryllium	7440-41-7	mg/kg	16		-	0.18 J	< 1.3 U	< 0.68 U	0.57	< 0.50 U	
Cadmium	7440-43-9	mg/kg	0.71	1	-	0.48 J	1.3	0.35 J	2.0	2.1	
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	-	19 EB	30 EB	28 EB	47 EB	46 EB	
Cobalt	7440-48-4	mg/kg	2.3	50	-	4.0	5.9	3.0	7.9	8.5	
Copper	7440-50-8	mg/kg	310	31.6	-	23	41 J	28 J	71 J	70 J	
Lead	7439-92-1	mg/kg	200	35.8	-	36	92	51	140	120	
Manganese	7439-96-5	mg/kg	180	460	-	340 JEB	230 EB	150 EB	560 EB	290 EB	
Nickel	7440-02-0	mg/kg	140	22.7	-	7.0	9.4	5.3	14	14	
Selenium	7782-49-2	mg/kg	39	11	-	< 4.8 U	< 6.5 U	< 3.4 U	1.3 J	1.5 J	
Silver	7440-22-4	mg/kg	39	1	-	0.13 J	0.25 J	0.074 J	0.38 J	0.30 J	
Thallium	7440-28-0	mg/kg	0.078		-	< 0.96 U	0.058 J	< 0.68 U	0.090 J	0.13 J	
Vanadium	7440-62-2	mg/kg	39		-	8.1	12	11	17	14	
Zinc	7440-66-6	mg/kg	2300	121	-	100 EB	200 EB	66 EB	340 EB	370 EB	
Mercury	7439-97-6	mg/kg	2.3	0.18	-	0.31 J-	0.35	0.19	0.36	0.48	
Total Cyanide											
CYANIDE	57-12-5	mg/kg	2.3		-	< 0.94 U	< 1.4 UJ	< 0.76 UJ	1.8 J	0.54 J	
TCL VOCs											
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	-	< 8.5 UJ	< 17 UJ	< 10 UJ	< 39 UJ	< 18 UJ	
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	-	< 8.5 UJ	< 17 UJ	< 10 UJ	< 39 UJ	< 18 UJ	
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	-	< 8.5 U	< 17 UJ	< 10 UJ	< 39 UJ	< 18 UJ	
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		-	< 8.5 U	< 17 UJ	< 10 UJ	< 39 UJ	< 18 UJ	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	-	< 8.5 UJ	< 17 UJ	< 10 UJ	< 39 UJ	< 18 UJ	
1,2-Dichloroethane	107-06-2	ug/kg	460	986	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	-	< 8.5 U	< 17 UJ	< 10 UJ	< 39 UJ	< 18 UJ	
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	-	< 8.5 UJ	< 17 UJ	< 10 UJ	< 39 UJ	< 18 UJ	
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	-	< 8.5 UJ	< 17 UJ	< 10 UJ	< 39 UJ	< 18 UJ	
2-HEXANONE	591-78-6	ug/kg	20000	45	-	< 17 U	< 33 U	< 21 U	< 78 UJ	< 35 UJ	
ACETONE	67-64-1	ug/kg	7000000	65	-	< 17 U	< 33 U	220	230 J	27 J	
Benzene	71-43-2	ug/kg	1200	10	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	

Table 11
Sediment Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23A-0088-PLC1	23A-0089-PLC1	23A-0091-PLC1	23A-0092-PLC1	23A-0093-PLC1	23A-0094-PLC1
					Sample Name	23A-0088-PLC1-AS	23A-0089-PLC1-AS	23A-0091-PLC1-AS	23A-0092-PLC1-AS	23A-0093-PLC1-AS	23A-0094-PLC1-AS
					Sample Date	10/31/2023	10/31/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL							
BROMOFORM	75-25-2	ug/kg	19000	142	-	< 8.5 U	< 17 UJ	< 10 UJ	< 39 UJ	< 18 UJ	
BROMOMETHANE	74-83-9	ug/kg	680	6.5	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	-	< 8.5 U	< 17 U	7.4 J	< 39 UJ	< 18 UJ	
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Chlorobenzene	108-90-7	ug/kg	28000	30	-	< 8.5 UJ	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
CHLOROETHANE	75-00-3	ug/kg	540000		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Chloroform	67-66-3	ug/kg	320	87	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
CHLOROMETHANE	74-87-3	ug/kg	11000		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Cyclohexane	110-82-7	ug/kg	650000		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Dichlorodifluoromethane	75-71-8	ug/kg	8700		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Ethylbenzene	100-41-4	ug/kg	5800	290	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	-	< 8.5 U	< 17 UJ	< 10 UJ	< 39 UJ	< 18 UJ	
m,p-Xylene	179601-23-1	ug/kg	55000		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
METHYL ACETATE	79-20-9	ug/kg	7800000		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	-	< 17 U	< 33 U	58	36 J	< 35 UJ	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	-	< 17 U	< 33 U	< 21 U	< 78 UJ	< 35 UJ	
Methylcyclohexane	108-87-2	ug/kg	9800		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Methylene Chloride	75-09-2	ug/kg	35000	18	-	< 8.5 U	< 17 U	< 10 U	68 J	< 18 UJ	
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Styrene	100-42-5	ug/kg	600000	126	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Toluene	108-88-3	ug/kg	490000	10	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Trichlorofluoromethane	75-69-4	ug/kg	2300000		-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
Vinyl Chloride	75-01-4	ug/kg	59	482	-	< 8.5 U	< 17 U	< 10 U	< 39 UJ	< 18 UJ	
TCL SVOCs											
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	-	< 1100 UJ	< 1900 UJ	< 1200 UJ	< 4200 UJ	< 2400 UJ	
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	< 450 U	< 760 U	< 490 U	< 1600 UJ	< 950 UJ	
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	< 1100 UJ	< 1900 UJ	< 1200 UJ	< 4200 UJ	< 2400 UJ	
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		-	< 1100 UJ	< 1900 UJ	< 1200 UJ	< 4200 UJ	< 2400 UJ	
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	-	< 1100 R	< 1900 R	< 1200 R	< 4200 R	< 2400 R	
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		-	< 1100 R	< 1900 R	< 1200 R	< 4200 R	< 2400 R	
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	-	< 1100 R	< 1900 R	< 1200 R	< 4200 R	< 2400 R	
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
2-NITROANILINE	88-74-4	ug/kg	63000		-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	-	< 1100 UJ	< 1900 UJ	< 1200 UJ	< 4200 UJ	< 2400 UJ	
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	

Table 11
Sediment Analytical Results
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					Location	23A-0088-PLC1	23A-0089-PLC1	23A-0091-PLC1	23A-0092-PLC1	23A-0093-PLC1	23A-0094-PLC1
					Sample Name	23A-0088-PLC1-AS	23A-0089-PLC1-AS	23A-0091-PLC1-AS	23A-0092-PLC1-AS	23A-0093-PLC1-AS	23A-0094-PLC1-AS
					Sample Date	10/31/2023	10/31/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL							
3-NITROANILINE	99-09-2	ug/kg	25000		-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
4-Nitroaniline	100-01-6	ug/kg	25000		-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	< 1100 R	< 1900 R	< 1200 R	< 4200 R	< 2400 R	
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
Acetophenone	98-86-2	ug/kg	780000		-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	< 1100 U	< 1900 U	3000	< 4200 UJ	< 2400 UJ	
ATRAZINE	1912-24-9	ug/kg	2400	0.3	-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
BENZALDEHYDE	100-52-7	ug/kg	170000	59	-	< 2200 UJ	< 3700 UJ	< 2400 UJ	< 8100 UJ	< 4700 UJ	
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	< 1100 U	2600	8500	< 4200 UJ	1500 J	
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	< 1100 U	2800	7900	< 4200 UJ	1500 J	
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	820 J	4100	10000	2500 J	2400 J	
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	300 J	2100	3900	1300 J	1100 J	
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	< 1100 U	1500 J	2800	< 4200 UJ	< 2400 UJ	
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	-	< 1100 UJ	< 1900 UJ	< 1200 UJ	< 4200 UJ	< 2400 UJ	
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	-	570 J	1600 J	< 1200 U	2200 J	1500 J	
Caprolactam	105-60-2	ug/kg	3100000		-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
CARBAZOLE	86-74-8	ug/kg	240000	69	-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
CHRYSENE	218-01-9	ug/kg	110000	166	-	550 J	3200	8000	1900 J	2000 J	
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	< 1100 U	< 1900 U	1200	< 4200 UJ	< 2400 UJ	
Dibenzofuran	132-64-9	ug/kg	7800	510	-	< 1100 UJ	< 1900 UJ	< 1200 UJ	< 4200 UJ	< 2400 UJ	
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	970 J	5100 J	16000 J	< 4200 UJ	3300 J	
FLUORENE	86-73-7	ug/kg	240000	77	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
Hexachlorobutadiene	87-68-3	ug/kg	1200		-	< 1100 R	< 1900 R	< 1200 R	< 4200 R	< 2400 R	
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	< 1100 U	2700	5600	1700 J	1500 J	
ISOPHORONE	78-59-1	ug/kg	570000	876	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
Naphthalene	91-20-3	ug/kg	2000	176	-	< 1100 R	< 1900 R	< 1200 R	< 4200 R	< 2400 R	
NITROBENZENE	98-95-3	ug/kg	5100	407	-	< 1100 R	< 1900 R	< 1200 R	< 4200 R	< 2400 R	
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	-	< 1100 U	< 1900 U	< 1200 U	< 4200 UJ	< 2400 UJ	
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	< 2200 U	< 3700 U	< 2400 U	< 8100 UJ	< 4700 UJ	
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	< 1100 U	1800 J	7800	< 4200 UJ	1500 J	
PHENOL	108-95-2	ug/kg	1900000	175	-	< 2200 UJ	< 3700 UJ	< 2400 UJ	< 8100 UJ	< 4700 UJ	
PYRENE	129-00-0	ug/kg	180000	195	-	780 J	4100 J	12000 J	< 4200 UJ	2600 J	

Table 11
Sediment Analytical Results
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					Location	23A-0088-PLC1	23A-0089-PLC1	23A-0091-PLC1	23A-0092-PLC1	23A-0093-PLC1	23A-0094-PLC1
					Sample Name	23A-0088-PLC1-AS	23A-0089-PLC1-AS	23A-0091-PLC1-AS	23A-0092-PLC1-AS	23A-0093-PLC1-AS	23A-0094-PLC1-AS
					Sample Date	10/31/2023	10/31/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N
					Depth Interval	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL							
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	141	-	-	-	-	-	-
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	-	-	-	-	-	-
Acenaphthene	83-32-9	ug/kg	360000	6.7	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	-	-	-	-	-	-
ANTHRACENE	120-12-7	ug/kg	1800000	57	-	-	-	-	-	-
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	-	-	-	-	-	-
CHRYSENE	218-01-9	ug/kg	110000	166	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	-	-	-	-	-	-
FLUORANTHENE	206-44-0	ug/kg	240000	423	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	77	-	-	-	-	-	-
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	-	-	-	-	-	-
Naphthalene	91-20-3	ug/kg	2000	176	-	-	-	-	-	-
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	204	-	-	-	-	-	-
PYRENE	129-00-0	ug/kg	180000	195	-	-	-	-	-	-
Total Organic Carbon										
TOTAL ORGANIC CARBON	TOC	mg/kg			-	-	71000	34000	130000 J	150000 J
AVS/SEM										
Acid Volatile Sulfide	AVS	umol/g			-	-	-	-	-	-
Cadmium	7440-43-9	umol/g			-	-	-	-	-	-
Copper	7440-50-8	umol/g			-	-	-	-	-	-
Lead	7439-92-1	umol/g			-	-	-	-	-	-
Nickel	7440-02-0	umol/g			-	-	-	-	-	-
Silver	7440-22-4	umol/g			-	-	-	-	-	-
Zinc	7440-66-6	umol/g			-	-	-	-	-	-
Mercury	7439-97-6	umol/g			-	-	-	-	-	-

Table 11
Sediment Analytical Results
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Notes:
(a) Totals for PCDD/DF and PCB homolog groups were calculated by summing the detected congeners in each group after data validation was completed; if no congeners in a homolog group were detected, the maximum reporting detection limit of any member congener in that group was used.
(b) Sum of detected congeners.
Analytes:
AVS/SEM - acid-volatile sulfide/simultaneously extracted metals
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxins/furans
SVOCs - semi-volatile organic compounds
TAL - target analyte list
TCL - target compound list
TOC - total organic carbon
VOCs - volatile organic compounds
Units:
% - percent
mg/kg - miligram per kilogram
ng/g - nanogram per gram
pg/g - picogram per gram
ug/kg - microgram per kilogram
umol/g - micromole per gram
Project Action Limits (PALs):
The human health PALs are the USEPA regional screening levels for residential soil based on a target hazard quotient of 0.1 and a target risk level of 1E-06 (USEPA, 2024a).
The ecological PALs are the USEPA Region 4 ecological screening values for freshwater sediment (USEPA, 2018).
Yellow highlighted values represent detection of the compound at a concentration above the human health PAL; underlined values represent detection of the compound at a concentration above the ecological PAL.
Comparison of the data to the PALs is for informational purposes only and is not an indication of risk.
Qualifiers:
B - Indicates the analyte is detected in the associated blank as well as in the sample.
E - Indicates compounds whose concentrations exceed the calibration range of the instrument.
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J- -The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a potential low bias.
J+ - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a potential high bias.
JN - The analyte was tentatively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U - The analyte was analyzed for but was not detected above the reported sample quantitation limit.
R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
Sample Type:
N - normal
FD - field duplicate

Table 12
Sediment Analytical Results Statistics - Phase 1 Reach and Reference Areas Combined
Phase 1 Data Evaluation Summary Memorandum
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCDD/F													
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	193	192	0.839	18900	1110	88	88	23A-0007-PLC1	0.5 - 1.7 ft
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	193	148	0.32	229	31.4	0	32	23A-0070-PLC1	2.3 - 4.2 ft
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	193	150	0.249	1560	25.3	4	128	23A-0007-PLC1	0.5 - 1.7 ft
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	193	166	0.149	541	62	69	124	23A-0063-PLC1	0.5 - 3.7 ft
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	193	167	0.442	818	64.5	75	72	23A-0007-PLC1	0.5 - 1.7 ft
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	193	162	0.114	199	30	36	100	23A-0063-PLC1	0.5 - 3.7 ft
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	193	165	0.391	736	38	48	45	23A-0007-PLC1	0.5 - 1.7 ft
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	193	0				0	0		
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	193	123	0.282	206	8.92	69	117	23A-0007-PLC1	0.5 - 1.7 ft
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	193	144	0.273	102	10.3	0	51	23A-0063-PLC1	0.5 - 3.7 ft
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	193	187	0.278	3060	535	79	120	23A-0007-PLC1	0.5 - 1.7 ft
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	193	160	0.294	187	27.4	30	102	23A-0063-PLC1	0.5 - 3.7 ft
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	193	166	0.256	969	66.2	91	158	23A-0063-PLC1	0.5 - 3.7 ft
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	193	90	0.206	25.3	4.78	29	86	23A-0007-PLC1	0.5 - 1.7 ft
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	193	155	0.369	462	28.3	24	77	23A-0063-PLC1	0.5 - 3.7 ft
OCDD	3268-87-9	pg/g	16000	5000	193	193	5.48	92700	7400	33	80	23A-0007-PLC1	0.5 - 1.7 ft
OCDF	39001-02-0	pg/g	16000	5000	193	180	0.372	3380	612	0	0	23A-0048-PLC1	0 - 0.5 ft
Total HpCDD (a)	RA_Total_HpCDD	pg/g			193	193	0.839	18900	1110	0	0	23A-0007-PLC1	0.5 - 1.7 ft
Total HpCDF (a)	RA_Total_HpCDF	pg/g			193	187	0.278	3280	560	0	0	23A-0007-PLC1	0.5 - 1.7 ft
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		193	189	0.714	3110	123	65	0	23A-0007-PLC1	0.5 - 1.7 ft
Total HxCDF (a)	RA_Total_HxCDF	pg/g			193	178	0.149	927	117	0	0	23A-0063-PLC1	0.5 - 3.7 ft
Total PeCDD (a)	RA_Total_PeCDD	pg/g			193	155	0.282	206	8.92	0	0	23A-0007-PLC1	0.5 - 1.7 ft
Total PeCDF (a)	RA_Total_PeCDF	pg/g			193	171	0.256	1070	75.1	0	0	23A-0063-PLC1	0.5 - 3.7 ft
Total TCDD (a)	RA_Total_TCDD	pg/g			193	134	0.206	25.3	4.78	0	0	23A-0007-PLC1	0.5 - 1.7 ft
Total TCDF (a)	RA_Total_TCDF	pg/g			193	166	0.369	462	28.3	0	0	23A-0063-PLC1	0.5 - 3.7 ft
TAL Metals and Mercury													
Aluminum	7429-90-5	mg/kg	7700	25000	192	192	940	18000	6000	48	0	23A-0032-PLC1	0.5 - 1.7 ft
Antimony	7440-36-0	mg/kg	3.1	2	192	53	0.058	14	1.8	5	12	23A-0005-PLC1	0.5 - 1.5 ft
Arsenic	7440-38-2	mg/kg	0.68	9.8	192	192	0.61	42	4	190	5	23A-0042-PLC1	0.5 - 1.9 ft
Barium	7440-39-3	mg/kg	1500	20	192	192	5.8	330	60	0	160	23A-0070-PLC1	0 - 0.5 ft
Beryllium	7440-41-7	mg/kg	16		192	172	0.087	3	0.39	0	0	23A-0001-PLC1	0.5 - 1.7 ft
Cadmium	7440-43-9	mg/kg	0.71	1	192	125	0.081	4.3	1.3	79	62	23A-0020-PLC1	0.5 - 2.3 ft
Calcium	7440-70-2	mg/kg			192	192	620	8100	2300	0	0	23A-0066-PLC1	0 - 0.5 ft
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	192	192	4	170	33	192	56	23A-0042-PLC1	0.5 - 1.9 ft
Cobalt	7440-48-4	mg/kg	2.3	50	192	192	1.1	25	6.3	183	0	23A-0042-PLC1	0.5 - 1.9 ft
Copper	7440-50-8	mg/kg	310	31.6	192	192	5.1	260	49	0	93	23A-0042-PLC1	0.5 - 1.9 ft
Iron	7439-89-6	mg/kg	5500	20000	192	192	5000	38000	14000	188	16	23A-0078-PLC1	0 - 0.5 ft
Lead	7439-92-1	mg/kg	200	35.8	192	192	2.5	490	110	32	116	23A-0063-PLC1	0.5 - 3.7 ft
Magnesium	7439-95-4	mg/kg			192	191	620	6200	2200	0	0	23A-0012-PLC1	1.7 - 3 ft
Manganese	7439-96-5	mg/kg	180	460	192	192	29	1500	280	115	25	23A-0081-PLC1	0 - 0.5 ft
Mercury	7439-97-6	mg/kg	2.3	0.18	192	158	0.02	4.2	0.66	7	95	23A-0064-PLC1	0.5 - 3.7 ft
Nickel	7440-02-0	mg/kg	140	22.7	192	192	2.7	150	12	1	9	23A-0042-PLC1	0.5 - 1.9 ft
Potassium	7440-09-7	mg/kg			192	192	90	2400	470	0	0	23A-0012-PLC1	1.7 - 3 ft
Selenium	7782-49-2	mg/kg	39	11	192	27	0.4	3.6	1.1	0	0	23A-0075-PLC1	0 - 0.5 ft
Silver	7440-22-4	mg/kg	39	1	192	136	0.023	2.7	0.43	0	18	23A-0063-PLC1	0.5 - 3.7 ft
Sodium	7440-23-5	mg/kg			192	186	57	7300	450	0	0	23A-0042-PLC1	0.5 - 1.9 ft
Thallium	7440-28-0	mg/kg	0.078		192	27	0.031	0.18	0.096	17	0	23A-0055-B1C1	2.1 - 3.4 ft
Vanadium	7440-62-2	mg/kg	39		192	192	3.5	55	20	12	0	23A-0019-B2C2	0.5 - 3.1 ft
Zinc	7440-66-6	mg/kg	2300	121	192	192	11	1200	160	0	88	23A-0026-B1C1	0 - 0.5 ft

Table 12
Sediment Analytical Results Statistics - Phase 1 Reach and Reference Areas Combined
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
AVS/SEM													
Acid Volatile Sulfide	AVS	umol/g			56	43	1	80	24	0	0	23A-0018-PLC1	0 - 0.5 ft
Cadmium	7440-43-9	umol/g			56	55	0.00036	0.027	0.0094	0	0	23A-0054-PLC2	0 - 0.5 ft
Copper	7440-50-8	umol/g			56	56	0.00064	1.3	0.47	0	0	23A-0010-PLC1	0 - 0.5 ft
Lead	7439-92-1	umol/g			56	55	0.023	1.6	0.51	0	0	23A-0054-PLC2	0 - 0.5 ft
Mercury	7439-97-6	umol/g			56	7	0.000015	0.000035	0.000024	0	0	23A-0028-PLC2	0 - 0.5 ft
Nickel	7440-02-0	umol/g			56	55	0.028	1.8	0.37	0	0	23A-0048-PLC1	0 - 0.5 ft
Silver	7440-22-4	umol/g			56	55	0.000089	0.0017	0.00057	0	0	23A-0060-PLC1	0 - 0.5 ft
Zinc	7440-66-6	umol/g			56	55	0.12	20	3	0	0	23A-0026-B1C1	0 - 0.5 ft
Total Cyanide													
CYANIDE	57-12-5	mg/kg	2.3		193	18	0.26	3.8	1	1	0	23A-0019-B2C2	0 - 0.5 ft
Total Organic Carbon													
TOTAL ORGANIC CARBON	TOC	mg/kg			178	178	220	380000	48000	0	0	23A-0029-PLC1	0 - 0.5 ft
PCB Congeners													
PCB-001	2051-60-7	ng/g	230	14.0	193	173	0.339	193000	10800	78	137	23A-0070-PLC1	2.3 - 4.2 ft
PCB-002	2051-61-8	ng/g	230	14.0	193	120	0.291	1030	83.7	12	50	23A-0063-PLC1	0.5 - 3.7 ft
PCB-003	2051-62-9	ng/g	230	14.0	193	157	0.42	24200	1520	51	108	23A-0063-PLC1	0.5 - 3.7 ft
PCB-004/010	PCB-4/10	ng/g	230	14.0	193	181	0.944	745000	36400	110	151	23A-0063-PLC1	0.5 - 3.7 ft
PCB-005/008	PCB-5/8	ng/g	230	14.0	193	180	0.502	342000	16500	103	148	23A-0063-PLC1	0.5 - 3.7 ft
PCB-006	25569-80-6	ng/g	230	14.0	193	170	0.4	59600	2620	70	125	23A-0064-PLC1	3.7 - 5.7 ft
PCB-007/009	PCB-7/9	ng/g	230	14.0	193	155	0.148	12900	477	42	101	23A-0063-PLC1	0.5 - 3.7 ft
PCB-011	2050-67-1	ng/g	230	14.0	193	138	0.205	3330	230	31	80	23A-0063-PLC1	0.5 - 3.7 ft
PCB-012/013	PCB-12/13	ng/g	230	14.0	193	147	0.308	7740	442	44	108	23A-0063-PLC1	0.5 - 3.7 ft
PCB-014	34883-41-5	ng/g	230	14.0	193	17	0.674	21.7	8.91	0	2	23A-0007-PLC1	0.5 - 1.7 ft
PCB-015	2050-68-2	ng/g	230	14.0	193	172	0.655	148000	3650	84	134	23A-0008-PLC1	0 - 0.5 ft
PCB-016/032	PCB-16/32	ng/g	230	14.0	193	180	0.477	201000	8460	99	144	23A-0063-PLC1	0.5 - 3.7 ft
PCB-017	37680-66-3	ng/g	230	14.0	193	182	0.317	110000	5050	90	139	23A-0063-PLC1	0.5 - 3.7 ft
PCB-018	37680-65-2	ng/g	230	14.0	193	180	0.187	26700	1780	75	131	23A-0005-PLC1	0 - 0.5 ft
PCB-019	38444-73-4	ng/g	230	14.0	193	179	0.208	132000	6000	81	131	23A-0064-PLC1	3.7 - 5.7 ft
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	193	152	0.382	8190	278	35	107	23A-0005-PLC1	0 - 0.5 ft
PCB-022	38444-85-8	ng/g	230	14.0	193	161	0.0946	11500	381	45	110	23A-0005-PLC1	0 - 0.5 ft
PCB-023/034	PCB-23/34	ng/g	230	14.0	193	130	0.348	2890	205	28	66	23A-0063-PLC1	0.5 - 3.7 ft
PCB-024/027	PCB-24/27	ng/g	230	14.0	193	177	0.119	53900	2730	59	129	23A-0063-PLC1	0.5 - 3.7 ft
PCB-025	55712-37-3	ng/g	230	14.0	193	170	0.3	58000	2070	70	126	23A-0063-PLC1	0.5 - 3.7 ft
PCB-026	38444-81-4	ng/g	230	14.0	193	174	0.229	52200	2520	77	132	23A-0063-PLC1	0.5 - 3.7 ft
PCB-028	7012-37-5	ng/g	230	14.0	193	183	0.253	198000	4490	87	132	23A-0063-PLC1	0.5 - 3.7 ft
PCB-029	15862-07-4	ng/g	230	14.0	193	47	0.591	84.5	13.1	0	10	23A-0005-PLC1	0 - 0.5 ft
PCB-030	35693-92-6	ng/g	230	14.0	193	65	0.401	87.1	10.7	0	14	23A-0063-PLC1	0.5 - 3.7 ft
PCB-031	16606-02-3	ng/g	230	14.0	193	183	0.297	63500	3400	96	140	23A-0063-PLC1	0.5 - 3.7 ft
PCB-035	37680-69-6	ng/g	230	14.0	193	91	0.514	553	37.5	3	34	23A-0063-PLC1	0.5 - 3.7 ft
PCB-036	38444-87-0	ng/g	230	14.0	193	72	0.208	211	36.7	0	38	23A-0005-PLC1	0 - 0.5 ft
PCB-037	38444-90-5	ng/g	230	14.0	193	143	0.508	7790	331	36	110	23A-0063-PLC1	0.5 - 3.7 ft
PCB-038	53555-66-1	ng/g	230	14.0	193	117	0.346	2190	135	18	55	23A-0063-PLC1	0.5 - 3.7 ft
PCB-039	38444-88-1	ng/g	230	14.0	193	100	0.239	672	54	4	40	23A-0063-PLC1	0.5 - 3.7 ft
PCB-040	38444-93-8	ng/g	230	14.0	193	138	0.194	2830	105	17	81	23A-0005-PLC1	0 - 0.5 ft
PCB-041/064	PCB-41/64	ng/g	230	14.0	193	180	0.112	8610	432	46	120	23A-0005-PLC1	0 - 0.5 ft
PCB-042	36559-22-5	ng/g	230	14.0	193	166	0.0869	10900	549	48	117	23A-0063-PLC1	0.5 - 3.7 ft
PCB-043/049	PCB-43/49	ng/g	230	14.0	193	188	0.146	70400	3070	91	145	23A-0063-PLC1	0.5 - 3.7 ft
PCB-044	41464-39-5	ng/g	230	14.0	193	182	0.155	15600	679	63	126	23A-0005-PLC1	0 - 0.5 ft
PCB-045	70362-45-7	ng/g	230	14.0	193	152	0.256	3890	207	35	89	23A-0005-PLC1	0 - 0.5 ft

Table 12
Sediment Analytical Results Statistics - Phase 1 Reach and Reference Areas Combined
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-046	41464-47-5	ng/g	230	14.0	193	142	0.206	2230	134	23	87	23A-0063-PLC1	0.5 - 3.7 ft
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	193	188	0.139	77200	3160	86	138	23A-0063-PLC1	0.5 - 3.7 ft
PCB-050	62796-65-0	ng/g	230	14.0	193	124	0.296	968	72.7	12	46	23A-0063-PLC1	0.5 - 3.7 ft
PCB-051	68194-04-7	ng/g	230	14.0	193	171	0.0971	12900	750	47	112	23A-0063-PLC1	0.5 - 3.7 ft
PCB-052/073	PCB-52/73	ng/g	230	14.0	193	189	0.182	37900	2030	86	142	23A-0063-PLC1	0.5 - 3.7 ft
PCB-053	41464-41-9	ng/g	230	14.0	193	180	0.0998	32200	1430	58	125	23A-0063-PLC1	0.5 - 3.7 ft
PCB-054	15968-05-5	ng/g	230	14.0	193	149	0.125	2450	145	27	57	23A-0063-PLC1	0.5 - 3.7 ft
PCB-055	74338-24-2	ng/g	230	14.0	193	67	0.345	260	10	1	8	23A-0005-PLC1	0 - 0.5 ft
PCB-056/060	PCB-56/60	ng/g	230	14.0	193	161	0.25	7040	122	13	102	23A-0005-PLC1	0 - 0.5 ft
PCB-057	70424-67-8	ng/g	230	14.0	193	132	0.287	1080	97.8	17	56	23A-0063-PLC1	0.5 - 3.7 ft
PCB-058	41464-49-7	ng/g	230	14.0	193	77	0.435	111	11.9	0	18	23A-0063-PLC1	0.5 - 3.7 ft
PCB-059	74472-33-6	ng/g	230	14.0	193	145	0.107	1270	62.8	12	59	23A-0005-PLC1	0 - 0.5 ft
PCB-061/074	PCB-61/74	ng/g	230	14.0	193	177	0.119	11300	341	36	114	23A-0063-PLC1	0.5 - 3.7 ft
PCB-062	54230-22-7	ng/g	230	14.0	193	0				0	0		
PCB-063	74472-34-7	ng/g	230	14.0	193	154	0.152	4370	290	33	91	23A-0063-PLC1	0.5 - 3.7 ft
PCB-065	33284-54-7	ng/g	230	14.0	193	39	0.473	40.9	10.8	0	10	23A-0070-PLC1	2.3 - 4.2 ft
PCB-066/080	PCB-66/80	ng/g	230	14.0	193	179	0.103	14400	442	39	116	23A-0063-PLC1	0.5 - 3.7 ft
PCB-067	73575-53-8	ng/g	230	14.0	193	122	0.222	535	30.6	3	43	23A-0005-PLC1	0 - 0.5 ft
PCB-068	73575-52-7	ng/g	230	14.0	193	118	0.118	1260	109	19	50	23A-0023-B2C2	0 - 0.5 ft
PCB-069	60233-24-1	ng/g	230	14.0	193	108	0.285	331	33.1	3	38	23A-0063-PLC1	0.5 - 3.7 ft
PCB-070	32598-11-1	ng/g	230	14.0	193	177	0.132	9040	281	32	115	23A-0005-PLC1	0 - 0.5 ft
PCB-071	41464-46-4	ng/g	230	14.0	193	182	0.0796	15100	686	52	123	23A-0063-PLC1	0.5 - 3.7 ft
PCB-072	41464-42-0	ng/g	230	14.0	193	139	0.0951	1090	96.9	21	56	23A-0063-PLC1	0.5 - 3.7 ft
PCB-076	70362-48-0	ng/g	230	14.0	193	3	2.47	5.61	3.87	0	0	23A-0049-B2C1	0.5 - 2.2 ft
PCB-077	32598-13-3	ng/g	38.0	14.0	193	140	0.366	3860	114	43	78	23A-0063-PLC1	0.5 - 3.7 ft
PCB-078	70362-49-1	ng/g	230	14.0	193	71	0.394	44.1	7.44	0	16	23A-0063-PLC1	0.5 - 3.7 ft
PCB-079	41464-48-6	ng/g	230	14.0	193	43	0.404	49	6.16	0	5	23A-0063-PLC1	0.5 - 3.7 ft
PCB-081	70362-50-4	ng/g	12.0	14.0	193	78	0.209	92.4	7.18	10	9	23A-0005-PLC1	0 - 0.5 ft
PCB-082	52663-62-4	ng/g	230	14.0	193	141	0.329	808	31.7	3	54	23A-0005-PLC1	0 - 0.5 ft
PCB-083/109	PCB-83/109	ng/g	230	14.0	193	141	0.182	1210	75.8	15	58	23A-0063-PLC1	0.5 - 3.7 ft
PCB-084	52663-60-2	ng/g	230	14.0	193	172	0.137	2330	137	27	101	23A-0063-PLC1	0.5 - 3.7 ft
PCB-085/120	PCB-85/120	ng/g	230	14.0	193	162	0.381	1280	58.2	7	93	23A-0005-PLC1	0 - 0.5 ft
PCB-086/097	PCB-86/97	ng/g	230	14.0	193	158	0.149	1950	79.7	12	95	23A-0063-PLC1	0.5 - 3.7 ft
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	193	48	0.981	225	28.8	0	26	23A-0008-PLC1	0 - 0.5 ft
PCB-088/121	PCB-88/121	ng/g	230	14.0	193	43	0.579	40.6	9.78	0	8	23A-0063-PLC1	0.5 - 3.7 ft
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	193	183	0.0799	9490	360	41	122	23A-0063-PLC1	0.5 - 3.7 ft
PCB-091	68194-05-8	ng/g	230	14.0	193	172	0.212	6950	328	38	104	23A-0063-PLC1	0.5 - 3.7 ft
PCB-092	52663-61-3	ng/g	230	14.0	193	173	0.178	5550	265	37	99	23A-0063-PLC1	0.5 - 3.7 ft
PCB-093/095	PCB-93/95	ng/g	230	14.0	193	183	0.0835	5190	352	38	122	23A-0063-PLC1	0.5 - 3.7 ft
PCB-094	73575-55-0	ng/g	230	14.0	193	129	0.189	1160	77.3	15	44	23A-0063-PLC1	0.5 - 3.7 ft
PCB-096	73575-54-9	ng/g	230	14.0	193	132	0.174	422	33	5	40	23A-0063-PLC1	0.5 - 3.7 ft
PCB-098/102	PCB-98/102	ng/g	230	14.0	193	151	0.253	2240	105	22	63	23A-0063-PLC1	0.5 - 3.7 ft
PCB-099	38380-01-7	ng/g	230	14.0	193	178	0.0619	8780	253	35	113	23A-0063-PLC1	0.5 - 3.7 ft
PCB-100	39485-83-1	ng/g	230	14.0	193	127	0.14	802	64.6	10	45	23A-0063-PLC1	0.5 - 3.7 ft
PCB-103	60145-21-3	ng/g	230	14.0	193	139	0.151	819	50.4	8	43	23A-0063-PLC1	0.5 - 3.7 ft
PCB-104	56558-16-8	ng/g	230	14.0	193	73	0.16	53.7	7.16	0	11	23A-0070-PLC1	2.3 - 4.2 ft
PCB-105/127	PCB-105/127	ng/g	120	14.0	193	161	0.254	1950	79.8	19	100	23A-0063-PLC1	0.5 - 3.7 ft
PCB-106/118	PCB-106/118	ng/g	120	14.0	193	177	0.39	11300	290	49	117	23A-0063-PLC1	0.5 - 3.7 ft
PCB-107/108	PCB-107/108	ng/g	230	14.0	193	135	0.168	1700	68.5	9	50	23A-0063-PLC1	0.5 - 3.7 ft
PCB-110	38380-03-9	ng/g	230	14.0	193	186	0.132	12200	607	57	139	23A-0063-PLC1	0.5 - 3.7 ft

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Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-111/117	PCB-111/117	ng/g	230	14.0	193	138	0.231	2770	180	31	90	23A-0063-PLC1	0.5 - 3.7 ft
PCB-112	74472-36-9	ng/g	230	14.0	193	94	0.0878	187	18.7	0	30	23A-0063-PLC1	0.5 - 3.7 ft
PCB-113	68194-10-5	ng/g	230	14.0	193	84	0.192	98.8	16.5	0	31	23A-0063-PLC1	0.5 - 3.7 ft
PCB-114	74472-37-0	ng/g	120	14.0	193	96	0.409	229	14.6	3	18	23A-0063-PLC1	0.5 - 3.7 ft
PCB-119	56558-17-9	ng/g	230	14.0	193	143	0.418	1870	90.6	14	51	23A-0063-PLC1	0.5 - 3.7 ft
PCB-122	76842-07-4	ng/g	230	14.0	193	52	0.197	94.3	7.51	0	4	23A-0063-PLC1	0.5 - 3.7 ft
PCB-123	65510-44-3	ng/g	120	14.0	193	111	0.635	292	15.4	2	30	23A-0063-PLC1	0.5 - 3.7 ft
PCB-124	70424-70-3	ng/g	230	14.0	193	98	0.217	308	12.4	1	15	23A-0063-PLC1	0.5 - 3.7 ft
PCB-125	74472-39-2	ng/g	230	14.0	193	63	0.44	170	12.2	0	12	23A-0063-PLC1	0.5 - 3.7 ft
PCB-126	57465-28-8	ng/g	0.0360	14.0	193	59	0.441	106	15.7	59	19	23A-0063-PLC1	0.5 - 3.7 ft
PCB-128	38380-07-3	ng/g	230	14.0	193	158	0.141	873	39.7	3	68	23A-0063-PLC1	0.5 - 3.7 ft
PCB-129	55215-18-4	ng/g	230	14.0	193	107	0.356	229	11.5	0	19	23A-0063-PLC1	0.5 - 3.7 ft
PCB-130	52663-66-8	ng/g	230	14.0	193	138	0.294	400	24.2	2	43	23A-0063-PLC1	0.5 - 3.7 ft
PCB-131/142	PCB-131/142	ng/g	230	14.0	193	73	0.14	60.1	4.58	0	5	23A-0063-PLC1	0.5 - 3.7 ft
PCB-132/168	PCB-132/168	ng/g	230	14.0	193	173	0.155	1310	68.7	15	93	23A-0063-PLC1	0.5 - 3.7 ft
PCB-133	35694-04-3	ng/g	230	14.0	193	113	0.194	248	22.7	1	33	23A-0070-PLC1	2.3 - 4.2 ft
PCB-134	52704-70-8	ng/g	230	14.0	193	131	0.259	413	28.2	4	39	23A-0063-PLC1	0.5 - 3.7 ft
PCB-135/144	PCB-135/144	ng/g	230	14.0	193	159	0.0679	875	54	8	59	23A-0063-PLC1	0.5 - 3.7 ft
PCB-136	38411-22-2	ng/g	230	14.0	193	166	0.056	656	38.7	6	50	23A-0063-PLC1	0.5 - 3.7 ft
PCB-137	35694-06-5	ng/g	230	14.0	193	130	0.231	451	20.9	2	37	23A-0063-PLC1	0.5 - 3.7 ft
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	193	180	0.226	5690	254	40	122	23A-0063-PLC1	0.5 - 3.7 ft
PCB-139/149	PCB-139/149	ng/g	230	14.0	193	183	0.208	3820	175	35	116	23A-0063-PLC1	0.5 - 3.7 ft
PCB-140	59291-64-4	ng/g	230	14.0	193	56	0.263	55.7	8.46	0	9	23A-0063-PLC1	0.5 - 3.7 ft
PCB-141	52712-04-6	ng/g	230	14.0	193	150	0.191	687	27.5	2	50	23A-0063-PLC1	0.5 - 3.7 ft
PCB-143	68194-15-0	ng/g	230	14.0	193	16	0.295	42.3	5.66	0	2	23A-0063-PLC1	0.5 - 3.7 ft
PCB-145	74472-40-5	ng/g	230	14.0	193	7	0.216	1.05	0.49	0	0	23A-0023-B2C2	0.5 - 1.7 ft
PCB-146	51908-16-8	ng/g	230	14.0	193	161	0.0967	910	50.4	9	52	23A-0063-PLC1	0.5 - 3.7 ft
PCB-147	68194-13-8	ng/g	230	14.0	193	140	0.0751	845	58.5	11	42	23A-0063-PLC1	0.5 - 3.7 ft
PCB-148	74472-41-6	ng/g	230	14.0	193	62	0.192	67.4	9.84	0	14	23A-0070-PLC1	2.3 - 4.2 ft
PCB-150	68194-08-1	ng/g	230	14.0	193	89	0.107	74.6	8.4	0	16	23A-0064-PLC1	3.7 - 5.7 ft
PCB-151	52663-63-5	ng/g	230	14.0	193	163	0.091	1430	81.5	16	62	23A-0063-PLC1	0.5 - 3.7 ft
PCB-152	68194-09-2	ng/g	230	14.0	193	77	0.161	88.2	10.4	0	15	23A-0063-PLC1	0.5 - 3.7 ft
PCB-153	35065-27-1	ng/g	230	14.0	193	180	0.16	4220	156	32	116	23A-0063-PLC1	0.5 - 3.7 ft
PCB-154	60145-22-4	ng/g	230	14.0	193	131	0.108	359	27.2	5	36	23A-0063-PLC1	0.5 - 3.7 ft
PCB-155	33979-03-2	ng/g	230	14.0	193	15	0.0888	3.01	1.02	0	0	23A-0064-PLC1	3.7 - 5.7 ft
PCB-156	38380-08-4	ng/g	120	14.0	193	143	0.0822	714	27.9	5	45	23A-0063-PLC1	0.5 - 3.7 ft
PCB-157	69782-90-7	ng/g	120	14.0	193	118	0.117	188	10.3	2	22	23A-0063-PLC1	0.5 - 3.7 ft
PCB-158/160	PCB-158/160	ng/g	230	14.0	193	155	0.0884	552	22.9	2	45	23A-0063-PLC1	0.5 - 3.7 ft
PCB-159	39635-35-3	ng/g	230	14.0	193	48	0.337	45.7	7.77	0	9	23A-0063-PLC1	0.5 - 3.7 ft
PCB-161	74472-43-8	ng/g	230	14.0	193	1	18.4	18.4	18.4	0	1	23A-0057-PLC1	1.5 - 2.5 ft
PCB-162	39635-34-2	ng/g	230	14.0	193	27	0.22	43.1	6.67	0	4	23A-0063-PLC1	0.5 - 3.7 ft
PCB-165	74472-46-1	ng/g	230	14.0	193	37	0.3	24.3	7.66	0	9	23A-0070-PLC1	2.3 - 4.2 ft
PCB-166	41411-63-6	ng/g	230	14.0	193	24	0.264	37.2	4.83	0	2	23A-0063-PLC1	0.5 - 3.7 ft
PCB-167	52663-72-6	ng/g	120	14.0	193	129	0.166	284	12.7	2	27	23A-0063-PLC1	0.5 - 3.7 ft
PCB-169	32774-16-6	ng/g	0.120	14.0	193	1	1.21	1.21	1.21	1	0	23A-0057-PLC1	1.5 - 2.5 ft
PCB-170/190	PCB-170/190	ng/g	230	14.0	193	162	0.109	1540	70.9	13	64	23A-0063-PLC1	0.5 - 3.7 ft
PCB-171	52663-71-5	ng/g	230	14.0	193	140	0.195	354	20.3	2	38	23A-0063-PLC1	0.5 - 3.7 ft
PCB-172/192	PCB-172/192	ng/g	230	14.0	193	127	0.148	205	13.4	0	32	23A-0063-PLC1	0.5 - 3.7 ft
PCB-173	68194-16-1	ng/g	230	14.0	193	12	0.252	27.5	5.69	0	2	23A-0063-PLC1	0.5 - 3.7 ft
PCB-174	38411-25-5	ng/g	230	14.0	193	165	0.0748	1060	50.4	9	54	23A-0063-PLC1	0.5 - 3.7 ft

Table 12
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Phase 1 Data Evaluation Summary Memorandum
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-175	40186-70-7	ng/g	230	14.0	193	76	0.216	48.4	4.71	0	6	23A-0063-PLC1	0.5 - 3.7 ft
PCB-176	52663-65-7	ng/g	230	14.0	193	136	0.0932	132	8.35	0	23	23A-0063-PLC1	0.5 - 3.7 ft
PCB-177	52663-70-4	ng/g	230	14.0	193	158	0.0812	698	40.4	8	49	23A-0063-PLC1	0.5 - 3.7 ft
PCB-178	52663-67-9	ng/g	230	14.0	193	141	0.149	321	23.8	2	39	23A-0063-PLC1	0.5 - 3.7 ft
PCB-179	52663-64-6	ng/g	230	14.0	193	159	0.063	488	29.2	5	42	23A-0063-PLC1	0.5 - 3.7 ft
PCB-180	35065-29-3	ng/g	230	14.0	193	179	0.0413	2730	117	23	95	23A-0063-PLC1	0.5 - 3.7 ft
PCB-181	74472-47-2	ng/g	230	14.0	193	1	1.06	1.06	1.06	0	0	23A-0068-PLC2	0 - 0.5 ft
PCB-182/187	PCB-182/187	ng/g	230	14.0	193	172	0.123	1560	85.3	17	68	23A-0063-PLC1	0.5 - 3.7 ft
PCB-183	52663-69-1	ng/g	230	14.0	193	158	0.0936	617	31.5	4	46	23A-0063-PLC1	0.5 - 3.7 ft
PCB-184	74472-48-3	ng/g	230	14.0	193	0				0	0		
PCB-185	52712-05-7	ng/g	230	14.0	193	108	0.29	125	8.48	0	17	23A-0063-PLC1	0.5 - 3.7 ft
PCB-186	74472-49-4	ng/g	230	14.0	193	0				0	0		
PCB-188	74487-85-7	ng/g	230	14.0	193	36	0.144	12.5	3.33	0	0	23A-0070-PLC1	2.3 - 4.2 ft
PCB-189	39635-31-9	ng/g	130	14.0	193	89	0.223	71.5	6.25	0	10	23A-0063-PLC1	0.5 - 3.7 ft
PCB-191	74472-50-7	ng/g	230	14.0	193	83	0.158	51.3	4.39	0	6	23A-0063-PLC1	0.5 - 3.7 ft
PCB-193	69782-91-8	ng/g	230	14.0	193	127	0.0852	153	10.8	0	25	23A-0063-PLC1	0.5 - 3.7 ft
PCB-194	35694-08-7	ng/g	230	14.0	193	142	0.66	1010	66.1	13	52	23A-0063-PLC1	0.5 - 3.7 ft
PCB-195	52663-78-2	ng/g	230	14.0	193	119	0.469	327	24.7	1	39	23A-0063-PLC1	0.5 - 3.7 ft
PCB-196/203	PCB-196/203	ng/g	230	14.0	193	148	0.465	974	58.6	11	52	23A-0063-PLC1	0.5 - 3.7 ft
PCB-197	33091-17-7	ng/g	230	14.0	193	57	0.193	28.8	4.31	0	6	23A-0063-PLC1	0.5 - 3.7 ft
PCB-198	68194-17-2	ng/g	230	14.0	193	33	0.384	43.7	7.19	0	5	23A-0063-PLC1	0.5 - 3.7 ft
PCB-199	52663-75-9	ng/g	230	14.0	193	149	0.263	793	49.5	9	50	23A-0063-PLC1	0.5 - 3.7 ft
PCB-200	52663-73-7	ng/g	230	14.0	193	96	0.192	93.8	8.79	0	16	23A-0063-PLC1	0.5 - 3.7 ft
PCB-201	40186-71-8	ng/g	230	14.0	193	104	0.152	94.9	8.57	0	19	23A-0063-PLC1	0.5 - 3.7 ft
PCB-202	2136-99-4	ng/g	230	14.0	193	112	0.129	138	12.3	0	27	23A-0063-PLC1	0.5 - 3.7 ft
PCB-204	74472-52-9	ng/g	230	14.0	193	0				0	0		
PCB-205	74472-53-0	ng/g	230	14.0	193	52	0.438	51.5	8	0	8	23A-0063-PLC1	0.5 - 3.7 ft
PCB-206	40186-72-9	ng/g	230	14.0	193	142	0.197	338	25.2	1	40	23A-0063-PLC1	0.5 - 3.7 ft
PCB-207	52663-79-3	ng/g	230	14.0	193	84	0.127	36.4	4.38	0	6	23A-0063-PLC1	0.5 - 3.7 ft
PCB-208	52663-77-1	ng/g	230	14.0	193	123	0.157	69.8	6.88	0	19	23A-0063-PLC1	0.5 - 3.7 ft
PCB-209	2051-24-3	ng/g	230	14.0	193	127	0.134	47	6.78	0	22	23A-0063-PLC1	0.5 - 3.7 ft
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	193	127	0.134	47	6.78	0	22	23A-0063-PLC1	0.5 - 3.7 ft
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	193	179	0.0413	10200	470	45	127	23A-0063-PLC1	0.5 - 3.7 ft
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	193	183	0.208	25600	1120	81	154	23A-0063-PLC1	0.5 - 3.7 ft
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	193	150	0.728	3550	216	33	97	23A-0063-PLC1	0.5 - 3.7 ft
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14	193	191	5.72	2670000	123000	167	186	23A-0063-PLC1	0.5 - 3.7 ft
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	193	186	0.157	81400	3330	111	165	23A-0063-PLC1	0.5 - 3.7 ft
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	193	184	1.44	1220000	58700	127	160	23A-0063-PLC1	0.5 - 3.7 ft
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	193	173	0.339	196000	12200	87	138	23A-0070-PLC1	2.3 - 4.2 ft
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	193	142	0.197	444	33.8	6	46	23A-0063-PLC1	0.5 - 3.7 ft
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	193	190	0.467	326000	14600	123	174	23A-0063-PLC1	0.5 - 3.7 ft
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	193	185	0.498	896000	36500	131	170	23A-0063-PLC1	0.5 - 3.7 ft

Table 12
Sediment Analytical Results Statistics - Phase 1 Reach and Reference Areas Combined
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
TCL Pesticides													
ALDRIN	309-00-2	ug/kg	39	29	188	1	0.86	0.86	0.86	0	0	23A-0002-PLC2	0 - 0.5 ft
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	188	0				0	0		
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		188	0				0	0		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	188	0				0	0		
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	188	3	0.4	1.3	0.8	0	1	23A-0002-PLC2	0 - 0.5 ft
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		188	48	0.18	34	5.5	0	0	23A-0063-PLC1	0.5 - 3.7 ft
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		188	116	0.25	280	17	5	0	23A-0005-PLC1	0 - 0.5 ft
DIELDRIN	60-57-1	ug/kg	34	1.9	188	7	0.28	31	6.4	0	4	23A-0063-PLC1	0.5 - 3.7 ft
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	188	43	0.24	22	2.8	0	31	23A-0063-PLC1	0.5 - 3.7 ft
ENDRIN	72-20-8	ug/kg	1900	2.22	188	86	0.22	43	4.1	0	29	23A-0063-PLC1	0.5 - 3.7 ft
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		188	1	5.7	5.7	5.7	0	0	23A-0092-PLC1	0 - 0.5 ft
ENDRIN KETONE	53494-70-5	ug/kg	1900		188	1	9.2	9.2	9.2	0	0	23A-0077-PLC1	0 - 0.5 ft
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	188	115	0.19	980	54	3	80	23A-0063-PLC1	0.5 - 3.7 ft
HEPTACHLOR	76-44-8	ug/kg	130	0.6	188	1	1.9	1.9	1.9	0	1	23A-0064-PLC1	0 - 0.5 ft
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	188	74	0.31	290	19	6	46	23A-0063-PLC1	0.5 - 3.7 ft
METHOXYCHLOR	72-43-5	ug/kg	32000	30	188	1	34	34	34	0	1	23A-0092-PLC1	0 - 0.5 ft
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	188	80	0.21	24	3.9	0	21	23A-0093-PLC1	0 - 0.5 ft
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	188	39	0.29	23	4.1	0	14	23A-0081-PLC1	0 - 0.5 ft
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	188	147	0.11	220	12	0	120	23A-0063-PLC1	0.5 - 3.7 ft
TOXAPHENE	8001-35-2	ug/kg	490	0.1	188	0				0	0		
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		188	73	0.2	160	12	0	0	23A-0063-PLC1	0.5 - 3.7 ft
TCL SVOCs													
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	190	0				0	0		
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		190	6	2.8	22	10	0	0	23A-0063-PLC1	0.5 - 3.7 ft
1-Methylnaphthalene	90-12-0	ug/kg	18	141	190	80	0.81	390	19	16	2	23A-0001-PLC1	1.7 - 2.3 ft
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	190	0				0	0		
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	190	0				0	0		
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		190	0				0	0		
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	190	0				0	0		
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	190	0				0	0		
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	190	0				0	0		
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	190	0				0	0		
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	190	0				0	0		
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		190	0				0	0		
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	190	0				0	0		
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	190	114	0.78	520	18	0	17	23A-0001-PLC1	1.7 - 2.3 ft
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	190	0				0	0		
2-NITROANILINE	88-74-4	ug/kg	63000		190	0				0	0		
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	190	0				0	0		
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	190	0				0	0		
3-NITROANILINE	99-09-2	ug/kg	25000		190	0				0	0		
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	190	0				0	0		
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	190	0				0	0		
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	190	0				0	0		
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	190	0				0	0		
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			190	0				0	0		
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	190	0				0	0		
4-Nitroaniline	100-01-6	ug/kg	25000		190	0				0	0		
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	190	0				0	0		

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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Acenaphthene	83-32-9	ug/kg	360000	6.7	190	103	0.89	2700	87	0	57	23A-0004-B2C1	0.5 - 1.4 ft
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	190	116	0.8	270	13	0	55	23A-0001-PLC1	0.5 - 1.7 ft
Acetophenone	98-86-2	ug/kg	780000		190	112	46	870	220	0	0	23A-0004-B2C1	0.5 - 1.4 ft
ANTHRACENE	120-12-7	ug/kg	1800000	57	190	126	0.85	12000	200	0	24	23A-0004-B2C1	0.5 - 1.4 ft
ATRAZINE	1912-24-9	ug/kg	2400	0.3	190	0				0	0		
BENZALDEHYDE	100-52-7	ug/kg	170000	59	190	6	70	170	110	0	6	23A-0004-B2C1	0.5 - 1.4 ft
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	190	167	0.77	15000	440	14	58	23A-0004-B2C1	0.5 - 1.4 ft
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	190	141	1.6	7900	260	26	23	23A-0092-PLC1	0 - 0.5 ft
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	190	171	0.94	10000	530	20	44	23A-0004-B2C1 23A-0092-PLC1	0.5 - 1.4 ft 0 - 0.5 ft
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	190	111	0.76	3900	230	0	19	23A-0092-PLC1	0 - 0.5 ft
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	190	148	0.79	4600	130	0	13	23A-0004-B2C1	0.5 - 1.4 ft
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	190	3	47	360	160	0	1	23A-0034-PLC1	0 - 0.5 ft
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	190	3	75	170	110	0	0	23A-0001-PLC1	1.7 - 2.3 ft
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		190	2	45	140	93	0	0	23A-0025-B1C1	0.5 - 1.3 ft
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		190	0				0	0		
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	190	131	44	2200	280	0	60	23A-0062-PLC1 23A-0093-PLC1	0.5 - 3 ft 0 - 0.5 ft
Caprolactam	105-60-2	ug/kg	3100000		190	0				0	0		
CARBAZOLE	86-74-8	ug/kg	240000	69	190	11	43	980	290	0	9	23A-0004-B2C1	0.5 - 1.4 ft
CHRYSENE	218-01-9	ug/kg	110000	166	190	169	0.92	9900	450	0	44	23A-0004-B2C1	0.5 - 1.4 ft
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	190	123	0.85	1200	45	7	22	23A-0004-B2C1 23A-0092-PLC1	0.5 - 1.4 ft 0 - 0.5 ft
Dibenzofuran	132-64-9	ug/kg	7800	510	190	14	39	2100	390	0	3	23A-0004-B2C1	0.5 - 1.4 ft
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	190	0				0	0		
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	190	12	53	370	150	0	0	23A-0041-PLC1	0.5 - 1 ft
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	190	3	200	5400	2300	0	3	23A-0064-PLC1	3.7 - 5.7 ft
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	190	1	690	690	690	0	1	23A-0083-PLC1	0 - 0.5 ft
FLUORANTHENE	206-44-0	ug/kg	240000	423	190	166	0.77	35000	990	0	41	23A-0004-B2C1	0.5 - 1.4 ft
FLUORENE	86-73-7	ug/kg	240000	77	190	113	0.76	7600	130	0	13	23A-0004-B2C1	0.5 - 1.4 ft
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	190	0				0	0		
Hexachlorobutadiene	87-68-3	ug/kg	1200		190	0				0	0		
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	190	0				0	0		
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	190	0				0	0		
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	190	152	1.4	5600	200	7	18	23A-0092-PLC1	0 - 0.5 ft
ISOPHORONE	78-59-1	ug/kg	570000	876	190	0				0	0		
Naphthalene	91-20-3	ug/kg	2000	176	190	141	0.82	880	32	0	3	23A-0001-PLC1	1.7 - 2.3 ft
NITROBENZENE	98-95-3	ug/kg	5100	407	190	0				0	0		
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		190	1	230	230	230	1	0	23A-0010-PLC1	0 - 0.5 ft
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	190	0				0	0		
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	185	3	1.9	2.8	2.3	0	0	23A-0029-PLC1	3.3 - 5.8 ft
PHENANTHRENE	85-01-8	ug/kg	1800000	204	190	161	1.2	42000	830	0	45	23A-0004-B2C1	0.5 - 1.4 ft
PHENOL	108-95-2	ug/kg	1900000	175	190	29	44	300	100	0	3	23A-0004-B2C1 23A-0064-PLC1	0.5 - 1.4 ft 0 - 0.5 ft
PYRENE	129-00-0	ug/kg	180000	195	190	165	1.6	12000	590	0	49	23A-0092-PLC1	0 - 0.5 ft
TCL VOCs													
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	173	5	11	2600	740	0	3	23A-0005-PLC1	0 - 0.5 ft
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	173	0				0	0		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		173	5	3.9	960	240	0	0	23A-0005-PLC1	0 - 0.5 ft
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	173	0				0	0		
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	173	10	2	260	50	0	6	23A-0005-PLC1	0 - 0.5 ft
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	173	5	1.9	22	12	0	0	23A-0005-PLC1	0 - 0.5 ft
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	173	0				0	0		
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		173	0				0	0		

Table 12
Sediment Analytical Results Statistics - Phase 1 Reach and Reference Areas Combined
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	173	2	1.9	67	34	0	1	23A-0005-PLC1	0 - 0.5 ft
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	173	13	2.4	48	13	0	0	23A-0063-PLC1	3.7 - 4.9 ft
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		173	0				0	0		
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		173	0				0	0		
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	173	6	1.5	8700	1500	0	1	23A-0005-PLC1	0 - 0.5 ft
1,2-Dichloroethane	107-06-2	ug/kg	460	986	173	4	1.4	37	13	0	0	23A-0005-PLC1	0 - 0.5 ft
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	173	0				0	0		
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	173	4	1.8	17	6.4	0	0	23A-0063-PLC1	3.7 - 4.9 ft
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	173	0				0	0		
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	173	2	0.86	24	12	0	0	23A-0005-PLC1	0 - 0.5 ft
2-HEXANONE	591-78-6	ug/kg	20000	45	173	0				0	0		
ACETONE	67-64-1	ug/kg	7000000	65	173	134	5.3	1100	240	0	79	23A-0061-PLC1	0 - 0.5 ft
Benzene	71-43-2	ug/kg	1200	10	173	4	1.6	6.8	4.3	0	0	23A-0005-PLC1	0 - 0.5 ft
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		173	0				0	0		
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	173	0				0	0		
BROMOFORM	75-25-2	ug/kg	19000	142	173	0				0	0		
BROMOMETHANE	74-83-9	ug/kg	680	6.5	173	0				0	0		
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	173	36	1	31	5	0	3	23A-0005-PLC1	0 - 0.5 ft
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	173	0				0	0		
Chlorobenzene	108-90-7	ug/kg	28000	30	173	3	3.8	8	6.3	0	0	23A-0063-PLC1	3.7 - 4.9 ft
CHLOROETHANE	75-00-3	ug/kg	540000		173	14	3	140	30	0	0	23A-0062-PLC1	0.5 - 3 ft
Chloroform	67-66-3	ug/kg	320	87	173	0				0	0		
CHLOROMETHANE	74-87-3	ug/kg	11000		173	0				0	0		
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	173	16	2.1	4200	460	0	2	23A-0005-PLC1	0 - 0.5 ft
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		173	0				0	0		
Cyclohexane	110-82-7	ug/kg	650000		173	5	2.7	19	6.6	0	0	23A-0041-PLC1	0 - 0.5 ft
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	173	0				0	0		
Dichlorodifluoromethane	75-71-8	ug/kg	8700		173	1	22	22	22	0	0	23A-0005-PLC1	0 - 0.5 ft
Ethylbenzene	100-41-4	ug/kg	5800	290	173	5	3.9	49	15	0	0	23A-0063-PLC1	3.7 - 4.9 ft
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	173	4	2.7	5.3	3.8	0	0	23A-0063-PLC1	0.5 - 3.7 ft
m,p-Xylene	179601-23-1	ug/kg	55000		173	9	2.6	44	9.6	0	0	23A-0063-PLC1	3.7 - 4.9 ft
METHYL ACETATE	79-20-9	ug/kg	7800000		173	5	2.4	27	8.7	0	0	23A-0071-PLC1	0 - 0.5 ft
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	173	86	7.4	340	95	0	0	23A-0029-PLC1	0 - 0.5 ft
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	173	0				0	0		
Methylcyclohexane	108-87-2	ug/kg	9800		173	25	2.2	28	7.6	0	0	23A-0070-PLC1	2.3 - 4.2 ft
Methylene Chloride	75-09-2	ug/kg	35000	18	173	2	13	68	41	0	1	23A-0093-PLC1	0 - 0.5 ft
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		173	11	1.3	33	8.9	0	0	23A-0063-PLC1	3.7 - 4.9 ft
Styrene	100-42-5	ug/kg	600000	126	173	1	6.3	6.3	6.3	0	0	23A-0030-PLC1	0.5 - 1.8 ft
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	173	5	2.4	7	3.7	0	0	23A-0009-PLC1	0 - 0.5 ft
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	173	9	1.8	560	84	0	8	23A-0005-PLC1	0 - 0.5 ft
Toluene	108-88-3	ug/kg	490000	10	173	9	2.7	46	10	0	2	23A-0063-PLC1	3.7 - 4.9 ft
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	173	3	2.9	34	14	0	0	23A-0005-PLC1	0 - 0.5 ft
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		173	0				0	0		
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	173	11	0.97	230	26	0	1	23A-0005-PLC1	0 - 0.5 ft
Trichlorofluoromethane	75-69-4	ug/kg	2300000		173	0				0	0		
Vinyl Chloride	75-01-4	ug/kg	59	482	173	13	3	1400	190	3	2	23A-0063-PLC1	3.7 - 4.9 ft

Table 12
Sediment Analytical Results Statistics - Phase 1 Reach and Reference Areas Combined
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Grain Size													
%CLAY	%CLAY	%			174	174	0	55.1	13.5	0	0	Not Calculated	Not Calculated
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			174	174	0	36.3	6.32	0	0	Not Calculated	Not Calculated
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			174	174	0	93.3	29.4	0	0	Not Calculated	Not Calculated
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			174	174	0	43.3	11.2	0	0	Not Calculated	Not Calculated
Gravel	GRAVEL	%			174	174	0	97.5	12.9	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 1, Percent Passing	HYD01	%			174	174	0	660	26.9	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 2, Percent Passing	HYD02	%			174	174	0	462	23.5	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 3, Percent Passing	HYD03	%			174	174	0	363	21	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 4, Percent Passing	HYD04	%			174	174	0	264	18.9	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 5, Percent Passing	HYD05	%			174	174	0	165	16.3	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 6, Percent Passing	HYD06	%			174	174	0	69.8	13.2	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 7, Percent Passing	HYD07	%			174	174	0	66	11.5	0	0	Not Calculated	Not Calculated
Sand	308075-07-2	%			174	174	1.7	99.6	47	0	0	Not Calculated	Not Calculated
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			174	174	0	100	80.8	0	0	Not Calculated	Not Calculated
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			174	174	0	99.7	69.6	0	0	Not Calculated	Not Calculated
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			174	174	0	99.5	55.2	0	0	Not Calculated	Not Calculated
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			174	174	0	99.9	76.2	0	0	Not Calculated	Not Calculated
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			174	174	0	99.6	61.6	0	0	Not Calculated	Not Calculated
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			174	174	0	99.2	51.1	0	0	Not Calculated	Not Calculated
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			174	174	0	98.3	40.2	0	0	Not Calculated	Not Calculated
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			174	174	2.6	100	87.1	0	0	Not Calculated	Not Calculated
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			174	174	68.7	100	94.7	0	0	Not Calculated	Not Calculated
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			174	174	100	100	100	0	0	Not Calculated	Not Calculated
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			174	174	100	100	100	0	0	Not Calculated	Not Calculated
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			174	174	100	100	100	0	0	Not Calculated	Not Calculated
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			174	174	100	100	100	0	0	Not Calculated	Not Calculated
SILT	445	%			174	174	0	94.2	26.6	0	0	Not Calculated	Not Calculated

Notes:
Notes:
(a) Totals for PCDD/DF and PCB homolog groups were calculated by summing the detected congeners in each group after data validation was completed; if no congeners in a homolog group were detected, the maximum reporting detection limit of any member congener in that group was used.
(b) Sum of detected congeners.
(c) The number of samples shown and the calculation of summary statistics treated the parent and field duplicate as individual samples.
Analytes:
AVS/SEM - acid-volatile sulfide/simulateously extracted metals
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxins/furans
TAL - target analyte list
TCL - target compound list
TOC - total organic carbon
SVOCs - semi-volatile organic compounds
VOCs - volatile organic compounds
Units:
% - percent
mg/kg - miligram per kilogram
ng/g - nanogram per gram
pg/g - picogram per gram
ug/kg - microgram per kilogram
umol/g - micromole per gram
Project Action Limits (PALs):
The human health PALs are the USEPA regional screening levels for residential soil based on a target hazard quotient of 0.1 and a target risk level of 1E-06 (USEPA, 2024a).
The ecological PALs are the USEPA Region 4 ecological screening values for freshwater sediment (USEPA, 2018).
Comparison of the data to the PALs is for informational purposes only and is not an indication of risk.

Table 13
Sediment Analytical Results Statistics - Phase 1 Reach
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCDD/F													
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	169	168	0.839	18900	1150	76	76	23A-0007-PLC1	0.5 - 1.7 ft
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	169	125	0.32	229	34.1	0	32	23A-0070-PLC1	2.3 - 4.2 ft
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	169	126	0.249	1560	28.3	4	109	23A-0007-PLC1	0.5 - 1.7 ft
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	169	142	0.149	541	65.3	61	105	23A-0063-PLC1	0.5 - 3.7 ft
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	169	143	0.442	818	67.7	67	65	23A-0007-PLC1	0.5 - 1.7 ft
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	169	138	0.114	199	31.6	34	84	23A-0063-PLC1	0.5 - 3.7 ft
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	169	141	0.391	736	40	43	40	23A-0007-PLC1	0.5 - 1.7 ft
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	169	0				0	0		
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	169	102	0.282	206	9.77	61	98	23A-0007-PLC1	0.5 - 1.7 ft
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	169	121	0.273	102	11.2	0	48	23A-0063-PLC1	0.5 - 3.7 ft
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	169	163	0.278	3060	529	68	102	23A-0007-PLC1	0.5 - 1.7 ft
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	169	136	0.294	187	29.5	29	85	23A-0063-PLC1	0.5 - 3.7 ft
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	169	142	0.256	969	74.8	83	134	23A-0063-PLC1	0.5 - 3.7 ft
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	169	75	0.206	25.3	5.45	29	73	23A-0007-PLC1	0.5 - 1.7 ft
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	169	131	0.369	462	32	24	68	23A-0063-PLC1	0.5 - 3.7 ft
OCDD	3268-87-9	pg/g	16000	5000	169	169	5.48	92700	7630	30	70	23A-0007-PLC1	0.5 - 1.7 ft
OCDF	39001-02-0	pg/g	16000	5000	169	156	0.372	3380	623	0	0	23A-0048-PLC1	0 - 0.5 ft
Total HpCDD (a)	RA_Total_HpCDD	pg/g			169	169	0.839	18900	1150	0	0	23A-0007-PLC1	0.5 - 1.7 ft
Total HpCDF (a)	RA_Total_HpCDF	pg/g			169	163	0.278	3280	555	0	0	23A-0007-PLC1	0.5 - 1.7 ft
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		169	165	0.714	3110	130	58	0	23A-0007-PLC1	0.5 - 1.7 ft
Total HxCDF (a)	RA_Total_HxCDF	pg/g			169	154	0.149	927	123	0	0	23A-0063-PLC1	0.5 - 3.7 ft
Total PeCDD (a)	RA_Total_PeCDD	pg/g			169	133	0.282	206	9.77	0	0	23A-0007-PLC1	0.5 - 1.7 ft
Total PeCDF (a)	RA_Total_PeCDF	pg/g			169	147	0.256	1070	84.3	0	0	23A-0063-PLC1	0.5 - 3.7 ft
Total TCDD (a)	RA_Total_TCDD	pg/g			169	112	0.206	25.3	5.45	0	0	23A-0007-PLC1	0.5 - 1.7 ft
Total TCDF (a)	RA_Total_TCDF	pg/g			169	142	0.369	462	32	0	0	23A-0063-PLC1	0.5 - 3.7 ft
TAL Metals and Mercury													
Aluminum	7429-90-5	mg/kg	7700	25000	170	170	1500	18000	5900	38	0	23A-0032-PLC1	0.5 - 1.7 ft
Antimony	7440-36-0	mg/kg	3.1	2	170	38	0.059	14	2.3	5	12	23A-0005-PLC1	0.5 - 1.5 ft
Arsenic	7440-38-2	mg/kg	0.68	9.8	170	170	0.7	42	4	170	3	23A-0042-PLC1	0.5 - 1.9 ft
Barium	7440-39-3	mg/kg	1500	20	170	170	5.8	330	58	0	140	23A-0070-PLC1	0 - 0.5 ft
Beryllium	7440-41-7	mg/kg	16		170	156	0.11	3	0.39	0	0	23A-0001-PLC1	0.5 - 1.7 ft
Cadmium	7440-43-9	mg/kg	0.71	1	170	106	0.082	4.3	1.3	68	53	23A-0020-PLC1	0.5 - 2.3 ft
Calcium	7440-70-2	mg/kg			170	170	620	8100	2200	0	0	23A-0066-PLC1	0 - 0.5 ft
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	170	170	4	170	33	170	47	23A-0042-PLC1	0.5 - 1.9 ft
Cobalt	7440-48-4	mg/kg	2.3	50	170	170	1.8	25	6.4	166	0	23A-0042-PLC1	0.5 - 1.9 ft
Copper	7440-50-8	mg/kg	310	31.6	170	170	5.1	260	49	0	80	23A-0042-PLC1	0.5 - 1.9 ft
Iron	7439-89-6	mg/kg	5500	20000	170	170	5000	34000	14000	167	13	23A-0042-PLC1	0.5 - 1.9 ft
Lead	7439-92-1	mg/kg	200	35.8	170	170	2.5	490	110	31	100	23A-0063-PLC1	0.5 - 3.7 ft
Magnesium	7439-95-4	mg/kg			170	170	620	6200	2200	0	0	23A-0012-PLC1	1.7 - 3 ft
Manganese	7439-96-5	mg/kg	180	460	170	170	29	1200	270	99	20	23A-0033-B2C1	0 - 0.5 ft
Mercury	7439-97-6	mg/kg	2.3	0.18	170	138	0.02	4.2	0.69	7	81	23A-0064-PLC1	0.5 - 3.7 ft
Nickel	7440-02-0	mg/kg	140	22.7	170	170	2.7	150	13	1	9	23A-0042-PLC1	0.5 - 1.9 ft
Potassium	7440-09-7	mg/kg			170	170	90	2400	460	0	0	23A-0012-PLC1	1.7 - 3 ft
Selenium	7782-49-2	mg/kg	39	11	170	17	0.4	1.6	0.71	0	0	23A-0001-PLC1	0.5 - 1.7 ft
Silver	7440-22-4	mg/kg	39	1	170	114	0.033	2.7	0.48	0	18	23A-0063-PLC1	0.5 - 3.7 ft
Sodium	7440-23-5	mg/kg			170	170	57	7300	460	0	0	23A-0042-PLC1	0.5 - 1.9 ft
Thallium	7440-28-0	mg/kg	0.078		170	16	0.054	0.18	0.1	11	0	23A-0055-B1C1	2.1 - 3.4 ft
Vanadium	7440-62-2	mg/kg	39		170	170	4.4	55	20	12	0	23A-0019-B2C2	0.5 - 3.1 ft
Zinc	7440-66-6	mg/kg	2300	121	170	170	11	1200	160	0	77	23A-0026-B1C1	0 - 0.5 ft

Table 13
Sediment Analytical Results Statistics - Phase 1 Reach
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
AVS/SEM													
Acid Volatile Sulfide	AVS	umol/g			56	43	1	80	24	0	0	23A-0018-PLC1	0 - 0.5 ft
Cadmium	7440-43-9	umol/g			56	55	0.00036	0.027	0.0094	0	0	23A-0054-PLC2	0 - 0.5 ft
Copper	7440-50-8	umol/g			56	56	0.00064	1.3	0.47	0	0	23A-0010-PLC1	0 - 0.5 ft
Lead	7439-92-1	umol/g			56	55	0.023	1.6	0.51	0	0	23A-0054-PLC2	0 - 0.5 ft
Mercury	7439-97-6	umol/g			56	7	0.000015	0.000035	0.000024	0	0	23A-0028-PLC2	0 - 0.5 ft
Nickel	7440-02-0	umol/g			56	55	0.028	1.8	0.37	0	0	23A-0048-PLC1	0 - 0.5 ft
Silver	7440-22-4	umol/g			56	55	0.000089	0.0017	0.00057	0	0	23A-0060-PLC1	0 - 0.5 ft
Zinc	7440-66-6	umol/g			56	55	0.12	20	3	0	0	23A-0026-B1C1	0 - 0.5 ft
Total Cyanide													
CYANIDE	57-12-5	mg/kg	2.3		171	10	0.26	3.8	1	1	0	23A-0019-B2C2	0 - 0.5 ft
Total Organic Carbon													
TOTAL ORGANIC CARBON	TOC	mg/kg			158	158	220	380000	46000	0	0	23A-0029-PLC1	0 - 0.5 ft
PCB Congeners													
PCB-001	2051-60-7	ng/g	230	14.0	169	165	0.344	193000	11300	78	137	23A-0070-PLC1	2.3 - 4.2 ft
PCB-002	2051-61-8	ng/g	230	14.0	169	120	0.291	1030	83.7	12	50	23A-0063-PLC1	0.5 - 3.7 ft
PCB-003	2051-62-9	ng/g	230	14.0	169	155	0.42	24200	1540	51	108	23A-0063-PLC1	0.5 - 3.7 ft
PCB-004/010	PCB-4/10	ng/g	230	14.0	169	165	1.36	745000	39900	110	148	23A-0063-PLC1	0.5 - 3.7 ft
PCB-005/008	PCB-5/8	ng/g	230	14.0	169	165	0.56	342000	18000	103	148	23A-0063-PLC1	0.5 - 3.7 ft
PCB-006	25569-80-6	ng/g	230	14.0	169	162	0.482	59600	2750	70	125	23A-0064-PLC1	3.7 - 5.7 ft
PCB-007/009	PCB-7/9	ng/g	230	14.0	169	153	0.148	12900	484	42	101	23A-0063-PLC1	0.5 - 3.7 ft
PCB-011	2050-67-1	ng/g	230	14.0	169	135	0.205	3330	235	31	80	23A-0063-PLC1	0.5 - 3.7 ft
PCB-012/013	PCB-12/13	ng/g	230	14.0	169	146	0.308	7740	445	44	108	23A-0063-PLC1	0.5 - 3.7 ft
PCB-014	34883-41-5	ng/g	230	14.0	169	17	0.674	21.7	8.91	0	2	23A-0007-PLC1	0.5 - 1.7 ft
PCB-015	2050-68-2	ng/g	230	14.0	169	158	0.655	148000	3980	84	134	23A-0008-PLC1	0 - 0.5 ft
PCB-016/032	PCB-16/32	ng/g	230	14.0	169	164	0.477	201000	9280	99	142	23A-0063-PLC1	0.5 - 3.7 ft
PCB-017	37680-66-3	ng/g	230	14.0	169	164	0.317	110000	5600	90	138	23A-0063-PLC1	0.5 - 3.7 ft
PCB-018	37680-65-2	ng/g	230	14.0	169	163	0.187	26700	1960	75	129	23A-0005-PLC1	0 - 0.5 ft
PCB-019	38444-73-4	ng/g	230	14.0	169	164	0.208	132000	6550	81	131	23A-0064-PLC1	3.7 - 5.7 ft
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	169	147	0.382	8190	287	35	107	23A-0005-PLC1	0 - 0.5 ft
PCB-022	38444-85-8	ng/g	230	14.0	169	155	0.0946	11500	395	45	110	23A-0005-PLC1	0 - 0.5 ft
PCB-023/034	PCB-23/34	ng/g	230	14.0	169	130	0.348	2890	205	28	66	23A-0063-PLC1	0.5 - 3.7 ft
PCB-024/027	PCB-24/27	ng/g	230	14.0	169	163	0.119	53900	2970	59	129	23A-0063-PLC1	0.5 - 3.7 ft
PCB-025	55712-37-3	ng/g	230	14.0	169	162	0.3	58000	2180	70	126	23A-0063-PLC1	0.5 - 3.7 ft
PCB-026	38444-81-4	ng/g	230	14.0	169	163	0.229	52200	2690	77	132	23A-0063-PLC1	0.5 - 3.7 ft
PCB-028	7012-37-5	ng/g	230	14.0	169	164	0.253	198000	5010	87	132	23A-0063-PLC1	0.5 - 3.7 ft
PCB-029	15862-07-4	ng/g	230	14.0	169	47	0.591	84.5	13.1	0	10	23A-0005-PLC1	0 - 0.5 ft
PCB-030	35693-92-6	ng/g	230	14.0	169	65	0.401	87.1	10.7	0	14	23A-0063-PLC1	0.5 - 3.7 ft
PCB-031	16606-02-3	ng/g	230	14.0	169	164	0.297	63500	3800	96	140	23A-0063-PLC1	0.5 - 3.7 ft
PCB-035	37680-69-6	ng/g	230	14.0	169	91	0.514	553	37.5	3	34	23A-0063-PLC1	0.5 - 3.7 ft
PCB-036	38444-87-0	ng/g	230	14.0	169	72	0.208	211	36.7	0	38	23A-0005-PLC1	0 - 0.5 ft
PCB-037	38444-90-5	ng/g	230	14.0	169	140	0.508	7790	338	36	110	23A-0063-PLC1	0.5 - 3.7 ft
PCB-038	53555-66-1	ng/g	230	14.0	169	117	0.346	2190	135	18	55	23A-0063-PLC1	0.5 - 3.7 ft
PCB-039	38444-88-1	ng/g	230	14.0	169	100	0.239	672	54	4	40	23A-0063-PLC1	0.5 - 3.7 ft
PCB-040	38444-93-8	ng/g	230	14.0	169	138	0.194	2830	105	17	81	23A-0005-PLC1	0 - 0.5 ft
PCB-041/064	PCB-41/64	ng/g	230	14.0	169	161	0.112	8610	483	46	120	23A-0005-PLC1	0 - 0.5 ft
PCB-042	36559-22-5	ng/g	230	14.0	169	158	0.0869	10900	577	48	117	23A-0063-PLC1	0.5 - 3.7 ft
PCB-043/049	PCB-43/49	ng/g	230	14.0	169	166	0.146	70400	3480	91	140	23A-0063-PLC1	0.5 - 3.7 ft
PCB-044	41464-39-5	ng/g	230	14.0	169	161	0.155	15600	767	63	125	23A-0005-PLC1	0 - 0.5 ft
PCB-045	70362-45-7	ng/g	230	14.0	169	147	0.256	3890	214	35	89	23A-0005-PLC1	0 - 0.5 ft

Table 13
Sediment Analytical Results Statistics - Phase 1 Reach
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-046	41464-47-5	ng/g	230	14.0	169	139	0.206	2230	137	23	87	23A-0063-PLC1	0.5 - 3.7 ft
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	169	166	0.139	77200	3570	86	136	23A-0063-PLC1	0.5 - 3.7 ft
PCB-050	62796-65-0	ng/g	230	14.0	169	124	0.296	968	72.7	12	46	23A-0063-PLC1	0.5 - 3.7 ft
PCB-051	68194-04-7	ng/g	230	14.0	169	161	0.0971	12900	796	47	112	23A-0063-PLC1	0.5 - 3.7 ft
PCB-052/073	PCB-52/73	ng/g	230	14.0	169	165	0.182	37900	2320	86	137	23A-0063-PLC1	0.5 - 3.7 ft
PCB-053	41464-41-9	ng/g	230	14.0	169	162	0.0998	32200	1590	58	125	23A-0063-PLC1	0.5 - 3.7 ft
PCB-054	15968-05-5	ng/g	230	14.0	169	146	0.125	2450	148	27	57	23A-0063-PLC1	0.5 - 3.7 ft
PCB-055	74338-24-2	ng/g	230	14.0	169	67	0.345	260	10	1	8	23A-0005-PLC1	0 - 0.5 ft
PCB-056/060	PCB-56/60	ng/g	230	14.0	169	146	0.25	7040	134	13	102	23A-0005-PLC1	0 - 0.5 ft
PCB-057	70424-67-8	ng/g	230	14.0	169	132	0.287	1080	97.8	17	56	23A-0063-PLC1	0.5 - 3.7 ft
PCB-058	41464-49-7	ng/g	230	14.0	169	77	0.435	111	11.9	0	18	23A-0063-PLC1	0.5 - 3.7 ft
PCB-059	74472-33-6	ng/g	230	14.0	169	144	0.107	1270	63.2	12	59	23A-0005-PLC1	0 - 0.5 ft
PCB-061/074	PCB-61/74	ng/g	230	14.0	169	157	0.119	11300	384	36	114	23A-0063-PLC1	0.5 - 3.7 ft
PCB-062	54230-22-7	ng/g	230	14.0	169	0				0	0		
PCB-063	74472-34-7	ng/g	230	14.0	169	153	0.152	4370	291	33	91	23A-0063-PLC1	0.5 - 3.7 ft
PCB-065	33284-54-7	ng/g	230	14.0	169	39	0.473	40.9	10.8	0	10	23A-0070-PLC1	2.3 - 4.2 ft
PCB-066/080	PCB-66/80	ng/g	230	14.0	169	157	0.103	14400	503	39	116	23A-0063-PLC1	0.5 - 3.7 ft
PCB-067	73575-53-8	ng/g	230	14.0	169	122	0.222	535	30.6	3	43	23A-0005-PLC1	0 - 0.5 ft
PCB-068	73575-52-7	ng/g	230	14.0	169	117	0.118	1260	109	19	50	23A-0023-B2C2	0 - 0.5 ft
PCB-069	60233-24-1	ng/g	230	14.0	169	108	0.285	331	33.1	3	38	23A-0063-PLC1	0.5 - 3.7 ft
PCB-070	32598-11-1	ng/g	230	14.0	169	154	0.132	9040	322	32	113	23A-0005-PLC1	0 - 0.5 ft
PCB-071	41464-46-4	ng/g	230	14.0	169	163	0.0796	15100	766	52	123	23A-0063-PLC1	0.5 - 3.7 ft
PCB-072	41464-42-0	ng/g	230	14.0	169	138	0.0951	1090	97.6	21	56	23A-0063-PLC1	0.5 - 3.7 ft
PCB-076	70362-48-0	ng/g	230	14.0	169	3	2.47	5.61	3.87	0	0	23A-0049-B2C1	0.5 - 2.2 ft
PCB-077	32598-13-3	ng/g	38.0	14.0	169	137	0.366	3860	117	43	78	23A-0063-PLC1	0.5 - 3.7 ft
PCB-078	70362-49-1	ng/g	230	14.0	169	71	0.394	44.1	7.44	0	16	23A-0063-PLC1	0.5 - 3.7 ft
PCB-079	41464-48-6	ng/g	230	14.0	169	43	0.404	49	6.16	0	5	23A-0063-PLC1	0.5 - 3.7 ft
PCB-081	70362-50-4	ng/g	12.0	14.0	169	77	0.209	92.4	7.26	10	9	23A-0005-PLC1	0 - 0.5 ft
PCB-082	52663-62-4	ng/g	230	14.0	169	133	0.329	808	33.4	3	54	23A-0005-PLC1	0 - 0.5 ft
PCB-083/109	PCB-83/109	ng/g	230	14.0	169	137	0.182	1210	77.9	15	58	23A-0063-PLC1	0.5 - 3.7 ft
PCB-084	52663-60-2	ng/g	230	14.0	169	154	0.137	2330	152	27	100	23A-0063-PLC1	0.5 - 3.7 ft
PCB-085/120	PCB-85/120	ng/g	230	14.0	169	144	0.381	1280	65	7	93	23A-0005-PLC1	0 - 0.5 ft
PCB-086/097	PCB-86/97	ng/g	230	14.0	169	140	0.149	1950	89.2	12	94	23A-0063-PLC1	0.5 - 3.7 ft
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	169	46	0.981	225	29.9	0	26	23A-0008-PLC1	0 - 0.5 ft
PCB-088/121	PCB-88/121	ng/g	230	14.0	169	43	0.579	40.6	9.78	0	8	23A-0063-PLC1	0.5 - 3.7 ft
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	169	159	0.0799	9490	411	41	112	23A-0063-PLC1	0.5 - 3.7 ft
PCB-091	68194-05-8	ng/g	230	14.0	169	156	0.212	6950	361	38	104	23A-0063-PLC1	0.5 - 3.7 ft
PCB-092	52663-61-3	ng/g	230	14.0	169	156	0.178	5550	294	37	99	23A-0063-PLC1	0.5 - 3.7 ft
PCB-093/095	PCB-93/95	ng/g	230	14.0	169	160	0.0835	5190	401	38	114	23A-0063-PLC1	0.5 - 3.7 ft
PCB-094	73575-55-0	ng/g	230	14.0	169	129	0.189	1160	77.3	15	44	23A-0063-PLC1	0.5 - 3.7 ft
PCB-096	73575-54-9	ng/g	230	14.0	169	131	0.174	422	33.3	5	40	23A-0063-PLC1	0.5 - 3.7 ft
PCB-098/102	PCB-98/102	ng/g	230	14.0	169	141	0.253	2240	112	22	63	23A-0063-PLC1	0.5 - 3.7 ft
PCB-099	38380-01-7	ng/g	230	14.0	169	158	0.0619	8780	284	35	109	23A-0063-PLC1	0.5 - 3.7 ft
PCB-100	39485-83-1	ng/g	230	14.0	169	127	0.14	802	64.6	10	45	23A-0063-PLC1	0.5 - 3.7 ft
PCB-103	60145-21-3	ng/g	230	14.0	169	136	0.151	819	51.5	8	43	23A-0063-PLC1	0.5 - 3.7 ft
PCB-104	56558-16-8	ng/g	230	14.0	169	73	0.16	53.7	7.16	0	11	23A-0070-PLC1	2.3 - 4.2 ft
PCB-105/127	PCB-105/127	ng/g	120	14.0	169	143	0.254	1950	89.3	19	100	23A-0063-PLC1	0.5 - 3.7 ft
PCB-106/118	PCB-106/118	ng/g	120	14.0	169	153	0.39	11300	334	49	110	23A-0063-PLC1	0.5 - 3.7 ft
PCB-107/108	PCB-107/108	ng/g	230	14.0	169	131	0.168	1700	70.5	9	50	23A-0063-PLC1	0.5 - 3.7 ft
PCB-110	38380-03-9	ng/g	230	14.0	169	162	0.132	12200	693	57	128	23A-0063-PLC1	0.5 - 3.7 ft

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Sediment Analytical Results Statistics - Phase 1 Reach
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-111/117	PCB-111/117	ng/g	230	14.0	169	119	0.231	2770	208	31	88	23A-0063-PLC1	0.5 - 3.7 ft
PCB-112	74472-36-9	ng/g	230	14.0	169	94	0.0878	187	18.7	0	30	23A-0063-PLC1	0.5 - 3.7 ft
PCB-113	68194-10-5	ng/g	230	14.0	169	84	0.192	98.8	16.5	0	31	23A-0063-PLC1	0.5 - 3.7 ft
PCB-114	74472-37-0	ng/g	120	14.0	169	96	0.409	229	14.6	3	18	23A-0063-PLC1	0.5 - 3.7 ft
PCB-119	56558-17-9	ng/g	230	14.0	169	138	0.418	1870	93.8	14	51	23A-0063-PLC1	0.5 - 3.7 ft
PCB-122	76842-07-4	ng/g	230	14.0	169	52	0.197	94.3	7.51	0	4	23A-0063-PLC1	0.5 - 3.7 ft
PCB-123	65510-44-3	ng/g	120	14.0	169	109	0.635	292	15.7	2	30	23A-0063-PLC1	0.5 - 3.7 ft
PCB-124	70424-70-3	ng/g	230	14.0	169	95	0.217	308	12.8	1	15	23A-0063-PLC1	0.5 - 3.7 ft
PCB-125	74472-39-2	ng/g	230	14.0	169	63	0.44	170	12.2	0	12	23A-0063-PLC1	0.5 - 3.7 ft
PCB-126	57465-28-8	ng/g	0.0360	14.0	169	59	0.441	106	15.7	59	19	23A-0063-PLC1	0.5 - 3.7 ft
PCB-128	38380-07-3	ng/g	230	14.0	169	140	0.141	873	44.1	3	66	23A-0063-PLC1	0.5 - 3.7 ft
PCB-129	55215-18-4	ng/g	230	14.0	169	103	0.356	229	11.8	0	19	23A-0063-PLC1	0.5 - 3.7 ft
PCB-130	52663-66-8	ng/g	230	14.0	169	128	0.294	400	25.9	2	43	23A-0063-PLC1	0.5 - 3.7 ft
PCB-131/142	PCB-131/142	ng/g	230	14.0	169	71	0.14	60.1	4.68	0	5	23A-0063-PLC1	0.5 - 3.7 ft
PCB-132/168	PCB-132/168	ng/g	230	14.0	169	151	0.155	1310	77.6	15	89	23A-0063-PLC1	0.5 - 3.7 ft
PCB-133	35694-04-3	ng/g	230	14.0	169	111	0.194	248	23.1	1	33	23A-0070-PLC1	2.3 - 4.2 ft
PCB-134	52704-70-8	ng/g	230	14.0	169	124	0.259	413	29.7	4	39	23A-0063-PLC1	0.5 - 3.7 ft
PCB-135/144	PCB-135/144	ng/g	230	14.0	169	143	0.0679	875	59.6	8	59	23A-0063-PLC1	0.5 - 3.7 ft
PCB-136	38411-22-2	ng/g	230	14.0	169	145	0.056	656	43.9	6	50	23A-0063-PLC1	0.5 - 3.7 ft
PCB-137	35694-06-5	ng/g	230	14.0	169	120	0.231	451	22.4	2	37	23A-0063-PLC1	0.5 - 3.7 ft
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	169	156	0.226	5690	289	40	110	23A-0063-PLC1	0.5 - 3.7 ft
PCB-139/149	PCB-139/149	ng/g	230	14.0	169	159	0.208	3820	199	35	108	23A-0063-PLC1	0.5 - 3.7 ft
PCB-140	59291-64-4	ng/g	230	14.0	169	56	0.263	55.7	8.46	0	9	23A-0063-PLC1	0.5 - 3.7 ft
PCB-141	52712-04-6	ng/g	230	14.0	169	133	0.191	687	30.4	2	50	23A-0063-PLC1	0.5 - 3.7 ft
PCB-143	68194-15-0	ng/g	230	14.0	169	16	0.295	42.3	5.66	0	2	23A-0063-PLC1	0.5 - 3.7 ft
PCB-145	74472-40-5	ng/g	230	14.0	169	7	0.216	1.05	0.49	0	0	23A-0023-B2C2	0.5 - 1.7 ft
PCB-146	51908-16-8	ng/g	230	14.0	169	143	0.0967	910	56.4	9	52	23A-0063-PLC1	0.5 - 3.7 ft
PCB-147	68194-13-8	ng/g	230	14.0	169	134	0.0751	845	61.1	11	42	23A-0063-PLC1	0.5 - 3.7 ft
PCB-148	74472-41-6	ng/g	230	14.0	169	62	0.192	67.4	9.84	0	14	23A-0070-PLC1	2.3 - 4.2 ft
PCB-150	68194-08-1	ng/g	230	14.0	169	89	0.107	74.6	8.4	0	16	23A-0064-PLC1	3.7 - 5.7 ft
PCB-151	52663-63-5	ng/g	230	14.0	169	144	0.091	1430	91.8	16	62	23A-0063-PLC1	0.5 - 3.7 ft
PCB-152	68194-09-2	ng/g	230	14.0	169	77	0.161	88.2	10.4	0	15	23A-0063-PLC1	0.5 - 3.7 ft
PCB-153	35065-27-1	ng/g	230	14.0	169	156	0.16	4220	178	32	107	23A-0063-PLC1	0.5 - 3.7 ft
PCB-154	60145-22-4	ng/g	230	14.0	169	129	0.108	359	27.6	5	36	23A-0063-PLC1	0.5 - 3.7 ft
PCB-155	33979-03-2	ng/g	230	14.0	169	15	0.0888	3.01	1.02	0	0	23A-0064-PLC1	3.7 - 5.7 ft
PCB-156	38380-08-4	ng/g	120	14.0	169	130	0.0822	714	30.4	5	45	23A-0063-PLC1	0.5 - 3.7 ft
PCB-157	69782-90-7	ng/g	120	14.0	169	115	0.117	188	10.5	2	22	23A-0063-PLC1	0.5 - 3.7 ft
PCB-158/160	PCB-158/160	ng/g	230	14.0	169	136	0.0884	552	25.8	2	45	23A-0063-PLC1	0.5 - 3.7 ft
PCB-159	39635-35-3	ng/g	230	14.0	169	48	0.337	45.7	7.77	0	9	23A-0063-PLC1	0.5 - 3.7 ft
PCB-161	74472-43-8	ng/g	230	14.0	169	1	18.4	18.4	18.4	0	1	23A-0057-PLC1	1.5 - 2.5 ft
PCB-162	39635-34-2	ng/g	230	14.0	169	25	0.22	43.1	7.01	0	4	23A-0063-PLC1	0.5 - 3.7 ft
PCB-165	74472-46-1	ng/g	230	14.0	169	37	0.3	24.3	7.66	0	9	23A-0070-PLC1	2.3 - 4.2 ft
PCB-166	41411-63-6	ng/g	230	14.0	169	24	0.264	37.2	4.83	0	2	23A-0063-PLC1	0.5 - 3.7 ft
PCB-167	52663-72-6	ng/g	120	14.0	169	120	0.166	284	13.5	2	27	23A-0063-PLC1	0.5 - 3.7 ft
PCB-169	32774-16-6	ng/g	0.120	14.0	169	1	1.21	1.21	1.21	1	0	23A-0057-PLC1	1.5 - 2.5 ft
PCB-170/190	PCB-170/190	ng/g	230	14.0	169	143	0.109	1540	79.8	13	64	23A-0063-PLC1	0.5 - 3.7 ft
PCB-171	52663-71-5	ng/g	230	14.0	169	129	0.195	354	21.9	2	38	23A-0063-PLC1	0.5 - 3.7 ft
PCB-172/192	PCB-172/192	ng/g	230	14.0	169	121	0.148	205	14	0	32	23A-0063-PLC1	0.5 - 3.7 ft
PCB-173	68194-16-1	ng/g	230	14.0	169	12	0.252	27.5	5.69	0	2	23A-0063-PLC1	0.5 - 3.7 ft
PCB-174	38411-25-5	ng/g	230	14.0	169	146	0.0748	1060	56.6	9	54	23A-0063-PLC1	0.5 - 3.7 ft

Table 13
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-175	40186-70-7	ng/g	230	14.0	169	75	0.216	48.4	4.77	0	6	23A-0063-PLC1	0.5 - 3.7 ft
PCB-176	52663-65-7	ng/g	230	14.0	169	127	0.0932	132	8.9	0	23	23A-0063-PLC1	0.5 - 3.7 ft
PCB-177	52663-70-4	ng/g	230	14.0	169	143	0.0812	698	44.4	8	49	23A-0063-PLC1	0.5 - 3.7 ft
PCB-178	52663-67-9	ng/g	230	14.0	169	131	0.149	321	25.6	2	39	23A-0063-PLC1	0.5 - 3.7 ft
PCB-179	52663-64-6	ng/g	230	14.0	169	142	0.063	488	32.6	5	42	23A-0063-PLC1	0.5 - 3.7 ft
PCB-180	35065-29-3	ng/g	230	14.0	169	156	0.0413	2730	133	23	93	23A-0063-PLC1	0.5 - 3.7 ft
PCB-181	74472-47-2	ng/g	230	14.0	169	1	1.06	1.06	1.06	0	0	23A-0068-PLC2	0 - 0.5 ft
PCB-182/187	PCB-182/187	ng/g	230	14.0	169	151	0.123	1560	96.7	17	68	23A-0063-PLC1	0.5 - 3.7 ft
PCB-183	52663-69-1	ng/g	230	14.0	169	142	0.0936	617	34.8	4	46	23A-0063-PLC1	0.5 - 3.7 ft
PCB-184	74472-48-3	ng/g	230	14.0	169	0				0	0		
PCB-185	52712-05-7	ng/g	230	14.0	169	104	0.29	125	8.78	0	17	23A-0063-PLC1	0.5 - 3.7 ft
PCB-186	74472-49-4	ng/g	230	14.0	169	0				0	0		
PCB-188	74487-85-7	ng/g	230	14.0	169	36	0.144	12.5	3.33	0	0	23A-0070-PLC1	2.3 - 4.2 ft
PCB-189	39635-31-9	ng/g	130	14.0	169	89	0.223	71.5	6.25	0	10	23A-0063-PLC1	0.5 - 3.7 ft
PCB-191	74472-50-7	ng/g	230	14.0	169	83	0.158	51.3	4.39	0	6	23A-0063-PLC1	0.5 - 3.7 ft
PCB-193	69782-91-8	ng/g	230	14.0	169	120	0.0852	153	11.4	0	25	23A-0063-PLC1	0.5 - 3.7 ft
PCB-194	35694-08-7	ng/g	230	14.0	169	131	0.66	1010	71.4	13	52	23A-0063-PLC1	0.5 - 3.7 ft
PCB-195	52663-78-2	ng/g	230	14.0	169	114	0.469	327	25.7	1	39	23A-0063-PLC1	0.5 - 3.7 ft
PCB-196/203	PCB-196/203	ng/g	230	14.0	169	135	0.465	974	64	11	52	23A-0063-PLC1	0.5 - 3.7 ft
PCB-197	33091-17-7	ng/g	230	14.0	169	57	0.193	28.8	4.31	0	6	23A-0063-PLC1	0.5 - 3.7 ft
PCB-198	68194-17-2	ng/g	230	14.0	169	33	0.384	43.7	7.19	0	5	23A-0063-PLC1	0.5 - 3.7 ft
PCB-199	52663-75-9	ng/g	230	14.0	169	136	0.263	793	54	9	50	23A-0063-PLC1	0.5 - 3.7 ft
PCB-200	52663-73-7	ng/g	230	14.0	169	94	0.192	93.8	8.97	0	16	23A-0063-PLC1	0.5 - 3.7 ft
PCB-201	40186-71-8	ng/g	230	14.0	169	103	0.152	94.9	8.65	0	19	23A-0063-PLC1	0.5 - 3.7 ft
PCB-202	2136-99-4	ng/g	230	14.0	169	109	0.129	138	12.6	0	27	23A-0063-PLC1	0.5 - 3.7 ft
PCB-204	74472-52-9	ng/g	230	14.0	169	0				0	0		
PCB-205	74472-53-0	ng/g	230	14.0	169	52	0.438	51.5	8	0	8	23A-0063-PLC1	0.5 - 3.7 ft
PCB-206	40186-72-9	ng/g	230	14.0	169	127	0.197	338	27.9	1	40	23A-0063-PLC1	0.5 - 3.7 ft
PCB-207	52663-79-3	ng/g	230	14.0	169	80	0.127	36.4	4.58	0	6	23A-0063-PLC1	0.5 - 3.7 ft
PCB-208	52663-77-1	ng/g	230	14.0	169	110	0.157	69.8	7.55	0	19	23A-0063-PLC1	0.5 - 3.7 ft
PCB-209	2051-24-3	ng/g	230	14.0	169	108	0.134	47	7.55	0	22	23A-0063-PLC1	0.5 - 3.7 ft
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	169	108	0.134	47	7.55	0	22	23A-0063-PLC1	0.5 - 3.7 ft
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	169	156	0.0413	10200	536	45	115	23A-0063-PLC1	0.5 - 3.7 ft
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	169	159	0.208	25600	1270	79	136	23A-0063-PLC1	0.5 - 3.7 ft
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	169	137	0.728	3550	236	33	95	23A-0063-PLC1	0.5 - 3.7 ft
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	169	167	5.72	2670000	140000	153	164	23A-0063-PLC1	0.5 - 3.7 ft
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	169	162	0.157	81400	3810	107	146	23A-0063-PLC1	0.5 - 3.7 ft
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	169	165	1.92	1220000	65400	127	156	23A-0063-PLC1	0.5 - 3.7 ft
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	169	165	0.344	196000	12800	87	138	23A-0070-PLC1	2.3 - 4.2 ft
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	169	127	0.197	444	37.3	6	46	23A-0063-PLC1	0.5 - 3.7 ft
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	169	166	0.467	326000	16700	123	155	23A-0063-PLC1	0.5 - 3.7 ft
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	169	166	0.498	896000	40700	131	158	23A-0063-PLC1	0.5 - 3.7 ft

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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
TCL Pesticides													
ALDRIN	309-00-2	ug/kg	39	29	167	1	0.86	0.86	0.86	0	0	23A-0002-PLC2	0 - 0.5 ft
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	167	0				0	0		
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		167	0				0	0		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	167	0				0	0		
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	167	3	0.4	1.3	0.8	0	1	23A-0002-PLC2	0 - 0.5 ft
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		167	46	0.18	34	5.5	0	0	23A-0063-PLC1	0.5 - 3.7 ft
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		167	116	0.25	280	17	5	0	23A-0005-PLC1	0 - 0.5 ft
DIELDRIN	60-57-1	ug/kg	34	1.9	167	5	0.28	31	6.8	0	2	23A-0063-PLC1	0.5 - 3.7 ft
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	167	43	0.24	22	2.8	0	31	23A-0063-PLC1	0.5 - 3.7 ft
ENDRIN	72-20-8	ug/kg	1900	2.22	167	86	0.22	43	4.1	0	29	23A-0063-PLC1	0.5 - 3.7 ft
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		167	0				0	0		
ENDRIN KETONE	53494-70-5	ug/kg	1900		167	0				0	0		
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	167	115	0.19	980	54	3	80	23A-0063-PLC1	0.5 - 3.7 ft
HEPTACHLOR	76-44-8	ug/kg	130	0.6	167	1	1.9	1.9	1.9	0	1	23A-0064-PLC1	0 - 0.5 ft
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	167	74	0.31	290	19	6	46	23A-0063-PLC1	0.5 - 3.7 ft
METHOXYCHLOR	72-43-5	ug/kg	32000	30	167	0				0	0		
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	167	68	0.21	20	2.5	0	10	23A-0060-PLC1	0.5 - 2 ft
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	167	32	0.29	10	1.5	0	7	23A-0060-PLC1	2 - 3.6 ft
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	167	133	0.11	220	12	0	106	23A-0063-PLC1	0.5 - 3.7 ft
TOXAPHENE	8001-35-2	ug/kg	490	0.1	167	0				0	0		
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		167	73	0.2	160	12	0	0	23A-0063-PLC1	0.5 - 3.7 ft
TCL SVOCs													
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	169	0				0	0		
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		169	6	2.8	22	10	0	0	23A-0063-PLC1	0.5 - 3.7 ft
1-Methylnaphthalene	90-12-0	ug/kg	18	141	169	80	0.81	390	19	16	2	23A-0001-PLC1	1.7 - 2.3 ft
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	169	0				0	0		
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	169	0				0	0		
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		169	0				0	0		
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	169	0				0	0		
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	169	0				0	0		
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	169	0				0	0		
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	169	0				0	0		
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	169	0				0	0		
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		169	0				0	0		
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	169	0				0	0		
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	169	114	0.78	520	18	0	17	23A-0001-PLC1	1.7 - 2.3 ft
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	169	0				0	0		
2-NITROANILINE	88-74-4	ug/kg	63000		169	0				0	0		
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	169	0				0	0		
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	169	0				0	0		
3-NITROANILINE	99-09-2	ug/kg	25000		169	0				0	0		
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	169	0				0	0		
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	169	0				0	0		
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	169	0				0	0		
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	169	0				0	0		
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			169	0				0	0		
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	169	0				0	0		
4-Nitroaniline	100-01-6	ug/kg	25000		169	0				0	0		
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	169	0				0	0		

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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Acenaphthene	83-32-9	ug/kg	360000	6.7	169	103	0.89	2700	87	0	57	23A-0004-B2C1	0.5 - 1.4 ft
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	169	116	0.8	270	13	0	55	23A-0001-PLC1	0.5 - 1.7 ft
Acetophenone	98-86-2	ug/kg	780000		169	112	46	870	220	0	0	23A-0004-B2C1	0.5 - 1.4 ft
ANTHRACENE	120-12-7	ug/kg	1800000	57	169	124	0.85	12000	170	0	22	23A-0004-B2C1	0.5 - 1.4 ft
ATRAZINE	1912-24-9	ug/kg	2400	0.3	169	0				0	0		
BENZALDEHYDE	100-52-7	ug/kg	170000	59	169	6	70	170	110	0	6	23A-0004-B2C1	0.5 - 1.4 ft
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	169	154	0.77	15000	270	6	45	23A-0004-B2C1	0.5 - 1.4 ft
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	169	130	1.6	1500	74	15	12	23A-0060-PLC1	0.5 - 2 ft
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	169	153	0.94	10000	240	6	26	23A-0004-B2C1	0.5 - 1.4 ft
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	169	94	0.76	530	27	0	2	23A-0001-PLC1	0.5 - 1.7 ft
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	169	145	0.79	4600	100	0	10	23A-0004-B2C1	0.5 - 1.4 ft
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	169	3	47	360	160	0	1	23A-0034-PLC1	0 - 0.5 ft
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	169	3	75	170	110	0	0	23A-0001-PLC1	1.7 - 2.3 ft
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		169	2	45	140	93	0	0	23A-0025-B1C1	0.5 - 1.3 ft
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		169	0				0	0		
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	169	124	44	2200	220	0	53	23A-0062-PLC1	0.5 - 3 ft
Caprolactam	105-60-2	ug/kg	3100000		169	0				0	0		
CARBAZOLE	86-74-8	ug/kg	240000	69	169	11	43	980	290	0	9	23A-0004-B2C1	0.5 - 1.4 ft
CHRYSENE	218-01-9	ug/kg	110000	166	169	152	0.92	9900	220	0	27	23A-0004-B2C1	0.5 - 1.4 ft
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	169	122	0.85	1200	35	6	21	23A-0004-B2C1	0.5 - 1.4 ft
Dibenzofuran	132-64-9	ug/kg	7800	510	169	14	39	2100	390	0	3	23A-0004-B2C1	0.5 - 1.4 ft
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	169	0				0	0		
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	169	12	53	370	150	0	0	23A-0041-PLC1	0.5 - 1 ft
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	169	3	200	5400	2300	0	3	23A-0064-PLC1	3.7 - 5.7 ft
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	169	0				0	0		
FLUORANTHENE	206-44-0	ug/kg	240000	423	169	152	0.77	35000	620	0	27	23A-0004-B2C1	0.5 - 1.4 ft
FLUORENE	86-73-7	ug/kg	240000	77	169	113	0.76	7600	130	0	13	23A-0004-B2C1	0.5 - 1.4 ft
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	169	0				0	0		
Hexachlorobutadiene	87-68-3	ug/kg	1200		169	0				0	0		
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	169	0				0	0		
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	169	0				0	0		
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	169	140	1.4	860	50	0	6	23A-0060-PLC1	0.5 - 2 ft
ISOPHORONE	78-59-1	ug/kg	570000	876	169	0				0	0		
Naphthalene	91-20-3	ug/kg	2000	176	169	141	0.82	880	32	0	3	23A-0001-PLC1	1.7 - 2.3 ft
NITROBENZENE	98-95-3	ug/kg	5100	407	169	0				0	0		
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		169	1	230	230	230	1	0	23A-0010-PLC1	0 - 0.5 ft
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	169	0				0	0		
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	164	3	1.9	2.8	2.3	0	0	23A-0029-PLC1	3.3 - 5.8 ft
PHENANTHRENE	85-01-8	ug/kg	1800000	204	169	149	1.2	42000	630	0	33	23A-0004-B2C1	0.5 - 1.4 ft
PHENOL	108-95-2	ug/kg	1900000	175	169	29	44	300	100	0	3	23A-0004-B2C1 23A-0064-PLC1	0.5 - 1.4 ft 0 - 0.5 ft
PYRENE	129-00-0	ug/kg	180000	195	169	150	1.6	5100	250	0	34	23A-0004-B2C1	0.5 - 1.4 ft
TCL VOCs													
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	152	5	11	2600	740	0	3	23A-0005-PLC1	0 - 0.5 ft
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	152	0				0	0		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		152	5	3.9	960	240	0	0	23A-0005-PLC1	0 - 0.5 ft
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	152	0				0	0		
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	152	10	2	260	50	0	6	23A-0005-PLC1	0 - 0.5 ft
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	152	5	1.9	22	12	0	0	23A-0005-PLC1	0 - 0.5 ft
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	152	0				0	0		
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		152	0				0	0		

Table 13
Sediment Analytical Results Statistics - Phase 1 Reach
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	152	2	1.9	67	34	0	1	23A-0005-PLC1	0 - 0.5 ft
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	152	11	2.4	48	15	0	0	23A-0063-PLC1	3.7 - 4.9 ft
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		152	0				0	0		
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		152	0				0	0		
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	152	6	1.5	8700	1500	0	1	23A-0005-PLC1	0 - 0.5 ft
1,2-Dichloroethane	107-06-2	ug/kg	460	986	152	4	1.4	37	13	0	0	23A-0005-PLC1	0 - 0.5 ft
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	152	0				0	0		
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	152	4	1.8	17	6.4	0	0	23A-0063-PLC1	3.7 - 4.9 ft
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	152	0				0	0		
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	152	2	0.86	24	12	0	0	23A-0005-PLC1	0 - 0.5 ft
2-HEXANONE	591-78-6	ug/kg	20000	45	152	0				0	0		
ACETONE	67-64-1	ug/kg	7000000	65	152	124	5.3	1100	240	0	71	23A-0061-PLC1	0 - 0.5 ft
Benzene	71-43-2	ug/kg	1200	10	152	4	1.6	6.8	4.3	0	0	23A-0005-PLC1	0 - 0.5 ft
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		152	0				0	0		
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	152	0				0	0		
BROMOFORM	75-25-2	ug/kg	19000	142	152	0				0	0		
BROMOMETHANE	74-83-9	ug/kg	680	6.5	152	0				0	0		
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	152	34	1	31	5	0	3	23A-0005-PLC1	0 - 0.5 ft
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	152	0				0	0		
Chlorobenzene	108-90-7	ug/kg	28000	30	152	3	3.8	8	6.3	0	0	23A-0063-PLC1	3.7 - 4.9 ft
CHLOROETHANE	75-00-3	ug/kg	540000		152	14	3	140	30	0	0	23A-0062-PLC1	0.5 - 3 ft
Chloroform	67-66-3	ug/kg	320	87	152	0				0	0		
CHLOROMETHANE	74-87-3	ug/kg	11000		152	0				0	0		
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	152	15	3	4200	490	0	2	23A-0005-PLC1	0 - 0.5 ft
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		152	0				0	0		
Cyclohexane	110-82-7	ug/kg	650000		152	5	2.7	19	6.6	0	0	23A-0041-PLC1	0 - 0.5 ft
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	152	0				0	0		
Dichlorodifluoromethane	75-71-8	ug/kg	8700		152	1	22	22	22	0	0	23A-0005-PLC1	0 - 0.5 ft
Ethylbenzene	100-41-4	ug/kg	5800	290	152	5	3.9	49	15	0	0	23A-0063-PLC1	3.7 - 4.9 ft
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	152	4	2.7	5.3	3.8	0	0	23A-0063-PLC1	0.5 - 3.7 ft
m,p-Xylene	179601-23-1	ug/kg	55000		152	9	2.6	44	9.6	0	0	23A-0063-PLC1	3.7 - 4.9 ft
METHYL ACETATE	79-20-9	ug/kg	7800000		152	1	2.4	2.4	2.4	0	0	23A-0002-PLC2	0.5 - 3.1 ft
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	152	77	7.4	340	100	0	0	23A-0029-PLC1	0 - 0.5 ft
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	152	0				0	0		
Methylcyclohexane	108-87-2	ug/kg	9800		152	25	2.2	28	7.6	0	0	23A-0070-PLC1	2.3 - 4.2 ft
Methylene Chloride	75-09-2	ug/kg	35000	18	152	1	13	13	13	0	0	23A-0009-PLC1	0.5 - 3 ft
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		152	11	1.3	33	8.9	0	0	23A-0063-PLC1	3.7 - 4.9 ft
Styrene	100-42-5	ug/kg	600000	126	152	1	6.3	6.3	6.3	0	0	23A-0030-PLC1	0.5 - 1.8 ft
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	152	5	2.4	7	3.7	0	0	23A-0009-PLC1	0 - 0.5 ft
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	152	9	1.8	560	84	0	8	23A-0005-PLC1	0 - 0.5 ft
Toluene	108-88-3	ug/kg	490000	10	152	9	2.7	46	10	0	2	23A-0063-PLC1	3.7 - 4.9 ft
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	152	3	2.9	34	14	0	0	23A-0005-PLC1	0 - 0.5 ft
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		152	0				0	0		
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	152	9	1.6	230	32	0	1	23A-0005-PLC1	0 - 0.5 ft
Trichlorofluoromethane	75-69-4	ug/kg	2300000		152	0				0	0		
Vinyl Chloride	75-01-4	ug/kg	59	482	152	13	3	1400	190	3	2	23A-0063-PLC1	3.7 - 4.9 ft

Table 13
Sediment Analytical Results Statistics - Phase 1 Reach
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Grain Size													
%CLAY	%CLAY	%			154	154	0	55.1	15.2	0	0	Not Calculated	Not Calculated
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			154	154	0	36.3	5.97	0	0	Not Calculated	Not Calculated
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			154	154	0	93.3	28.8	0	0	Not Calculated	Not Calculated
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			154	154	0	43.3	11.4	0	0	Not Calculated	Not Calculated
Gravel	GRAVEL	%			154	154	0	97.5	12.9	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 1, Percent Passing	HYD01	%			154	154	0	660	29.9	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 2, Percent Passing	HYD02	%			154	154	0	462	26.2	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 3, Percent Passing	HYD03	%			154	154	0	363	23.5	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 4, Percent Passing	HYD04	%			154	154	0	264	21.2	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 5, Percent Passing	HYD05	%			154	154	0	165	18.4	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 6, Percent Passing	HYD06	%			154	154	0	69.8	14.8	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 7, Percent Passing	HYD07	%			154	154	0	66	12.9	0	0	Not Calculated	Not Calculated
Sand	308075-07-2	%			154	154	1.7	99.6	46.2	0	0	Not Calculated	Not Calculated
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			154	154	0	100	81.2	0	0	Not Calculated	Not Calculated
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			154	154	0	99.7	69.8	0	0	Not Calculated	Not Calculated
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			154	154	0	99.5	55.6	0	0	Not Calculated	Not Calculated
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			154	154	0	99.9	76.5	0	0	Not Calculated	Not Calculated
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			154	154	0	99.6	61.9	0	0	Not Calculated	Not Calculated
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			154	154	0	99.2	51.6	0	0	Not Calculated	Not Calculated
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			154	154	0	98.3	41	0	0	Not Calculated	Not Calculated
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			154	154	2.6	100	87.1	0	0	Not Calculated	Not Calculated
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			154	154	68.7	100	94.5	0	0	Not Calculated	Not Calculated
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			154	154	100	100	100	0	0	Not Calculated	Not Calculated
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			154	154	100	100	100	0	0	Not Calculated	Not Calculated
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			154	154	100	100	100	0	0	Not Calculated	Not Calculated
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			154	154	100	100	100	0	0	Not Calculated	Not Calculated
SILT	445	%			154	154	0	94.2	25.7	0	0	Not Calculated	Not Calculated

Notes:
(a) Totals for PCDD/DF and PCB homolog groups were calculated by summing the detected congeners in each group after data validation was completed; if no congeners in a homolog group were detected, the maximum reporting detection limit of any member congener in that group was used.
(b) Sum of detected congeners.
(c) The number of samples shown and the calculation of summary statistics treated the parent and field duplicate as individual samples.
Analytes:
AVS/SEM - acid-volatile sulfide/simulateously extracted metals
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxins/furans
TAL - target analyte list
TCL - target compound list
TOC - total organic carbon
SVOCs - semi-volatile organic compounds
VOCs - volatile organic compounds
Units:
% - percent
mg/kg - miligram per kilogram
ng/g - nanogram per gram
pg/g - picogram per gram
ug/kg - microgram per kilogram
umol/g - micromole per gram
Project Action Limits (PALs):
The human health PALs are the USEPA regional screening levels for residential soil based on a target hazard quotient of 0.1 and a target risk level of 1E-06 (USEPA, 2024a).
The ecological PALs are the USEPA Region 4 ecological screening values for freshwater sediment (USEPA, 2018).
Comparison of the data to the PALs is for informational purposes only and is not an indication of risk.

Table 14
Sediment Analytical Results Statistics - Reference Areas
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCDD/F													
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	500	24	24	12.2	4680	881	12	12	23A-0088-PLC1	0 - 0.5 ft
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	50	24	23	0.595	40.8	16.6	0	0	23A-0074-PLC1	0 - 0.5 ft
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	1.0	24	24	0.528	30.7	9.34	0	19	23A-0088-PLC1	0 - 0.5 ft
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	5.0	24	24	1.68	166	42.6	8	19	23A-0074-PLC1	0 - 0.5 ft
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	50	24	24	0.714	239	45.3	8	7	23A-0088-PLC1	0 - 0.5 ft
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	5.0	24	24	1.17	76.9	21	2	16	23A-0074-PLC1	0 - 0.5 ft
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	50	24	24	0.576	122	26	5	5	23A-0088-PLC1	0 - 0.5 ft
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	5.0	24	0				0	0		
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	0.50	24	21	0.298	11.2	4.75	8	19	23A-0088-PLC1	0 - 0.5 ft
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	10.0	24	23	0.363	22.9	5.46	0	3	23A-0074-PLC1	0 - 0.5 ft
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	50	24	24	13.6	1650	573	11	18	23A-0080-PLC1 23A-0080-PLC1	0 - 0.5 ft 0 - 0.5 ft
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	5.0	24	24	0.759	50.1	15.8	1	17	23A-0074-PLC1	0 - 0.5 ft
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	1.0	24	24	1.24	66.7	15.2	8	24	23A-0074-PLC1	0 - 0.5 ft
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	0.50	24	15	0.357	2.59	1.44	0	13	23A-0080-PLC1	0 - 0.5 ft
2,3,7,8-TCDF	51207-31-9	pg/g	48	10.0	24	24	0.439	33.6	7.86	0	9	23A-0074-PLC1	0 - 0.5 ft
OCDD	3268-87-9	pg/g	16000	5000	24	24	86.6	27600	5750	3	10	23A-0088-PLC1	0 - 0.5 ft
OCDF	39001-02-0	pg/g	16000	5000	24	24	15.1	1490	543	0	0	23A-0080-PLC1	0 - 0.5 ft
Total HpCDD (a)	RA_Total_HpCDD	pg/g			24	24	12.2	4680	881	0	0	23A-0088-PLC1	0 - 0.5 ft
Total HpCDF (a)	RA_Total_HpCDF	pg/g			24	24	14.2	1690	589	0	0	23A-0080-PLC1 23A-0080-PLC1	0 - 0.5 ft 0 - 0.5 ft
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		24	24	2.1	392	80.7	7	0	23A-0088-PLC1	0 - 0.5 ft
Total HxCDF (a)	RA_Total_HxCDF	pg/g			24	24	4.3	293	79.3	0	0	23A-0074-PLC1	0 - 0.5 ft
Total PeCDD (a)	RA_Total_PeCDD	pg/g			24	22	0.298	11.2	4.75	0	0	23A-0088-PLC1	0 - 0.5 ft
Total PeCDF (a)	RA_Total_PeCDF	pg/g			24	24	1.62	89.6	20.4	0	0	23A-0074-PLC1	0 - 0.5 ft
Total TCDD (a)	RA_Total_TCDD	pg/g			24	22	0.357	2.59	1.44	0	0	23A-0080-PLC1	0 - 0.5 ft
Total TCDF (a)	RA_Total_TCDF	pg/g			24	24	0.439	33.6	7.86	0	0	23A-0074-PLC1	0 - 0.5 ft
TAL Metals and Mercury													
Aluminum	7429-90-5	mg/kg	7700	25000	22	22	940	13000	7000	10	0	23A-0075-PLC1	0 - 0.5 ft
Antimony	7440-36-0	mg/kg	3.1	2	22	15	0.058	1.3	0.59	0	0	23A-0078-PLC1	0 - 0.5 ft
Arsenic	7440-38-2	mg/kg	0.68	9.8	22	22	0.61	12	4	20	2	23A-0074-PLC1	0 - 0.5 ft
Barium	7440-39-3	mg/kg	1500	20	22	22	8.8	320	72	0	20	23A-0075-PLC1	0 - 0.5 ft
Beryllium	7440-41-7	mg/kg	16		22	16	0.087	1.4	0.43	0	0	23A-0075-PLC1	0 - 0.5 ft
Cadmium	7440-43-9	mg/kg	0.71	1	22	19	0.081	2.4	1	11	9	23A-0074-PLC1	0 - 0.5 ft
Calcium	7440-70-2	mg/kg			22	22	640	5700	3000	0	0	23A-0081-PLC1	0 - 0.5 ft
Chromium, Total	7440-47-3	mg/kg	0.3	43.4	22	22	4.4	100	36	22	9	23A-0075-PLC1	0 - 0.5 ft
Cobalt	7440-48-4	mg/kg	2.3	50	22	22	1.1	12	5.4	17	0	23A-0080-PLC1	0 - 0.5 ft
Copper	7440-50-8	mg/kg	310	31.6	22	22	6.5	170	50	0	13	23A-0074-PLC1	0 - 0.5 ft
Iron	7439-89-6	mg/kg	5500	20000	22	22	5100	38000	14000	21	3	23A-0078-PLC1	0 - 0.5 ft
Lead	7439-92-1	mg/kg	200	35.8	22	22	15	310	90	1	16	23A-0074-PLC1	0 - 0.5 ft
Magnesium	7439-95-4	mg/kg			22	21	1100	4900	2200	0	0	23A-0078-PLC1	0 - 0.5 ft
Manganese	7439-96-5	mg/kg	180	460	22	22	92	1500	350	16	5	23A-0081-PLC1	0 - 0.5 ft
Mercury	7439-97-6	mg/kg	2.3	0.18	22	20	0.026	0.91	0.42	0	14	23A-0080-PLC1 23A-0086-PLC1	0 - 0.5 ft 0 - 0.5 ft
Nickel	7440-02-0	mg/kg	140	22.7	22	22	3.4	18	8.1	0	0	23A-0074-PLC1	0 - 0.5 ft
Potassium	7440-09-7	mg/kg			22	22	190	940	560	0	0	23A-0074-PLC1	0 - 0.5 ft
Selenium	7782-49-2	mg/kg	39	11	22	10	0.98	3.6	1.8	0	0	23A-0075-PLC1	0 - 0.5 ft
Silver	7440-22-4	mg/kg	39	1	22	22	0.023	0.48	0.2	0	0	23A-0080-PLC1	0 - 0.5 ft
Sodium	7440-23-5	mg/kg			22	16	78	1600	370	0	0	23A-0093-PLC1	0 - 0.5 ft
Thallium	7440-28-0	mg/kg	0.078		22	11	0.031	0.14	0.083	6	0	23A-0074-PLC1	0 - 0.5 ft
Vanadium	7440-62-2	mg/kg	39		22	22	3.5	31	14	0	0	23A-0080-PLC1	0 - 0.5 ft
Zinc	7440-66-6	mg/kg	2300	121	22	22	33	410	170	0	11	23A-0074-PLC1	0 - 0.5 ft

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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Total Cyanide													
CYANIDE	57-12-5	mg/kg	2.3		22	8	0.27	1.8	1.1	0	0	23A-0084-PLC1 23A-0093-PLC1	0 - 0.5 ft 0 - 0.5 ft
Total Organic Carbon													
TOTAL ORGANIC CARBON	TOC	mg/kg			20	20	3000	180000	65000	0	0	23A-0074-PLC1	0 - 0.5 ft
PCB Congeners													
PCB-001	2051-60-7	ng/g	230	14.0	24	8	0.339	5.1	2.38	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-002	2051-61-8	ng/g	230	14.0	24	0				0	0		
PCB-003	2051-62-9	ng/g	230	14.0	24	2	0.611	0.681	0.646	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-004/010	PCB-4/10	ng/g	230	14.0	24	16	0.944	23.1	7.14	0	3	23A-0081-PLC1	0 - 0.5 ft
PCB-005/008	PCB-5/8	ng/g	230	14.0	24	15	0.502	10	3.2	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-006	25569-80-6	ng/g	230	14.0	24	8	0.4	8.51	2.7	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-007/009	PCB-7/9	ng/g	230	14.0	24	2	1.12	1.44	1.28	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-011	2050-67-1	ng/g	230	14.0	24	3	0.578	0.901	0.758	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-012/013	PCB-12/13	ng/g	230	14.0	24	1	0.792	0.792	0.792	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-014	34883-41-5	ng/g	230	14.0	24	0				0	0		
PCB-015	2050-68-2	ng/g	230	14.0	24	14	0.744	5.23	2.27	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-016/032	PCB-16/32	ng/g	230	14.0	24	16	1.34	15.2	5.4	0	2	23A-0080-PLC1	0 - 0.5 ft
PCB-017	37680-66-3	ng/g	230	14.0	24	18	0.879	14.9	5.16	0	1	23A-0080-PLC1	0 - 0.5 ft
PCB-018	37680-65-2	ng/g	230	14.0	24	17	0.79	16.4	4.48	0	2	23A-0080-PLC1	0 - 0.5 ft
PCB-019	38444-73-4	ng/g	230	14.0	24	15	0.562	6.16	2.81	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-020/021/033	PCB-20/21/33	ng/g	230	14.0	24	5	2.2	6.62	4.7	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-022	38444-85-8	ng/g	230	14.0	24	6	0.588	3.76	1.95	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-023/034	PCB-23/34	ng/g	230	14.0	24	0				0	0		
PCB-024/027	PCB-24/27	ng/g	230	14.0	24	14	0.304	3.89	1.66	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-025	55712-37-3	ng/g	230	14.0	24	8	1.09	5.38	2.51	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-026	38444-81-4	ng/g	230	14.0	24	11	0.657	8.23	3.54	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-028	7012-37-5	ng/g	230	14.0	24	19	0.6	13.3	4.86	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-029	15862-07-4	ng/g	230	14.0	24	0				0	0		
PCB-030	35693-92-6	ng/g	230	14.0	24	0				0	0		
PCB-031	16606-02-3	ng/g	230	14.0	24	19	0.882	12.5	3.84	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-035	37680-69-6	ng/g	230	14.0	24	0				0	0		
PCB-036	38444-87-0	ng/g	230	14.0	24	0				0	0		
PCB-037	38444-90-5	ng/g	230	14.0	24	3	0.649	3.32	2.36	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-038	53555-66-1	ng/g	230	14.0	24	0				0	0		
PCB-039	38444-88-1	ng/g	230	14.0	24	0				0	0		
PCB-040	38444-93-8	ng/g	230	14.0	24	0				0	0		
PCB-041/064	PCB-41/64	ng/g	230	14.0	24	19	0.308	4.64	2.03	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-042	36559-22-5	ng/g	230	14.0	24	8	1.31	5.02	2.99	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-043/049	PCB-43/49	ng/g	230	14.0	24	22	0.332	31.6	9.53	0	5	23A-0080-PLC1	0 - 0.5 ft
PCB-044	41464-39-5	ng/g	230	14.0	24	21	0.192	14.4	4.78	0	1	23A-0080-PLC1	0 - 0.5 ft
PCB-045	70362-45-7	ng/g	230	14.0	24	5	0.493	2.34	1.36	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-046	41464-47-5	ng/g	230	14.0	24	3	1.41	1.89	1.7	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-047/048/075	PCB-47/48/75	ng/g	230	14.0	24	22	0.207	17.7	5.25	0	2	23A-0080-PLC1	0 - 0.5 ft
PCB-050	62796-65-0	ng/g	230	14.0	24	0				0	0		
PCB-051	68194-04-7	ng/g	230	14.0	24	10	0.326	4.42	2.26	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-052/073	PCB-52/73	ng/g	230	14.0	24	24	0.438	37.8	10.5	0	5	23A-0080-PLC1	0 - 0.5 ft
PCB-053	41464-41-9	ng/g	230	14.0	24	18	0.34	9.16	3.21	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-054	15968-05-5	ng/g	230	14.0	24	3	0.474	0.671	0.599	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-055	74338-24-2	ng/g	230	14.0	24	0				0	0		
PCB-056/060	PCB-56/60	ng/g	230	14.0	24	15	0.876	3.83	2.29	0	0	23A-0080-PLC1	0 - 0.5 ft

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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-057	70424-67-8	ng/g	230	14.0	24	0				0	0		
PCB-058	41464-49-7	ng/g	230	14.0	24	0				0	0		
PCB-059	74472-33-6	ng/g	230	14.0	24	1	0.842	0.842	0.842	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-061/074	PCB-61/74	ng/g	230	14.0	24	20	0.312	4.19	1.89	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-062	54230-22-7	ng/g	230	14.0	24	0				0	0		
PCB-063	74472-34-7	ng/g	230	14.0	24	1	0.847	0.847	0.847	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-065	33284-54-7	ng/g	230	14.0	24	0				0	0		
PCB-066/080	PCB-66/80	ng/g	230	14.0	24	22	0.243	13.9	5.02	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-067	73575-53-8	ng/g	230	14.0	24	0				0	0		
PCB-068	73575-52-7	ng/g	230	14.0	24	1	2.05	2.05	2.05	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-069	60233-24-1	ng/g	230	14.0	24	0				0	0		
PCB-070	32598-11-1	ng/g	230	14.0	24	23	0.292	15.5	5.2	0	2	23A-0080-PLC1	0 - 0.5 ft
PCB-071	41464-46-4	ng/g	230	14.0	24	19	0.266	8.5	3.09	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-072	41464-42-0	ng/g	230	14.0	24	1	1.29	1.29	1.29	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-076	70362-48-0	ng/g	230	14.0	24	0				0	0		
PCB-077	32598-13-3	ng/g	38.0	14.0	24	3	1.07	1.91	1.47	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-078	70362-49-1	ng/g	230	14.0	24	0				0	0		
PCB-079	41464-48-6	ng/g	230	14.0	24	0				0	0		
PCB-081	70362-50-4	ng/g	12.0	14.0	24	1	0.817	0.817	0.817	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-082	52663-62-4	ng/g	230	14.0	24	8	0.683	4.08	2.27	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-083/109	PCB-83/109	ng/g	230	14.0	24	4	1.16	3.47	2.57	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-084	52663-60-2	ng/g	230	14.0	24	18	0.834	14.5	5.16	0	1	23A-0080-PLC1	0 - 0.5 ft
PCB-085/120	PCB-85/120	ng/g	230	14.0	24	18	0.485	10.5	3.94	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-086/097	PCB-86/97	ng/g	230	14.0	24	18	0.614	15.1	5.45	0	1	23A-0080-PLC1	0 - 0.5 ft
PCB-087/115/116	PCB-87/115/116	ng/g	230	14.0	24	2	1.32	1.44	1.38	0	0	23A-0083-PLC1	0 - 0.5 ft
PCB-088/121	PCB-88/121	ng/g	230	14.0	24	0				0	0		
PCB-089/090/101	PCB-89/90/101	ng/g	230	14.0	24	24	0.781	62.5	16.8	0	10	23A-0080-PLC1	0 - 0.5 ft
PCB-091	68194-05-8	ng/g	230	14.0	24	16	0.62	10.6	3.94	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-092	52663-61-3	ng/g	230	14.0	24	17	0.659	14	4.92	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-093/095	PCB-93/95	ng/g	230	14.0	24	23	0.582	50.1	13.7	0	8	23A-0080-PLC1	0 - 0.5 ft
PCB-094	73575-55-0	ng/g	230	14.0	24	0				0	0		
PCB-096	73575-54-9	ng/g	230	14.0	24	1	0.425	0.425	0.425	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-098/102	PCB-98/102	ng/g	230	14.0	24	10	0.332	2.32	1.37	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-099	38380-01-7	ng/g	230	14.0	24	20	0.549	29.4	9.19	0	4	23A-0080-PLC1	0 - 0.5 ft
PCB-100	39485-83-1	ng/g	230	14.0	24	0				0	0		
PCB-103	60145-21-3	ng/g	230	14.0	24	3	0.738	1.16	1.01	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-104	56558-16-8	ng/g	230	14.0	24	0				0	0		
PCB-105/127	PCB-105/127	ng/g	120	14.0	24	18	0.652	11.8	4.5	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-106/118	PCB-106/118	ng/g	120	14.0	24	24	0.716	46.3	13.2	0	7	23A-0080-PLC1	0 - 0.5 ft
PCB-107/108	PCB-107/108	ng/g	230	14.0	24	4	1.55	3.99	3.07	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-110	38380-03-9	ng/g	230	14.0	24	24	1.11	78.9	21.5	0	11	23A-0080-PLC1	0 - 0.5 ft
PCB-111/117	PCB-111/117	ng/g	230	14.0	24	19	0.981	18.6	6.47	0	2	23A-0080-PLC1	0 - 0.5 ft
PCB-112	74472-36-9	ng/g	230	14.0	24	0				0	0		
PCB-113	68194-10-5	ng/g	230	14.0	24	0				0	0		
PCB-114	74472-37-0	ng/g	120	14.0	24	0				0	0		
PCB-119	56558-17-9	ng/g	230	14.0	24	5	1.18	3.28	2.39	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-122	76842-07-4	ng/g	230	14.0	24	0				0	0		
PCB-123	65510-44-3	ng/g	120	14.0	24	2	1.98	2.03	2.01	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-124	70424-70-3	ng/g	230	14.0	24	3	1.32	2.34	1.85	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-125	74472-39-2	ng/g	230	14.0	24	0				0	0		

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PCB-126	57465-28-8	ng/g	0.0360	14.0	24	0				0	0		
PCB-128	38380-07-3	ng/g	230	14.0	24	18	0.705	17.2	6.19	0	2	23A-0080-PLC1	0 - 0.5 ft
PCB-129	55215-18-4	ng/g	230	14.0	24	4	1.29	3.57	2.56	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-130	52663-66-8	ng/g	230	14.0	24	10	0.506	5.3	2.81	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-131/142	PCB-131/142	ng/g	230	14.0	24	2	0.814	1.14	0.977	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-132/168	PCB-132/168	ng/g	230	14.0	24	22	0.321	26.5	7.73	0	4	23A-0080-PLC1	0 - 0.5 ft
PCB-133	35694-04-3	ng/g	230	14.0	24	2	1.11	1.23	1.17	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-134	52704-70-8	ng/g	230	14.0	24	7	1.1	4.12	2.37	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-135/144	PCB-135/144	ng/g	230	14.0	24	16	0.358	9.74	3.92	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-136	38411-22-2	ng/g	230	14.0	24	21	0.109	8.04	2.51	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-137	35694-06-5	ng/g	230	14.0	24	10	0.575	5.27	2.69	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-138/163/164	PCB-138/163/164	ng/g	230	14.0	24	24	1.17	86.8	23.5	0	12	23A-0080-PLC1	0 - 0.5 ft
PCB-139/149	PCB-139/149	ng/g	230	14.0	24	24	0.615	46.7	12.8	0	8	23A-0080-PLC1	0 - 0.5 ft
PCB-140	59291-64-4	ng/g	230	14.0	24	0				0	0		
PCB-141	52712-04-6	ng/g	230	14.0	24	17	0.482	11.2	4.35	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-143	68194-15-0	ng/g	230	14.0	24	0				0	0		
PCB-145	74472-40-5	ng/g	230	14.0	24	0				0	0		
PCB-146	51908-16-8	ng/g	230	14.0	24	18	0.324	8.05	3.01	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-147	68194-13-8	ng/g	230	14.0	24	6	0.727	2.08	1.5	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-148	74472-41-6	ng/g	230	14.0	24	0				0	0		
PCB-150	68194-08-1	ng/g	230	14.0	24	0				0	0		
PCB-151	52663-63-5	ng/g	230	14.0	24	19	0.293	9.65	3.43	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-152	68194-09-2	ng/g	230	14.0	24	0				0	0		
PCB-153	35065-27-1	ng/g	230	14.0	24	24	0.737	52.7	14.9	0	9	23A-0080-PLC1	0 - 0.5 ft
PCB-154	60145-22-4	ng/g	230	14.0	24	2	0.856	0.893	0.875	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-155	33979-03-2	ng/g	230	14.0	24	0				0	0		
PCB-156	38380-08-4	ng/g	120	14.0	24	13	0.396	6.16	2.79	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-157	69782-90-7	ng/g	120	14.0	24	3	1.52	2.57	1.92	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-158/160	PCB-158/160	ng/g	230	14.0	24	19	0.374	7.88	2.68	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-159	39635-35-3	ng/g	230	14.0	24	0				0	0		
PCB-161	74472-43-8	ng/g	230	14.0	24	0				0	0		
PCB-162	39635-34-2	ng/g	230	14.0	24	2	1.64	3.01	2.33	0	0	23A-0093-PLC1	0 - 0.5 ft
PCB-165	74472-46-1	ng/g	230	14.0	24	0				0	0		
PCB-166	41411-63-6	ng/g	230	14.0	24	0				0	0		
PCB-167	52663-72-6	ng/g	120	14.0	24	9	0.708	3.38	1.83	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-169	32774-16-6	ng/g	0.120	14.0	24	0				0	0		
PCB-170/190	PCB-170/190	ng/g	230	14.0	24	19	0.25	10.7	3.97	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-171	52663-71-5	ng/g	230	14.0	24	11	0.4	2.98	1.42	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-172/192	PCB-172/192	ng/g	230	14.0	24	6	0.551	1.19	0.852	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-173	68194-16-1	ng/g	230	14.0	24	0				0	0		
PCB-174	38411-25-5	ng/g	230	14.0	24	19	0.436	8.79	3.44	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-175	40186-70-7	ng/g	230	14.0	24	1	0.306	0.306	0.306	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-176	52663-65-7	ng/g	230	14.0	24	9	0.182	1.03	0.534	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-177	52663-70-4	ng/g	230	14.0	24	15	0.477	5	2.21	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-178	52663-67-9	ng/g	230	14.0	24	10	0.329	1.71	0.861	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-179	52663-64-6	ng/g	230	14.0	24	17	0.182	2.86	1.24	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-180	35065-29-3	ng/g	230	14.0	24	23	0.431	17.3	5.98	0	2	23A-0080-PLC1	0 - 0.5 ft
PCB-181	74472-47-2	ng/g	230	14.0	24	0				0	0		
PCB-182/187	PCB-182/187	ng/g	230	14.0	24	21	0.263	9.2	3.36	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-183	52663-69-1	ng/g	230	14.0	24	16	0.418	4.43	1.98	0	0	23A-0080-PLC1	0 - 0.5 ft

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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-184	74472-48-3	ng/g	230	14.0	24	0				0	0		
PCB-185	52712-05-7	ng/g	230	14.0	24	4	0.596	0.832	0.738	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-186	74472-49-4	ng/g	230	14.0	24	0				0	0		
PCB-188	74487-85-7	ng/g	230	14.0	24	0				0	0		
PCB-189	39635-31-9	ng/g	130	14.0	24	0				0	0		
PCB-191	74472-50-7	ng/g	230	14.0	24	0				0	0		
PCB-193	69782-91-8	ng/g	230	14.0	24	7	0.272	0.843	0.512	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-194	35694-08-7	ng/g	230	14.0	24	11	1.31	4.2	3.02	0	0	23A-0093-PLC1	0 - 0.5 ft
PCB-195	52663-78-2	ng/g	230	14.0	24	5	0.813	1.79	1.29	0	0	23A-0074-PLC1	0 - 0.5 ft
PCB-196/203	PCB-196/203	ng/g	230	14.0	24	13	1.13	4.75	2.91	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-197	33091-17-7	ng/g	230	14.0	24	0				0	0		
PCB-198	68194-17-2	ng/g	230	14.0	24	0				0	0		
PCB-199	52663-75-9	ng/g	230	14.0	24	13	0.821	4.06	2.47	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-200	52663-73-7	ng/g	230	14.0	24	2	0.456	0.494	0.475	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-201	40186-71-8	ng/g	230	14.0	24	1	0.38	0.38	0.38	0	0	23A-0074-PLC1	0 - 0.5 ft
PCB-202	2136-99-4	ng/g	230	14.0	24	3	0.702	0.897	0.794	0	0	23A-0080-PLC1	0 - 0.5 ft
PCB-204	74472-52-9	ng/g	230	14.0	24	0				0	0		
PCB-205	74472-53-0	ng/g	230	14.0	24	0				0	0		
PCB-206	40186-72-9	ng/g	230	14.0	24	15	0.62	5.9	2.65	0	0	23A-0093-PLC1	0 - 0.5 ft
PCB-207	52663-79-3	ng/g	230	14.0	24	4	0.308	0.551	0.41	0	0	23A-0074-PLC1	0 - 0.5 ft
PCB-208	52663-77-1	ng/g	230	14.0	24	13	0.3	2.57	1.13	0	0	23A-0093-PLC1	0 - 0.5 ft
PCB-209	2051-24-3	ng/g	230	14.0	24	19	0.357	7.56	2.44	0	0	23A-0093-PLC1	0 - 0.5 ft
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	14.0	24	19	0.357	7.56	2.44	0	0	23A-0093-PLC1	0 - 0.5 ft
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	14.0	24	23	0.431	67.1	20.7	0	12	23A-0080-PLC1	0 - 0.5 ft
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	14.0	24	24	2.95	320	84.5	2	18	23A-0080-PLC1	0 - 0.5 ft
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	14.0	24	13	2.47	15.7	8.71	0	2	23A-0080-PLC1	0 - 0.5 ft
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14.0	24	24	8.91	1130	300	14	22	23A-0080-PLC1	0 - 0.5 ft
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	14.0	24	24	3.19	385	101	4	19	23A-0080-PLC1	0 - 0.5 ft
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	14.0	24	19	1.44	47.9	11.6	0	4	23A-0080-PLC1	0 - 0.5 ft
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	14.0	24	8	0.339	5.78	2.54	0	0	23A-0080-PLC1	0 - 0.5 ft
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	14.0	24	15	0.92	8.93	3.74	0	0	23A-0093-PLC1	0 - 0.5 ft
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	14.0	24	24	0.838	181	50.2	0	19	23A-0080-PLC1	0 - 0.5 ft
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	14.0	24	19	6.48	109	30.9	0	12	23A-0080-PLC1	0 - 0.5 ft
TCL Pesticides													
ALDRIN	309-00-2	ug/kg	39	29	21	0				0	0		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/kg	86	0.3	21	0				0	0		
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/kg	47000		21	0				0	0		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/kg	300	5	21	0				0	0		
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/kg	47000	0.9	21	0				0	0		
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/kg	3600		21	2	6.4	6.9	6.7	0	0	23A-0094-PLC1	0 - 0.5 ft
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/kg	86		21	0				0	0		
DIELDRIN	60-57-1	ug/kg	34	1.9	21	2	4.9	5.5	5.2	0	2	23A-0084-PLC1	0 - 0.5 ft
ENDOSULFAN SULFATE	1031-07-8	ug/kg	38000	0.7	21	0				0	0		
ENDRIN	72-20-8	ug/kg	1900	2.22	21	0				0	0		
ENDRIN ALDEHYDE	7421-93-4	ug/kg	1900		21	1	5.7	5.7	5.7	0	0	23A-0092-PLC1	0 - 0.5 ft
ENDRIN KETONE	53494-70-5	ug/kg	1900		21	1	9.2	9.2	9.2	0	0	23A-0077-PLC1	0 - 0.5 ft
GAMMA BHC (LINDANE)	58-89-9	ug/kg	570	2.4	21	0				0	0		
HEPTACHLOR	76-44-8	ug/kg	130	0.6	21	0				0	0		
HEPTACHLOR EPOXIDE	1024-57-3	ug/kg	70	2.47	21	0				0	0		
METHOXYCHLOR	72-43-5	ug/kg	32000	30	21	1	34	34	34	0	1	23A-0092-PLC1	0 - 0.5 ft
P,P'-DDD (4,4'-DDD)	72-54-8	ug/kg	2300	3.5	21	12	1.8	24	12	0	11	23A-0093-PLC1	0 - 0.5 ft
P,P'-DDE (4,4'-DDE)	72-55-9	ug/kg	2000	1.4	21	7	3.8	23	16	0	7	23A-0081-PLC1	0 - 0.5 ft
P,P'-DDT (4,4'-DDT)	50-29-3	ug/kg	1900	1	21	14	2.7	81	13	0	14	23A-0080-PLC1	0 - 0.5 ft
TOXAPHENE	8001-35-2	ug/kg	490	0.1	21	0				0	0		
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/kg	3600		21	0				0	0		

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TCL SVOCs													
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	187	21	0				0	0		
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		21	0				0	0		
1-Methylnaphthalene	90-12-0	ug/kg	18	141	21	0				0	0		
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	30	21	0				0	0		
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	34	21	0				0	0		
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300		21	0				0	0		
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	57	21	0				0	0		
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	39	21	0				0	0		
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	223	21	0				0	0		
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	290	21	0				0	0		
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	296	21	0				0	0		
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		21	0				0	0		
2-CHLOROPHENOL	95-57-8	ug/kg	39000	55	21	0				0	0		
2-Methylnaphthalene	91-57-6	ug/kg	24000	20.2	21	0				0	0		
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	119	21	0				0	0		
2-NITROANILINE	88-74-4	ug/kg	63000		21	0				0	0		
2-NITROPHENOL	88-75-5	ug/kg	1900000	168	21	0				0	0		
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	31	21	0				0	0		
3-NITROANILINE	99-09-2	ug/kg	25000		21	0				0	0		
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510	1477	21	0				0	0		
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg		47	21	0				0	0		
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000	5	21	0				0	0		
4-CHLOROANILINE	106-47-8	ug/kg	2700	0.9	21	0				0	0		
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			21	0				0	0		
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	93	21	0				0	0		
4-Nitroaniline	100-01-6	ug/kg	25000		21	0				0	0		
4-NITROPHENOL	100-02-7	ug/kg	1900000	153	21	0				0	0		
Acenaphthene	83-32-9	ug/kg	360000	6.7	21	0				0	0		
ACENAPHTHYLENE	208-96-8	ug/kg	360000	5.9	21	0				0	0		
Acetophenone	98-86-2	ug/kg	780000		21	0				0	0		
ANTHRACENE	120-12-7	ug/kg	1800000	57	21	2	630	3000	1800	0	2	23A-0092-PLC1	0 - 0.5 ft
ATRAZINE	1912-24-9	ug/kg	2400	0.3	21	0				0	0		
BENZALDEHYDE	100-52-7	ug/kg	170000	59	21	0				0	0		
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	108	21	13	330	8500	2400	8	13	23A-0092-PLC1	0 - 0.5 ft
BENZO(A)PYRENE	50-32-8	ug/kg	110	150	21	11	580	7900	2400	11	11	23A-0092-PLC1	0 - 0.5 ft
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	190	21	18	590	10000	3000	14	18	23A-0092-PLC1	0 - 0.5 ft
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	170	21	17	260	3900	1400	0	17	23A-0092-PLC1	0 - 0.5 ft
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	240	21	3	940	2800	1700	0	3	23A-0092-PLC1	0 - 0.5 ft
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	100	21	0				0	0		
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	198	21	0				0	0		
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		21	0				0	0		
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		21	0				0	0		
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	180	21	7	570	2200	1200	0	7	23A-0093-PLC1	0 - 0.5 ft
Caprolactam	105-60-2	ug/kg	3100000		21	0				0	0		
CARBAZOLE	86-74-8	ug/kg	240000	69	21	0				0	0		
CHRYSENE	218-01-9	ug/kg	110000	166	21	17	460	8000	2400	0	17	23A-0092-PLC1	0 - 0.5 ft
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	33	21	1	1200	1200	1200	1	1	23A-0092-PLC1	0 - 0.5 ft
Dibenzofuran	132-64-9	ug/kg	7800	510	21	0				0	0		
Diethyl Phthalate	84-66-2	ug/kg	5100000	630	21	0				0	0		

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DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	678	21	0				0	0		
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	21	0				0	0		
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	39	21	1	690	690	690	0	1	23A-0083-PLC1	0 - 0.5 ft
FLUORANTHENE	206-44-0	ug/kg	240000	423	21	14	900	16000	5000	0	14	23A-0092-PLC1	0 - 0.5 ft
FLUORENE	86-73-7	ug/kg	240000	77	21	0				0	0		
HEXACHLOROBENZENE	118-74-1	ug/kg	78	20	21	0				0	0		
Hexachlorobutadiene	87-68-3	ug/kg	1200		21	0				0	0		
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	6.5	21	0				0	0		
HEXACHLOROETHANE	67-72-1	ug/kg	1800	27	21	0				0	0		
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	200	21	12	450	5600	2000	7	12	23A-0092-PLC1	0 - 0.5 ft
ISOPHORONE	78-59-1	ug/kg	570000	876	21	0				0	0		
Naphthalene	91-20-3	ug/kg	2000	176	21	0				0	0		
NITROBENZENE	98-95-3	ug/kg	5100	407	21	0				0	0		
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		21	0				0	0		
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	110	21	0				0	0		
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	10	21	0				0	0		
PHENANTHRENE	85-01-8	ug/kg	1800000	204	21	12	640	9000	3300	0	12	23A-0072-PLC1	0 - 0.5 ft
PHENOL	108-95-2	ug/kg	1900000	175	21	0				0	0		
PYRENE	129-00-0	ug/kg	180000	195	21	15	720	12000	3900	0	15	23A-0092-PLC1	0 - 0.5 ft
TCL VOCs													
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	70	21	0				0	0		
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	250	21	0				0	0		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		21	0				0	0		
1,1,2-Trichloroethane	79-00-5	ug/kg	150	538	21	0				0	0		
1,1-Dichloroethane	75-34-3	ug/kg	3600	20	21	0				0	0		
1,1-Dichloroethene	75-35-4	ug/kg	23000	100	21	0				0	0		
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	113	21	0				0	0		
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		21	0				0	0		
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	11	21	0				0	0		
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	97	21	2	2.8	5.9	4.4	0	0	23A-0074-PLC1	0 - 0.5 ft
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		21	0				0	0		
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		21	0				0	0		
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	95	21	0				0	0		
1,2-Dichloroethane	107-06-2	ug/kg	460	986	21	0				0	0		
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	428	21	0				0	0		
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	164	21	0				0	0		
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	89	21	0				0	0		
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	30	21	0				0	0		
2-HEXANONE	591-78-6	ug/kg	20000	45	21	0				0	0		
ACETONE	67-64-1	ug/kg	7000000	65	21	10	27	540	190	0	8	23A-0074-PLC1	0 - 0.5 ft
Benzene	71-43-2	ug/kg	1200	10	21	0				0	0		
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		21	0				0	0		
BROMODICHLOROMETHANE	75-27-4	ug/kg	290	210	21	0				0	0		
BROMOFORM	75-25-2	ug/kg	19000	142	21	0				0	0		
BROMOMETHANE	74-83-9	ug/kg	680	6.5	21	0				0	0		
CARBON DISULFIDE	75-15-0	ug/kg	77000	7.8	21	2	2.9	7.4	5.2	0	0	23A-0092-PLC1	0 - 0.5 ft
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	57	21	0				0	0		
Chlorobenzene	108-90-7	ug/kg	28000	30	21	0				0	0		
CHLOROETHANE	75-00-3	ug/kg	540000		21	0				0	0		

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Chloroform	67-66-3	ug/kg	320	87	21	0				0	0		
CHLOROMETHANE	74-87-3	ug/kg	11000		21	0				0	0		
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	432	21	1	2.1	2.1	2.1	0	0	23A-0074-PLC1	0 - 0.5 ft
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		21	0				0	0		
Cyclohexane	110-82-7	ug/kg	650000		21	0				0	0		
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300	198	21	0				0	0		
Dichlorodifluoromethane	75-71-8	ug/kg	8700		21	0				0	0		
Ethylbenzene	100-41-4	ug/kg	5800	290	21	0				0	0		
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	35	21	0				0	0		
m,p-Xylene	179601-23-1	ug/kg	55000		21	0				0	0		
METHYL ACETATE	79-20-9	ug/kg	7800000		21	4	2.5	27	10	0	0	23A-0071-PLC1	0 - 0.5 ft
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	7604	21	9	9.9	67	34	0	0	23A-0074-PLC1	0 - 0.5 ft
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000	73	21	0				0	0		
Methylcyclohexane	108-87-2	ug/kg	9800		21	0				0	0		
Methylene Chloride	75-09-2	ug/kg	35000	18	21	1	68	68	68	0	1	23A-0093-PLC1	0 - 0.5 ft
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		21	0				0	0		
Styrene	100-42-5	ug/kg	600000	126	21	0				0	0		
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000	304	21	0				0	0		
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	2	21	0				0	0		
Toluene	108-88-3	ug/kg	490000	10	21	0				0	0		
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	389	21	0				0	0		
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		21	0				0	0		
Trichloroethylene (TCE)	79-01-6	ug/kg	410	78	21	2	0.97	1.3	1.1	0	0	23A-0072-PLC1	0 - 0.5 ft
Trichlorofluoromethane	75-69-4	ug/kg	2300000		21	0				0	0		
Vinyl Chloride	75-01-4	ug/kg	59	482	21	0				0	0		
Grain Size													
%CLAY	%CLAY	%			20	20	0	3.1	0.37	0	0	Not Calculated	Not Calculated
%COARSE SAND >.5-1MM (USDA classification)	%COARSESAND	%			20	20	0.1	31	9.03	0	0	Not Calculated	Not Calculated
%FINE SAND >.125-.25 mm (USDA classification)	%FINE SAND	%			20	20	3.7	85.7	33.9	0	0	Not Calculated	Not Calculated
%MEDIUM SAND >.25-5 mm (USDA classification)	%MEDIUM SAND	%			20	20	0.8	27.1	10.1	0	0	Not Calculated	Not Calculated
Gravel	GRAVEL	%			20	20	0	44.3	12.9	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 1, Percent Passing	HYD01	%			20	20	0	13.9	4.38	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 2, Percent Passing	HYD02	%			20	20	0	7.9	2.5	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 3, Percent Passing	HYD03	%			20	20	0	7.9	1.8	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 4, Percent Passing	HYD04	%			20	20	0	4.6	1.2	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 5, Percent Passing	HYD05	%			20	20	0	3.1	0.37	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 6, Percent Passing	HYD06	%			20	20	0	3.1	0.31	0	0	Not Calculated	Not Calculated
Hydrometer, Reading 7, Percent Passing	HYD07	%			20	20	0	3.1	0.16	0	0	Not Calculated	Not Calculated
Sand	308075-07-2	%			20	20	9.6	88.2	53	0	0	Not Calculated	Not Calculated
SIEVE NO. 10, PERCENT PASSING (2.00 mm)	SIEVE10	%			20	20	34.8	99.8	78.1	0	0	Not Calculated	Not Calculated
SIEVE NO. 40, PERCENT PASSING (0.425 mm)	SIEVE40	%			20	20	19.7	98.3	68	0	0	Not Calculated	Not Calculated
SIEVE NO. 80, PERCENT PASSING	SIEVE80	%			20	20	14.9	96.3	52.2	0	0	Not Calculated	Not Calculated
SIEVE, NO. 20, PERCENT PASSING (0.85 mm)	SIEVE20	%			20	20	28.1	99.3	73.7	0	0	Not Calculated	Not Calculated
SIEVE, NO. 60, PERCENT PASSING	SIEVE60	%			20	20	16	97.9	59.7	0	0	Not Calculated	Not Calculated
Sieve-U.S. Std. No. 100 (0.15mm)	SIEVEUS100	%			20	20	14.4	95.2	47.9	0	0	Not Calculated	Not Calculated
Sieve-U.S. Std. No. 200 (0.075mm)	SIEVEUS200	%			20	20	10.9	90.4	34.1	0	0	Not Calculated	Not Calculated
Sieve-U.S. Std. No. 4 (4.75mm)	SIEVEUS4	%			20	20	55.7	100	87.1	0	0	Not Calculated	Not Calculated
Sieve-US Std. 0.375-inch (9.5 mm)	SIEVE0.375IN	%			20	20	79.8	100	96.9	0	0	Not Calculated	Not Calculated
Sieve-US Std. 0.75-inch (19 mm)	SIEVE0.75IN	%			20	20	100	100	100	0	0	Not Calculated	Not Calculated
Sieve-US Std. 1.5-inch (37.5 mm)	SIEVE1.5IN	%			20	20	100	100	100	0	0	Not Calculated	Not Calculated

Table 14
Sediment Analytical Results Statistics - Reference Areas
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above of Ecological PAL	Location of Max. Detection	Depth of Max. Detection
SIEVE-US std. 1-inch (25 mm)	SIEVE1INCH	%			20	20	100	100	100	0	0	Not Calculated	Not Calculated
SIEVE-US std. 2-inch (50 mm)	SIEVE2INCH	%			20	20	100	100	100	0	0	Not Calculated	Not Calculated
SILT	445	%			20	20	9.8	90.4	33.8	0	0	Not Calculated	Not Calculated

Notes:
(a) Totals for PCDD/DF and PCB homolog groups were calculated by summing the detected congeners in each group after data validation was completed; if no congeners in a homolog group were detected, the maximum reporting detection limit of any member congener in that group was used.
(b) Sum of detected congeners.
(c) The number of samples shown and the calculation of summary statistics treated the parent and field duplicate as individual samples.
Analytes:
AVS/SEM - acid-volatile sulfide/simulateously extracted metals
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxins/furans
TAL - target analyte list
TCL - target compound list
TOC - total organic carbon
SVOCs - semi-volatile organic compounds
VOCs - volatile organic compounds
Units:
% - percent
mg/kg - miligram per kilogram
ng/g - nanogram per gram
pg/g - picogram per gram
ug/kg - microgram per kilogram
umol/g - micromole per gram
Project Action Limits (PALs):
The human health PALs are the USEPA regional screening levels for residential soil based on a target hazard quotient of 0.1 and a target risk level of 1E-06 (USEPA, 2024a).
The ecological PALs are the USEPA Region 4 ecological screening values for freshwater sediment.
Comparison of the data to the PALs is for informational purposes only and is not an indication of risk.

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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				Location	23D-0001-PLS1	23D-0002-PLS1	23D-0003-PLS1	23D-0004-PLS1	23D-0005-PLS1	23D-0005-PLS1	23D-0006-PLS1	23D-0006-PLS1	23D-0007-PLS1	23D-0008-PLS1
				Sample Name	23D-0001-PLS1-AS	23D-0002-PLS1-AS	23D-0003-PLS1-AS	23D-0004-PLS1-AS	23D-0005-PLS1-AS	23D-0005-PLS1-BS	23D-0006-PLS1-AS	23D-0006-PLS1-BS	23D-0007-PLS1-AS	23D-0008-PLS1-AS
				Sample Date	7/18/2023	7/18/2023	7/18/2023	7/18/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 0.75 ft	0 - 1.1 ft	0 - 0.5 ft	0 - 1 ft	1 - 1.6 ft	0 - 1 ft	1 - 1.8 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	249	370	759	97.0	66.5	16.3	221	10.9	878	1010
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	11.9	15.2	29.8	3.65 J	2.1 JN	< 0.482 U	5.43	< 1.29 U	22.9	25.7
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	4.78	6.78	13.1	1.84 J	1.26 J	< 0.488 U	3.43 J	< 1.24 U	12.2	12.2
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	40.8 J	45.8 J	38.2 J	8.38 J	7.54 JN	1.53 J	14.9 J	1.22 J	73.0 J	69.6 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	11.5	17.8	29.9	5.36	3.18 J	0.98 JN	12	< 1.31 U	44.6	52.1
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	21.5 J	25.8 J	44.1 J	4.80 J	3.5 J	0.775 J	7.99	< 0.767 UJ	32.2 J	31.3 J
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	9.78	13.9	27.7	3.48 J	2.07 JN	0.772 JN	6.64	< 2.6 U	28.1	30.4
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 0.324 U	< 0.418 U	< 0.482 U	< 0.222 U	< 0.505 U	< 0.368 U	< 0.707 U	< 1.19 U	< 0.455 U	< 0.428 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	2.55 JN	2.97 JN	5.43 JN	1.03 JN	0.567 JN	< 0.547 UJ	1.47 JN	< 0.765 UJ	5.58 JN	5.81 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	6.08 J	4.76 J	4.74 J	5.40 J	1.22 JN	< 0.535 UJ	3.18 JN	< 0.397 UJ	9.36 J	9.25 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	332	459	785	67.9	57.6	13.4	157	7.56	717	757
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	14.8	20.0	44.3	4.45 J	3.17 J	0.953 J	6.47	< 1.39 U	25.5	24.6
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	16.2 J	23.6 J	25.0 J	7.00 J	4.27 J	< 0.536 U	10.5 J	0.747 JN	39.8 J	41.0 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	0.713 JN	0.46 JN	0.788 JN	< 0.395 U	< 0.547 U	< 0.48 U	< 0.459 U	< 0.726 UJ	1.48 JN	1.48
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	6.15	4.78	4.34	4.09	1.36 JN	< 0.458 U	9.57 JN	< 0.208 U	13.6	12.6
OCDD	3268-87-9	pg/g	16000	10500	1930 J	2700 J	5440 J	710 J	508	117	1620	72.5 JN	6640 J	7420 J
OCDF	39001-02-0	pg/g	16000	10500	366	462	973	79.4	65.1	15.8	169	9.50	723	767
Total HpCDD (a)	RA_Total_HpCDD	pg/g			249	370	759	97.0	66.5	16.3	221	10.9	878	1010
Total HpCDF (a)	RA_Total_HpCDF	pg/g			344	474	815	71.6	59.7	13.4	162	7.56	740	783
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		26.1	38.5	70.7	10.7	6.51	1.75	22.1	< 2.6 U	84.9	94.7
Total HxCDF (a)	RA_Total_HxCDF	pg/g			77.1	91.6	127	17.6	14.2	3.26	29.4	1.22	131	126
Total PeCDD (a)	RA_Total_PeCDD	pg/g			2.55	2.97	5.43	1.03	0.567	< 0.547 U	1.47	< 0.765 U	5.58	5.81
Total PeCDF (a)	RA_Total_PeCDF	pg/g			22.3	28.4	29.7	12.4	5.49	< 0.536 U	13.7	0.747	49.2	50.3
Total TCDD (a)	RA_Total_TCDD	pg/g			0.713	0.46	0.788	< 0.395 U	< 0.547 U	< 0.48 U	< 0.459 U	< 0.726 U	1.48	1.48
Total TCDF (a)	RA_Total_TCDF	pg/g			6.15	4.78	4.34	4.09	1.36	< 0.458 U	9.57	< 0.208 U	13.6	12.6
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	41	3.49 J	21.2	0.719 J	0.318 J	0.415 J	0.152 J	0.851 J	< 0.0369 U	2.16 J	15.4 J
PCB-002	2051-61-8	ng/g	230	41	< 0.0518 U	< 0.0536 U	< 0.0532 U	< 0.0536 U	< 0.0467 U	< 0.0472 U	< 0.0509 U	< 0.0531 U	< 0.0534 U	0.688 JEB
PCB-003	2051-62-9	ng/g	230	41	2.70 J	9.49 J	0.860 J	0.156 J	< 0.0455 U	< 0.0460 U	0.505 J	< 0.0518 U	1.75 J	19.4
PCB-004/010	PCB-4/10	ng/g	230	41	17.6 J	92.4 J	5.76 J	5.14 J	1.44 J	0.488 J	3.77 J	< 0.0925 U	17.6 J	105 J
PCB-005/008	PCB-5/8	ng/g	230	41	16.4 J	57.2 J	4.96 J	3.05 J	1.87 J	0.668 J	4.22 J	0.286 J	16.4 J	67.8 J
PCB-006	25569-80-6	ng/g	230	41	3.53 J	9.32 J	1.77 J	0.712 J	0.504 J	0.172 J	0.947 J	< 0.0516 U	5.44 J	15.6 J
PCB-007/009	PCB-7/9	ng/g	230	41	0.929 J	1.38 J	< 0.0895 U	< 0.0902 U	< 0.0785 U	< 0.0795 U	< 0.0856 U	< 0.0894 U	1.08 J	3.40 J
PCB-011	2050-67-1	ng/g	230	41	1.40 JEB	4.40 JEB	2.40 JEB	< 0.0497 U	< 0.0432 U	< 0.0437 U	0.444 JEB	< 0.0492 U	4.29 JEB	10.5 JEB
PCB-012/013	PCB-12/13	ng/g	230	41	3.31 J	9.02 J	7.57 J	0.626 J	0.464 J	< 0.0788 U	1.57 J	< 0.0886 U	15.1 J	18.4 J
PCB-014	34883-41-5	ng/g	230	41	< 0.0482 U	< 0.0498 U	< 0.0495 U	< 0.0499 U	< 0.0434 U	< 0.0439 U	< 0.0473 U	< 0.0494 U	< 0.0496 U	< 0.0470 U
PCB-015	2050-68-2	ng/g	230	41	54.7 JEB	160 JEB	23.5 EB	13.8 JEB	5.39 JEB	1.84 JEB	22.7 JEB	1.29 JEB	144 JEB	417 JEB
PCB-016/032	PCB-16/32	ng/g	230	41	31.3 JEB	121 JEB	27.5 JEB	23.1 JEB	8.62 JEB	2.40 JEB	12.7 JEB	0.893 JEB	172 JEB	231 JEB
PCB-017	37680-66-3	ng/g	230	41	20.0 EB	56.9 JEB	7.68 JEB	14.4 JEB	2.01 JEB	0.660 JEB	5.64 JEB	0.558 JEB	28.8 EB	129 JEB
PCB-018	37680-65-2	ng/g	230	41	12.6 JEB	24.4 JEB	10.6 JEB	25.8 JEB	2.12 JEB	0.814 JEB	7.20 JEB	0.678 JEB	42.3 JEB	20.2 JEB
PCB-019	38444-73-4	ng/g	230	41	8.67 JEB	59.4 JEB	5.54 JEB	3.05 JEB	2.81 JEB	0.785 JEB	2.12 JEB	< 0.0445 U	30.9 EB	87.6 JEB
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	8.20 JEB	12.1 JEB	7.74 JEB	9.00 JEB	1.32 JEB	0.520 JEB	3.90 JEB	< 0.137 U	33.0 EB	11.6 JEB
PCB-022	38444-85-8	ng/g	230	41	13.1 JEB	20.6 EB	12.2 JEB	11.9 JEB	1.96 JEB	0.735 JEB	9.81 JEB	0.597 JEB	74.0 JEB	17.8 JEB
PCB-023/034	PCB-23/34	ng/g	230	41	< 0.0870 U	1.57 J	< 0.0893 U	< 0.0900 U	< 0.0784 U	< 0.0793 U	< 0.0854 U	< 0.0892 U	3.19 J	4.01 J
PCB-024/027	PCB-24/27	ng/g	230	41	7.32 J	39.5	5.97 J	3.08 J	1.70 J	0.589 J	2.77 J	0.221 J	48.8 J	64.1 J
PCB-025	55712-37-3	ng/g	230	41	14.0 J	31.4	7.03 J	3.76 J	1.49 J	0.590 J	5.29 J	0.441 J	49.3 J	76.9 J
PCB-026	38444-81-4	ng/g	230	41	23.7	72.2 J	18.4 J	8.86 J	2.90 J	1.41 J	10.7 J	0.763 J	166 J	108 J
PCB-028	7012-37-5	ng/g	230	41	112 JEB	225 JEB	52.5 JEB	78.5 JEB	14.8 JEB	5.65 JEB	82.1 JEB	5.06 JEB	825 JEB	241 JEB
PCB-029	15862-07-4	ng/g	230	41	< 0.0503 U	< 0.0520 U	< 0.0516 U	< 0.0520 U	< 0.0453 U	< 0.0458 U	< 0.0494 U	< 0.0516 U	< 0.0518 U	< 0.0491 U
PCB-030	35693-92-6	ng/g	230	41	< 0.0461 U	< 0.0477 U	< 0.0473 U	< 0.0477 U	< 0.0415 U	< 0.0420 U	< 0.0452 U	< 0.0473 U	< 0.0475 U	< 0.0450 U
PCB-031	16606-02-3	ng/g	230	41	68.0 JEB	139 JEB	28.8 JEB	41.9 JEB	9.45 JEB	3.21 JEB	41.2 JEB	2.83 JEB	247 JEB	154 JEB
PCB-035	37680-69-6	ng/g	230	41	1.27 J+	10.6 J+	< 0.0561 U	0.680 J+	< 0.0493 U	< 0.0498 U	0.853 J+	< 0.0561 U	5.32 J+	2.45 J+
PCB-036	38444-87-0	ng/g	230	41	< 0.0466 U	0.876 J	< 0.0479 U	< 0.0483 U	< 0.0420 U	< 0.0425 U	< 0.0458 U	< 0.0478 U	3.78 J	2.08 J
PCB-037	38444-90-5	ng/g	230	41	31.1 J	45.5 J	26.7 J	26.9 J	6.65 J	2.38 J	35.2	1.84 J	178 J	52.2 J
PCB-038	53555-66-1	ng/g	230	41	3.28 J	6.98 J	< 0.0396 U	0.972 J	< 0.0348 U	< 0.0352 U	2.28 J	< 0.0396 U	17.2 J	20.0
PCB-039	38444-88-1	ng/g	230	41	< 0.0237 U	1.54 J	< 0.0243 U	< 0.0245 U	< 0.0214 U	< 0.0216 U	< 0.0233 U	< 0.0243 U	2.70 J	3.66 J
PCB-040	38444-93-8	ng/g	230	41	5.17 JEB	8.58 JEB	7.64 JEB	5.34 JEB	0.977 JEB	0.574 JEB	6.06 JEB	< 0.0406 U	34.4 EB	8.90 JEB

Table 15
Floodplain Soil Analytical Results
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Lower Neponset River
Boston, Massachusetts

					Location	23D-0001-PLS1	23D-0002-PLS1	23D-0003-PLS1	23D-0004-PLS1	23D-0005-PLS1	23D-0005-PLS1	23D-0006-PLS1	23D-0006-PLS1	23D-0007-PLS1	23D-0008-PLS1
					Sample Name	23D-0001-PLS1-AS	23D-0002-PLS1-AS	23D-0003-PLS1-AS	23D-0004-PLS1-AS	23D-0005-PLS1-AS	23D-0005-PLS1-BS	23D-0006-PLS1-AS	23D-0006-PLS1-BS	23D-0007-PLS1-AS	23D-0008-PLS1-AS
					Sample Date	7/18/2023	7/18/2023	7/18/2023	7/18/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 0.75 ft	0 - 1.1 ft	0 - 0.5 ft	0 - 1 ft	1 - 1.6 ft	0 - 1 ft	1 - 1.8 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-041/064	PCB-41/64	ng/g	230	41		40.8 J	53.7 J	27.9 J	27.2 J	4.85 J	2.44 J	44.8 J	2.43 J	273 J	125 J
PCB-042	36559-22-5	ng/g	230	41		24.3	40.8 J	21.8	12.4 J	3.61 J	1.97 J	25.5	1.44 J	172 J	62.9 J
PCB-043/049	PCB-43/49	ng/g	230	41		121 JEB	237 JEB	78.6 JEB	59.0 JEB	17.3 EB	7.42 JEB	96.8 JEB	5.54 JEB	955 JEB	420 JEB
PCB-044	41464-39-5	ng/g	230	41		52.8 JEB	80.7 JEB	51.2 JEB	53.9 JEB	7.51 JEB	4.31 JEB	48.8 JEB	2.86 JEB	424 JEB	83.4 JEB
PCB-045	70362-45-7	ng/g	230	41		7.16 J	13.8 J	7.84 J	4.32 J	0.786 J	0.531 J	4.98 J	< 0.0441 U	68.3 J	36.8
PCB-046	41464-47-5	ng/g	230	41		1.99 J	3.83 J	2.77 J	1.50 J	0.265 J	< 0.0458 U	1.33 J	< 0.0516 U	9.63 J	3.98 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	41		97.9 JEB	240 JEB	47.3 JEB	33.3 JEB	11.4 JEB	4.58 JEB	70.2 JEB	4.19 JEB	599 JEB	715 JEB
PCB-050	62796-65-0	ng/g	230	41		< 0.0614 U	2.48 J	< 0.0630 U	< 0.0635 U	< 0.0553 U	< 0.0559 U	0.205 J	< 0.0629 U	4.09 J	7.74 J
PCB-051	68194-04-7	ng/g	230	41		5.86 J	21.5	5.35 J	1.60 J	1.07 J	0.329 J	2.50 J	< 0.0535 U	32.7	87.0 J
PCB-052/073	PCB-52/73	ng/g	230	41		119 JEB	198 JEB	71.8 JEB	110 JEB	15.2 JEB	6.93 JEB	92.1 JEB	5.39 JEB	940 JEB	257 JEB
PCB-053	41464-41-9	ng/g	230	41		13.2 JEB	39.8 JEB	13.0 JEB	5.27 JEB	2.00 JEB	0.852 JEB	8.42 JEB	0.439 JEB	138 JEB	63.6 JEB
PCB-054	15968-05-5	ng/g	230	41		0.577 J	3.15 J	< 0.0418 U	< 0.0421 U	< 0.0367 U	< 0.0371 U	0.176 J	< 0.0418 U	3.53 J	10.1 J
PCB-055	74338-24-2	ng/g	230	41		1.08 J	1.55 J	1.15 J	0.885 J	< 0.0477 U	< 0.0483 U	1.37 J	< 0.0543 U	6.82 J	1.20 J
PCB-056/060	PCB-56/60	ng/g	230	41		64.0 JEB	59.9 JEB	42.9 JEB	67.5 JEB	13.6 JEB	5.14 JEB	76.9 JEB	4.28 JEB	314 JEB	52.8 JEB
PCB-057	70424-67-8	ng/g	230	41		1.11 J	3.38 J	1.62 J	0.403 J	< 0.0369 U	< 0.0373 U	0.824 J	< 0.0420 U	10.4 J	6.24 J
PCB-058	41464-49-7	ng/g	230	41		< 0.0371 U	0.844 J	< 0.0381 U	< 0.0384 U	< 0.0334 U	< 0.0338 U	0.500 J	< 0.0380 U	2.91 J	1.29 J
PCB-059	74472-33-6	ng/g	230	41		3.96 J	7.33 J	4.71 J	2.21 J	0.652 J	0.433 J	4.50 J	0.290 J	45.5 J	19.3
PCB-061/074	PCB-61/74	ng/g	230	41		60.3 JEB	74.0 JEB	33.4 EB	65.7 JEB	9.97 JEB	3.99 JEB	66.1 JEB	4.04 JEB	366 JEB	95.1 JEB
PCB-062	54230-22-7	ng/g	230	41		< 0.0506 U	< 0.0524 U	< 0.0520 U	< 0.0524 U	< 0.0456 U	< 0.0462 U	< 0.0497 U	< 0.0520 U	< 0.0522 U	< 0.0494 U
PCB-063	74472-34-7	ng/g	230	41		7.98 J	17.2 J	6.10 J	5.79 J	1.24 J	0.452 J	7.90 J	0.507 J	48.6 J	28.0
PCB-065	33284-54-7	ng/g	230	41		< 0.0730 U	< 0.0755 U	< 0.0750 U	< 0.0756 U	< 0.0658 U	< 0.0666 U	< 0.0717 U	< 0.0749 U	< 0.0753 U	< 0.0713 U
PCB-066/080	PCB-66/80	ng/g	230	41		126 JEB	132 JEB	72.0 JEB	143 JEB	25.6 EB	8.96 JEB	158 JEB	8.92 JEB	748 JEB	149 JEB
PCB-067	73575-53-8	ng/g	230	41		3.86 J	4.94 J	2.85 J	2.25 J	0.496 J	0.333 J	3.99 J	< 0.0459 U	26.5	7.17 J
PCB-068	73575-52-7	ng/g	230	41		< 0.0529 U	4.24 J	< 0.0544 U	< 0.0548 U	< 0.0477 U	< 0.0483 U	1.08 J	< 0.0543 U	5.83 J	16.6 J
PCB-069	60233-24-1	ng/g	230	41		< 0.0550 U	1.60 J	< 0.0565 U	< 0.0570 U	< 0.0496 U	< 0.0502 U	0.238 J	< 0.0565 U	2.63 J	5.33 J
PCB-070	32598-11-1	ng/g	230	41		119 JEB	118 JEB	72.8 JEB	144 JEB	24.4 EB	8.79 JEB	134 JEB	7.94 JEB	608 JEB	127 JEB
PCB-071	41464-46-4	ng/g	230	41		19.4 EB	39.3 EB	23.1 EB	9.30 JEB	2.70 JEB	1.47 JEB	16.6 JEB	0.912 JEB	135 JEB	65.9 JEB
PCB-072	41464-42-0	ng/g	230	41		2.43 J	6.36 J	1.66 J	0.803 J	0.342 J	0.112 J	1.69 J	< 0.0612 U	14.4 J	20.2
PCB-076	70362-48-0	ng/g	230	41		< 0.0732 U	< 0.0757 U	< 0.0752 U	< 0.0758 U	< 0.0660 U	< 0.0668 U	< 0.0719 U	< 0.0751 U	< 0.0755 U	< 0.0715 U
PCB-077	32598-13-3	ng/g	38.0	41		17.2 J+	19.9 J+	13.4 J+	15.8 J+	4.16 J	1.31 J	20.8 J	1.26 J+	86.4 J	29.9 J+
PCB-078	70362-49-1	ng/g	230	41		< 0.0375 U	0.435 J	< 0.0385 U	0.404 J	< 0.0338 U	< 0.0342 U	0.271 J	< 0.0384 U	1.43 J	1.01 J
PCB-079	41464-48-6	ng/g	230	41		0.895 J	1.08 J	< 0.0483 U	1.49 J	< 0.0424 U	< 0.0429 U	0.811 J	< 0.0482 U	4.04 J	2.33 J
PCB-081	70362-50-4	ng/g	12.0	41		2.18 J+	1.91 J+	1.50 J+	3.43 J+	0.604 J	< 0.0669 R	1.89 J	< 0.0753 U	7.97 J+	2.61 J+
PCB-082	52663-62-4	ng/g	230	41		9.86 J	10.1 J	9.39 J	13.5 J	2.03 J	0.551 J	8.31 J	< 0.0276 U	42.7 J	16.3 J
PCB-083/109	PCB-83/109	ng/g	230	41		5.09 J	6.42 J	4.38 J	6.11 J	0.964 J	0.229 J	4.00 J	< 0.119 U	22.3	14.0 J
PCB-084	52663-60-2	ng/g	230	41		19.3 J	18.0 J	14.6 J	28.6 J	2.42 J	0.844 J	11.7 J	0.612 J	68.0 J	40.1 J
PCB-085/120	PCB-85/120	ng/g	230	41		25.8	27.4	19.4 J	36.1	5.77 J	1.44 J	22.7	1.48 J	112 J	46.7 J
PCB-086/097	PCB-86/97	ng/g	230	41		27.4	25.3	17.4 J	44.5 J	5.44 J	1.30 J	21.7	1.22 J	102 J	36.6
PCB-087/115/116	PCB-87/115/116	ng/g	230	41		< 0.0294 U	< 0.0304 U	< 0.0302 U	< 0.0305 U	< 0.0265 U	< 0.0268 U	< 0.0289 U	< 0.0302 U	< 0.0303 U	< 0.0287 U
PCB-088/121	PCB-88/121	ng/g	230	41		< 0.106 U	< 0.110 U	< 0.109 U	< 0.110 U	< 0.0959 U	< 0.0971 U	< 0.105 U	< 0.109 U	1.49 J	1.01 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	41		86.4 J	78.7 J	46.9 J	162 J	16.8 J	3.65 J	58.1 J	3.47 J	310 J	144 J
PCB-091	68194-05-8	ng/g	230	41		17.9 J	26.0	13.9 J	17.4 J	2.48 J	0.756 J	13.1 J	0.775 J	79.7 J	96.2 J
PCB-092	52663-61-3	ng/g	230	41		16.4 J	21.9	11.2 J	23.9	2.83 J	0.677 J	10.6 J	0.632 J	67.1 J	58.6 J
PCB-093/095	PCB-93/95	ng/g	230	41		65.6 J	62.0 J	42.4 J	102 J	7.92 J	2.42 J	37.6 J	1.96 J	260 J	153 J
PCB-094	73575-55-0	ng/g	230	41		1.24 J	2.22 J	1.04 J	0.427 J	< 0.0792 U	< 0.0802 U	0.680 J	< 0.0902 U	5.17 J	7.32 J
PCB-096	73575-54-9	ng/g	230	41		1.00 J	1.48 J	0.880 J	0.630 J	< 0.0374 U	< 0.0378 U	0.617 J	< 0.0425 U	4.48 J	5.37 J
PCB-098/102	PCB-98/102	ng/g	230	41		4.36 J	7.42 J	4.64 J	2.99 J	0.557 J	< 0.0701 U	3.11 J	< 0.0788 U	23.8	28.5
PCB-099	38380-01-7	ng/g	230	41		50.6 J	55.6 J	30.4	78.1 J	10.6 J	2.47 J	40.8 J	2.50 J	222 J	120 J
PCB-100	39485-83-1	ng/g	230	41		< 0.0468 U	2.21 J	0.513 J	< 0.0485 U	< 0.0422 U	< 0.0427 U	0.571 J	< 0.0480 U	3.31 J	8.29 J
PCB-103	60145-21-3	ng/g	230	41		1.31 J	2.21 J	0.769 J	0.617 J	< 0.0436 U	< 0.0441 U	0.693 J	< 0.0496 U	5.22 J	7.53 J
PCB-104	56558-16-8	ng/g	230	41		< 0.0447 U	< 0.0463 U	< 0.0459 U	< 0.0463 U	< 0.0403 U	< 0.0408 U	< 0.0439 U	< 0.0459 U	< 0.0461 U	0.501 J
PCB-105/127	PCB-105/127	ng/g	120	41		46.1 J	42.8 J	30.2	84.1 J	19.7 J-	2.41 J-	40.8 J	2.47 J	184 J	56.3 J
PCB-106/118	PCB-106/118	ng/g	120	41		93.0 J	86.1 J	53.3 J	186 J	40.9 J	4.57 J-	75.4 J	4.67 J	352 J	146 J
PCB-107/108	PCB-107/108	ng/g	230	41		8.33 J	8.79 J	5.42 J	12.4 J	2.83 J	0.372 J	6.90 J	< 0.0955 U	31.5	15.0 J
PCB-110	38380-03-9	ng/g	230	41		106 JEB	105 JEB	76.1 JEB	170 JEB	23.6 EB	4.72 JEB	75.1 JEB	4.19 JEB	388 JEB	285 JEB
PCB-111/117	PCB-111/117	ng/g	230	41		36.3	34.1	22.2	62.0 J	7.53 J	1.68 J	25.4	1.40 J	129 J	64.9 J
PCB-112	74472-36-9	ng/g	230	41		< 0.0461 U	0.908 J	< 0.0473 U	< 0.0477 U	< 0.0415 U	< 0.0420 U	0.366 J	< 0.0473 U	2.15 J	2.18 J
PCB-113	68194-10-5	ng/g	230	41		< 0.0484 U	0.752 J	< 0.0497 U	< 0.0501 U	< 0.0436 U	< 0.0441 U	0.335 J	< 0.0496 U	2.23 J	4.63 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0001-PLS1	23D-0002-PLS1	23D-0003-PLS1	23D-0004-PLS1	23D-0005-PLS1	23D-0005-PLS1	23D-0006-PLS1	23D-0006-PLS1	23D-0007-PLS1	23D-0008-PLS1
				Sample Name	23D-0001-PLS1-AS	23D-0002-PLS1-AS	23D-0003-PLS1-AS	23D-0004-PLS1-AS	23D-0005-PLS1-AS	23D-0005-PLS1-BS	23D-0006-PLS1-AS	23D-0006-PLS1-BS	23D-0007-PLS1-AS	23D-0008-PLS1-AS
				Sample Date	7/18/2023	7/18/2023	7/18/2023	7/18/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 0.75 ft	0 - 1.1 ft	0 - 0.5 ft	0 - 1 ft	1 - 1.6 ft	0 - 1 ft	1 - 1.8 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-114	74472-37-0	ng/g	120	41	3.20 J	3.37 J	2.26 J	5.05 J	1.30 J-	< 0.0366 R	3.00 J-	< 0.0412 U	11.7 J	4.83 J
PCB-119	56558-17-9	ng/g	230	41	3.21 J	5.28 J	2.26 J	3.10 J	0.653 J	0.170 J	2.74 J	< 0.0545 U	15.1 J	14.1 J
PCB-122	76842-07-4	ng/g	230	41	1.15 J	1.61 J	1.16 J	2.12 J	0.552 J	< 0.0309 U	1.43 J	< 0.0347 U	6.12 J	2.01 J
PCB-123	65510-44-3	ng/g	120	41	3.34 J+	3.06 J+	2.91 J+	5.24 J+	1.08 J	< 0.0286 R	2.56 J	< 0.0322 U	11.8 J+	6.58 J+
PCB-124	70424-70-3	ng/g	230	41	3.81 J	3.07 J	2.52 J	7.21 J	1.60 J	< 0.0385 U	3.15 J	< 0.0433 U	13.3 J	5.06 J
PCB-125	74472-39-2	ng/g	230	41	< 0.0463 U	0.789 J	< 0.0475 U	0.557 J	< 0.0417 U	< 0.0422 U	0.552 J	< 0.0474 U	2.85 J	1.66 J
PCB-126	57465-28-8	ng/g	0.0360	41	< 0.0657 U	0.771 J+	< 0.0675 U	0.764 J+	< 0.0592 UJ	< 0.0600 UJ	0.666 J	< 0.0674 U	2.92 J+	2.74 J+
PCB-128	38380-07-3	ng/g	230	41	13.8 J	9.71 J	7.52 J	29.2	15.7 J	0.440 J	6.43 J	0.334 J	27.6	26.7
PCB-129	55215-18-4	ng/g	230	41	3.36 J	2.38 J	1.75 J	7.59 J	3.23 J	< 0.0465 U	1.43 J	< 0.0523 U	6.99 J	5.26 J
PCB-130	52663-66-8	ng/g	230	41	4.45 J	3.51 J	2.69 J	8.96 J	3.54 J	0.133 J	2.24 J	< 0.0412 U	9.99 J	11.2 J
PCB-131/142	PCB-131/142	ng/g	230	41	0.773 J	0.595 J	0.495 J	2.16 J	0.370 J	< 0.0901 U	0.362 J	< 0.101 U	1.71 J	1.75 J
PCB-132/168	PCB-132/168	ng/g	230	41	20.8	14.2 J	12.9 J	41.8 J	9.99 J	0.575 J	9.19 J	0.473 J	41.2 J	45.1 J
PCB-133	35694-04-3	ng/g	230	41	0.820 J	0.925 J	0.771 J	1.48 J	0.458 J	< 0.0328 U	0.469 J	< 0.0369 U	2.21 J	3.94 J
PCB-134	52704-70-8	ng/g	230	41	3.04 J	2.47 J	1.94 J	6.32 J	1.04 J	< 0.0868 U	1.42 J	< 0.0976 U	6.60 J	8.68 J
PCB-135/144	PCB-135/144	ng/g	230	41	8.27 J	7.15 J	6.59 J	15.9 J	2.81 J	0.191 J	3.91 J	0.203 J	18.8 J	25.5
PCB-136	38411-22-2	ng/g	230	41	6.99 J	4.98 J	4.92 J	13.0 J	1.45 J	0.161 J	2.76 J	0.127 J	13.6 J	17.5 J
PCB-137	35694-06-5	ng/g	230	41	4.53 J	3.56 J	2.34 J	9.99 J	4.46 J	0.148 J	2.06 J	< 0.0478 U	9.81 J	9.14 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	75.0 J	54.9 J	48.4 J	153 J	68.8 J	2.36 J	35.6	2.18 J	161 J	154 J
PCB-139/149	PCB-139/149	ng/g	230	41	38.0	30.2	32.0	74.7 J	15.2 J	1.20 J	18.6 J	1.01 J	86.2 J	106 J
PCB-140	59291-64-4	ng/g	230	41	< 0.0680 U	< 0.0704 U	< 0.0699 U	0.575 J	< 0.0613 U	< 0.0620 U	< 0.0668 U	< 0.0698 U	0.913 J	1.31 J
PCB-141	52712-04-6	ng/g	230	41	10.2 J	7.74 J	9.58 J	21.2	8.28 J	0.321 J	4.99 J	0.277 J	22.1	16.9 J
PCB-143	68194-15-0	ng/g	230	41	< 0.0614 U	< 0.0635 U	< 0.0630 U	0.391 J	< 0.0553 U	< 0.0559 U	< 0.0602 U	< 0.0629 U	0.868 J	0.664 J
PCB-145	74472-40-5	ng/g	230	41	< 0.0810 U	< 0.0838 U	< 0.0832 U	< 0.0839 U	< 0.0730 U	< 0.0739 U	< 0.0796 U	< 0.0831 U	< 0.0835 U	0.205 J
PCB-146	51908-16-8	ng/g	230	41	6.76 J	5.58 J	4.83 J	12.7 J	4.42 J	0.209 J	3.37 J	0.196 J	15.4 J	19.8
PCB-147	68194-13-8	ng/g	230	41	1.91 J	2.39 J	0.944 J	3.02 J	0.616 J	< 0.0652 U	0.892 J	< 0.0733 U	3.94 J	9.24 J
PCB-148	74472-41-6	ng/g	230	41	< 0.0749 U	< 0.0775 U	< 0.0769 U	< 0.0775 U	< 0.0675 U	< 0.0683 U	< 0.0736 U	< 0.0769 U	< 0.0772 U	0.585 J
PCB-150	68194-08-1	ng/g	230	41	< 0.0757 U	0.152 J	< 0.0777 U	0.112 J	< 0.0682 U	< 0.0690 U	< 0.0743 U	< 0.0776 U	0.179 J	0.796 J
PCB-151	52663-63-5	ng/g	230	41	7.99 J	7.92 J	9.02 J	14.0 J	2.42 J	0.250 J	4.22 J	0.238 J	20.9	29.9
PCB-152	68194-09-2	ng/g	230	41	< 0.0885 U	0.219 J	< 0.0909 U	< 0.0916 U	< 0.0797 U	< 0.0807 U	< 0.0869 U	< 0.0908 U	0.342 J	0.991 J
PCB-153	35065-27-1	ng/g	230	41	43.5 J	32.4	33.9	90.7 J	35.4 J	1.46 J	21.8	1.35 J	94.7 J	92.1 J
PCB-154	60145-22-4	ng/g	230	41	0.678 J	0.960 J	< 0.0542 U	1.11 J	0.206 J	< 0.0481 U	0.399 J	< 0.0541 U	1.93 J	4.55 J
PCB-155	33979-03-2	ng/g	230	41	< 0.0455 U	< 0.0471 U	< 0.0467 U	< 0.0471 U	< 0.0410 U	< 0.0415 U	< 0.0447 U	< 0.0467 U	< 0.0469 U	< 0.0444 U
PCB-156	38380-08-4	ng/g	120	41	7.98 J-	6.12 J-	4.75 J-	18.5 J-	18.7 J-	0.238 J-	3.57 J-	0.223 J-	17.6 J-	14.9 J-
PCB-157	69782-90-7	ng/g	120	41	2.08 J	1.72 J	1.95 J	4.35 J	4.18 J	< 0.0485 R	1.07 J	< R	4.93 J	4.47 J
PCB-158/160	PCB-158/160	ng/g	230	41	7.16 J	5.21 J	4.47 J	16.2 J	7.85 J	0.229 J	2.98 J	0.192 J	14.4 J	13.9 J
PCB-159	39635-35-3	ng/g	230	41	< 0.0734 U	< 0.0759 U	0.501 J	< 0.0760 U	0.229 J	< 0.0669 U	0.181 J	< 0.0753 U	0.794 J	1.22 J
PCB-161	74472-43-8	ng/g	230	41	< 0.0686 U	< 0.0710 U	< 0.0705 U	< 0.0710 U	< 0.0618 U	< 0.0626 U	< 0.0674 U	< 0.0704 U	< 0.0707 U	< 0.0670 U
PCB-162	39635-34-2	ng/g	230	41	< 0.0541 U	< 0.0560 U	< 0.0555 U	0.651 J	0.558 J	< 0.0493 U	0.236 J	< 0.0555 U	0.779 J	1.04 J
PCB-165	74472-46-1	ng/g	230	41	< 0.0742 U	< 0.0767 U	< 0.0762 U	< 0.0768 U	< 0.0668 U	< 0.0676 U	< 0.0728 U	< 0.0761 U	< 0.0764 U	0.580 J
PCB-166	41411-63-6	ng/g	230	41	< 0.0638 U	< 0.0660 U	< 0.0656 U	0.868 J	0.406 J	< 0.0582 U	0.192 J	< 0.0655 U	0.942 J	0.938 J
PCB-167	52663-72-6	ng/g	120	41	2.65 J	2.03 J	1.93 J	6.51 J	6.04 J-	< 0.0448 R	1.36 J-	< 0.0504 U	6.47 J	6.42 J
PCB-169	32774-16-6	ng/g	0.120	41	< 0.0541 U	< 0.0560 U	< 0.0555 U	< 0.0560 U	< 0.0487 R	< 0.0493 R	< 0.0531 R	< 0.0555 U	< 0.0558 U	< 0.0528 U
PCB-170/190	PCB-170/190	ng/g	230	41	9.39 J	11.2 J	19.6	14.4 J	18.0	0.317 J	6.97 J	0.434 J	27.8	36.9
PCB-171	52663-71-5	ng/g	230	41	2.55 J	2.64 J	4.20 J	3.82 J	3.32 J	< 0.0645 U	1.48 J	< 0.0725 U	6.31 J	9.18 J
PCB-172/192	PCB-172/192	ng/g	230	41	1.16 J	1.46 J	2.50 J	1.66 J	1.72 J	< 0.107 U	0.886 J	< 0.120 U	3.45 J	4.73 J
PCB-173	68194-16-1	ng/g	230	41	< 0.0791 U	< 0.0819 U	< 0.0813 U	< 0.0819 U	< 0.0713 U	< 0.0722 U	< 0.0777 U	< 0.0812 U	< 0.0816 U	< 0.0772 U
PCB-174	38411-25-5	ng/g	230	41	7.10 J	8.33 J	19.2 J	10.2 J	7.08 J	0.320 J	5.56 J	0.317 J	22.6	27.2
PCB-175	40186-70-7	ng/g	230	41	< 0.0610 U	0.270 J	0.611 J	0.371 J	0.223 J	< 0.0556 U	0.173 J	< 0.0625 U	0.749 J	1.29 J
PCB-176	52663-65-7	ng/g	230	41	0.875 J	0.850 J	1.80 J	1.07 J	0.483 J	< 0.0519 U	0.481 J	< 0.0584 U	2.01 J	3.25 J
PCB-177	52663-70-4	ng/g	230	41	4.56 J	5.22 J	9.75 J	6.16 J	4.19 J	0.188 J	3.24 J	0.183 J	12.9 J	18.9
PCB-178	52663-67-9	ng/g	230	41	1.53 J	2.03 J	3.61 J	1.97 J	0.925 J	< 0.0814 U	1.09 J	< 0.0916 U	4.77 J	7.47 J
PCB-179	52663-64-6	ng/g	230	41	2.60 J	2.96 J	6.48 J	2.99 J	1.09 J	0.123 J	1.82 J	< 0.0484 U	7.45 J	11.2 J
PCB-180	35065-29-3	ng/g	230	41	14.8 J	18.5 J	40.8 J	19.8	23.3	0.684 J	11.5 J	0.736 J	45.8 J	62.6 J
PCB-181	74472-47-2	ng/g	230	41	< 0.0541 U	< 0.0560 U	< 0.0555 U	< 0.0560 U	< 0.0487 U	< 0.0493 U	< 0.0531 U	< 0.0555 U	< 0.0558 U	< 0.0528 U
PCB-182/187	PCB-182/187	ng/g	230	41	8.00 J	10.0 J	20.8	9.94 J	5.92 J	0.338 J	6.22 J	0.368 J	25.5	36.9
PCB-183	52663-69-1	ng/g	230	41	3.61 J	4.13 J	8.56 J	5.27 J	3.69 J	0.152 J	2.30 J	< 0.0725 U	10.0 J	15.4 J
PCB-184	74472-48-3	ng/g	230	41	< 0.0512 U	< 0.0530 U	< 0.0526 U	< 0.0530 U	< 0.0462 U	< 0.0467 U	< 0.0503 U	< 0.0525 U	< 0.0528 U	< 0.0500 U
PCB-185	52712-05-7	ng/g	230	41	0.729 J	1.11 J	2.66 J	1.10 J	0.708 J	< 0.0647 U	0.703 J	< 0.0727 U	2.80 J	3.13 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0001-PLS1	23D-0002-PLS1	23D-0003-PLS1	23D-0004-PLS1	23D-0005-PLS1	23D-0005-PLS1	23D-0006-PLS1	23D-0006-PLS1	23D-0007-PLS1	23D-0008-PLS1
					Sample Name	23D-0001-PLS1-AS	23D-0002-PLS1-AS	23D-0003-PLS1-AS	23D-0004-PLS1-AS	23D-0005-PLS1-AS	23D-0005-PLS1-BS	23D-0006-PLS1-AS	23D-0006-PLS1-BS	23D-0007-PLS1-AS	23D-0008-PLS1-AS
					Sample Date	7/18/2023	7/18/2023	7/18/2023	7/18/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 0.75 ft	0 - 1.1 ft	0 - 0.5 ft	0 - 1 ft	1 - 1.6 ft	0 - 1 ft	1 - 1.8 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-186	74472-49-4	ng/g	230	41		< 0.0640 U	< 0.0662 U	< 0.0658 U	< 0.0663 U	< 0.0577 U	< 0.0584 U	< 0.0629 U	< 0.0657 U	< 0.0660 U	< 0.0625 U
PCB-188	74487-85-7	ng/g	230	41		< 0.0587 U	< 0.0607 U	< 0.0603 U	< 0.0607 U	< 0.0529 U	< 0.0535 U	< 0.0576 U	< 0.0602 U	< 0.0605 U	0.104 J
PCB-189	39635-31-9	ng/g	130	41		< 0.0596 U	0.592 J	0.671 J	0.671 J	1.21 J-	< 0.0544 R	0.266 J-	< 0.0612 U	1.24 J	1.70 J
PCB-191	74472-50-7	ng/g	230	41		0.277 J	0.321 J	0.673 J	0.456 J	0.601 J	< 0.0492 U	0.191 J	< 0.0553 U	0.798 J	1.27 J
PCB-193	69782-91-8	ng/g	230	41		0.688 J	1.04 J	2.03 J	1.02 J	1.03 J	< 0.0620 U	0.683 J	< 0.0698 U	2.56 J	3.25 J
PCB-194	35694-08-7	ng/g	230	41		4.16 J	6.24 J	14.8 J	3.40 J	4.46 J	< 0.0784 UJ	4.00 J	< 0.0882 U	14.3 J	22.4
PCB-195	52663-78-2	ng/g	230	41		1.83 J	2.29 J	5.38 J	1.87 J	1.43 J	< 0.139 UJ	1.35 J	< 0.156 U	5.10 J	7.84 J
PCB-196/203	PCB-196/203	ng/g	230	41		4.11 J	6.37 J	15.8 J	4.01 J	5.36 J	< 0.132 UJ	3.93 J	< 0.148 U	14.7 J	22.0
PCB-197	33091-17-7	ng/g	230	41		< 0.0644 U	< 0.0666 U	0.390 J	< 0.0667 U	< 0.0580 U	< 0.0587 U	< 0.0632 U	< 0.0661 U	0.406 J	0.621 J
PCB-198	68194-17-2	ng/g	230	41		< 0.105 U	< 0.108 U	< 0.107 U	< 0.108 U	< 0.0942 UJ	< 0.0953 UJ	< 0.103 UJ	< 0.107 U	0.687 J	1.01 J
PCB-199	52663-75-9	ng/g	230	41		3.78 J	5.43 J	13.3 J	3.32 J	4.30 J	< 0.0917 UJ	3.66 J	< 0.103 U	13.5 J	18.0 J
PCB-200	52663-73-7	ng/g	230	41		< 0.0512 U	0.716 J	1.54 J	0.426 J	0.523 J	< 0.0467 U	0.441 J	< 0.0525 U	1.55 J	2.03 J
PCB-201	40186-71-8	ng/g	230	41		< 0.0405 U	0.611 J	1.41 J	0.304 J	0.305 J	< 0.0370 U	0.324 J	< 0.0416 U	1.22 J	1.88 J
PCB-202	2136-99-4	ng/g	230	41		0.531 J	0.846 J	1.91 J	0.623 J	0.595 J	< 0.0631 U	0.575 J	< 0.0710 U	2.22 J	2.95 J
PCB-204	74472-52-9	ng/g	230	41		< 0.0847 U	< 0.0876 U	< 0.0869 U	< 0.0876 U	< 0.0763 U	< 0.0772 U	< 0.0831 U	< 0.0869 U	< 0.0873 U	< 0.0826 U
PCB-205	74472-53-0	ng/g	230	41		< 0.0600 U	0.561 J	0.959 J	0.478 J	< 0.0541 U	< 0.0547 U	< 0.0589 U	< 0.0616 U	0.879 J	1.24 J
PCB-206	40186-72-9	ng/g	230	41		3.44 J	2.97 J	5.37 J	1.73 J	3.73 J	< 0.0525 U	2.05 J	< 0.0590 U	7.15 J	8.00 J
PCB-207	52663-79-3	ng/g	230	41		< 0.0761 U	0.253 J	0.603 J	< 0.0787 U	0.400 J	< 0.0694 U	0.166 J	< 0.0780 U	0.713 J	0.828 J
PCB-208	52663-77-1	ng/g	230	41		1.20 J	0.901 J	1.33 J	0.484 J	0.893 J	< 0.0694 U	0.651 J	< 0.0780 U	2.21 J	1.95 J
PCB-209	2051-24-3	ng/g	230	41		3.51 J	1.79 J	2.40 J	0.731 J	1.04 J	< 0.0399 U	1.48 J	< 0.0449 U	4.34 J	2.98 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0		3.51	1.79	2.40	0.731	1.04	< 0.0399 U	1.48	< 0.0449 U	4.34	2.98
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0		57.9	70.7	144	80.9	73.5	2.12	43.6	2.04	177	244
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0		271	207	194	555	216	7.92	130	6.80	593	635
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0		14.4	23.1	55.5	14.4	17.0	< 0.139 U	14.3	< 0.156 U	54.6	80.0
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14		2370	3620	1690	2760	685	122	1820	100	11500	6780
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0		637	643	416	1060	158	28.3	473	25.4	2480	1400
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0		97.9	334	46.0	23.3	9.67	3.17	33.7	1.58	204	638
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0		6.19	30.7	1.58	0.474	0.415	0.152	1.36	< 0.0531 U	3.91	35.5
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0		4.64	4.12	7.30	2.21	5.02	< 0.0694 U	2.87	< 0.078 U	10.1	10.8
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0		919	1440	612	777	149	60.9	899	50.4	6090	2510
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0		355	869	211	252	55.8	19.7	222	13.9	1930	1230
TAL Metals and Mercury															
Aluminum	7429-90-5	mg/kg	7700			4100 J	3100 J	5300 J	2800 J	4400 J	4500 J	3800 J	4900 J	4400 J	3800 J
Calcium	7440-70-2	mg/kg				4300 J	2600 J	2300 J	2800 J	1400 J	1200 J	1300 J	910 J	4000 J	2100 J
Iron	7439-89-6	mg/kg	5500			13000 J	14000 J	9100 J	5000 J	8000 J	7500 J	9400 J	7200 J	8200 J	7400 J
Magnesium	7439-95-4	mg/kg				1400 J	1500 J	2100 J	1600 J	1700 J	1800 J	1400 J	1800 J	1400 J	1500 J
Potassium	7440-09-7	mg/kg				410 J	290 J	490 J	270 J	290 J	270 J	240 J	260 J	400 J	250 J
Sodium	7440-23-5	mg/kg				210 J	110 J	120 J	65 J	81 J	72 J	41 J	54 J	75 J	71 J
Antimony	7440-36-0	mg/kg	3.1	0.27		< 1.7 U	< 1.5 U	2.6	< 1.0 U	< 0.82 U	< 0.80 U	< 0.99 U	< 0.85 U	< 1.2 U	1.3
Arsenic	7440-38-2	mg/kg	0.68	18		4.5	2.4	13	1.4	1.1	0.88	1.7	0.92	3.2	3.8
Barium	7440-39-3	mg/kg	1500	110		130	60	57	40	20	17	34	16	89	34
Beryllium	7440-41-7	mg/kg	16	2.5		< 0.83 U	< 0.74 U	< 0.61 U	< 0.50 U	< 0.41 U	< 0.40 U	< 0.49 U	< 0.42 U	< 0.62 U	< 0.56 U
Cadmium	7440-43-9	mg/kg	0.71	0.36		0.81 J	0.40 J	0.53 J	0.26 J	0.058 J	< 0.40 U	0.19 J	< 0.42 U	0.93	0.67
Chromium, Total	7440-47-3	mg/kg	0.3	23		29	18	270	7.0	7.9	6.1	17	4.3	37	31
Cobalt	7440-48-4	mg/kg	2.3	13		6.3	3.8	6.0	3.2	2.6	2.6	3.4	3.4	4.8	5.1
Copper	7440-50-8	mg/kg	310	28		74	40	81	18	14	9.0	42	15	62	51
Lead	7439-92-1	mg/kg	200	11		190	79	320	43	23	6.4	59	4.9	160	89
Manganese	7439-96-5	mg/kg	180	220		1100 EB	470 EB	350 EB	250 EB	74 EB	64 EB	99 EB	56 EB	610 EB	190 EB
Nickel	7440-02-0	mg/kg	140	38		16	7.9	25	6.6	4.9	5.5	35	5.3	10	11
Selenium	7782-49-2	mg/kg	39	0.52		1.4 J	< 3.7 U	< 3.0 U	< 2.5 U	0.69 J	0.74 J	1.0 J	1.1 J	1.8 J	1.4 J
Silver	7440-22-4	mg/kg	39	4.2		0.70 J	0.13 J	0.16 J	0.054 J	0.049 J	0.019 J	0.13 J	0.017 J	0.52 J	0.28 J
Thallium	7440-28-0	mg/kg	0.078	0.05		0.059 J	< 0.74 U	0.040 J	< 0.50 U	0.018 J	0.017 J	0.027 J	< 0.42 U	0.051 J	0.034 J
Vanadium	7440-62-2	mg/kg	39	7.8		18	11	19	9.0	10	8.8	13	7.7	18	19
Zinc	7440-66-6	mg/kg	2300	46		310 EB	170 EB	370 EB	89 EB	25 EB	16 EB	67 EB	18 EB	210 EB	150 EB
Mercury	7439-97-6	mg/kg	2.3	0.013		0.31 EB	0.67 EB	0.34 EB	0.12 EB	0.070 JEB	0.033 JEB	0.11 EB	< 0.10 U	0.50 EB	0.44 EB

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0001-PLS1	23D-0002-PLS1	23D-0003-PLS1	23D-0004-PLS1	23D-0005-PLS1	23D-0005-PLS1	23D-0006-PLS1	23D-0006-PLS1	23D-0007-PLS1	23D-0008-PLS1
				Sample Name	23D-0001-PLS1-AS	23D-0002-PLS1-AS	23D-0003-PLS1-AS	23D-0004-PLS1-AS	23D-0005-PLS1-AS	23D-0005-PLS1-BS	23D-0006-PLS1-AS	23D-0006-PLS1-BS	23D-0007-PLS1-AS	23D-0008-PLS1-AS
				Sample Date	7/18/2023	7/18/2023	7/18/2023	7/18/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 0.75 ft	0 - 1.1 ft	0 - 0.5 ft	0 - 1 ft	1 - 1.6 ft	0 - 1 ft	1 - 1.8 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
2-HEXANONE	591-78-6	ug/kg	20000	360	< 20 U	< 20 U	< 15 U	< 12 U	< 12 U	< 9.7 U	< 16 U	< 13 U	< 18 U	< 13 U
ACETONE	67-64-1	ug/kg	7000000	1200	470	< 20 U	< 15 U	< 12 U	< 12 U	< 9.7 U	< 16 U	< 13 U	94	< 13 U
Benzene	71-43-2	ug/kg	1200	120	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
BROMOFORM	75-25-2	ug/kg	19000	70	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
BROMOMETHANE	74-83-9	ug/kg	680	2	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Chloroform	67-66-3	ug/kg	320	50	8.4 J	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 10 UJ	< 10 UJ	< 7.4 UJ	< 6.1 UJ	< 5.9 UJ	< 4.8 UJ	< 7.8 UJ	< 6.3 UJ	< 8.9 UJ	< 6.4 UJ
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Cyclohexane	110-82-7	ug/kg	650000		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Ethylbenzene	100-41-4	ug/kg	5800	270	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
METHYL ACETATE	79-20-9	ug/kg	7800000		6.7 J	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	5.0 J	< 6.4 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	35	< 20 U	< 15 U	< 12 U	< 12 U	< 9.7 U	< 16 U	< 13 U	< 18 U	< 13 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 20 U	< 20 U	< 15 U	< 12 U	< 12 U	< 9.7 U	< 16 U	< 13 U	< 18 U	< 13 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Methylene Chloride	75-09-2	ug/kg	35000	210	< 10 U	< 10 U	< 7.4 U	< 6.1 U	4.8 J	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	6.1 J
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Styrene	100-42-5	ug/kg	600000	1200	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Toluene	108-88-3	ug/kg	490000	150	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U
Vinyl Chloride	75-01-4	ug/kg	59	30	< 10 U	< 10 U	< 7.4 U	< 6.1 U	< 5.9 U	< 4.8 U	< 7.8 U	< 6.3 U	< 8.9 U	< 6.4 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0001-PLS1	23D-0002-PLS1	23D-0003-PLS1	23D-0004-PLS1	23D-0005-PLS1	23D-0005-PLS1	23D-0006-PLS1	23D-0006-PLS1	23D-0007-PLS1	23D-0008-PLS1
				Sample Name	23D-0001-PLS1-AS	23D-0002-PLS1-AS	23D-0003-PLS1-AS	23D-0004-PLS1-AS	23D-0005-PLS1-AS	23D-0005-PLS1-BS	23D-0006-PLS1-AS	23D-0006-PLS1-BS	23D-0007-PLS1-AS	23D-0008-PLS1-AS
				Sample Date	7/18/2023	7/18/2023	7/18/2023	7/18/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 0.75 ft	0 - 1.1 ft	0 - 0.5 ft	0 - 1 ft	1 - 1.6 ft	0 - 1 ft	1 - 1.8 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 120 U	< 110 U	< 100 U	< 89 U	< 75 U	< 74 U	< 84 U	< 74 U	< 110 U	< 96 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	< 190 U	-	< 190 U	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	490
Caprolactam	105-60-2	ug/kg	3100000		< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 590 U	< 550 UJ	< 500 UJ	< 440 UJ	< 370 UJ	< 360 UJ	< 410 UJ	< 360 UJ	< 520 UJ	< 470 UJ
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U

Table 15
Floodplain Soil Analytical Results
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Lower Neponset River
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				Location	23D-0001-PLS1	23D-0002-PLS1	23D-0003-PLS1	23D-0004-PLS1	23D-0005-PLS1	23D-0005-PLS1	23D-0006-PLS1	23D-0006-PLS1	23D-0007-PLS1	23D-0008-PLS1
				Sample Name	23D-0001-PLS1-AS	23D-0002-PLS1-AS	23D-0003-PLS1-AS	23D-0004-PLS1-AS	23D-0005-PLS1-AS	23D-0005-PLS1-BS	23D-0006-PLS1-AS	23D-0006-PLS1-BS	23D-0007-PLS1-AS	23D-0008-PLS1-AS
				Sample Date	7/18/2023	7/18/2023	7/18/2023	7/18/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023	7/19/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 0.75 ft	0 - 1.1 ft	0 - 0.5 ft	0 - 1 ft	1 - 1.6 ft	0 - 1 ft	1 - 1.8 ft	0 - 0.5 ft	0 - 0.5 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Naphthalene	91-20-3	ug/kg	2000	29000	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 300 U	< 280 U	< 260 U	< 220 U	< 190 U	< 190 U	< 210 U	< 190 U	< 270 U	< 240 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	790	< 590 U	< 550 U	< 500 U	< 440 U	< 370 U	< 360 U	< 410 U	< 360 U	< 520 U	< 470 U
PYRENE	129-00-0	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	140	4.2 J	< 5.5 U	< 5.0 U	< 4.4 U	< 3.7 U	< 3.6 U	2.8 J	< 3.7 U	5.0 J	6.4
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	4.5 J	< 5.5 U	< 5.0 U	< 4.4 U	< 3.7 U	< 3.6 U	2.7 J	< 3.7 U	4.8 J	6.6
Acenaphthene	83-32-9	ug/kg	360000	29000	18 J	11 J	9.1 J	6.6 J	3.1 J	-	10 J	-	18 J	25 J
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	7.2	6.2	5.4	8.1	3.4 J	< 3.6 U	5.8	< 3.7 U	20	28
ANTHRACENE	120-12-7	ug/kg	1800000	29000	45 J	39 J	34 J	31 J	12 J	2.9 J	36 J	2.5 J	78 J	160 J
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	180	140	190	110	46	10	130	7.8	280 J-	450 J-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	180	130	180 J-	110	47 J-	11	130 J-	7.6	290 J-	440 J-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	270	180	280 J-	150	70 J-	17	170 J-	12	400 J-	630 J-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	130	88	140 J-	77	33 J-	9.0	90 J-	6.2	230 J-	320 J-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	95 J	60	66 J-	52	23 J-	5.5	48 J-	3.6 J	170 J-	210 J-
CHRYSENE	218-01-9	ug/kg	110000	1100	190	140	210	110	53	13	140	9.6	310 J-	520 J-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	29	20	21 J-	18	7.6 J-	1.9 J	16 J-	< 3.7 U	53 J-	66 J-
FLUORANTHENE	206-44-0	ug/kg	240000	1100	480	340	540	250	110	24	290	18	660 J-	1000 J-
FLUORENE	86-73-7	ug/kg	240000	29000	19	13	12	8.0	3.8	< 3.6 U	11	< 3.7 U	22	31
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	130	96	150 J-	81	37 J-	9.1	95 J-	6.4	230 J-	350 J-
Naphthalene	91-20-3	ug/kg	2000	29000	7.5	4.0 J	2.9 J	2.6 J	< 3.7 U	< 3.6 U	4.1	< 3.7 U	6.4	8.9
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	250	170	250	94	40	9.9	140	8.0	270	410
PYRENE	129-00-0	ug/kg	180000	1100	290 J	220 J	300 J	160 J	56 J	14 J	180 J	9.7 J	390 J	570 J
Asbestos														
ASBESTOS	1332-21-4	%			< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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Boston, Massachusetts

					Location	23D-0010-PLS1	23D-0011-PLS1	23D-0012-PLS1	23D-0012-PLS1	23D-0013-PLS1	23D-0014-PLS1	23D-0015-PLS1	23D-0016-PLS1	23D-0017-PLS1	23D-0018-PLS1
					Sample Name	23D-0010-PLS1-AS	23D-0011-PLS1-AS	23D-0012-PLS1-AS	23D-0012-PLS1-BS	23D-0013-PLS1-AS	23D-0014-PLS1-AS	23D-0015-PLS1-AS	23D-0016-PLS1-AS	23D-0017-PLS1-AS	23D-0018-PLS1-AS
					Sample Date	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/21/2023	7/21/2023	7/21/2023	7/21/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.15 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 0.3 ft	0 - 1.1 ft	0 - 0.3 ft	0 - 0.3 ft	0 - 0.7 ft	0 - 0.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	721	1790	185	140	742	2690	953 J	377 J	661 J	1850 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	16.2 J	36.8 J	3.29 J	2.65 J	15.9 J	58.1 J	19.9	7.95	16.4	49.0
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	10.0 J+	21.5 J+	2.84 J+	1.68 JN	8.72 J+	25.2 J+	11.2 J	5.23 JN	6.94 J	21.1 J
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	42.5 J	92.4 J	9.10 J	5.12 J	38.4 J	159 J	43.7 J	17.5 J	42.9 J	58.5 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	39.7 J+	94.6 J+	8.16 J+	6.17 J+	39.4 J+	158 J+	48.9	20.6	38.5	83.5
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	22.4 J+	48.0 J+	5.08 J+	3.85 J+	18.6 J+	69.8 J+	23.0 J	10.1 J	19.3 J	39.8 J
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	23.9	55.0	5.25	3.70	21.8	78.0	28.3	12.5	22.6	49.7
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 0.488 U	< 0.907 U	< 0.307 U	< 0.294 U	< 0.495 U	< 1.38 U	< 0.752 U	< 0.637 U	< 0.839 U	< 1.26 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	4.31 J	10.6 J	1.66 J	1.16 JN	4.05 JN	13.6 JN	5.16 JN	3.1 JN	4.33 JN	7.51 J
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	6.80 J+	12.7 J+	1.95 JN	2.04 J+	8.36 J+	25.4 J+	6.30 J	2.4 J	10.3 J	8.58 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	526	1220	75.3	46.5	441	1560	576	214	473	1190
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	18.6 J	42.0 J	7.78 J	6.97 J	17.5 J	63.2 J	19.6	9.11	21.6	36.4
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	20.1 J	53.9 J	11.3 J	11.6 J	36.8 J	161 J	22.7 J	13.3 J	78.6 J	30.2 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	1.35 J+	2.48 J+	1.49 J+	0.739 JN	1.46 J+	4.91 J+	1.02 JN	< 0.744 UJ	< 0.998 UJ	1.48 JN
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	10.6 J	34.9 J	6.48 J	2.99 J	29.0 J	88.9 J	9.73	5.06	23.0	13.8
OCDD	3268-87-9	pg/g	16000	10500	4970	13300 J	1940	1550	5460	21600 J	6870	2840	5350	13500
OCDF	39001-02-0	pg/g	16000	10500	545	1210	114	96.8	496	1800	643 J	228 J	407 J	1480 J
Total HpCDD (a)	RA_Total_HpCDD	pg/g			721	1790	185	140	742	2690	953	377	661	1850
Total HpCDF (a)	RA_Total_HpCDF	pg/g			542	1260	78.6	49.2	457	1620	596	222	489	1240
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		73.6	171	16.3	11.6	69.9	261	88.4	38.3	68.0	154
Total HxCDF (a)	RA_Total_HxCDF	pg/g			83.5	182	22.0	15.9	74.5	292	86.3	36.7	83.8	135
Total PeCDD (a)	RA_Total_PeCDD	pg/g			4.31	10.6	1.66	1.16	4.05	13.6	5.16	3.1	4.33	7.51
Total PeCDF (a)	RA_Total_PeCDF	pg/g			26.9	66.6	13.3	13.6	45.2	186	29.0	15.7	88.9	38.8
Total TCDD (a)	RA_Total_TCDD	pg/g			1.35	2.48	1.49	0.739	1.46	4.91	1.02	< 0.744 U	< 0.998 U	1.48
Total TCDF (a)	RA_Total_TCDF	pg/g			10.6	34.9	6.48	2.99	29.0	88.9	9.73	5.06	23.0	13.8
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	41	9.13 J	106 J	0.292 J	0.322 J	8.17 J	252 J	20.6 J	1.45 J	29.7 J	26.6 J
PCB-002	2051-61-8	ng/g	230	41	< 0.0529 U	2.66 JEB	< 0.0534 U	< 0.0534 U	< 0.0530 U	8.16 JEB	0.341 JEB	< 0.0537 U	1.09 JEB	0.722 JEB
PCB-003	2051-62-9	ng/g	230	41	6.69 J	82.7 J	< 0.0520 U	< 0.0520 U	4.72 J	111 J	9.94 J	0.811 J	11.7 J	19.5 J
PCB-004/010	PCB-4/10	ng/g	230	41	42.6 J	486 J	6.01 J	5.53 J	77.1 J	1350 J	62.7 J	5.10 J	214 J	45.6 J
PCB-005/008	PCB-5/8	ng/g	230	41	48.6 J	337 J	6.18 J	3.83 J	65.9 J	1390 J	60.8 J	6.38 J	330 J	62.4 J
PCB-006	25569-80-6	ng/g	230	41	9.66 J	55.5 J	2.03 J	1.42 J	16.4 J	146 J	10.0 J	1.55 J	114 J	12.0 J
PCB-007/009	PCB-7/9	ng/g	230	41	1.93 J	5.98 J	0.755 J	0.538 J	3.80 J	61.6 J	1.79 J	0.362 J	22.9	2.44 J
PCB-011	2050-67-1	ng/g	230	41	3.55 JEB	29.3 EB	0.405 JEB	< 0.0495 U	12.0 JEB	128 JEB	2.66 JEB	0.552 JEB	34.3 EB	3.16 JEB
PCB-012/013	PCB-12/13	ng/g	230	41	11.2 J	66.1 J	2.07 J	1.34 J	38.8	153 J	9.37 J	1.42 J	126 J	10.8 J
PCB-014	34883-41-5	ng/g	230	41	< 0.0492 U	< 0.0497 U	< 0.0496 U	< 0.0497 U	< 0.0493 U	< 0.0497 U	< 0.0494 U	< 0.0500 U	< 0.0484 U	< 0.0500 U
PCB-015	2050-68-2	ng/g	230	41	138 JEB	1350 JEB	49.3 JEB	27.8 JEB	705 JEB	3760 JEB	121 JEB	27.2 EB	789 JEB	135 JEB
PCB-016/032	PCB-16/32	ng/g	230	41	72.8 JEB	3340 JEB	72.0 JEB	54.0 JEB	940 JEB	10100 JEB	61.8 JEB	35.0 EB	1710 JEB	77.5 JEB
PCB-017	37680-66-3	ng/g	230	41	49.3 JEB	1280 JEB	19.8 EB	16.4 JEB	257 JEB	2830 JEB	36.8 EB	10.7 JEB	615 JEB	32.6 EB
PCB-018	37680-65-2	ng/g	230	41	18.5 JEB	178 JEB	37.1 EB	34.5 EB	126 JEB	259 JEB	22.2 EB	10.6 JEB	576 JEB	22.4 EB
PCB-019	38444-73-4	ng/g	230	41	21.2 JEB	1690 JEB	14.0 JEB	9.96 JEB	319 JEB	4310 JEB	16.6 JEB	9.83 JEB	333 JEB	31.5 EB
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	9.66 JEB	42.0 JEB	21.8 EB	16.4 JEB	78.4 JEB	287 JEB	7.11 JEB	4.74 JEB	507 JEB	10.7 JEB
PCB-022	38444-85-8	ng/g	230	41	13.3 JEB	171 JEB	40.5 JEB	32.9 JEB	166 JEB	1080 JEB	12.9 JEB	8.38 JEB	562 JEB	15.0 JEB
PCB-023/034	PCB-23/34	ng/g	230	41	1.35 J	7.53 J	0.428 J	0.595 J	6.49 J	39.7 J	0.826 J	< 0.0902 U	23.3	0.867 J
PCB-024/027	PCB-24/27	ng/g	230	41	21.2 J	594 J	10.3 J	7.23 J	264 J	1940 J	19.3 J	8.59 J	343 J	20.4
PCB-025	55712-37-3	ng/g	230	41	35.1 J	409 J	7.78 J	5.94 J	280 J	1920 J	23.1	7.86 J	717 J	21.3
PCB-026	38444-81-4	ng/g	230	41	50.1 J	476 J	22.1 J	16.6 J	561 J	2120 J	33.3	18.5 J	1390 J	32.3
PCB-028	7012-37-5	ng/g	230	41	135 JEB	727 JEB	165 JEB	120 JEB	2000 JEB	15500 JEB	132 JEB	106 JEB	4630 JEB	121 JEB
PCB-029	15862-07-4	ng/g	230	41	< 0.0513 U	< 0.0518 U	< 0.0518 U	< 0.0518 U	0.663 J	4.90 J	< 0.0515 U	< 0.0521 U	1.79 J	< 0.0522 U
PCB-030	35693-92-6	ng/g	230	41	< 0.0470 U	< 0.0475 U	< 0.0475 U	< 0.0475 U	0.835 J	17.5 J	< 0.0472 U	< 0.0478 U	2.20 J	< 0.0478 U
PCB-031	16606-02-3	ng/g	230	41	103 JEB	441 JEB	98.7 JEB	75.4 JEB	786 JEB	947 JEB	92.7 JEB	46.4 JEB	1730 JEB	79.2 JEB
PCB-035	37680-69-6	ng/g	230	41	1.51 J+	5.85 J+	2.57 J+	1.93 J+	10.7 J+	71.2 J	0.990 J+	< 0.0567 U	35.0 J+	1.01 J+
PCB-036	38444-87-0	ng/g	230	41	< 0.0476 U	< 0.0481 U	1.70 J	1.05 J	10.5 J	53.8 J	0.731 J	1.31 J	35.3	1.09 J
PCB-037	38444-90-5	ng/g	230	41	29.6	153 J	56.8 J	36.1	282 J	1080 J	35.3	23.1	1010 J	35.3
PCB-038	53555-66-1	ng/g	230	41	5.04 J	33.9	1.39 J	1.03 J	27.4	205 J	5.09 J	3.25 J	59.2 J	6.20 J
PCB-039	38444-88-1	ng/g	230	41	< 0.0242 U	8.84 J	< 0.0244 U	< 0.0244 U	3.86 J	46.8 J	0.644 J	< 0.0246 U	11.6 J	0.876 J
PCB-040	38444-93-8	ng/g	230	41	7.99 JEB	22.4 EB	26.4 EB	16.1 JEB	148 JEB	239 JEB	9.46 JEB	12.5 JEB	519 JEB	9.62 JEB

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0010-PLS1	23D-0011-PLS1	23D-0012-PLS1	23D-0012-PLS1	23D-0013-PLS1	23D-0014-PLS1	23D-0015-PLS1	23D-0016-PLS1	23D-0017-PLS1	23D-0018-PLS1
					Sample Name	23D-0010-PLS1-AS	23D-0011-PLS1-AS	23D-0012-PLS1-AS	23D-0012-PLS1-BS	23D-0013-PLS1-AS	23D-0014-PLS1-AS	23D-0015-PLS1-AS	23D-0016-PLS1-AS	23D-0017-PLS1-AS	23D-0018-PLS1-AS
					Sample Date	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/21/2023	7/21/2023	7/21/2023	7/21/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.15 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 0.3 ft	0 - 1.1 ft	0 - 0.3 ft	0 - 0.3 ft	0 - 0.7 ft	0 - 0.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-041/064	PCB-41/64	ng/g	230	41		64.0 J	158 J	86.0 J	53.7 J	605 J	1830 J	51.7 J	63.1 J	1390 J	61.4 J
PCB-042	36559-22-5	ng/g	230	41		37.2	268 J	58.8 J	35.5	389 J	1590 J	41.0 J	44.7 J	1300 J	47.0 J
PCB-043/049	PCB-43/49	ng/g	230	41		182 JEB	1440 JEB	147 JEB	88.9 JEB	1280 JEB	6870 JEB	188 JEB	168 JEB	3950 JEB	221 JEB
PCB-044	41464-39-5	ng/g	230	41		65.5 JEB	251 JEB	149 JEB	90.7 JEB	899 JEB	1740 JEB	80.1 JEB	107 JEB	3110 JEB	93.6 JEB
PCB-045	70362-45-7	ng/g	230	41		11.8 J	36.9 J	31.8 J	19.5 J	187 J	883 J	11.0 J	20.4	644 J	16.6 J
PCB-046	41464-47-5	ng/g	230	41		3.02 J	50.9 J	11.6 J	7.47 J	57.3 J	132 J	4.18 J	5.45 J	183 J	5.44 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	41		181 JEB	1300 JEB	85.5 JEB	53.2 JEB	996 JEB	7510 JEB	170 JEB	109 JEB	2450 JEB	201 JEB
PCB-050	62796-65-0	ng/g	230	41		1.50 J	20.9	0.402 J	< 0.0632 U	11.0 J	107 J	1.00 J	0.797 J	23.7	1.64 J
PCB-051	68194-04-7	ng/g	230	41		18.5 J	379 J	8.90 J	5.55 J	154 J	1380 J	12.7 J	11.6 J	341 J	21.2
PCB-052/073	PCB-52/73	ng/g	230	41		149 JEB	890 JEB	156 JEB	93.9 JEB	1240 JEB	4010 JEB	165 JEB	178 JEB	3740 JEB	195 JEB
PCB-053	41464-41-9	ng/g	230	41		34.6 EB	479 JEB	27.1 EB	16.1 JEB	329 JEB	1750 JEB	34.3 EB	33.9 EB	719 JEB	44.5 JEB
PCB-054	15968-05-5	ng/g	230	41		1.59 J	37.4	0.431 J	0.292 J	14.9 J	140 J	1.34 J	0.921 J	22.8	2.28 J
PCB-055	74338-24-2	ng/g	230	41		0.726 J	1.73 J	2.67 J	1.76 J	15.6 J	14.9 J	1.12 J	0.826 J	51.4 J	1.01 J
PCB-056/060	PCB-56/60	ng/g	230	41		30.9 EB	86.6 JEB	122 JEB	80.8 JEB	614 JEB	651 JEB	69.4 JEB	66.0 JEB	1440 JEB	65.4 JEB
PCB-057	70424-67-8	ng/g	230	41		2.78 J	7.44 J	0.823 J	0.578 J	17.2 J	70.6 J	1.63 J	1.12 J	57.7 J	1.73 J
PCB-058	41464-49-7	ng/g	230	41		< 0.0379 U	1.68 J	0.441 J	< 0.0382 U	3.58 J	18.8 J	0.694 J	0.509 J	10.3 J	0.815 J
PCB-059	74472-33-6	ng/g	230	41		7.89 J	10.6 J	12.0 J	7.66 J	89.1 J	277 J	6.16 J	9.31 J	275 J	6.40 J
PCB-061/074	PCB-61/74	ng/g	230	41		40.1 JEB	172 JEB	69.3 JEB	53.4 JEB	491 JEB	2370 JEB	68.6 JEB	46.1 JEB	1160 JEB	62.9 JEB
PCB-062	54230-22-7	ng/g	230	41		< 0.0517 U	< 0.0522 U	< 0.0522 U	< 0.0522 U	< 0.0519 U	< 0.0522 U	< 0.0519 U	< 0.0525 U	< 0.0509 U	< 0.0526 U
PCB-063	74472-34-7	ng/g	230	41		12.3 J	37.3	5.57 J	4.57 J	80.7 J	364 J	10.4 J	5.74 J	176 J	10.7 J
PCB-065	33284-54-7	ng/g	230	41		< 0.0745 U	< 0.0753 U	< 0.0752 U	< 0.0753 U	< 0.0748 U	4.28 J	< 0.0749 U	< 0.0757 U	1.68 J	< 0.0758 U
PCB-066/080	PCB-66/80	ng/g	230	41		73.0 JEB	318 JEB	174 JEB	111 JEB	898 JEB	2440 JEB	155 JEB	144 JEB	2390 JEB	148 JEB
PCB-067	73575-53-8	ng/g	230	41		3.18 J	6.82 J	5.28 J	4.17 J	41.6 J	157 J	3.75 J	3.23 J	131 J	3.63 J
PCB-068	73575-52-7	ng/g	230	41		3.43 J	22.7	< 0.0545 U	< 0.0546 U	< 0.0542 U	< 0.0546 U	3.09 J	1.50 J	17.7 J	4.05 J
PCB-069	60233-24-1	ng/g	230	41		1.00 J	7.95 J	< 0.0567 U	< 0.0567 U	5.97 J	47.9 J	0.597 J	0.425 J	12.2 J	0.793 J
PCB-070	32598-11-1	ng/g	230	41		60.3 JEB	205 JEB	167 JEB	120 JEB	727 JEB	1650 JEB	131 JEB	131 JEB	2180 JEB	144 JEB
PCB-071	41464-46-4	ng/g	230	41		37.9 EB	403 JEB	46.3 JEB	28.9 EB	370 JEB	1360 JEB	36.6 EB	38.6 EB	978 JEB	45.4 JEB
PCB-072	41464-42-0	ng/g	230	41		5.34 J	27.7	0.961 J	0.745 J	20.7	108 J	4.14 J	2.20 J	45.7 J	5.24 J
PCB-076	70362-48-0	ng/g	230	41		< 0.0747 U	< 0.0755 U	< 0.0754 U	< 0.0755 U	< 0.0750 U	< 0.0755 U	< 0.0750 U	< 0.0759 U	< 0.0735 U	< 0.0760 U
PCB-077	32598-13-3	ng/g	38.0	41		14.0 J+	41.0 J	19.6 J+	13.0 J+	125 J	655 J	22.6 J+	14.7 J+	249 J	21.1 J+
PCB-078	70362-49-1	ng/g	230	41		< 0.0382 U	< 0.0386 U	< 0.0386 U	< 0.0386 U	2.17 J	6.99 J	0.494 J	< 0.0389 U	5.68 J	0.573 J
PCB-079	41464-48-6	ng/g	230	41		< 0.0480 U	< 0.0485 U	< 0.0484 U	< 0.0485 U	4.33 J	5.50 J	1.25 J	0.873 J	10.1 J	1.31 J
PCB-081	70362-50-4	ng/g	12.0	41		1.16 J+	2.37 J+	1.92 J+	1.31 J+	10.8 J+	24.2 J+	2.44 J+	2.00 J+	21.7 J+	2.26 J+
PCB-082	52663-62-4	ng/g	230	41		8.99 J	16.3 J	12.2 J	9.11 J	76.2 J	141 J	11.7 J	11.0 J	193 J	12.9 J
PCB-083/109	PCB-83/109	ng/g	230	41		6.21 J	13.2 J	3.93 J	3.12 J	34.6	140 J	6.14 J	5.34 J	88.5 J	7.35 J
PCB-084	52663-60-2	ng/g	230	41		20.9	47.3 J	19.3 J	13.6 J	139 J	413 J	20.5	22.1	382 J	27.3
PCB-085/120	PCB-85/120	ng/g	230	41		21.2	38.4	21.8	16.1 J	138 J	280 J	29.3	23.7	317 J	30.5
PCB-086/097	PCB-86/97	ng/g	230	41		19.1 J	44.6 J	24.2	18.8 J	148 J	423 J	28.9	24.4	377 J	35.4
PCB-087/115/116	PCB-87/115/116	ng/g	230	41		< 0.0301 U	< 0.0304 U	< 0.0303 U	< 0.0303 U	< 0.0301 U	< 0.0304 U	< 0.0302 U	< 0.0305 U	< 0.0296 U	< 0.0305 U
PCB-088/121	PCB-88/121	ng/g	230	41		< 0.109 U	< 0.110 U	< 0.110 U	< 0.110 U	2.79 J	8.06 J	< 0.109 U	0.458 J	8.32 J	0.635 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	41		61.4 J	155 J	54.2 J	41.7 J	376 J	1310 J	92.0 J	71.7 J	954 J	110 J
PCB-091	68194-05-8	ng/g	230	41		28.5	87.9 J	13.9 J	10.1 J	124 J	688 J	23.7	19.5 J	316 J	29.8
PCB-092	52663-61-3	ng/g	230	41		21.4	55.0 J	8.28 J	6.55 J	89.9 J	428 J	20.1	14.4 J	216 J	25.7
PCB-093/095	PCB-93/95	ng/g	230	41		69.8 J	113 J	43.7 J	29.7	374 J	1310 J	64.9 J	65.3 J	958 J	85.1 J
PCB-094	73575-55-0	ng/g	230	41		2.63 J	8.51 J	0.801 J	< 0.0906 U	9.56 J	63.2 J	1.94 J	1.38 J	20.2	2.43 J
PCB-096	73575-54-9	ng/g	230	41		1.75 J	4.18 J	0.276 J+	0.113 J+	10.9 J	58.0 J	1.17 J	1.76 J	32.2	1.85 J
PCB-098/102	PCB-98/102	ng/g	230	41		9.73 J	23.3	4.55 J	3.44 J	46.0 J	230 J	6.50 J	6.25 J	116 J	8.36 J
PCB-099	38380-01-7	ng/g	230	41		42.1 J	113 J	32.1	25.2	241 J	1110 J	61.6 J	45.3 J	613 J	69.2 J
PCB-100	39485-83-1	ng/g	230	41		2.00 J	11.6 J	0.301 J	< 0.0483 U	5.05 J	43.1 J	2.12 J	0.804 J	11.2 J	2.81 J
PCB-103	60145-21-3	ng/g	230	41		2.31 J	11.7 J	0.533 J	< 0.0498 U	7.28 J	54.4 J	2.14 J	1.16 J	17.3 J	2.63 J
PCB-104	56558-16-8	ng/g	230	41		< 0.0457 U	0.847 J	< 0.0461 U	< 0.0461 U	< 0.0458 U	2.32 J	< 0.0459 U	< 0.0464 U	0.503 J	< 0.0464 U
PCB-105/127	PCB-105/127	ng/g	120	41		22.8 J+	55.2 J	30.9 J+	26.3 J+	220 J	527 J	47.6 J	29.3	523 J	47.3 J
PCB-106/118	PCB-106/118	ng/g	120	41		56.9 J	152 J	51.3 J	45.9 J	399 J	1500 J	101 J	61.1 J	902 J	111 J
PCB-107/108	PCB-107/108	ng/g	230	41		6.16 J	16.0 J	4.63 J	4.16 J	36.4	163 J	9.79 J	5.63 J	86.9 J	10.6 J
PCB-110	38380-03-9	ng/g	230	41		121 JEB	208 JEB	65.2 JEB	52.1 JEB	587 JEB	2060 JEB	116 JEB	93.4 JEB	1380 JEB	146 JEB
PCB-111/117	PCB-111/117	ng/g	230	41		27.9 J	72.4 J	27.8	21.5	196 J	495 J	36.3	32.2	464 J	43.5 J
PCB-112	74472-36-9	ng/g	230	41		0.913 J	1.68 J	< 0.0475 U	< 0.0475 U	3.12 J	21.1	0.552 J	0.472 J	8.54 J	0.767 J
PCB-113	68194-10-5	ng/g	230	41		1.26 J	< 0.0499 UJ	< 0.0498 U	< 0.0498 U	4.17 J	18.6 J	0.581 J	< 0.0502 U	8.29 J	0.790 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0010-PLS1	23D-0011-PLS1	23D-0012-PLS1	23D-0012-PLS1	23D-0013-PLS1	23D-0014-PLS1	23D-0015-PLS1	23D-0016-PLS1	23D-0017-PLS1	23D-0018-PLS1
				Sample Name	23D-0010-PLS1-AS	23D-0011-PLS1-AS	23D-0012-PLS1-AS	23D-0012-PLS1-BS	23D-0013-PLS1-AS	23D-0014-PLS1-AS	23D-0015-PLS1-AS	23D-0016-PLS1-AS	23D-0017-PLS1-AS	23D-0018-PLS1-AS
				Sample Date	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/21/2023	7/21/2023	7/21/2023	7/21/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.15 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 0.3 ft	0 - 1.1 ft	0 - 0.3 ft	0 - 0.3 ft	0 - 0.7 ft	0 - 0.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-114	74472-37-0	ng/g	120	41	2.08 J	4.83 J	2.27 J	2.02 J	17.7 J	53.2 J	3.15 J	1.67 J	37.4	3.32 J
PCB-119	56558-17-9	ng/g	230	41	5.54 J	19.9 J	1.83 J	1.38 J	20.1	123 J	5.57 J	3.24 J	47.1 J	7.12 J
PCB-122	76842-07-4	ng/g	230	41	< 0.0345 U	2.43 J	1.17 J	1.02 J	7.95 J	18.8 J	1.62 J	1.32 J	17.6 J	1.94 J
PCB-123	65510-44-3	ng/g	120	41	2.29 J+	6.64 J+	2.02 J+	1.59 J+	14.3 J+	46.2 J	3.57 J+	2.35 J+	29.7 J+	4.35 J+
PCB-124	70424-70-3	ng/g	230	41	2.13 J	6.87 J	2.34 J	2.05 J	15.7 J	46.4 J	3.86 J	2.63 J	33.2	4.57 J
PCB-125	74472-39-2	ng/g	230	41	< 0.0472 UJ	2.98 J	< 0.0476 U	< 0.0477 U	3.53 J	18.6 J	0.986 J	0.740 J	4.95 J	0.748 J
PCB-126	57465-28-8	ng/g	0.0360	41	< 0.0671 U	< 0.0678 U	< 0.0677 U	< 0.0678 U	3.79 J+	16.0 J+	0.875 J+	< 0.0682 U	6.20 J+	1.00 J+
PCB-128	38380-07-3	ng/g	230	41	9.56 J	25.1	3.51 J	2.90 J	37.3	119 J	12.8 J	6.31 J	64.0 J	16.3 J
PCB-129	55215-18-4	ng/g	230	41	2.23 J	5.53 J	1.05 J	1.05 J	9.77 J	29.9	3.01 J	1.71 J	17.5 J	3.77 J
PCB-130	52663-66-8	ng/g	230	41	3.69 J	8.72 J	1.22 J	1.12 J	13.8 J	50.3 J	4.32 J	2.24 J	25.2	5.56 J
PCB-131/142	PCB-131/142	ng/g	230	41	< 0.101 U	1.67 J	< 0.102 U	< 0.102 U	2.90 J	9.33 J	0.829 J	0.543 J	6.33 J	1.29 J
PCB-132/168	PCB-132/168	ng/g	230	41	16.5 J	37.2	5.35 J	4.66 J	62.4 J	206 J	19.6	10.9 J	123 J	27.8
PCB-133	35694-04-3	ng/g	230	41	< 0.0367 U	2.30 J	< 0.0370 U	< 0.0370 U	2.82 J	15.7 J	1.06 J	0.442 J	5.15 J	1.35 J
PCB-134	52704-70-8	ng/g	230	41	2.74 J	6.33 J	0.674 J	0.695 J	9.85 J	42.4 J	3.16 J	1.76 J	19.2	4.37 J
PCB-135/144	PCB-135/144	ng/g	230	41	7.71 J	15.5 J	2.18 J	1.96 J	26.6	111 J	8.31 J	4.70 J	54.3 J	12.1 J
PCB-136	38411-22-2	ng/g	230	41	5.40 J	12.3 J	1.63 J	1.39 J	19.5 J	84.7 J	6.33 J	3.76 J	45.5 J	9.72 J
PCB-137	35694-06-5	ng/g	230	41	2.89 J	9.49 J	1.40 J	1.08 J	13.2 J	46.5 J	4.38 J	2.21 J	22.5	5.75 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	50.7 J	133 J	17.0 J	14.1 J	187 J	709 J	71.8 J	34.5	324 J	97.5 J
PCB-139/149	PCB-139/149	ng/g	230	41	33.1	72.8 J	9.26 J	7.84 J	112 J	476 J	38.6	21.3	233 J	57.4 J
PCB-140	59291-64-4	ng/g	230	41	< 0.0695 U	< 0.0702 U	< 0.0701 U	< 0.0701 U	1.14 J	5.45 J	0.465 J	< 0.0706 U	2.47 J	< 0.0706 U
PCB-141	52712-04-6	ng/g	230	41	6.08 J	17.1 J	2.82 J	2.25 J	29.1	94.3 J	9.66 J	5.07 J	51.9 J	13.9 J
PCB-143	68194-15-0	ng/g	230	41	< 0.0626 U	< 0.0633 U	< 0.0632 U	< 0.0632 U	< 0.0628 U	3.54 J	0.306 J	< 0.0636 U	2.10 J	< 0.0637 U
PCB-145	74472-40-5	ng/g	230	41	< 0.0827 U	< 0.0836 U	< 0.0835 U	< 0.0835 U	< 0.0830 U	0.919 J	< 0.0831 U	< 0.0841 U	0.462 J	< 0.0841 U
PCB-146	51908-16-8	ng/g	230	41	5.83 J	14.0 J	1.52 J	1.39 J	19.3 J	88.6 J	7.18 J	3.46 J	38.7 J	9.88 J
PCB-147	68194-13-8	ng/g	230	41	2.19 J	9.03 J	0.370 J	< 0.0737 U	5.36 J	39.7 J	2.56 J	1.04 J	10.3 J	3.58 J
PCB-148	74472-41-6	ng/g	230	41	< 0.0765 U	0.604 J	< 0.0772 U	< 0.0772 U	< 0.0767 U	2.33 J	< 0.0768 U	< 0.0777 U	0.597 J	< 0.0778 U
PCB-150	68194-08-1	ng/g	230	41	< 0.0773 U	0.575 J	< 0.0780 U	< 0.0780 U	0.299 J	3.50 J	0.149 J	< 0.0785 U	0.790 J	0.204 J
PCB-151	52663-63-5	ng/g	230	41	8.66 J	18.7 J	2.07 J	1.63 J	26.5	137 J	8.97 J	5.08 J	56.7 J	13.8 J
PCB-152	68194-09-2	ng/g	230	41	< 0.0903 U	0.690 J	< 0.0912 U	< 0.0912 U	0.519 J	4.36 J	0.198 J	< 0.0918 U	1.17 J	0.240 J
PCB-153	35065-27-1	ng/g	230	41	29.3	81.1 J	9.95 J	8.39 J	110 J	452 J	44.4 J	21.6	208 J	63.7 J
PCB-154	60145-22-4	ng/g	230	41	1.00 J	3.33 J	< 0.0543 U	< 0.0544 U	2.44 J	19.1 J	1.06 J	0.422 J	5.10 J	1.40 J
PCB-155	33979-03-2	ng/g	230	41	< 0.0464 U	< 0.0469 U	< 0.0469 U	< 0.0469 U	< 0.0466 U	< 0.0469 U	< 0.0466 U	< 0.0472 U	< 0.0457 U	< 0.0472 U
PCB-156	38380-08-4	ng/g	120	41	4.17 J-	13.2 J-	1.63 J-	1.37 J-	19.7 J-	72.7 J	7.07 J	2.89 J	37.8	8.56 J
PCB-157	69782-90-7	ng/g	120	41	1.23 J	4.14 J	0.414 J	< 0.0548 UJ	5.44 J	20.8 J	2.31 J+	0.894 J+	10.4 J+	2.44 J+
PCB-158/160	PCB-158/160	ng/g	230	41	4.59 J	12.9 J	1.74 J	1.48 J	20.0	70.8 J	6.79 J	3.36 J	37.8	8.79 J
PCB-159	39635-35-3	ng/g	230	41	< 0.0749 U	< 0.0757 U	< 0.0756 U	< 0.0757 U	0.765 J	4.23 J	0.343 J	< 0.0761 U	1.71 J	< 0.0762 U
PCB-161	74472-43-8	ng/g	230	41	< 0.0701 U	< 0.0708 U	< 0.0707 U	< 0.0707 U	< 0.0703 U	< 0.0708 U	< 0.0703 U	< 0.0712 U	< 0.0689 U	< 0.0712 U
PCB-162	39635-34-2	ng/g	230	41	< 0.0552 U	< 0.0558 U	< 0.0557 U	< 0.0558 U	1.03 J	4.35 J	0.395 J	< 0.0561 U	2.03 J	< 0.0561 U
PCB-165	74472-46-1	ng/g	230	41	< 0.0757 U	< 0.0765 U	< 0.0764 U	< 0.0764 U	< 0.0759 U	1.20 J	< 0.0760 U	< 0.0769 U	< 0.0745 U	< 0.0770 U
PCB-166	41411-63-6	ng/g	230	41	< 0.0652 U	< 0.0658 U	< 0.0658 U	< 0.0658 U	1.17 J	4.27 J	0.331 J	< 0.0662 U	1.94 J	< 0.0662 U
PCB-167	52663-72-6	ng/g	120	41	1.77 J	5.80 J	0.638 J	0.505 J	7.40 J	27.8	2.65 J+	1.39 J+	13.6 J+	3.97 J+
PCB-169	32774-16-6	ng/g	0.120	41	< 0.0552 U	< 0.0558 U	< 0.0557 U	< 0.0558 U	< 0.0554 U	< 0.0558 U	< 0.0555 U	< 0.0561 U	< 0.0543 U	< 0.0561 U
PCB-170/190	PCB-170/190	ng/g	230	41	8.64 J	24.4	2.14 J	1.89 J	28.5	152 J	12.6 J	5.08 J	57.2 J	15.6 J
PCB-171	52663-71-5	ng/g	230	41	2.38 J	6.03 J	0.537 J	0.501 J	7.15 J	37.4	3.00 J	1.26 J	14.5 J	4.13 J
PCB-172/192	PCB-172/192	ng/g	230	41	1.05 J	3.12 J	0.319 J	0.242 J	3.56 J	19.9	1.67 J	0.582 J	7.23 J	1.99 J
PCB-173	68194-16-1	ng/g	230	41	< 0.0808 U	< 0.0816 U	< 0.0815 U	< 0.0816 U	< 0.0810 U	2.87 J	< 0.0811 U	< 0.0821 U	< 0.0795 U	< 0.0821 U
PCB-174	38411-25-5	ng/g	230	41	7.17 J	17.9 J	2.02 J	2.00 J	23.0	127 J	10.1 J	4.21 J	49.1 J	13.5 J
PCB-175	40186-70-7	ng/g	230	41	0.367 J	0.749 J	< 0.0628 U	< 0.0629 U	0.914 J	5.16 J	0.324 J	< 0.0632 U	2.01 J	0.500 J
PCB-176	52663-65-7	ng/g	230	41	0.748 J	2.15 J	0.166 J	< 0.0587 U	2.54 J	14.6 J	0.899 J	0.437 J	5.68 J	1.60 J
PCB-177	52663-70-4	ng/g	230	41	4.60 J	11.1 J	1.11 J	1.06 J	13.7 J	74.9 J	5.85 J	2.47 J	28.4	7.84 J
PCB-178	52663-67-9	ng/g	230	41	1.79 J	4.43 J	0.433 J	0.347 J	4.75 J	30.5	2.14 J	0.795 J	10.4 J	2.88 J
PCB-179	52663-64-6	ng/g	230	41	2.74 J	6.70 J	0.754 J	0.672 J	7.89 J	50.8 J	3.27 J	1.50 J	17.9 J	5.20 J
PCB-180	35065-29-3	ng/g	230	41	14.5 J	42.6 J	4.15 J	3.90 J	48.5 J	282 J	21.7	8.26 J	102 J	27.6
PCB-181	74472-47-2	ng/g	230	41	< 0.0552 U	< 0.0558 U	< 0.0557 U	< 0.0558 U	< 0.0554 U	< 0.0558 U	< 0.0555 U	< 0.0561 U	< 0.0543 U	< 0.0561 U
PCB-182/187	PCB-182/187	ng/g	230	41	9.30 J	22.3	2.62 J	2.47 J	25.5	163 J	11.4 J	4.87 J	56.1 J	15.3 J
PCB-183	52663-69-1	ng/g	230	41	3.66 J	10.2 J	1.03 J	0.873 J	12.0 J	67.2 J	4.90 J	2.06 J	25.2	7.20 J
PCB-184	74472-48-3	ng/g	230	41	< 0.0523 U	< 0.0528 U	< 0.0528 U	< 0.0528 U	< 0.0525 U	< 0.0528 U	< 0.0525 U	< 0.0531 U	< 0.0514 U	< 0.0532 U
PCB-185	52712-05-7	ng/g	230	41	0.709 J	2.07 J	0.240 J	< 0.0731 U	2.73 J	15.2 J	1.18 J	0.426 J	5.79 J	1.58 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0010-PLS1	23D-0011-PLS1	23D-0012-PLS1	23D-0012-PLS1	23D-0013-PLS1	23D-0014-PLS1	23D-0015-PLS1	23D-0016-PLS1	23D-0017-PLS1	23D-0018-PLS1
					Sample Name	23D-0010-PLS1-AS	23D-0011-PLS1-AS	23D-0012-PLS1-AS	23D-0012-PLS1-BS	23D-0013-PLS1-AS	23D-0014-PLS1-AS	23D-0015-PLS1-AS	23D-0016-PLS1-AS	23D-0017-PLS1-AS	23D-0018-PLS1-AS
					Sample Date	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/21/2023	7/21/2023	7/21/2023	7/21/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.15 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 0.3 ft	0 - 1.1 ft	0 - 0.3 ft	0 - 0.3 ft	0 - 0.7 ft	0 - 0.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-186	74472-49-4	ng/g	230	41	< 0.0654 U	< 0.0660 U	< 0.0660 U	< 0.0660 U	< 0.0656 U	< 0.0660 U	< 0.0656 U	< 0.0664 U	< 0.0643 U	< 0.0664 U
PCB-188	74487-85-7	ng/g	230	41	< 0.0599 U	< 0.0605 U	< 0.0604 U	< 0.0605 U	< 0.0601 U	0.463 J	< 0.0602 U	< 0.0609 U	< 0.0589 U	< 0.0609 U
PCB-189	39635-31-9	ng/g	130	41	< 0.0609 U	1.19 J	< 0.0614 U	< 0.0615 U	1.18 J	6.62 J	0.585 J	0.166 J	2.25 J	0.715 J
PCB-191	74472-50-7	ng/g	230	41	< 0.0550 U	0.815 J	< 0.0555 U	< 0.0556 U	0.988 J	5.19 J	0.422 J	0.159 J	1.82 J	0.524 J
PCB-193	69782-91-8	ng/g	230	41	0.586 J	2.11 J	0.221 J	< 0.0701 U	2.27 J	14.4 J	1.15 J	0.427 J	4.54 J	1.24 J
PCB-194	35694-08-7	ng/g	230	41	5.06 J	14.7 J	2.32 J	0.976 J	13.3 J	91.5 J	6.79 J	2.26 J	29.1 J	7.35 J
PCB-195	52663-78-2	ng/g	230	41	1.36 J	5.02 J	0.478 J	< 0.157 U	4.45 J	30.6	2.19 J	0.868 J	10.1 J	2.83 J
PCB-196/203	PCB-196/203	ng/g	230	41	5.42 J	15.4 J	1.55 J	1.52 J	13.6 J	98.9 J	7.00 J	2.29 J	30.3 J	7.79 J
PCB-197	33091-17-7	ng/g	230	41	< 0.0658 U	< 0.0664 U	< 0.0664 U	< 0.0664 U	0.430 J	2.84 J	< 0.0660 U	< 0.0668 U	0.905 J	< 0.0668 U
PCB-198	68194-17-2	ng/g	230	41	< 0.107 U	< 0.108 U	< 0.108 U	< 0.108 U	< 0.107 U	4.38 J	< 0.107 UJ	< 0.108 UJ	1.38 J	< 0.108 UJ
PCB-199	52663-75-9	ng/g	230	41	4.28 J	13.1 J	1.61 J	1.52 J	11.6 J	84.7 J	5.95 J	2.21 J	26.2 J	7.00 J
PCB-200	52663-73-7	ng/g	230	41	0.550 J	1.77 J	< 0.0528 U	< 0.0528 U	1.46 J	9.99 J	0.659 J	< 0.0531 U	2.96 J	0.948 J
PCB-201	40186-71-8	ng/g	230	41	< 0.0414 U	1.39 J	< 0.0417 U	< 0.0418 U	1.38 J	9.88 J	0.647 J	0.212 J	2.89 J	0.642 J
PCB-202	2136-99-4	ng/g	230	41	0.735 J	2.56 J	< 0.0713 U	< 0.0713 U	2.12 J	15.4 J	0.965 J	0.347 J	4.40 J	1.17 J
PCB-204	74472-52-9	ng/g	230	41	< 0.0864 U	< 0.0873 U	< 0.0872 U	< 0.0873 U	< 0.0867 U	< 0.0873 U	< 0.0868 U	< 0.0878 U	< 0.0850 U	< 0.0879 U
PCB-205	74472-53-0	ng/g	230	41	< 0.0613 U	< 0.0619 U	< 0.0618 U	< 0.0619 U	< 0.0615 U	4.23 J	< 0.0615 U	< 0.0622 U	1.72 J	< 0.0623 U
PCB-206	40186-72-9	ng/g	230	41	2.64 J	8.40 J	0.900 J	0.869 J	5.78 J	40.3 J	3.77 J	1.34 J	11.0 J	5.11 J
PCB-207	52663-79-3	ng/g	230	41	< 0.0777 U	0.726 J	< 0.0784 U	< 0.0784 U	0.542 J	4.29 J	< 0.0780 U	< 0.0789 U	1.33 J	0.481 J
PCB-208	52663-77-1	ng/g	230	41	0.790 J	2.46 J	0.332 J	0.265 J	1.65 J	10.5 J	1.27 J	0.433 J	3.13 J	1.67 J
PCB-209	2051-24-3	ng/g	230	41	1.47 J	4.87 J	0.822 J	0.683 J	2.43 J	10.6 J	2.61 J	0.735 J	3.00 J	3.87 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0	1.47	4.87	0.822	0.683	2.43	10.6	2.61	0.735	3.00	3.87
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0	58.2	158	15.7	14.0	185	1070	81.2	32.7	390	107
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0	199	511	64.4	53.8	747	2960	269	136	1420	373
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0	17.4	53.9	5.96	4.02	48.3	352	24.2	8.19	110	27.7
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14	2740	20800	2570	1790	21200	105000	3180	2290	53700	3630
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0	567	1290	430	336	3350	11800	704	549	8170	835
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0	256	2330	66.8	40.5	919	6990	268	42.6	1630	271
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0	15.8	191	0.292	0.322	12.9	371	30.9	2.26	42.5	46.8
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0	3.43	11.6	1.23	1.13	7.97	55.1	5.04	1.77	15.5	7.26
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0	1050	6690	1420	909	9830	38400	1290	1220	27600	1450
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0	567	9560	572	430	6120	42800	501	294	14300	509
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700		4100	9500	8700	10000	6200	12000	6900	5700	6800	6300
Calcium	7440-70-2	mg/kg			2100	3400	2100	2100	3900	4400	4800	2800	2700	3500
Iron	7439-89-6	mg/kg	5500		8900	28000	14000	14000	14000	18000	11000	24000	21000	11000
Magnesium	7439-95-4	mg/kg			1500	2500	2100	2500	1800	3400	2100	2700	3600	1900
Potassium	7440-09-7	mg/kg			330 J	640 J	580	620	430 J	910	550	470 J	440 J	510 J
Sodium	7440-23-5	mg/kg			140 J	250 J	220 J	300 J	180 J	290 J	87 J	190 J	560	210 J
Antimony	7440-36-0	mg/kg	3.1	0.27	0.46 J	3.0 J	0.68 J	0.65 J	1.4 J	1.8 J	1.2 J	0.43 J	0.56 J	1.1 J
Arsenic	7440-38-2	mg/kg	0.68	18	1.8	14	3.5	5.4	3.8	4.9	3.0	4.0	2.9	3.8
Barium	7440-39-3	mg/kg	1500	110	28	120	41	57	75	110	40	58	31	56
Beryllium	7440-41-7	mg/kg	16	2.5	0.19 J	0.70 J	0.23 J	0.35 J	1.1	0.66 J	0.37 J	0.34 J	0.21 J	0.44 J
Cadmium	7440-43-9	mg/kg	0.71	0.36	0.43 J	2.5	0.28 J	0.53	4.2	1.3	0.55	0.39 J	< 0.54 U	1.2
Chromium, Total	7440-47-3	mg/kg	0.3	23	16	76	15	23	37	89	38	19	26	46
Cobalt	7440-48-4	mg/kg	2.3	13	3.6	9.3	2.5	3.4	8.0	5.7	2.8	6.8	3.1	3.1
Copper	7440-50-8	mg/kg	310	28	24	150	22	33	260	120	74	42	130	76
Lead	7439-92-1	mg/kg	200	11	51	280	120	140	260	310	130	78	120	150
Manganese	7439-96-5	mg/kg	180	220	250 EB	940 EB	160 EB	220 EB	430 EB	370 EB	130 EB	930 EB	150 EB	95 EB
Nickel	7440-02-0	mg/kg	140	38	11	21	8.5	8.8	33	14	12	12	10	12
Selenium	7782-49-2	mg/kg	39	0.52	0.90 J	1.6 J	1.1 J	0.96 J	1.6 J	1.7 J	1.2 J	1.3 J	1.3 J	1.2 J
Silver	7440-22-4	mg/kg	39	4.2	0.10 J	0.77 J	0.15 J	0.28 J	0.54 J	0.71 J	0.33 J	0.16 J	0.51 J	0.35 J
Thallium	7440-28-0	mg/kg	0.078	0.05	0.020 J	0.075 J	0.029 J	0.066 J	0.036 J	0.066 J	0.043 J	0.025 J	< 0.54 U	0.046 J
Vanadium	7440-62-2	mg/kg	39	7.8	9.8	33	12	22	28	31	17	15	12	19
Zinc	7440-66-6	mg/kg	2300	46	150 EB	510 EB	140 EB	170 EB	610 EB	350 EB	140 EB	200 EB	97 EB	250 EB
Mercury	7439-97-6	mg/kg	2.3	0.013	0.17 EB	1.0 EB	0.36 EB	0.42 EB	0.54 EB	1.5 EB	0.46 EB	0.18 EB	0.32 EB	0.50 EB

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0010-PLS1	23D-0011-PLS1	23D-0012-PLS1	23D-0012-PLS1	23D-0013-PLS1	23D-0014-PLS1	23D-0015-PLS1	23D-0016-PLS1	23D-0017-PLS1	23D-0018-PLS1
					Sample Name	23D-0010-PLS1-AS	23D-0011-PLS1-AS	23D-0012-PLS1-AS	23D-0012-PLS1-BS	23D-0013-PLS1-AS	23D-0014-PLS1-AS	23D-0015-PLS1-AS	23D-0016-PLS1-AS	23D-0017-PLS1-AS	23D-0018-PLS1-AS
					Sample Date	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/21/2023	7/21/2023	7/21/2023	7/21/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.15 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 0.3 ft	0 - 1.1 ft	0 - 0.3 ft	0 - 0.3 ft	0 - 0.7 ft	0 - 0.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	-	9.3	< 5.6 U	< 6.6 U	-	35	-	-	< 7.0 U	< 8.2 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	-	27	< 5.6 U	5.5 J	-	15	-	-	< 7.0 U	< 8.2 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,2-Dichloroethane	107-06-2	ug/kg	460	400	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
2-HEXANONE	591-78-6	ug/kg	20000	360	-	< 18 U	< 11 U	< 13 U	-	< 23 U	-	-	< 14 U	< 16 U
ACETONE	67-64-1	ug/kg	7000000	1200	-	< 18 U	< 11 U	< 13 U	-	< 23 U	-	-	< 14 U	< 16 U
Benzene	71-43-2	ug/kg	1200	120	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
BROMOFORM	75-25-2	ug/kg	19000	70	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
BROMOMETHANE	74-83-9	ug/kg	680	2	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Chlorobenzene	108-90-7	ug/kg	28000	2400	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
CHLOROETHANE	75-00-3	ug/kg	540000		-	< 9.0 U	< 5.6 U	9.4	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Chloroform	67-66-3	ug/kg	320	50	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	4.9 J	< 8.2 U
CHLOROMETHANE	74-87-3	ug/kg	11000		-	< 9.0 UJ	< 5.6 UJ	< 6.6 UJ	-	< 11 UJ	-	-	< 7.0 UJ	< 8.2 UJ
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	-	33	5.6	16	-	16	-	-	< 7.0 U	< 8.2 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Cyclohexane	110-82-7	ug/kg	650000		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Ethylbenzene	100-41-4	ug/kg	5800	270	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
m,p-Xylene	179601-23-1	ug/kg	55000		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
METHYL ACETATE	79-20-9	ug/kg	7800000		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	-	< 18 U	< 11 U	< 13 U	-	< 23 U	-	-	< 14 U	< 16 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		-	< 18 U	< 11 U	< 13 U	-	< 23 U	-	-	< 14 U	< 16 U
Methylcyclohexane	108-87-2	ug/kg	9800		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Methylene Chloride	75-09-2	ug/kg	35000	210	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Styrene	100-42-5	ug/kg	600000	1200	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	34	< 8.2 U
Toluene	108-88-3	ug/kg	490000	150	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	4.9 J	< 8.2 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U
Vinyl Chloride	75-01-4	ug/kg	59	30	-	< 9.0 U	< 5.6 U	< 6.6 U	-	< 11 U	-	-	< 7.0 U	< 8.2 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0010-PLS1	23D-0011-PLS1	23D-0012-PLS1	23D-0012-PLS1	23D-0013-PLS1	23D-0014-PLS1	23D-0015-PLS1	23D-0016-PLS1	23D-0017-PLS1	23D-0018-PLS1
					Sample Name	23D-0010-PLS1-AS	23D-0011-PLS1-AS	23D-0012-PLS1-AS	23D-0012-PLS1-BS	23D-0013-PLS1-AS	23D-0014-PLS1-AS	23D-0015-PLS1-AS	23D-0016-PLS1-AS	23D-0017-PLS1-AS	23D-0018-PLS1-AS
					Sample Date	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/21/2023	7/21/2023	7/21/2023	7/21/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 0.15 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 0.3 ft	0 - 1.1 ft	0 - 0.3 ft	0 - 0.3 ft	0 - 0.7 ft	0 - 0.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 87 U	< 130 U	< 88 U	< 88 U	< 98 U	< 140 U	< 93 U	< 84 U	< 86 U	< 100 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 430 UJ	< 660 UJ	< 440 U	< 440 U	< 480 U	< 680 U	< 460 UJ	< 410 UJ	< 420 UJ	< 510 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 430 UJ	< 660 UJ	< 440 U	< 440 U	< 480 U	< 680 U	< 460 UJ	< 410 UJ	< 420 UJ	< 510 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 220 U	860	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	180 J	< 220 U	< 260 U
Caprolactam	105-60-2	ug/kg	3100000		< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 430 U	< 660 U	< 440 U	< 440 U	170 J	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 430 UJ	< 660 UJ	< 440 U	< 440 U	< 480 U	< 680 U	< 460 UJ	< 410 UJ	< 420 UJ	< 510 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0010-PLS1	23D-0011-PLS1	23D-0012-PLS1	23D-0012-PLS1	23D-0013-PLS1	23D-0014-PLS1	23D-0015-PLS1	23D-0016-PLS1	23D-0017-PLS1	23D-0018-PLS1
				Sample Name	23D-0010-PLS1-AS	23D-0011-PLS1-AS	23D-0012-PLS1-AS	23D-0012-PLS1-BS	23D-0013-PLS1-AS	23D-0014-PLS1-AS	23D-0015-PLS1-AS	23D-0016-PLS1-AS	23D-0017-PLS1-AS	23D-0018-PLS1-AS
				Sample Date	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/20/2023	7/21/2023	7/21/2023	7/21/2023	7/21/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 0.15 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 0.3 ft	0 - 1.1 ft	0 - 0.3 ft	0 - 0.3 ft	0 - 0.7 ft	0 - 0.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Naphthalene	91-20-3	ug/kg	2000	29000	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 220 U	< 340 U	< 220 U	< 220 U	< 250 U	< 350 U	< 240 U	< 210 U	< 220 U	< 260 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	790	< 430 U	< 660 U	< 440 U	< 440 U	< 480 U	< 680 U	< 460 U	< 410 U	< 420 U	< 510 U
PYRENE	129-00-0	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	140	< 4.3 U	4.2 J	5.4	< 4.4 U	24	4.2 J	7.3	7.8	9.1	14
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	< 4.3 U	4.0 J	5.1	< 4.4 U	31	4.3 J	6.9	9.1	10	13
Acenaphthene	83-32-9	ug/kg	360000	29000	< 4.3 U	20	28	5.7	70	18	29	28	35	59
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	5.3	19	11	3.0 J	20	23	19	20	50	31
ANTHRACENE	120-12-7	ug/kg	1800000	29000	17 J	78 J	230 J	33 J	180 J	48 J	140 J	120 J	200 J	430 J
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	67	280	410	140	370	290	360	380	470	530
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	63	260	370	130	320	320	340	390	380	490
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	87	350	490	170	500	450	460	440	450	610
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	46	180	220	68	240	240	250	270	230	310
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	35	120	170	63	150	160	150	160	170	210
CHRYSENE	218-01-9	ug/kg	110000	1100	74	290	410	160	410	350	400	390	460	520
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	11	39	66	20	71	55 J-	46	63	63	82
FLUORANTHENE	206-44-0	ug/kg	240000	1100	130	430	1600	590	850	470	740	460	870	1900
FLUORENE	86-73-7	ug/kg	240000	29000	3.2 J	24	34	9.0	75	19	34	35	59	68
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	54	200	260	89	240	260	260	270	250	330
Naphthalene	91-20-3	ug/kg	2000	29000	< 4.3 U	5.8 J	9.8	< 4.4 U	72	9.5	11	12	16	19
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	< 8.7 U	< 13 U	< 8.9 UJ	< 8.9 UJ	< 9.8 UJ	< 14 UJ	< 9.3 U	< 8.4 U	< 8.6 U	< 10 UJ
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	41	200	630	230	740	180	360	260	480	940
PYRENE	129-00-0	ug/kg	180000	1100	79 J	350 J	530 J	180 J	520 J	360 J	490 J	350 J	600 J	650 J
Asbestos														
ASBESTOS	1332-21-4	%			< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	0.5

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
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					Location	23D-0020-PLS1	23D-0020-PLS1	23D-0021-PLS1	23D-0022-PLS1	23D-0023-PLS1	23D-0024-PLS1	23D-0025-PLS1	23D-0026-PLS1	23D-0026-PLS1	23D-0027-PLS1
					Sample Name	23D-0020-PLS1-AS	23D-0020-PLS1-AT	23D-0021-PLS1-AS	23D-0022-PLS1-AS	23D-0023-PLS1-AS	23D-0024-PLS1-AS	23D-0025-PLS1-AS	23D-0026-PLS1-AS	23D-0026-PLS1-BS	23D-0027-PLS1-AS
					Sample Date	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/25/2023	7/25/2023	7/25/2023
					Sample Type	N	FD	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	461	286	819	28.8	970	308	110	2.22 J	0.562 J+	17.0
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	10.4 J	6.82 J	23.5 J	0.635 J	17.0 J	5.84 J	2.16 J	< 0.104 U	< 0.0873 U	0.256 JN
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	4.34 J+	3.06 J+	8.04 J+	0.653 JN	11.5 J+	3.75 J+	2 J+	0.423 J+	< 0.239 U	0.424 JN
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	27.5 J	21.4 J	74.4 J	1.83 J	35.5 J	13.0 J	4.51 J	< 0.126 U	0.147 JN	0.768 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	28.1 J+	17.0 J+	45.4 J+	1.47 JN	53.1 J+	18.8 J+	6.68 J+	0.375 JN	0.159 JN	1.34 J
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	13.0 J+	9.19 J+	29.1 J+	0.877 J+	19.3 J+	6.53 J+	2.35 J+	< 0.131 U	0.193 J+	0.53 J+
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	11.1	7.78	21.2	0.927 JN	29.2	11.1	3.93	< 0.304 U	< 0.146 U	0.649 J
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 0.312 U	< 0.427 U	< 0.577 U	< 0.242 U	< 0.746 U	< 0.457 U	< 0.275 U	< 0.149 U	< 0.213 U	< 0.188 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	2.59 JN	1.81 JN	5.48 JN	< 0.358 UJ	4.39 JN	1.96 JN	0.876 J	< 0.148 UJ	< 0.131 UJ	< 0.212 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	7.34 J+	6.71 J+	23.6 J+	< 0.197 U	4.87 J+	2.41 J+	0.828 J+	< 0.132 U	0.243 J+	0.273 J+
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	214	140	359	17.4	562	204	68.3	0.763 J	0.336 J	15.1
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	17.5 J	12.1 J	31.8 J	0.724 J	18.3 J	6.22 J	2.36 J	< 0.135 U	0.134 J	0.536 JN
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	60.7 J	52.9 J	172 J	0.713 J	17.9 J	7.21 J	2.41 J	< 0.134 U	0.416 J	0.684 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	1 J	< 0.411 UJ	2.42 J+	< 0.401 U	1.15 J+	< 0.792 UJ	< 0.419 U	< 0.976 UJ	< 0.93 UJ	< 0.97 UJ
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	19.0 J	14.2 J	45.5 J	< 0.334 UJ	10.6 J	3.66 JN	2.75 J	< 0.12 U	0.195 JN	0.485 JN
OCDD	3268-87-9	pg/g	16000	10500	4140	2580	7900	186	6780	1840	726	14.8	3.47 J	117
OCDF	39001-02-0	pg/g	16000	10500	230 J	134 J	389	18.7	628	185	78.5	< 0.153 U	< 0.313 U	11.7
Total HpCDD (a)	RA_Total_HpCDD	pg/g			461	286	819	28.8	970	308	110	2.22	0.562	17.0
Total HpCDF (a)	RA_Total_HpCDF	pg/g			224	147	383	18.0	579	210	70.5	0.763	0.336	15.4
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		43.5	27.8	74.6	3.05	93.8	33.7	12.6	0.798	0.159	2.41
Total HxCDF (a)	RA_Total_HxCDF	pg/g			58.0	42.7	135	3.43	73.1	25.8	9.22	< 0.149 U	0.474	1.83
Total PeCDD (a)	RA_Total_PeCDD	pg/g			2.59	1.81	5.48	< 0.358 U	4.39	1.96	0.876	< 0.148 U	< 0.131 U	< 0.212 U
Total PeCDF (a)	RA_Total_PeCDF	pg/g			68.0	59.6	196	0.713	22.8	9.62	3.24	< 0.134 U	0.659	0.957
Total TCDD (a)	RA_Total_TCDD	pg/g			1	< 0.411 U	2.42	< 0.401 U	1.15	< 0.792 U	< 0.419 U	< 0.976 U	< 0.93 U	< 0.97 U
Total TCDF (a)	RA_Total_TCDF	pg/g			19.0	14.2	45.5	< 0.334 U	10.6	3.66	2.75	< 0.12 U	0.195	0.485
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	41	6.82 J	4.61 J	11.2 J	< 0.0372 U	7.35 J	1.78 J	1.86 J	< 0.0367 U	< 0.0350 U	< 0.0365 U
PCB-002	2051-61-8	ng/g	230	41	0.842 JEB	< 0.0539 U	0.730 JEB	< 0.0536 U	< 0.0531 U	< 0.0541 U	< 0.0541 U	< 0.0529 U	< 0.0504 U	< 0.0526 U
PCB-003	2051-62-9	ng/g	230	41	4.63 J	2.66 J	7.06 J	< 0.0522 U	3.74 J	0.968 J	0.800 J	< 0.0516 U	< 0.0491 U	< 0.0512 U
PCB-004/010	PCB-4/10	ng/g	230	41	63.5 J	40.4 J	76.6 J	1.26 J	20.8	3.22 J	3.41 J	< 0.0922 U	< 0.0878 U	1.53 J
PCB-005/008	PCB-5/8	ng/g	230	41	193 J	109 J	202 J	1.09 J	19.0 J	4.38 J	5.20 J	< 0.0881 U	< 0.0839 U	1.14 J
PCB-006	25569-80-6	ng/g	230	41	93.3 J	40.6 J	60.1 J	0.273 J	3.03 J	0.767 J	0.844 J	< 0.0514 U	< 0.0489 U	< 0.0510 U
PCB-007/009	PCB-7/9	ng/g	230	41	11.9 J	6.53 J	10.6 J	< 0.0902 U	0.631 J	< 0.0910 U	< 0.0891 U	< 0.0891 U	< 0.0848 U	< 0.0885 U
PCB-011	2050-67-1	ng/g	230	41	13.1 JEB	5.22 JEB	11.8 JEB	< 0.0497 U	0.725 JEB	< 0.0501 U	< 0.0501 U	< 0.0490 U	< 0.0467 U	< 0.0487 U
PCB-012/013	PCB-12/13	ng/g	230	41	52.0 J	21.8	52.2 J	< 0.0894 U	2.06 J	0.753 J	0.507 J	< 0.0883 U	< 0.0840 U	< 0.0877 U
PCB-014	34883-41-5	ng/g	230	41	< 0.0466 U	< 0.0501 U	< 0.0503 U	< 0.0499 U	< 0.0494 U	< 0.0503 U	< 0.0503 U	< 0.0492 U	< 0.0469 U	< 0.0489 U
PCB-015	2050-68-2	ng/g	230	41	311 JEB	166 JEB	376 JEB	1.90 JEB	27.3 JEB	10.3 JEB	8.47 JEB	0.245 JEB	< 0.0430 U	0.726 JEB
PCB-016/032	PCB-16/32	ng/g	230	41	636 JEB	309 JEB	694 JEB	2.94 JEB	16.2 JEB	7.69 JEB	9.43 JEB	< 0.128 U	< 0.122 U	0.728 JEB
PCB-017	37680-66-3	ng/g	230	41	264 J	188 J	326 J	1.80 J	11.0 J	4.44 J	4.91 J	< 0.0564 U	< 0.0537 U	0.852 J
PCB-018	37680-65-2	ng/g	230	41	356 JEB	226 JEB	359 JEB	1.02 JEB	7.16 JEB	3.32 JEB	3.25 JEB	< 0.0652 U	< 0.0621 U	0.651 JEB
PCB-019	38444-73-4	ng/g	230	41	67.6 J	32.9 J	59.1 J	1.17 J	6.56 J	2.67 J	3.38 J	< 0.0443 U	< 0.0422 U	0.293 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	297 JEB	189 JEB	418 JEB	< 0.139 U	4.97 JEB	2.90 JEB	2.22 JEB	< 0.137 U	< 0.130 U	< 0.136 U
PCB-022	38444-85-8	ng/g	230	41	310 J	158 J	570 J	0.592 J	6.33 J	3.30 J	2.27 J	< 0.0486 U	< 0.0463 U	0.238 J
PCB-023/034	PCB-23/34	ng/g	230	41	12.0 J	6.02 J	15.1 J	< 0.0900 U	< 0.0892 U	< 0.0908 U	< 0.0908 U	< 0.0889 U	< 0.0846 U	< 0.0883 U
PCB-024/027	PCB-24/27	ng/g	230	41	101 J	48.0 J	101 J	0.561 J	4.45 J	2.33 J	1.94 J	< 0.0863 U	< 0.0822 U	0.204 J
PCB-025	55712-37-3	ng/g	230	41	274 J	141 J	401 J	0.743 J	5.05 J	2.89 J	2.26 J	< 0.0500 U	< 0.0476 U	< 0.0497 U
PCB-026	38444-81-4	ng/g	230	41	523 J	258 J	694 J	1.04 J	7.30 J	4.33 J	3.51 J	< 0.0426 U	< 0.0405 U	< 0.0423 U
PCB-028	7012-37-5	ng/g	230	41	1760 JEB	1040 JEB	3180 JEB	3.98 JEB	54.0 JEB	22.9 JEB	16.3 JEB	0.885 JEB	< 0.0446 U	2.54 JEB
PCB-029	15862-07-4	ng/g	230	41	1.05 J	0.880 J	1.65 J	< 0.0520 U	< 0.0516 U	< 0.0525 U	< 0.0525 U	< 0.0514 U	< 0.0489 U	< 0.0510 U
PCB-030	35693-92-6	ng/g	230	41	0.613 J	< 0.0479 U	< 0.0481 U	< 0.0477 U	< 0.0473 U	< 0.0481 U	< 0.0481 U	< 0.0471 U	< 0.0448 U	< 0.0468 U
PCB-031	16606-02-3	ng/g	230	41	705 JEB	518 JEB	1100 JEB	2.48 JEB	24.3 EB	13.1 JEB	7.79 JEB	0.431 JEB	< 0.0563 U	1.05 JEB
PCB-035	37680-69-6	ng/g	230	41	22.1 J+	18.5 J+	36.7 J+	< 0.0566 U	< 0.0561 U	< 0.0571 U	< 0.0571 U	< 0.0559 U	< 0.0532 U	< 0.0555 U
PCB-036	38444-87-0	ng/g	230	41	16.1 J	8.72 J	19.8 J	< 0.0483 U	< 0.0478 U	< 0.0487 U	< 0.0487 U	< 0.0477 U	< 0.0454 U	< 0.0473 U
PCB-037	38444-90-5	ng/g	230	41	586 J	475 J	1010 J	0.842 J	15.3 J	8.42 J	3.06 J	< 0.0523 U	< 0.0498 U	0.677 J
PCB-038	53555-66-1	ng/g	230	41	33.2	29.1	65.8 J	< 0.0400 U	1.71 J	< 0.0403 U	< 0.0403 U	< 0.0395 U	< 0.0376 U	< 0.0392 U
PCB-039	38444-88-1	ng/g	230	41	6.75 J	2.86 J	8.31 J	< 0.0245 U	< 0.0243 U	< 0.0247 U	< 0.0248 U	< 0.0242 U	< 0.0231 U	< 0.0241 U
PCB-040	38444-93-8	ng/g	230	41	313 J	209 J	501 J	< 0.0410 U	2.41 J	1.44 J	0.528 J	< 0.0404 U	< 0.0385 U	< 0.0402 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0020-PLS1	23D-0020-PLS1	23D-0021-PLS1	23D-0022-PLS1	23D-0023-PLS1	23D-0024-PLS1	23D-0025-PLS1	23D-0026-PLS1	23D-0026-PLS1	23D-0027-PLS1
					Sample Name	23D-0020-PLS1-AS	23D-0020-PLS1-AT	23D-0021-PLS1-AS	23D-0022-PLS1-AS	23D-0023-PLS1-AS	23D-0024-PLS1-AS	23D-0025-PLS1-AS	23D-0026-PLS1-AS	23D-0026-PLS1-BS	23D-0027-PLS1-AS
					Sample Date	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/25/2023	7/25/2023	7/25/2023
					Sample Type	N	FD	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-041/064	PCB-41/64	ng/g	230	41	773 J	569 J	1580 J	1.31 J	19.6	9.04 J	3.30 J	0.310 J	< 0.0874 U	0.527 J
PCB-042	36559-22-5	ng/g	230	41	761 J	544 J	1240 J	0.880 J	9.73 J	4.97 J	2.31 J	< 0.101 U	< 0.0961 U	< 0.100 U
PCB-043/049	PCB-43/49	ng/g	230	41	2110 JEB	1560 JEB	3620 JEB	4.06 JEB	57.2 JEB	24.3 JEB	12.0 JEB	0.486 JEB	< 0.102 UJ	1.35 JEB
PCB-044	41464-39-5	ng/g	230	41	1790 JEB	1210 JEB	2870 JEB	1.89 JEB	20.5 EB	10.7 JEB	4.25 JEB	0.497 JEB	< 0.0511 U	0.589 JEB
PCB-045	70362-45-7	ng/g	230	41	299 J	169 J	377 J	< 0.0445 UJ	2.75 J	1.50 J	0.898 J	< 0.0439 U	< 0.0418 U	< 0.0437 U
PCB-046	41464-47-5	ng/g	230	41	108 J	60.8 J	142 J	< 0.0520 UJ	< 0.0516 UJ	0.453 J	< 0.0525 UJ	< 0.0514 U	< 0.0489 U	< 0.0510 U
PCB-047/048/075	PCB-47/48/75	ng/g	230	41	1210 J	1070 J	2420 J	3.29 J	53.6 J	19.1 J	11.1 J	< 0.168 U	< 0.160 U	1.41 J
PCB-050	62796-65-0	ng/g	230	41	9.24 J	5.54 J	13.1 J	< 0.0635 U	< 0.0629 U	< 0.0640 U	< 0.0641 U	< 0.0627 U	< 0.0597 U	< 0.0623 U
PCB-051	68194-04-7	ng/g	230	41	141 J	100 J	246 J	0.269 J	3.11 J	1.47 J	1.24 J	< 0.0533 U	< 0.0508 U	< 0.0530 U
PCB-052/073	PCB-52/73	ng/g	230	41	2040 JEB	1430 JEB	3440 JEB	3.84 JEB	43.9 JEB	20.6 JEB	9.66 JEB	0.495 JEB	< 0.117 U	0.967 JEB
PCB-053	41464-41-9	ng/g	230	41	347 J	228 J	529 J	0.750 J	7.58 J	3.84 J	2.66 J	< 0.0475 U	< 0.0452 U	< 0.0472 U
PCB-054	15968-05-5	ng/g	230	41	6.38 J	4.18 J	9.70 J	< 0.0422 U	0.285 J	< 0.0425 U	0.139 J	< 0.0416 U	< 0.0396 U	< 0.0413 U
PCB-055	74338-24-2	ng/g	230	41	20.3	33.3	66.9 J	< 0.0548 U	< 0.0543 U	< 0.0553 U	< 0.0553 U	< 0.0541 U	< 0.0515 U	< 0.0537 U
PCB-056/060	PCB-56/60	ng/g	230	41	857 J	1110 J	2450 J	1.30 J	34.3	16.8 J	3.91 J	0.410 J	< 0.101 U	1.07 J
PCB-057	70424-67-8	ng/g	230	41	26.6	19.3 J	51.9 J	< 0.0423 U	0.471 J	< 0.0427 U	< 0.0427 U	< 0.0418 U	< 0.0398 U	< 0.0415 U
PCB-058	41464-49-7	ng/g	230	41	7.73 J	5.53 J	11.9 J	< 0.0384 U	< 0.0380 U	< 0.0387 U	< 0.0387 U	< 0.0379 U	< 0.0361 U	< 0.0376 U
PCB-059	74472-33-6	ng/g	230	41	144 J	87.6 J	207 J	0.191 J	1.82 J	0.988 J	0.438 J	< 0.0742 U	< 0.0707 U	< 0.0737 U
PCB-061/074	PCB-61/74	ng/g	230	41	506 J	765 J	2070 J	1.47 J	34.0	17.5 J	4.40 J	0.282 J	< 0.0928 U	0.942 J
PCB-062	54230-22-7	ng/g	230	41	< 0.0490 U	< 0.0527 U	< 0.0529 U	< 0.0524 U	< 0.0520 U	< 0.0529 U	< 0.0529 U	< 0.0518 U	< 0.0493 U	< 0.0514 U
PCB-063	74472-34-7	ng/g	230	41	95.3 J	81.5 J	241 J	0.253 J	4.40 J	1.95 J	0.660 J	< 0.0389 U	< 0.0370 U	< 0.0386 U
PCB-065	33284-54-7	ng/g	230	41	0.906 J	0.365 J	0.988 J	< 0.0756 U	< 0.0749 U	< 0.0762 U	< 0.0763 U	< 0.0746 U	< 0.0710 U	< 0.0741 U
PCB-066/080	PCB-66/80	ng/g	230	41	1590 JEB	1730 JEB	3670 JEB	3.12 JEB	78.4 JEB	37.3 JEB	8.16 JEB	0.717 JEB	< 0.0900 U	2.08 JEB
PCB-067	73575-53-8	ng/g	230	41	70.4 J	76.0 J	163 J	< 0.0463 U	1.46 J	0.689 J	< 0.0467 U	< 0.0457 U	< 0.0435 U	< 0.0454 U
PCB-068	73575-52-7	ng/g	230	41	< 0.0512 U	< 0.0551 U	< 0.0553 U	< 0.0548 U	< 0.0543 U	< 0.0553 U	< 0.0553 U	< 0.0541 U	< 0.0515 U	< 0.0537 U
PCB-069	60233-24-1	ng/g	230	41	5.21 J	3.43 J	7.80 J	< 0.0570 U	< 0.0565 U	< 0.0575 U	< 0.0575 U	< 0.0563 U	< 0.0536 U	< 0.0559 U
PCB-070	32598-11-1	ng/g	230	41	1400 J	1650 J	3560 J	2.92 J	67.3 J	32.0 J	6.63 J	0.666 J	< 0.0483 U	1.94 J
PCB-071	41464-46-4	ng/g	230	41	609 J	448 J	1020 J	0.878 J	6.63 J	3.55 J	2.41 J	< 0.0688 U	< 0.0655 U	0.225 J
PCB-072	41464-42-0	ng/g	230	41	24.9	17.8 J	42.6 J	< 0.0617 U	1.93 J	0.607 J	0.296 J	< 0.0609 U	< 0.0580 U	< 0.0605 U
PCB-076	70362-48-0	ng/g	230	41	< 0.0708 U	< 0.0762 U	< 0.0764 U	< 0.0758 U	< 0.0751 U	< 0.0764 U	< 0.0765 U	< 0.0748 U	< 0.0712 U	< 0.0743 U
PCB-077	32598-13-3	ng/g	38.0	41	200 J	226 J	612 J	0.504 J+	12.3 J+	5.68 J+	1.26 J+	< 0.0441 U	< 0.0420 U	0.418 J+
PCB-078	70362-49-1	ng/g	230	41	3.51 J	3.88 J	10.2 J	< 0.0388 U	< 0.0384 U	< 0.0391 U	< 0.0391 U	< 0.0383 U	< 0.0364 U	< 0.0380 U
PCB-079	41464-48-6	ng/g	230	41	7.37 J	9.13 J	24.3	< 0.0487 U	0.736 J	< 0.0491 U	< 0.0491 U	< 0.0480 U	< 0.0457 U	< 0.0477 U
PCB-081	70362-50-4	ng/g	12.0	41	13.9 J+	20.9 J+	62.6 J	< 0.0760 U	1.21 J+	0.540 J+	< 0.0767 U	< 0.0750 U	< 0.0714 U	< 0.0745 U
PCB-082	52663-62-4	ng/g	230	41	145 J	177 J	479 J	< 0.0279 U	6.28 J	2.47 J	0.465 J	< 0.0275 U	< 0.0262 U	< 0.0274 U
PCB-083/109	PCB-83/109	ng/g	230	41	60.6 J	64.2 J	173 J	< 0.120 U	3.51 J	1.29 J	0.347 J	< 0.118 U	< 0.113 U	< 0.118 U
PCB-084	52663-60-2	ng/g	230	41	262 J	264 J	704 J	0.641 J	9.65 J	3.56 J	1.20 J	< 0.0477 U	< 0.0454 U	< 0.0473 U
PCB-085/120	PCB-85/120	ng/g	230	41	241 J	286 J	664 J	0.795 J	20.4	8.05 J	1.86 J	< 0.106 U	< 0.101 U	0.525 J
PCB-086/097	PCB-86/97	ng/g	230	41	270 J	341 J	939 J	0.840 J	16.9 J	6.87 J	1.52 J	< 0.0467 U	< 0.0444 U	0.460 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	41	< 0.0285 U	< 0.0306 U	< 0.0307 U	< 0.0305 U	< 0.0302 U	< 0.0307 U	< 0.0307 U	< 0.0301 U	< 0.0286 U	< 0.0299 U
PCB-088/121	PCB-88/121	ng/g	230	41	4.58 J	6.28 J	16.3 J	< 0.110 U	< 0.109 U	< 0.111 U	< 0.111 U	< 0.109 U	< 0.104 U	< 0.108 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	41	668 J	796 J	2140 J	2.86 J	54.0 J	20.6 J	5.20 J	< 0.118 U	< 0.112 U	1.39 J
PCB-091	68194-05-8	ng/g	230	41	207 J	221 J	587 J	0.598 J	14.2 J	4.46 J	1.65 J	< 0.0609 U	< 0.0580 U	< 0.0605 U
PCB-092	52663-61-3	ng/g	230	41	139 J	144 J	391 J	0.568 J	12.9 J	4.06 J	1.42 J	< 0.0268 U	< 0.0255 U	< 0.0266 U
PCB-093/095	PCB-93/95	ng/g	230	41	614 J	618 J	1610 J	2.13 J	38.4	12.3 J	4.00 J	< 0.0787 U	< 0.0749 U	0.683 J
PCB-094	73575-55-0	ng/g	230	41	12.5 J	13.0 J	34.1	< 0.0910 U	0.769 J	< 0.0918 U	< 0.0918 U	< 0.0898 U	< 0.0855 U	< 0.0893 U
PCB-096	73575-54-9	ng/g	230	41	19.5	18.4 J	49.2 J	< 0.0429 U	0.544 J	< 0.0433 U	< 0.0433 U	< 0.0424 U	< 0.0404 U	< 0.0421 U
PCB-098/102	PCB-98/102	ng/g	230	41	74.5 J	78.9 J	204 J	< 0.0796 U	2.63 J	0.910 J	0.404 J	< 0.0785 U	< 0.0747 U	< 0.0780 U
PCB-099	38380-01-7	ng/g	230	41	417 J	511 J	1420 J	1.55 J	39.0	14.4 J	3.52 J	< 0.0434 U	< 0.0413 U	0.961 J
PCB-100	39485-83-1	ng/g	230	41	6.41 J	6.68 J	18.3 J	< 0.0485 U	1.03 J	< 0.0489 U	< 0.0489 U	< 0.0479 U	< 0.0456 U	< 0.0475 U
PCB-103	60145-21-3	ng/g	230	41	10.7 J	10.3 J	27.1	< 0.0501 U	0.985 J	< 0.0505 U	< 0.0505 U	< 0.0494 U	< 0.0470 U	< 0.0491 U
PCB-104	56558-16-8	ng/g	230	41	0.253 J	0.280 J	0.876 J	< 0.0463 U	< 0.0459 U	< 0.0467 U	< 0.0467 U	< 0.0457 U	< 0.0435 U	< 0.0454 U
PCB-105/127	PCB-105/127	ng/g	120	41	328 J	501 J	1530 J	1.26 J+	29.3 J+	14.6 J+	2.54 J+	< 0.0775 U	< 0.0738 U	1.02 J
PCB-106/118	PCB-106/118	ng/g	120	41	646 J	828 J	2490 J	2.95 J	64.0 J	27.8 J	5.94 J	< 0.0926 U	< 0.0881 U	2.03 J
PCB-107/108	PCB-107/108	ng/g	230	41	66.2 J	73.3 J	223 J	< 0.0964 U	5.72 J	2.46 J	< 0.0972 U	< 0.0951 U	< 0.0906 U	< 0.0945 U
PCB-110	38380-03-9	ng/g	230	41	978 J	1070 J	2930 J	3.65 J	76.5 J	27.0 J	7.50 J	0.318 J	< 0.0422 UJ	2.13 J
PCB-111/117	PCB-111/117	ng/g	230	41	322 J	409 J	1150 J	1.14 J	22.5	8.72 J	2.21 J	< 0.135 U	< 0.128 U	0.577 J
PCB-112	74472-36-9	ng/g	230	41	5.19 J	5.47 J	14.8 J	< 0.0477 U	< 0.0473 U	< 0.0481 U	< 0.0481 U	< 0.0471 U	< 0.0448 U	< 0.0468 U
PCB-113	68194-10-5	ng/g	230	41	5.05 J	4.87 J	12.8 J	< 0.0501 U	< 0.0496 U	< 0.0505 U	< 0.0505 U	< 0.0494 U	< 0.0470 U	< 0.0491 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0020-PLS1	23D-0020-PLS1	23D-0021-PLS1	23D-0022-PLS1	23D-0023-PLS1	23D-0024-PLS1	23D-0025-PLS1	23D-0026-PLS1	23D-0026-PLS1	23D-0027-PLS1
				Sample Name	23D-0020-PLS1-AS	23D-0020-PLS1-AT	23D-0021-PLS1-AS	23D-0022-PLS1-AS	23D-0023-PLS1-AS	23D-0024-PLS1-AS	23D-0025-PLS1-AS	23D-0026-PLS1-AS	23D-0026-PLS1-BS	23D-0027-PLS1-AS
				Sample Date	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/25/2023	7/25/2023	7/25/2023
				Sample Type	N	FD	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-114	74472-37-0	ng/g	120	41	22.9	36.2	109 J	< 0.0416 U	1.95 J	0.999 J	< 0.0419 U	< 0.0410 U	< 0.0390 U	< 0.0407 U
PCB-119	56558-17-9	ng/g	230	41	32.3	31.9	88.3 J	< 0.0550 U	3.22 J	1.09 J	0.361 J	< 0.0543 U	< 0.0517 U	< 0.0539 U
PCB-122	76842-07-4	ng/g	230	41	11.5 J	17.8 J	54.1 J	< 0.0350 U	1.21 J	< 0.0353 U	< 0.0353 U	< 0.0346 U	< 0.0329 U	< 0.0343 U
PCB-123	65510-44-3	ng/g	120	41	20.1 J+	28.3 J+	90.2 J	< 0.0325 U	2.57 J+	0.999 J+	< 0.0327 U	< 0.0320 U	< 0.0305 U	< 0.0318 U
PCB-124	70424-70-3	ng/g	230	41	22.5	33.5	104 J	< 0.0437 U	2.74 J	1.02 J	< 0.0441 U	< 0.0432 U	< 0.0411 U	< 0.0429 U
PCB-125	74472-39-2	ng/g	230	41	6.24 J	7.68 J	21.2	< 0.0479 U	< 0.0475 U	< 0.0483 U	< 0.0483 U	< 0.0473 U	< 0.0450 U	< 0.0470 U
PCB-126	57465-28-8	ng/g	0.0360	41	5.11 J+	5.74 J+	21.6 J+	< 0.0681 U	< 0.0675 U	< 0.0686 U	< 0.0687 U	< 0.0672 U	< 0.0640 U	< 0.0667 U
PCB-128	38380-07-3	ng/g	230	41	52.0 J	58.0 J	217 J	0.477 J	10.8 J	4.03 J	1.07 J	< 0.0475 U	< 0.0452 U	0.205 J
PCB-129	55215-18-4	ng/g	230	41	12.6 J	16.9 J	62.9 J	< 0.0528 U	2.37 J	< 0.0533 U	< 0.0533 U	< 0.0522 U	< 0.0496 U	< 0.0518 U
PCB-130	52663-66-8	ng/g	230	41	20.4	20.5	73.0 J	< 0.0416 U	3.45 J	1.31 J	0.365 J	< 0.0410 U	< 0.0390 U	< 0.0407 U
PCB-131/142	PCB-131/142	ng/g	230	41	4.55 J	5.57 J	18.4 J	< 0.102 U	< 0.101 U	< 0.103 U	< 0.103 U	< 0.101 U	< 0.0961 U	< 0.100 U
PCB-132/168	PCB-132/168	ng/g	230	41	91.3 J	101 J	353 J	0.686 J	15.0 J	4.79 J	1.49 J	< 0.118 U	< 0.113 U	0.345 J
PCB-133	35694-04-3	ng/g	230	41	4.09 J	3.68 J	12.5 J	< 0.0372 U	< 0.0369 U	< 0.0375 U	< 0.0375 U	< 0.0367 U	< 0.0350 U	< 0.0365 U
PCB-134	52704-70-8	ng/g	230	41	14.0 J	15.4 J	51.1 J	< 0.0985 U	2.59 J	0.666 J	< 0.0994 U	< 0.0973 U	< 0.0926 U	< 0.0966 U
PCB-135/144	PCB-135/144	ng/g	230	41	37.3 J	41.7 J	140 J	< 0.103 U	6.36 J	1.95 J	0.598 J	< 0.102 U	< 0.0972 U	< 0.101 U
PCB-136	38411-22-2	ng/g	230	41	29.9	33.8	108 J	0.218 J	4.60 J	1.25 J	0.471 J	< 0.0852 U	< 0.0811 U	< 0.0846 U
PCB-137	35694-06-5	ng/g	230	41	16.8 J	20.7	77.6 J	< 0.0483 U	3.74 J	1.22 J	0.329 J	< 0.0477 U	< 0.0454 U	< 0.0473 U
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	251 J	284 J	977 J	2.50 J	56.1 J	19.6 J	5.76 J	< 0.153 U	< 0.145 U	1.38 J
PCB-139/149	PCB-139/149	ng/g	230	41	159 J	177 J	602 J	1.41 J	29.2	9.38 J	3.01 J	< 0.141 U	< 0.134 U	0.598 J
PCB-140	59291-64-4	ng/g	230	41	1.74 J	1.66 J	5.62 J	< 0.0704 U	< 0.0698 U	< 0.0710 U	< 0.0711 U	< 0.0695 U	< 0.0662 U	< 0.0691 U
PCB-141	52712-04-6	ng/g	230	41	36.8	49.9 J	179 J	< 0.0495 U	7.69 J	2.69 J	0.706 J	< 0.0488 U	< 0.0465 U	< 0.0485 U
PCB-143	68194-15-0	ng/g	230	41	1.81 J	1.93 J	6.75 J	< 0.0635 U	< 0.0629 U	< 0.0640 U	< 0.0641 U	< 0.0627 U	< 0.0597 U	< 0.0623 U
PCB-145	74472-40-5	ng/g	230	41	< 0.0783 U	0.331 J	1.14 J	< 0.0839 U	< 0.0831 U	< 0.0846 U	< 0.0846 U	< 0.0828 U	< 0.0788 U	< 0.0823 U
PCB-146	51908-16-8	ng/g	230	41	29.3	28.0	96.8 J	0.228 J	5.32 J	1.78 J	0.474 J	< 0.0561 U	< 0.0534 U	< 0.0557 U
PCB-147	68194-13-8	ng/g	230	41	6.64 J	7.53 J	25.1	< 0.0740 U	1.72 J	0.512 J	< 0.0747 U	< 0.0730 U	< 0.0695 U	< 0.0726 U
PCB-148	74472-41-6	ng/g	230	41	< 0.0724 U	0.303 J	1.00 J	< 0.0776 U	< 0.0769 U	< 0.0782 U	< 0.0783 U	< 0.0766 U	< 0.0729 U	< 0.0761 U
PCB-150	68194-08-1	ng/g	230	41	0.356 J	0.383 J	1.42 J	< 0.0784 U	< 0.0776 U	< 0.0790 U	< 0.0791 U	< 0.0773 U	< 0.0736 U	< 0.0768 U
PCB-151	52663-63-5	ng/g	230	41	38.4 J	43.6 J	141 J	0.270 J	6.85 J	2.11 J	0.641 J	< 0.0561 U	< 0.0534 U	< 0.0557 U
PCB-152	68194-09-2	ng/g	230	41	0.705 J	0.856 J	2.60 J	< 0.0916 U	< 0.0908 U	< 0.0924 U	< 0.0924 U	< 0.0904 U	< 0.0861 U	< 0.0898 U
PCB-153	35065-27-1	ng/g	230	41	152 J	168 J	610 J	1.52 J	33.5	11.2 J	3.40 J	< 0.0492 U	< 0.0469 U	0.866 J
PCB-154	60145-22-4	ng/g	230	41	3.47 J	3.19 J	10.2 J	< 0.0546 U	0.687 J	< 0.0551 U	< 0.0551 U	< 0.0539 U	< 0.0513 U	< 0.0536 U
PCB-155	33979-03-2	ng/g	230	41	< 0.0440 U	< 0.0473 U	< 0.0475 U	< 0.0471 U	< 0.0467 U	< 0.0475 U	< 0.0475 U	< 0.0465 U	< 0.0443 U	< 0.0462 U
PCB-156	38380-08-4	ng/g	120	41	26.2 J-	32.5 J-	133 J	< 0.0396 R	4.66 J-	1.97 J-	0.454 J-	< 0.0391 R	< 0.0372 R	0.115 J-
PCB-157	69782-90-7	ng/g	120	41	7.11 J	8.51 J	33.3 J	< 0.0550 UJ	1.52 J	0.604 J	< 0.0555 UJ	< 0.0543 UJ	< 0.0517 UJ	< 0.0539 UJ
PCB-158/160	PCB-158/160	ng/g	230	41	27.2	32.3	122 J	0.215 J	5.20 J	1.79 J	0.445 J	< 0.119 U	< 0.113 U	0.124 J
PCB-159	39635-35-3	ng/g	230	41	1.09 J	1.29 J	4.53 J	< 0.0760 U	< 0.0753 U	< 0.0766 U	< 0.0767 U	< 0.0750 U	< 0.0714 U	< 0.0745 U
PCB-161	74472-43-8	ng/g	230	41	< 0.0663 U	< 0.0714 U	< 0.0716 U	< 0.0710 U	< 0.0704 U	< 0.0716 U	< 0.0717 U	< 0.0701 U	< 0.0668 U	< 0.0697 U
PCB-162	39635-34-2	ng/g	230	41	1.25 J	1.54 J	5.71 J	< 0.0560 U	< 0.0555 U	< 0.0565 U	< 0.0565 U	< 0.0553 U	< 0.0526 U	< 0.0549 U
PCB-165	74472-46-1	ng/g	230	41	< 0.0717 U	< 0.0772 U	0.578 J	< 0.0768 U	< 0.0761 U	< 0.0774 U	< 0.0775 U	< 0.0758 U	< 0.0721 U	< 0.0753 U
PCB-166	41411-63-6	ng/g	230	41	1.34 J	1.82 J	6.76 J	< 0.0661 U	< 0.0655 U	< 0.0666 U	< 0.0667 U	< 0.0652 U	< 0.0621 U	< 0.0648 U
PCB-167	52663-72-6	ng/g	120	41	9.24 J	11.0 J	42.9 J	< 0.0509 U	2.06 J	0.740 J	0.159 J	< 0.0502 U	< 0.0478 U	< 0.0499 U
PCB-169	32774-16-6	ng/g	0.120	41	< 0.0523 U	< 0.0563 U	< 0.0564 U	< 0.0560 U	< 0.0555 U	< 0.0565 U	< 0.0565 U	< 0.0553 U	< 0.0526 U	< 0.0549 U
PCB-170/190	PCB-170/190	ng/g	230	41	41.5 J	47.0 J	185 J	< 0.0922 U	8.20 J	3.30 J	0.871 J	< 0.0910 U	< 0.0867 U	0.238 J
PCB-171	52663-71-5	ng/g	230	41	10.5 J	11.2 J	43.3 J	< 0.0732 U	2.05 J	0.701 J	< 0.0739 U	< 0.0723 U	< 0.0688 U	< 0.0718 U
PCB-172/192	PCB-172/192	ng/g	230	41	5.44 J	5.76 J	22.3	< 0.122 U	1.08 J	0.389 J	< 0.123 U	< 0.120 U	< 0.114 U	< 0.119 U
PCB-173	68194-16-1	ng/g	230	41	< 0.0765 U	1.04 J	3.83 J	< 0.0819 U	< 0.0812 U	< 0.0826 U	< 0.0826 U	< 0.0809 U	< 0.0770 U	< 0.0803 U
PCB-174	38411-25-5	ng/g	230	41	36.2	39.0	146 J	< 0.103 U	6.45 J	2.48 J	0.569 J	< 0.101 U	< 0.0965 U	0.173 J
PCB-175	40186-70-7	ng/g	230	41	1.38 J	1.48 J	5.43 J	< 0.0631 U	0.202 J	< 0.0636 U	< 0.0637 U	< 0.0623 U	< 0.0593 U	< 0.0619 U
PCB-176	52663-65-7	ng/g	230	41	4.05 J	4.32 J	15.8 J	< 0.0590 U	0.657 J	0.236 J	< 0.0595 U	< 0.0582 U	< 0.0554 U	< 0.0578 U
PCB-177	52663-70-4	ng/g	230	41	21.0	21.8	81.9 J	< 0.0736 U	3.85 J	1.57 J	0.355 J	< 0.0727 U	< 0.0692 U	< 0.0722 U
PCB-178	52663-67-9	ng/g	230	41	7.20 J	7.48 J	27.0	< 0.0924 U	1.36 J	0.477 J	< 0.0932 U	< 0.0912 U	< 0.0868 U	< 0.0906 U
PCB-179	52663-64-6	ng/g	230	41	12.9 J	13.6 J	48.9 J	< 0.0489 U	2.21 J	0.716 J	0.204 J	< 0.0482 U	< 0.0459 U	< 0.0479 U
PCB-180	35065-29-3	ng/g	230	41	73.4 J	81.9 J	322 J	0.545 J	13.6 J	5.11 J	1.30 J	< 0.0643 U	< 0.0612 U	0.412 J
PCB-181	74472-47-2	ng/g	230	41	< 0.0523 U	< 0.0563 U	< 0.0564 U	< 0.0560 U	< 0.0555 U	< 0.0565 U	< 0.0565 U	< 0.0553 U	< 0.0526 U	< 0.0549 U
PCB-182/187	PCB-182/187	ng/g	230	41	40.3 J	42.2 J	152 J	0.255 J	7.15 J	2.70 J	0.775 J	< 0.145 U	< 0.138 U	0.230 J
PCB-183	52663-69-1	ng/g	230	41	17.9 J	19.1 J	72.4 J	< 0.0732 U	3.10 J	1.11 J	0.258 J	< 0.0723 U	< 0.0688 U	< 0.0718 U
PCB-184	74472-48-3	ng/g	230	41	< 0.0495 U	< 0.0533 U	< 0.0535 U	< 0.0530 U	< 0.0525 U	< 0.0535 U	< 0.0535 U	< 0.0523 U	< 0.0498 U	< 0.0520 U
PCB-185	52712-05-7	ng/g	230	41	4.08 J	4.56 J	17.3 J	< 0.0734 U	0.694 J	< 0.0740 U	< 0.0741 U	< 0.0725 U	< 0.0690 U	< 0.0720 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0020-PLS1	23D-0020-PLS1	23D-0021-PLS1	23D-0022-PLS1	23D-0023-PLS1	23D-0024-PLS1	23D-0025-PLS1	23D-0026-PLS1	23D-0026-PLS1	23D-0027-PLS1
				Sample Name	23D-0020-PLS1-AS	23D-0020-PLS1-AT	23D-0021-PLS1-AS	23D-0022-PLS1-AS	23D-0023-PLS1-AS	23D-0024-PLS1-AS	23D-0025-PLS1-AS	23D-0026-PLS1-AS	23D-0026-PLS1-BS	23D-0027-PLS1-AS
				Sample Date	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/25/2023	7/25/2023	7/25/2023
				Sample Type	N	FD	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-186	74472-49-4	ng/g	230	41	< 0.0619 U	< 0.0666 U	< 0.0668 U	< 0.0663 U	< 0.0657 U	< 0.0668 U	< 0.0669 U	< 0.0654 U	< 0.0623 U	< 0.0650 U
PCB-188	74487-85-7	ng/g	230	41	< 0.0567 U	< 0.0611 U	< 0.0612 U	< 0.0608 U	< 0.0602 U	< 0.0612 U	< 0.0613 U	< 0.0600 U	< 0.0571 U	< 0.0596 U
PCB-189	39635-31-9	ng/g	130	41	1.84 J	1.96 J	7.87 J	< 0.0617 U	0.424 J	< 0.0622 U	< 0.0623 U	< 0.0609 U	< 0.0580 U	< 0.0605 U
PCB-191	74472-50-7	ng/g	230	41	1.45 J	1.49 J	6.14 J	< 0.0558 U	0.232 J	< 0.0563 U	< 0.0563 U	< 0.0551 U	< 0.0524 U	< 0.0547 U
PCB-193	69782-91-8	ng/g	230	41	3.73 J	3.66 J	14.5 J	< 0.0704 U	0.659 J	0.270 J	< 0.0711 U	< 0.0695 U	< 0.0662 U	< 0.0691 U
PCB-194	35694-08-7	ng/g	230	41	21.4	23.3	93.1 J	< 0.0891 U	4.12 J	1.53 J	< 0.0898 U	< 0.0879 U	< 0.0837 U	< 0.0873 U
PCB-195	52663-78-2	ng/g	230	41	7.25 J	7.64 J	31.1	< 0.158 U	1.38 J	< 0.159 U	< 0.159 U	< 0.156 U	< 0.148 U	< 0.155 U
PCB-196/203	PCB-196/203	ng/g	230	41	22.2	22.8	91.0 J	< 0.150 U	4.01 J	1.55 J	0.486 J	< 0.148 U	< 0.141 U	< 0.147 U
PCB-197	33091-17-7	ng/g	230	41	0.644 J	0.594 J	2.60 J	< 0.0667 U	< 0.0661 U	< 0.0672 U	< 0.0673 U	< 0.0658 U	< 0.0627 U	< 0.0654 U
PCB-198	68194-17-2	ng/g	230	41	0.945 J	1.15 J	3.96 J	< 0.108 U	< 0.107 U	< 0.109 U	< 0.109 U	< 0.107 U	< 0.102 U	< 0.106 U
PCB-199	52663-75-9	ng/g	230	41	19.2	18.8 J	74.4 J	< 0.104 U	3.55 J	1.47 J	0.443 J	< 0.103 U	< 0.0978 U	< 0.102 U
PCB-200	52663-73-7	ng/g	230	41	2.47 J	2.49 J	9.13 J	< 0.0530 U	0.383 J	< 0.0535 U	< 0.0535 U	< 0.0523 U	< 0.0498 U	< 0.0520 U
PCB-201	40186-71-8	ng/g	230	41	2.24 J	2.26 J	8.54 J	< 0.0420 U	0.293 J	< 0.0423 U	< 0.0423 U	< 0.0414 U	< 0.0394 U	< 0.0411 U
PCB-202	2136-99-4	ng/g	230	41	3.40 J	3.22 J	12.1 J	< 0.0716 U	0.592 J	< 0.0722 U	< 0.0723 U	< 0.0707 U	< 0.0673 U	< 0.0702 U
PCB-204	74472-52-9	ng/g	230	41	< 0.0819 U	< 0.0881 U	< 0.0884 U	< 0.0877 U	< 0.0869 U	< 0.0884 U	< 0.0884 U	< 0.0865 U	< 0.0824 U	< 0.0860 U
PCB-205	74472-53-0	ng/g	230	41	1.24 J	1.15 J	4.45 J	< 0.0621 U	< 0.0616 U	< 0.0626 U	< 0.0627 U	< 0.0613 U	< 0.0584 U	< 0.0609 U
PCB-206	40186-72-9	ng/g	230	41	8.51 J	8.49 J	29.9	< 0.0596 U	2.71 J	0.951 J	0.311 J	< 0.0588 U	< 0.0560 U	< 0.0584 U
PCB-207	52663-79-3	ng/g	230	41	0.969 J	0.797 J	3.12 J	< 0.0788 U	0.218 J	< 0.0794 U	< 0.0795 U	< 0.0777 U	< 0.0740 U	< 0.0772 U
PCB-208	52663-77-1	ng/g	230	41	2.25 J	2.34 J	6.59 J	< 0.0788 U	0.726 J	0.267 J	< 0.0795 U	< 0.0777 U	< 0.0740 U	< 0.0772 U
PCB-209	2051-24-3	ng/g	230	41	2.56 J	2.44 J	5.11 J	< 0.0453 U	1.83 J	0.590 J	< 0.0457 U	< 0.0447 U	< 0.0426 U	< 0.0444 U
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0	2.56	2.44	5.11	< 0.0453 U	1.83	0.590	< 0.0457 U	< 0.0447 U	< 0.0426 U	< 0.0444 U
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0	283	308	1170	0.800	51.9	19.1	4.33	< 0.145 U	< 0.138 U	1.05
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0	1040	1170	4120	7.52	203	67.6	19.4	< 0.153 U	< 0.145 U	3.63
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0	81.0	83.4	330	< 0.158 U	14.3	4.55	0.929	< 0.156 U	< 0.148 U	< 0.155 U
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14	29300	25700	65100	75.9	1420	572	223	5.74	< 0.16 U	36.6
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0	5620	6610	18300	19.0	431	164	40.1	0.318	< 0.128 U	9.78
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0	738	390	789	4.52	73.5	19.4	18.4	0.245	< 0.0878 U	3.40
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0	12.3	7.27	19.0	< 0.0536 U	11.1	2.75	2.66	< 0.0529 U	< 0.0504 U	< 0.0526 U
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0	11.7	11.6	39.6	< 0.0788 U	3.65	1.22	0.311	< 0.0777 U	< 0.074 U	< 0.0772 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0	15500	13400	31300	26.9	466	215	76.2	3.86	< 0.16 U	11.5
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0	5970	3650	9060	17.2	164	78.3	60.3	1.32	< 0.13 U	7.23
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700		5900	6400	7500	4200	7300	4900	5200	4100	4200	3900
Calcium	7440-70-2	mg/kg			2200	1800	2500	2100	5200	5700	4200	2400	1900	1400
Iron	7439-89-6	mg/kg	5500		12000	14000	9400	6000	11000	4100	4500	3700	5900	5100
Magnesium	7439-95-4	mg/kg			2500	3000	2300	1100	1500	1100	1400	< 900 U	1900	1600
Potassium	7440-09-7	mg/kg			460 J	420 J	610 J	180 J	440 J	280 J	240 J	220 J	370 J	320 J
Sodium	7440-23-5	mg/kg			310 J	300 J	700	560 J	680 J	360 J	210 J	240 J	99 J	140 J
Antimony	7440-36-0	mg/kg	3.1	0.27	0.31 J	0.40 J	< 1.4 UJ	0.14 J	0.36 J	0.71 J	0.31 J	< 1.8 U	< 1.3 U	0.050 J
Arsenic	7440-38-2	mg/kg	0.68	18	2.5	2.5	< 0.69 U	1.4	1.8	2.1	1.2	1.0	1.3	0.93
Barium	7440-39-3	mg/kg	1500	110	29	32	< 6.9 U	41	44	46	43	20	11	19
Beryllium	7440-41-7	mg/kg	16	2.5	0.21 J	0.21 J	< 0.69 U	0.24 J	0.42 J	0.31 J	0.24 J	< 0.90 U	< 0.63 U	< 0.62 U
Cadmium	7440-43-9	mg/kg	0.71	0.36	< 0.61 U	< 0.60 U	< 0.69 U	0.17 J	0.75 J	0.24 J	0.23 J	0.18 J	< 0.63 U	0.35 J
Chromium, Total	7440-47-3	mg/kg	0.3	23	16	19	< 1.4 U	10	21	25	9.2	7.2	8.9	9.7
Cobalt	7440-48-4	mg/kg	2.3	13	2.2	2.3	< 0.69 U	2.1	3.3	2.4	2.4	1.8	5.1	2.8
Copper	7440-50-8	mg/kg	310	28	64	71	< 1.4 U	8.1	27	29	13	3.0	5.7	12
Lead	7439-92-1	mg/kg	200	11	160	150	0.13 J	20	39	50	14	2.1	2.7	7.0
Manganese	7439-96-5	mg/kg	180	220	66 EB	61 EB	< 0.69 U	76 EB	110 EB	97 EB	330 EB	47 EB	78 EB	57 EB
Nickel	7440-02-0	mg/kg	140	38	5.1	7.0	< 0.69 U	2.7	4.3	5.0	4.7	2.3	5.2	4.1
Selenium	7782-49-2	mg/kg	39	0.52	0.88 J	0.76 J	< 3.4 U	0.89 J	1.9 J	1.7 J	1.2 J	1.2 J	0.80 J	< 3.1 U
Silver	7440-22-4	mg/kg	39	4.2	0.12 J	0.17 J	< 0.69 U	0.061 J	0.14 J	0.14 J	0.064 J	0.021 J	0.018 J	0.021 J
Thallium	7440-28-0	mg/kg	0.078	0.05	< 0.61 U	< 0.60 U	< 0.69 U	0.029 J	0.042 J	< 1.2 U	< 0.91 U	< 0.90 U	< 0.63 U	< 0.62 U
Vanadium	7440-62-2	mg/kg	39	7.8	12	13	< 3.4 U	8.5	14	18	12	12	12	7.3
Zinc	7440-66-6	mg/kg	2300	46	60 EB	66 EB	< 3.4 U	15 EB	70 EB	65 EB	73 EB	11 EB	20 EB	21 EB
Mercury	7439-97-6	mg/kg	2.3	0.013	0.46 EB	0.42 EB	0.89 EB	0.024 JEB	0.35 EB	0.088 JEB	0.063 JEB	< 0.18 U	< 0.12 U	0.059 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
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					Location	23D-0020-PLS1	23D-0020-PLS1	23D-0021-PLS1	23D-0022-PLS1	23D-0023-PLS1	23D-0024-PLS1	23D-0025-PLS1	23D-0026-PLS1	23D-0026-PLS1	23D-0027-PLS1
					Sample Name	23D-0020-PLS1-AS	23D-0020-PLS1-AT	23D-0021-PLS1-AS	23D-0022-PLS1-AS	23D-0023-PLS1-AS	23D-0024-PLS1-AS	23D-0025-PLS1-AS	23D-0026-PLS1-AS	23D-0026-PLS1-BS	23D-0027-PLS1-AS
					Sample Date	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/25/2023	7/25/2023	7/25/2023
					Sample Type	N	FD	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
2-HEXANONE	591-78-6	ug/kg	20000	360	< 15 U	< 11 U	< 18 U	< 19 U	< 24 U	< 37 U	< 22 U	< 22 U	< 15 U	< 10 U
ACETONE	67-64-1	ug/kg	7000000	1200	< 15 U	< 11 U	< 18 U	< 19 U	< 24 U	47 J+	< 22 U	140	53 J+	< 10 U
Benzene	71-43-2	ug/kg	1200	120	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
BROMOFORM	75-25-2	ug/kg	19000	70	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
BROMOMETHANE	74-83-9	ug/kg	680	2	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Chloroform	67-66-3	ug/kg	320	50	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 7.6 UJ	< 5.7 UJ	< 8.8 UJ	< 9.7 UJ	< 12 UJ	< 18 UJ	< 11 UJ	< 11 UJ	< 7.7 UJ	< 5.1 UJ
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Cyclohexane	110-82-7	ug/kg	650000		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Ethylbenzene	100-41-4	ug/kg	5800	270	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	< 15 U	< 11 U	< 18 U	< 19 U	< 24 U	< 37 U	< 22 U	< 22 U	< 15 U	< 10 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 15 U	< 11 U	< 18 U	< 19 U	< 24 U	< 37 U	< 22 U	< 22 U	< 15 U	< 10 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Methylene Chloride	75-09-2	ug/kg	35000	210	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	17	< 7.7 U	< 5.1 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Styrene	100-42-5	ug/kg	600000	1200	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Toluene	108-88-3	ug/kg	490000	150	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U
Vinyl Chloride	75-01-4	ug/kg	59	30	< 7.6 U	< 5.7 U	< 8.8 U	< 9.7 U	< 12 U	< 18 U	< 11 U	< 11 U	< 7.7 U	< 5.1 U

Table 15
Floodplain Soil Analytical Results
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Lower Neponset River
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				Location	23D-0020-PLS1	23D-0020-PLS1	23D-0021-PLS1	23D-0022-PLS1	23D-0023-PLS1	23D-0024-PLS1	23D-0025-PLS1	23D-0026-PLS1	23D-0026-PLS1	23D-0027-PLS1
				Sample Name	23D-0020-PLS1-AS	23D-0020-PLS1-AT	23D-0021-PLS1-AS	23D-0022-PLS1-AS	23D-0023-PLS1-AS	23D-0024-PLS1-AS	23D-0025-PLS1-AS	23D-0026-PLS1-AS	23D-0026-PLS1-BS	23D-0027-PLS1-AS
				Sample Date	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/25/2023	7/25/2023	7/25/2023
				Sample Type	N	FD	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 90 U	< 89 U	< 100 U	< 120 U	< 150 U	< 220 U	< 170 U	< 140 U	< 88 U	< 81 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 UJ	< 220 UJ	< 200 UJ
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 230 U	< 230 U	< 260 U	1600	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
Caprolactam	105-60-2	ug/kg	3100000		< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 UJ
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 230 UJ	< 230 UJ	< 260 UJ	< 290 UJ	< 370 UJ	< 550 UJ	< 430 UJ	< 350 UJ	< 220 UJ	< 200 UJ
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U

Table 15
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				Location	23D-0020-PLS1	23D-0020-PLS1	23D-0021-PLS1	23D-0022-PLS1	23D-0023-PLS1	23D-0024-PLS1	23D-0025-PLS1	23D-0026-PLS1	23D-0026-PLS1	23D-0027-PLS1
				Sample Name	23D-0020-PLS1-AS	23D-0020-PLS1-AT	23D-0021-PLS1-AS	23D-0022-PLS1-AS	23D-0023-PLS1-AS	23D-0024-PLS1-AS	23D-0025-PLS1-AS	23D-0026-PLS1-AS	23D-0026-PLS1-BS	23D-0027-PLS1-AS
				Sample Date	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/24/2023	7/25/2023	7/25/2023	7/25/2023
				Sample Type	N	FD	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Naphthalene	91-20-3	ug/kg	2000	29000	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 230 U	< 230 U	< 260 U	< 290 U	< 370 U	< 550 U	< 430 U	< 350 U	< 220 U	< 200 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	790	< 450 U	< 440 U	< 510 U	< 570 U	< 730 U	< 1100 U	< 840 U	< 670 U	< 430 U	< 400 U
PYRENE	129-00-0	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	140	3.9 J	10	5.4	< 5.6 U	< 7.3 U	< 11 U	< 8.4 U	< 6.7 U	< 4.3 U	< 4.0 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	3.8 J	9.6	5.8	< 5.6 U	< 7.3 U	< 11 U	< 8.4 U	< 6.7 U	< 4.3 U	< 4.0 U
Acenaphthene	83-32-9	ug/kg	360000	29000	13 J	33 J	16	< 5.6 U	8.8	11	< 8.4 U	< 6.7 U	< 4.3 U	< 4.0 U
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	35	41	34	4.0 J	11	28	< 8.4 U	< 6.7 U	< 4.3 U	< 4.0 U
ANTHRACENE	120-12-7	ug/kg	1800000	29000	85 J	160 J	130 J	10 J	36 J	58 J	7.0 J	< 6.7 U	< 4.3 U	< 4.0 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	250	380	260	43	200	160	28	< 6.7 U	< 4.3 U	7.4
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	240	360	240	47	220	160	31	< 6.7 U	< 4.3 U	8.6
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	300	410	300	73	340	190	45	< 6.7 U	< 4.3 U	12
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	150	230	150	35	190	120	21	< 6.7 U	< 4.3 U	7.4
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	110	140	100	23	94	80	16	< 6.7 U	< 4.3 U	4.0
CHRYSENE	218-01-9	ug/kg	110000	1100	240	350	250	52	270	170	32	< 6.7 U	< 4.3 U	9.9
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	41	50	31	8.2	32	26	4.5 J	< 6.7 U	< 4.3 U	< 4.0 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	500	790	530	160	480	320	70	6.0 J	< 4.3 U	12
FLUORENE	86-73-7	ug/kg	240000	29000	23 J	46 J	36	< 5.6 U	12	19	< 8.4 U	< 6.7 U	< 4.3 U	< 4.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	170	250	170	39	190	130	22	< 6.7 U	< 4.3 U	7.3
Naphthalene	91-20-3	ug/kg	2000	29000	6.4	15	8.9	< 5.6 U	6.2 J	5.9 J	< 8.4 U	< 6.7 U	< 4.3 U	< 4.0 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	< 9.0 U	< 8.9 U	< 10 U	< 11 U	< 15 U	< 22 U	< 17 U	< 14 U	< 8.8 U	< 8.1 U
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	230 J	440 J	350	33	190	170	29	< 6.7 U	< 4.3 U	4.2
PYRENE	129-00-0	ug/kg	180000	1100	310 J	530 J	350 J	58 J	290 J	180 J	35 J	< 6.7 UJ	< 4.3 UJ	8.7 J
Asbestos														
ASBESTOS	1332-21-4	%			< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0028-PLS1	23D-0029-PLS1	23D-0030-PLS1	23D-0031-B1S1	23D-0032-PLS1	23D-0032-PLS1	23D-0032-PLS1	23D-0033-PLS1	23D-0037-PLS1	23D-0040-PLS1
					Sample Name	23D-0028-PLS1-AS	23D-0029-PLS1-AS	23D-0030-PLS1-AS	23D-0031-B1S1-AS	23D-0032-PLS1-AS	23D-0032-PLS1-BS	23D-0032-PLS1-BT	23D-0033-PLS1-AS	23D-0037-PLS1-AS	23D-0040-PLS1-AS
					Sample Date	7/25/2023	7/25/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/27/2023	7/27/2023
					Sample Type	N	N	N	N	N	N	FD	N	N	N
					Depth Interval	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	15.4	776	10.5	68.5	2.35	0.714 JN	2.41 J	113	1400 J	283 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	0.572 J	13.9	< 0.221 UJ	1.58 J	< 0.109 U	< 0.109 U	2.35 J	2.47	29.8	4.20 J
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	0.353 JN	7.76	0.551 JN	1.29 J+	< 0.235 U	< 0.211 U	1.64 J+	2.05 J	16.8 J	3.21 J
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	1.43 J	25.4	0.502 J	3.13 J	< 0.157 U	< 0.103 UJ	11.8 J	6.35	52.5 J	9.77 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	1.1 J	43.3	0.89 J+	4.17 J+	< 0.256 U	0.272 J	1.41 J	6.1	72.1	16.5
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	1.17 J+	15.6 J+	0.345 J+	1.8 J+	< 0.15 U	< 0.103 UJ	12.9 J	4.14 J+	28.8 J	4.64 J
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	0.55 JN	23.1	0.32 JN	2.16 J	< 0.247 U	< 0.225 U	1.05 JN	3.59	41.7	8.72
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	0.73 J+	< 0.599 U	< 0.227 U	< 0.259 U	< 0.2 U	< 0.211 U	< 0.374 U	< 0.364 U	< 1.01 U	< 0.483 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	0.359 JN	4.02 J	< 0.307 UJ	< 0.551 UJ	< 0.108 UJ	< 0.143 UJ	4.91 J	1.35 JN	7.31 J	1.47 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	1.26 J+	3.83 J+	< 0.175 U	0.634 JN	< 0.0723 U	< 0.119 UJ	29.7 J	6.98 J+	6.49 J	2.68 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	11.3	482	5.78	43.5	1.48 J	< 0.0811 UJ	9.37 J	80.9	847	90.4
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	0.849 JN	21.4	0.369 J	1.4 J	< 0.166 U	< 0.113 UJ	10.2 J	3.23	25.9	5.37
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	1.62 J	31.6 J	< 0.226 UJ	1.19 J	< 0.0721 U	< 0.123 UJ	26.8 J	6.77	25.4 J	13.7 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	0.104 JN	1.01 J	< 0.453 U	< 0.637 UJ	0.106 JN	< 0.968 UJ	4.19 J	1.63 JN	1.54 JN	< 0.409 UJ
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	0.695 JN	6.32	0.518 JN	1.18 J	< 0.0943 U	< 0.103 UJ	29.8 J	12.1	12.7	6.20
OCDD	3268-87-9	pg/g	16000	10500	80.4	5490	70.7	434	16.5	5.94 JN	9.3	823	10300	1640
OCDF	39001-02-0	pg/g	16000	10500	6.88	474	5.32 JN	45.9	1.39 J+	< 0.144 U	2.01 J	84.7	908 J	96.4 J
Total HpCDD (a)	RA_Total_HpCDD	pg/g			15.4	776	10.5	68.5	2.35	0.714	2.41	113	1400	283
Total HpCDF (a)	RA_Total_HpCDF	pg/g			11.9	496	5.78	45.1	1.48	< 0.109 U	11.7	83.4	877	94.6
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		2.00	74.2	1.76	7.62	< 0.256 U	0.272	4.10	11.7	131	28.4
Total HxCDF (a)	RA_Total_HxCDF	pg/g			4.18	62.4	1.22	6.33	< 0.2 U	< 0.211 U	34.9	13.7	107	19.8
Total PeCDD (a)	RA_Total_PeCDD	pg/g			0.359	4.02	< 0.307 U	< 0.551 U	< 0.108 U	< 0.143 U	4.91	1.35	7.31	1.47
Total PeCDF (a)	RA_Total_PeCDF	pg/g			2.88	35.4	< 0.226 U	1.82	< 0.0723 U	< 0.123 U	56.5	13.8	31.9	16.4
Total TCDD (a)	RA_Total_TCDD	pg/g			0.104	1.01	< 0.453 U	< 0.637 U	0.106	< 0.968 U	4.19	1.63	1.54	< 0.409 U
Total TCDF (a)	RA_Total_TCDF	pg/g			0.695	6.32	0.518	1.18	< 0.0943 U	< 0.103 U	29.8	12.1	12.7	6.20
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	41	< 0.0365 U	9.18 J	0.677 J	8.02 J	< 0.0353 U	< 0.0364 U	< 0.0371 U	0.836 J	38.7 J	5.33 J
PCB-002	2051-61-8	ng/g	230	41	< 0.0527 U	< 0.0521 U	< 0.0537 U	< 0.0530 U	< 0.0509 U	< 0.0524 U	< 0.0534 U	< 0.0513 U	0.415 JEB	0.328 JEB
PCB-003	2051-62-9	ng/g	230	41	< 0.0513 U	4.72 J	< 0.0523 U	3.13 J	< 0.0496 U	< 0.0511 U	< 0.0520 U	0.438 J	12.1 J	1.23 J
PCB-004/010	PCB-4/10	ng/g	230	41	< 0.0917 U	22.0	0.646 J	38.1	0.940 J	< 0.0913 U	< 0.0930 U	2.42 J	85.4 J	42.2 J
PCB-005/008	PCB-5/8	ng/g	230	41	0.306 J	24.8	0.868 J	60.0 J	< 0.0847 U	< 0.0873 U	< 0.0889 U	2.22 J	71.2 J	30.1
PCB-006	25569-80-6	ng/g	230	41	< 0.0511 U	4.15 J	0.256 J	9.53 J	< 0.0494 U	< 0.0509 U	< 0.0518 U	0.569 J	11.9 J	16.1 J
PCB-007/009	PCB-7/9	ng/g	230	41	< 0.0886 U	0.740 J	< 0.0903 U	0.661 J	< 0.0856 U	< 0.0882 U	< 0.0899 U	< 0.0863 U	1.81 J	2.71 J
PCB-011	2050-67-1	ng/g	230	41	< 0.0488 U	1.04 JEB	< 0.0497 U	0.573 JEB	< 0.0471 U	< 0.0486 U	< 0.0495 U	< 0.0475 U	2.19 JEB	2.95 JEB
PCB-012/013	PCB-12/13	ng/g	230	41	< 0.0879 U	3.11 J	< 0.0895 U	1.48 J	< 0.0849 U	< 0.0875 U	< 0.0891 U	0.355 J	5.57 J	10.9 J
PCB-014	34883-41-5	ng/g	230	41	< 0.0490 U	< 0.0485 U	< 0.0499 U	< 0.0493 U	< 0.0473 U	< 0.0488 U	< 0.0497 U	< 0.0477 U	< 0.0483 U	< 0.0471 U
PCB-015	2050-68-2	ng/g	230	41	0.437 JEB	30.6 EB	1.50 JEB	10.3 JEB	< 0.0434 U	< 0.0447 U	0.605 JEB	3.50 JEB	67.1 JEB	44.9 JEB
PCB-016/032	PCB-16/32	ng/g	230	41	< 0.128 U	30.2 EB	2.87 JEB	12.8 JEB	0.655 JEB	< 0.127 U	< 0.129 U	2.65 JEB	37.5 EB	127 JEB
PCB-017	37680-66-3	ng/g	230	41	< 0.0562 U	16.4 J	1.12 J	14.0 J	0.560 J	< 0.0559 U	< 0.0570 U	2.10 J	28.0	69.4 J
PCB-018	37680-65-2	ng/g	230	41	< 0.0649 U	11.2 JEB	0.839 JEB	5.89 JEB	< 0.0627 U	< 0.0646 U	< 0.0658 U	1.87 JEB	14.9 JEB	77.8 JEB
PCB-019	38444-73-4	ng/g	230	41	< 0.0441 U	11.4 J	0.989 J	4.99 J	0.498 J	< 0.0439 U	< 0.0447 U	1.10 J	16.3 J	30.6
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	< 0.136 U	4.97 JEB	< 0.139 U	0.973 JEB	< 0.131 U	< 0.135 U	< 0.138 U	0.835 JEB	7.07 JEB	30.9 EB
PCB-022	38444-85-8	ng/g	230	41	< 0.0484 U	4.14 J	0.620 J	1.01 J	< 0.0468 U	< 0.0482 U	< 0.0491 U	0.598 J	8.78 J	30.7
PCB-023/034	PCB-23/34	ng/g	230	41	< 0.0884 U	< 0.0875 U	< 0.0901 U	< 0.0890 U	< 0.0854 U	< 0.0880 U	< 0.0897 U	< 0.0861 U	0.680 J	2.34 J
PCB-024/027	PCB-24/27	ng/g	230	41	< 0.0859 U	9.50 J	0.554 J	3.47 J	0.183 J	< 0.0855 U	< 0.0871 U	0.739 J	12.7 J	18.6 J
PCB-025	55712-37-3	ng/g	230	41	< 0.0498 U	7.14 J	0.521 J	3.61 J	< 0.0481 U	< 0.0495 U	< 0.0505 U	0.744 J	12.4 J	70.4 J
PCB-026	38444-81-4	ng/g	230	41	< 0.0424 U	12.2 J	1.24 J	4.70 J	0.265 J	< 0.0422 U	< 0.0430 U	1.19 J	18.7 J	113 J
PCB-028	7012-37-5	ng/g	230	41	1.41 JEB	35.4 EB	2.84 JEB	13.9 JEB	0.446 JEB	< 0.0464 U	< 0.0473 U	5.63 JEB	79.9 JEB	313 JEB
PCB-029	15862-07-4	ng/g	230	41	< 0.0511 U	< 0.0506 U	< 0.0521 U	< 0.0514 U	< 0.0494 U	< 0.0509 U	< 0.0518 U	< 0.0498 U	< 0.0504 U	< 0.0491 U
PCB-030	35693-92-6	ng/g	230	41	< 0.0468 U	< 0.0463 U	< 0.0477 U	< 0.0471 U	< 0.0453 U	< 0.0466 U	< 0.0475 U	< 0.0456 U	< 0.0462 U	< 0.0450 U
PCB-031	16606-02-3	ng/g	230	41	0.707 JEB	26.6 EB	1.17 JEB	6.24 JEB	0.447 JEB	< 0.0586 U	< 0.0597 U	3.13 JEB	51.2 JEB	252 JEB
PCB-035	37680-69-6	ng/g	230	41	< 0.0556 U	< 0.0550 U	< 0.0566 U	< 0.0559 U	< 0.0537 U	< 0.0553 U	< 0.0564 U	< 0.0541 U	0.727 J+	1.29 J+
PCB-036	38444-87-0	ng/g	230	41	< 0.0474 U	< 0.0469 U	< 0.0483 U	< 0.0477 U	< 0.0458 U	< 0.0472 U	< 0.0481 U	< 0.0462 U	< 0.0468 U	2.54 J
PCB-037	38444-90-5	ng/g	230	41	0.568 J	10.7 J	0.533 J	1.66 J	< 0.0503 U	< 0.0519 U	< 0.0528 U	1.90 J	28.8	45.9 J
PCB-038	53555-66-1	ng/g	230	41	< 0.0393 U	2.12 J	< 0.0400 U	< 0.0395 U	< 0.0379 U	< 0.0391 U	< 0.0398 U	< 0.0382 U	3.00 J	5.97 J
PCB-039	38444-88-1	ng/g	230	41	< 0.0241 U	< 0.0238 U	< 0.0246 U	< 0.0242 U	< 0.0233 U	< 0.0240 U	< 0.0244 U	< 0.0235 U	0.530 J	0.629 J
PCB-040	38444-93-8	ng/g	230	41	< 0.0402 U	3.95 J	< 0.0410 U	< 0.0405 U	< 0.0389 U	< 0.0401 U	< 0.0408 U	0.258 J	4.61 J	38.2 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0028-PLS1	23D-0029-PLS1	23D-0030-PLS1	23D-0031-B1S1	23D-0032-PLS1	23D-0032-PLS1	23D-0032-PLS1	23D-0033-PLS1	23D-0037-PLS1	23D-0040-PLS1
				Sample Name	23D-0028-PLS1-AS	23D-0029-PLS1-AS	23D-0030-PLS1-AS	23D-0031-B1S1-AS	23D-0032-PLS1-AS	23D-0032-PLS1-BS	23D-0032-PLS1-BT	23D-0033-PLS1-AS	23D-0037-PLS1-AS	23D-0040-PLS1-AS
				Sample Date	7/25/2023	7/25/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/27/2023	7/27/2023
				Sample Type	N	N	N	N	N	N	FD	N	N	N
				Depth Interval	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-041/064	PCB-41/64	ng/g	230	41	0.490 J	19.5	1.07 J	1.65 J	0.358 J	< 0.0909 U	< 0.0926 U	1.41 J	24.9	151 J
PCB-042	36559-22-5	ng/g	230	41	< 0.100 U	14.9 J	0.942 J	1.67 J	< 0.0971 U	< 0.100 U	< 0.102 U	1.04 J	19.1 J	90.6 J
PCB-043/049	PCB-43/49	ng/g	230	41	1.01 JEB	67.5 JEB	3.68 JEB	8.00 JEB	0.992 JEB	< 0.106 UJ	< 0.108 UJ	4.57 JEB	88.5 JEB	337 JEB
PCB-044	41464-39-5	ng/g	230	41	0.572 JEB	31.5 EB	1.92 JEB	2.92 JEB	< 0.0516 U	< 0.0532 U	< 0.0542 U	2.00 JEB	33.3 EB	245 JEB
PCB-045	70362-45-7	ng/g	230	41	< 0.0437 U	5.14 J	0.302 J	0.502 J	< 0.0423 U	< 0.0435 U	< 0.0443 U	0.307 J	4.58 J	45.4 J
PCB-046	41464-47-5	ng/g	230	41	< 0.0511 U	2.08 J	< 0.0521 UJ	< 0.0514 UJ	< 0.0494 U	< 0.0509 U	< 0.0518 U	< 0.0498 U	2.01 J	14.3 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	41	0.980 J	70.4 J	2.47 J	6.65 J	0.850 J	< 0.166 U	< 0.169 U	5.27 J	88.9 J	204 J
PCB-050	62796-65-0	ng/g	230	41	< 0.0624 U	< 0.0617 U	< 0.0636 U	< 0.0628 U	< 0.0603 U	< 0.0621 U	< 0.0633 U	< 0.0608 U	0.567 J	1.27 J
PCB-051	68194-04-7	ng/g	230	41	< 0.0531 U	6.70 J	0.371 J	1.13 J	< 0.0513 U	< 0.0528 U	< 0.0538 U	0.369 J	6.79 J	23.0
PCB-052/073	PCB-52/73	ng/g	230	41	0.858 JEB	66.7 JEB	3.45 JEB	6.45 JEB	0.770 JEB	< 0.122 U	< 0.124 U	4.07 JEB	78.0 JEB	364 JEB
PCB-053	41464-41-9	ng/g	230	41	< 0.0472 U	20.0	0.953 J	2.52 J	0.196 J	< 0.0470 U	< 0.0479 U	1.08 J	16.0 J	77.6 J
PCB-054	15968-05-5	ng/g	230	41	< 0.0414 U	1.06 J	< 0.0422 U	< 0.0416 U	< 0.0400 U	< 0.0412 U	< 0.0420 U	< 0.0403 U	0.968 J	1.67 J
PCB-055	74338-24-2	ng/g	230	41	< 0.0538 U	< 0.0533 U	< 0.0549 U	< 0.0542 U	< 0.0520 U	< 0.0536 U	< 0.0546 U	< 0.0524 U	0.533 J	1.91 J
PCB-056/060	PCB-56/60	ng/g	230	41	1.31 J	16.3 J	0.977 J	1.76 J	< 0.102 U	< 0.105 U	< 0.107 U	2.02 J	32.6	92.4 J
PCB-057	70424-67-8	ng/g	230	41	< 0.0416 U	0.711 J	< 0.0424 U	< 0.0418 U	< 0.0402 U	< 0.0414 U	< 0.0422 U	< 0.0405 U	1.04 J	4.07 J
PCB-058	41464-49-7	ng/g	230	41	< 0.0377 U	< 0.0373 U	< 0.0384 U	< 0.0379 U	< 0.0364 U	< 0.0375 U	< 0.0382 U	< 0.0367 U	0.482 J	1.04 J
PCB-059	74472-33-6	ng/g	230	41	< 0.0739 U	2.27 J	0.152 J	0.276 J	< 0.0714 U	< 0.0735 U	< 0.0749 U	0.193 J	2.60 J	18.8
PCB-061/074	PCB-61/74	ng/g	230	41	1.10 J	16.9 J	1.02 J	2.14 J	0.230 J	< 0.0965 U	< 0.0983 U	1.98 J	48.2 J	78.9 J
PCB-062	54230-22-7	ng/g	230	41	< 0.0515 U	< 0.0510 U	< 0.0525 U	< 0.0518 U	< 0.0498 U	< 0.0513 U	< 0.0522 U	< 0.0502 U	< 0.0508 U	< 0.0495 U
PCB-063	74472-34-7	ng/g	230	41	< 0.0387 U	3.68 J	0.168 J	0.530 J	< 0.0374 U	< 0.0385 U	< 0.0392 U	0.306 J	8.54 J	15.2 J
PCB-065	33284-54-7	ng/g	230	41	< 0.0743 U	< 0.0735 U	< 0.0756 U	< 0.0747 U	< 0.0717 U	< 0.0739 U	< 0.0753 U	< 0.0723 U	< 0.0732 U	< 0.0713 U
PCB-066/080	PCB-66/80	ng/g	230	41	2.27 JEB	38.9 JEB	1.94 JEB	3.90 JEB	0.344 JEB	< 0.0936 U	< 0.0954 U	4.51 JEB	104 JEB	186 JEB
PCB-067	73575-53-8	ng/g	230	41	< 0.0455 U	1.02 J	< 0.0463 U	< 0.0458 U	< 0.0439 U	< 0.0453 U	< 0.0461 U	< 0.0443 U	1.95 J	6.56 J
PCB-068	73575-52-7	ng/g	230	41	< 0.0538 U	1.70 J	< 0.0549 U	< 0.0542 U	< 0.0520 U	< 0.0536 U	< 0.0546 U	0.123 J	2.80 J	2.80 J
PCB-069	60233-24-1	ng/g	230	41	< 0.0560 U	< 0.0554 U	< 0.0570 U	< 0.0563 U	< 0.0541 U	< 0.0557 U	< 0.0568 U	< 0.0545 U	0.384 J	0.641 J
PCB-070	32598-11-1	ng/g	230	41	2.27 J	41.1 J	1.79 J	3.63 J	0.316 J	< 0.0503 U	< 0.0512 U	4.06 J	85.2 J	209 J
PCB-071	41464-46-4	ng/g	230	41	0.154 J	14.4 J	0.827 J	1.86 J	0.206 J	< 0.0681 U	< 0.0694 U	0.723 J	14.6 J	91.8 J
PCB-072	41464-42-0	ng/g	230	41	< 0.0606 U	2.14 J	< 0.0618 U	< 0.0610 U	< 0.0586 U	< 0.0604 U	< 0.0615 U	0.188 J	3.48 J	4.79 J
PCB-076	70362-48-0	ng/g	230	41	< 0.0744 U	< 0.0736 U	< 0.0758 U	< 0.0749 U	< 0.0719 U	< 0.0741 U	< 0.0755 U	< 0.0725 U	< 0.0734 U	< 0.0715 U
PCB-077	32598-13-3	ng/g	38.0	41	0.416 J+	7.21 J+	0.292 J+	0.725 J+	< 0.0424 U	< 0.0437 U	< 0.0445 U	1.21 J+	17.8 J+	22.5 J+
PCB-078	70362-49-1	ng/g	230	41	< 0.0381 U	< 0.0377 U	< 0.0388 U	< 0.0383 U	< 0.0368 U	< 0.0379 U	< 0.0386 U	< 0.0371 U	0.329 J	0.844 J
PCB-079	41464-48-6	ng/g	230	41	< 0.0478 U	< 0.0473 U	< 0.0487 U	< 0.0481 U	< 0.0462 U	< 0.0476 U	< 0.0485 U	< 0.0466 U	0.977 J	1.45 J
PCB-081	70362-50-4	ng/g	12.0	41	< 0.0746 U	< 0.0738 U	< 0.0760 U	< 0.0751 U	< 0.0721 U	< 0.0743 U	< 0.0757 U	< 0.0727 U	1.60 J+	2.83 J+
PCB-082	52663-62-4	ng/g	230	41	< 0.0274 U	4.71 J	< 0.0279 U	< 0.0276 U	< 0.0265 U	< 0.0273 U	< 0.0278 U	0.402 J	7.33 J	22.2
PCB-083/109	PCB-83/109	ng/g	230	41	< 0.118 U	3.16 J	< 0.120 U	< 0.118 U	< 0.114 U	< 0.117 U	< 0.119 U	0.293 J	5.36 J	10.6 J
PCB-084	52663-60-2	ng/g	230	41	< 0.0474 U	10.6 J	0.283 J	0.714 J	< 0.0458 U	< 0.0472 U	< 0.0481 U	0.918 J	13.2 J	46.9 J
PCB-085/120	PCB-85/120	ng/g	230	41	0.493 J	12.3 J	0.354 J	0.839 J	< 0.102 U	< 0.105 U	< 0.107 U	1.79 J	23.8	42.7 J
PCB-086/097	PCB-86/97	ng/g	230	41	0.444 J	12.6 J	0.373 J	0.947 J	< 0.0449 U	< 0.0462 U	< 0.0471 U	1.45 J	22.1	44.2 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	41	< 0.0299 U	< 0.0296 U	< 0.0305 U	< 0.0301 U	< 0.0289 U	< 0.0298 U	< 0.0304 U	< 0.0292 U	< 0.0295 U	< 0.0288 U
PCB-088/121	PCB-88/121	ng/g	230	41	< 0.108 U	< 0.107 U	< 0.110 U	< 0.109 U	< 0.105 U	< 0.108 U	< 0.110 U	< 0.105 U	< 0.107 U	0.792 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	41	1.14 J	41.7 J	1.20 J	3.04 J	0.387 J	< 0.117 U	< 0.119 U	3.85 J	76.8 J	115 J
PCB-091	68194-05-8	ng/g	230	41	< 0.0606 U	11.9 J	0.321 J	0.988 J	< 0.0586 U	< 0.0604 U	< 0.0615 U	1.07 J	17.8 J	39.4 J
PCB-092	52663-61-3	ng/g	230	41	< 0.0266 U	11.3 J	0.257 J	0.879 J	< 0.0257 U	< 0.0265 U	< 0.0270 U	0.963 J	18.8 J	27.2
PCB-093/095	PCB-93/95	ng/g	230	41	0.526 J	33.6	0.866 J	2.37 J	0.329 J	< 0.0780 U	< 0.0794 U	3.00 J	46.2 J	122 J
PCB-094	73575-55-0	ng/g	230	41	< 0.0894 U	1.17 J	< 0.0911 U	< 0.0899 U	< 0.0864 U	< 0.0890 U	< 0.0907 U	< 0.0871 U	1.62 J	2.59 J
PCB-096	73575-54-9	ng/g	230	41	< 0.0422 U	0.601 J	< 0.0430 U	< 0.0424 U	< 0.0408 U	< 0.0420 U	< 0.0428 U	< 0.0411 U	0.615 J	3.54 J
PCB-098/102	PCB-98/102	ng/g	230	41	< 0.0781 U	2.90 J	< 0.0796 U	< 0.0786 U	< 0.0755 U	< 0.0778 U	< 0.0792 U	0.191 J	3.95 J	14.4 J
PCB-099	38380-01-7	ng/g	230	41	0.887 J	26.0	0.854 J	2.11 J	0.293 J	< 0.0430 U	< 0.0438 U	3.15 J	52.8 J	73.7 J
PCB-100	39485-83-1	ng/g	230	41	< 0.0476 U	0.995 J	< 0.0485 U	< 0.0479 U	< 0.0460 U	< 0.0474 U	< 0.0483 U	< 0.0464 U	1.70 J	1.23 J
PCB-103	60145-21-3	ng/g	230	41	< 0.0492 U	1.08 J	< 0.0501 U	< 0.0495 U	< 0.0475 U	< 0.0490 U	< 0.0499 U	< 0.0479 U	1.40 J	1.98 J
PCB-104	56558-16-8	ng/g	230	41	< 0.0455 U	< 0.0450 U	< 0.0463 U	< 0.0458 U	< 0.0439 U	< 0.0453 U	< 0.0461 U	< 0.0443 U	< 0.0449 U	< 0.0437 U
PCB-105/127	PCB-105/127	ng/g	120	41	1.06 J	15.5 J	0.631 J+	1.50 J+	< 0.0746 U	< 0.0768 U	< 0.0782 U	2.48 J	39.3 J	51.6 J
PCB-106/118	PCB-106/118	ng/g	120	41	2.01 J	42.5 J	1.52 J	3.32 J	0.411 J	< 0.0917 U	< 0.0934 U	5.42 J	93.8 J	102 J
PCB-107/108	PCB-107/108	ng/g	230	41	< 0.0947 U	4.16 J	< 0.0964 U	< 0.0952 U	< 0.0915 U	< 0.0942 U	< 0.0960 U	0.486 J	9.04 J	9.17 J
PCB-110	38380-03-9	ng/g	230	41	1.59 J	61.7 J	1.92 J	4.67 J	0.804 J	< 0.0439 UJ	< 0.0447 UJ	7.16 J	94.9 J	186 J
PCB-111/117	PCB-111/117	ng/g	230	41	0.397 J	16.4 J	0.485 J	1.24 J	< 0.130 U	< 0.134 U	< 0.136 U	1.62 J	26.5	53.3 J
PCB-112	74472-36-9	ng/g	230	41	< 0.0468 U	< 0.0463 U	< 0.0477 U	< 0.0471 U	< 0.0453 U	< 0.0466 U	< 0.0475 U	< 0.0456 U	0.467 J	0.812 J
PCB-113	68194-10-5	ng/g	230	41	< 0.0492 U	< 0.0486 U	< 0.0501 U	< 0.0495 U	< 0.0475 U	< 0.0490 U	< 0.0499 U	< 0.0479 U	0.746 J	0.977 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0028-PLS1	23D-0029-PLS1	23D-0030-PLS1	23D-0031-B1S1	23D-0032-PLS1	23D-0032-PLS1	23D-0032-PLS1	23D-0033-PLS1	23D-0037-PLS1	23D-0040-PLS1
				Sample Name	23D-0028-PLS1-AS	23D-0029-PLS1-AS	23D-0030-PLS1-AS	23D-0031-B1S1-AS	23D-0032-PLS1-AS	23D-0032-PLS1-BS	23D-0032-PLS1-BT	23D-0033-PLS1-AS	23D-0037-PLS1-AS	23D-0040-PLS1-AS
				Sample Date	7/25/2023	7/25/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/27/2023	7/27/2023
				Sample Type	N	N	N	N	N	N	FD	N	N	N
				Depth Interval	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-114	74472-37-0	ng/g	120	41	< 0.0408 U	1.18 J	< 0.0416 U	< 0.0411 U	< 0.0394 U	< 0.0406 U	< 0.0414 U	< 0.0398 U	2.81 J	2.96 J
PCB-119	56558-17-9	ng/g	230	41	< 0.0540 U	2.93 J	< 0.0551 U	< 0.0544 U	< 0.0522 U	< 0.0538 U	< 0.0548 U	0.315 J	5.17 J	5.60 J
PCB-122	76842-07-4	ng/g	230	41	< 0.0344 U	< 0.0340 U	< 0.0351 U	< 0.0346 U	< 0.0332 U	< 0.0342 U	< 0.0349 U	< 0.0335 U	0.775 J	2.03 J
PCB-123	65510-44-3	ng/g	120	41	< 0.0319 U	1.78 J+	< 0.0325 U	< 0.0321 U	< 0.0308 U	< 0.0317 U	< 0.0323 U	0.285 J+	3.61 J+	3.60 J+
PCB-124	70424-70-3	ng/g	230	41	< 0.0430 U	1.80 J	< 0.0438 U	< 0.0432 U	< 0.0415 U	< 0.0428 U	< 0.0436 U	< 0.0418 U	2.98 J	4.08 J
PCB-125	74472-39-2	ng/g	230	41	< 0.0470 U	< 0.0465 U	< 0.0479 U	< 0.0473 U	< 0.0454 U	< 0.0468 U	< 0.0477 U	< 0.0458 U	0.328 J	0.692 J
PCB-126	57465-28-8	ng/g	0.0360	41	< 0.0669 U	< 0.0661 U	< 0.0681 U	< 0.0673 U	< 0.0646 U	< 0.0666 U	< 0.0678 U	< 0.0651 U	1.21 J+	0.792 J+
PCB-128	38380-07-3	ng/g	230	41	< 0.0472 U	8.07 J	< 0.0481 U	0.500 J	< 0.0456 U	< 0.0470 U	< 0.0479 U	1.08 J	13.7 J	9.13 J
PCB-129	55215-18-4	ng/g	230	41	< 0.0519 U	1.69 J	< 0.0529 U	< 0.0522 U	< 0.0501 U	< 0.0517 U	< 0.0526 U	< 0.0505 U	3.17 J	2.15 J
PCB-130	52663-66-8	ng/g	230	41	< 0.0408 U	2.66 J	< 0.0416 U	< 0.0411 U	< 0.0394 U	< 0.0406 U	< 0.0414 U	0.342 J	4.66 J	3.76 J
PCB-131/142	PCB-131/142	ng/g	230	41	< 0.100 U	0.431 J	< 0.102 U	< 0.101 U	< 0.0971 U	< 0.100 U	< 0.102 U	< 0.0979 U	0.776 J	0.655 J
PCB-132/168	PCB-132/168	ng/g	230	41	0.227 J	12.4 J	0.316 J	0.855 J	< 0.114 U	< 0.117 U	< 0.119 U	1.41 J	18.9 J	17.9 J
PCB-133	35694-04-3	ng/g	230	41	< 0.0365 U	0.739 J	< 0.0372 U	< 0.0368 U	< 0.0353 U	< 0.0364 U	< 0.0371 U	< 0.0356 U	1.31 J	0.871 J
PCB-134	52704-70-8	ng/g	230	41	< 0.0968 U	2.11 J	< 0.0986 U	< 0.0974 U	< 0.0935 U	< 0.0964 U	< 0.0981 U	0.231 J	3.24 J	2.68 J
PCB-135/144	PCB-135/144	ng/g	230	41	< 0.102 U	5.27 J	< 0.104 U	0.291 J	< 0.0982 U	< 0.101 U	< 0.103 U	0.655 J	8.55 J	8.23 J
PCB-136	38411-22-2	ng/g	230	41	< 0.0847 U	3.91 J	< 0.0863 U	0.244 J	< 0.0819 U	< 0.0844 U	< 0.0859 U	0.413 J	5.87 J	6.57 J
PCB-137	35694-06-5	ng/g	230	41	< 0.0474 U	2.70 J	< 0.0483 U	< 0.0477 U	< 0.0458 U	< 0.0472 U	< 0.0481 U	0.332 J	4.41 J	3.07 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	0.938 J	43.4 J	0.927 J	3.21 J	0.315 J	< 0.151 U	< 0.154 U	5.91 J	78.2 J	48.6 J
PCB-139/149	PCB-139/149	ng/g	230	41	0.364 J	23.6	0.395 J	1.66 J	0.195 J	< 0.139 U	< 0.142 U	3.00 J	39.9 J	34.6
PCB-140	59291-64-4	ng/g	230	41	< 0.0692 U	< 0.0685 U	< 0.0705 U	< 0.0696 U	< 0.0669 U	< 0.0689 U	< 0.0702 U	< 0.0674 U	0.491 J	< 0.0665 U
PCB-141	52712-04-6	ng/g	230	41	< 0.0486 U	5.75 J	< 0.0495 U	< 0.0489 U	< 0.0469 U	< 0.0484 U	< 0.0493 U	0.566 J	9.07 J	7.67 J
PCB-143	68194-15-0	ng/g	230	41	< 0.0624 U	< 0.0617 U	< 0.0636 U	< 0.0628 U	< 0.0603 U	< 0.0621 U	< 0.0633 U	< 0.0608 U	< 0.0615 U	< 0.0599 U
PCB-145	74472-40-5	ng/g	230	41	< 0.0824 U	< 0.0815 U	< 0.0840 U	< 0.0829 U	< 0.0796 U	< 0.0820 U	< 0.0836 U	< 0.0803 U	< 0.0813 U	< 0.0792 U
PCB-146	51908-16-8	ng/g	230	41	< 0.0558 U	4.40 J	< 0.0568 U	0.252 J	< 0.0539 U	< 0.0555 U	< 0.0566 U	0.516 J	7.86 J	5.74 J
PCB-147	68194-13-8	ng/g	230	41	< 0.0727 U	1.58 J	< 0.0741 U	< 0.0731 U	< 0.0702 U	< 0.0724 U	< 0.0737 U	0.191 J	2.74 J	1.31 J
PCB-148	74472-41-6	ng/g	230	41	< 0.0762 U	< 0.0754 U	< 0.0776 U	< 0.0766 U	< 0.0736 U	< 0.0758 U	< 0.0773 U	< 0.0742 U	< 0.0751 U	< 0.0732 U
PCB-150	68194-08-1	ng/g	230	41	< 0.0770 U	< 0.0761 U	< 0.0784 U	< 0.0774 U	< 0.0744 U	< 0.0766 U	< 0.0780 U	< 0.0750 U	0.161 J	< 0.0739 U
PCB-151	52663-63-5	ng/g	230	41	< 0.0558 U	5.52 J	< 0.0568 U	0.315 J	< 0.0539 U	< 0.0555 U	< 0.0566 U	0.619 J	8.92 J	8.66 J
PCB-152	68194-09-2	ng/g	230	41	< 0.0900 U	< 0.0890 U	< 0.0917 U	< 0.0905 U	< 0.0869 U	< 0.0896 U	< 0.0912 U	< 0.0877 U	0.147 J	0.177 J
PCB-153	35065-27-1	ng/g	230	41	0.567 J	26.3	0.541 J	1.91 J	0.184 J	< 0.0488 U	< 0.0497 U	3.12 J	47.2 J	31.3
PCB-154	60145-22-4	ng/g	230	41	< 0.0536 U	0.649 J	< 0.0547 U	< 0.0540 U	< 0.0518 U	< 0.0534 U	< 0.0544 U	< 0.0523 U	1.21 J	0.721 J
PCB-155	33979-03-2	ng/g	230	41	< 0.0463 U	< 0.0458 U	< 0.0471 U	< 0.0465 U	< 0.0447 U	< 0.0460 U	< 0.0469 U	< 0.0451 U	< 0.0456 U	< 0.0444 U
PCB-156	38380-08-4	ng/g	120	41	< 0.0389 R	3.65 J-	< 0.0396 R	0.182 J-	< 0.0376 R	< 0.0387 R	< 0.0394 R	0.483 J-	7.01 J	4.45 J
PCB-157	69782-90-7	ng/g	120	41	< 0.0540 UJ	1.18 J	< 0.0551 UJ	< 0.0544 UJ	< 0.0522 UJ	< 0.0538 UJ	< 0.0548 UJ	< 0.0526 UJ	2.38 J+	1.38 J+
PCB-158/160	PCB-158/160	ng/g	230	41	< 0.119 U	4.10 J	< 0.121 U	0.214 J	< 0.115 U	< 0.118 U	< 0.120 U	0.559 J	6.84 J	4.77 J
PCB-159	39635-35-3	ng/g	230	41	< 0.0746 U	< 0.0738 U	< 0.0760 U	< 0.0751 U	< 0.0721 U	< 0.0743 U	< 0.0757 U	< 0.0727 U	0.344 J	0.344 J
PCB-161	74472-43-8	ng/g	230	41	< 0.0698 U	< 0.0690 U	< 0.0711 U	< 0.0702 U	< 0.0674 U	< 0.0695 U	< 0.0708 U	< 0.0680 U	< 0.0688 U	< 0.0670 U
PCB-162	39635-34-2	ng/g	230	41	< 0.0550 U	< 0.0544 U	< 0.0560 U	< 0.0553 U	< 0.0531 U	< 0.0548 U	< 0.0558 U	< 0.0536 U	< 0.0542 U	0.295 J
PCB-165	74472-46-1	ng/g	230	41	< 0.0754 U	< 0.0746 U	< 0.0768 U	< 0.0759 U	< 0.0729 U	< 0.0751 U	< 0.0765 U	< 0.0735 U	< 0.0744 U	< 0.0724 U
PCB-166	41411-63-6	ng/g	230	41	< 0.0649 U	< 0.0642 U	< 0.0661 U	< 0.0653 U	< 0.0627 U	< 0.0646 U	< 0.0658 U	< 0.0632 U	0.339 J	0.291 J
PCB-167	52663-72-6	ng/g	120	41	< 0.0500 U	1.71 J	< 0.0509 U	< 0.0502 U	< 0.0483 U	< 0.0497 U	< 0.0507 U	0.225 J	3.33 J+	1.88 J+
PCB-169	32774-16-6	ng/g	0.120	41	< 0.0550 U	< 0.0544 U	< 0.0560 U	< 0.0553 U	< 0.0531 U	< 0.0548 U	< 0.0558 U	< 0.0536 U	< 0.0542 U	< 0.0528 U
PCB-170/190	PCB-170/190	ng/g	230	41	< 0.0906 U	7.18 J	< 0.0923 U	0.484 J	< 0.0875 U	< 0.0902 U	< 0.0918 U	0.953 J	13.0 J	10.0 J
PCB-171	52663-71-5	ng/g	230	41	< 0.0719 U	1.70 J	< 0.0733 U	< 0.0723 U	< 0.0695 U	< 0.0716 U	< 0.0729 U	0.221 J	3.01 J	2.38 J
PCB-172/192	PCB-172/192	ng/g	230	41	< 0.119 U	0.896 J	< 0.122 U	< 0.120 U	< 0.115 U	< 0.119 U	< 0.121 U	< 0.116 U	1.58 J	1.30 J
PCB-173	68194-16-1	ng/g	230	41	< 0.0805 U	< 0.0796 U	< 0.0820 U	< 0.0809 U	< 0.0777 U	< 0.0801 U	< 0.0816 U	< 0.0784 U	< 0.0794 U	< 0.0773 U
PCB-174	38411-25-5	ng/g	230	41	< 0.101 U	5.58 J	< 0.103 U	0.387 J	< 0.0975 U	< 0.100 U	< 0.102 U	0.813 J	9.67 J	8.29 J
PCB-175	40186-70-7	ng/g	230	41	< 0.0620 U	< 0.0613 U	< 0.0632 U	< 0.0624 U	< 0.0599 U	< 0.0617 U	< 0.0629 U	< 0.0604 U	0.338 J	0.310 J
PCB-176	52663-65-7	ng/g	230	41	< 0.0579 U	0.584 J	< 0.0590 U	< 0.0583 U	< 0.0560 U	< 0.0577 U	< 0.0587 U	< 0.0564 U	0.984 J	0.981 J
PCB-177	52663-70-4	ng/g	230	41	< 0.0723 U	3.43 J	< 0.0737 U	< 0.0727 U	< 0.0699 U	< 0.0720 U	< 0.0733 U	0.456 J	6.04 J	5.16 J
PCB-178	52663-67-9	ng/g	230	41	< 0.0908 U	1.32 J	< 0.0925 U	< 0.0913 U	< 0.0877 U	< 0.0904 U	< 0.0920 U	0.183 J	2.39 J	1.83 J
PCB-179	52663-64-6	ng/g	230	41	< 0.0480 U	1.89 J	< 0.0489 U	< 0.0483 U	< 0.0464 U	< 0.0478 U	< 0.0487 U	0.244 J	3.25 J	3.24 J
PCB-180	35065-29-3	ng/g	230	41	0.320 J	12.1 J	0.235 J	0.767 J	0.108 J	< 0.0637 U	< 0.0648 U	1.43 J	20.6	17.9 J
PCB-181	74472-47-2	ng/g	230	41	< 0.0550 U	< 0.0544 U	< 0.0560 U	< 0.0553 U	< 0.0531 U	< 0.0548 U	< 0.0558 U	< 0.0536 U	< 0.0542 U	< 0.0528 U
PCB-182/187	PCB-182/187	ng/g	230	41	< 0.145 U	6.51 J	< 0.147 U	0.431 J	< 0.140 U	< 0.144 U	< 0.147 U	0.911 J	11.5 J	9.74 J
PCB-183	52663-69-1	ng/g	230	41	< 0.0719 U	2.80 J	< 0.0733 U	< 0.0723 U	< 0.0695 U	< 0.0716 U	< 0.0729 U	0.315 J	4.68 J	4.25 J
PCB-184	74472-48-3	ng/g	230	41	< 0.0521 U	< 0.0515 U	< 0.0531 U	< 0.0524 U	< 0.0503 U	< 0.0519 U	< 0.0528 U	< 0.0507 U	< 0.0514 U	< 0.0500 U
PCB-185	52712-05-7	ng/g	230	41	< 0.0721 U	0.651 J	< 0.0735 U	< 0.0725 U	< 0.0697 U	< 0.0718 U	< 0.0731 U	< 0.0702 U	1.09 J	1.03 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0028-PLS1	23D-0029-PLS1	23D-0030-PLS1	23D-0031-B1S1	23D-0032-PLS1	23D-0032-PLS1	23D-0032-PLS1	23D-0033-PLS1	23D-0037-PLS1	23D-0040-PLS1
				Sample Name	23D-0028-PLS1-AS	23D-0029-PLS1-AS	23D-0030-PLS1-AS	23D-0031-B1S1-AS	23D-0032-PLS1-AS	23D-0032-PLS1-BS	23D-0032-PLS1-BT	23D-0033-PLS1-AS	23D-0037-PLS1-AS	23D-0040-PLS1-AS
				Sample Date	7/25/2023	7/25/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/27/2023	7/27/2023
				Sample Type	N	N	N	N	N	N	FD	N	N	N
				Depth Interval	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-186	74472-49-4	ng/g	230	41	< 0.0651 U	< 0.0644 U	< 0.0663 U	< 0.0655 U	< 0.0629 U	< 0.0648 U	< 0.0660 U	< 0.0634 U	< 0.0642 U	< 0.0625 U
PCB-188	74487-85-7	ng/g	230	41	< 0.0597 U	< 0.0590 U	< 0.0608 U	< 0.0600 U	< 0.0577 U	< 0.0594 U	< 0.0605 U	< 0.0581 U	< 0.0588 U	< 0.0573 U
PCB-189	39635-31-9	ng/g	130	41	< 0.0606 U	0.372 J	< 0.0618 U	< 0.0610 U	< 0.0586 U	< 0.0604 U	< 0.0615 U	< 0.0591 U	0.545 J	0.395 J
PCB-191	74472-50-7	ng/g	230	41	< 0.0548 U	< 0.0542 U	< 0.0558 U	< 0.0551 U	< 0.0530 U	< 0.0546 U	< 0.0556 U	< 0.0534 U	0.397 J	0.373 J
PCB-193	69782-91-8	ng/g	230	41	< 0.0692 U	0.615 J	< 0.0705 U	< 0.0696 U	< 0.0669 U	< 0.0689 U	< 0.0702 U	0.0922 J	1.05 J	0.822 J
PCB-194	35694-08-7	ng/g	230	41	< 0.0875 U	3.81 J	< 0.0891 U	< 0.0880 U	< 0.0845 U	< 0.0871 U	< 0.0887 U	< 0.0852 U	6.58 J	5.81 J
PCB-195	52663-78-2	ng/g	230	41	< 0.155 U	1.39 J	< 0.158 U	< 0.156 U	< 0.150 U	< 0.154 U	< 0.157 U	< 0.151 U	2.42 J	2.01 J
PCB-196/203	PCB-196/203	ng/g	230	41	< 0.147 U	3.94 J	< 0.150 U	< 0.148 U	< 0.142 U	< 0.146 U	< 0.149 U	0.499 J	6.97 J	5.54 J
PCB-197	33091-17-7	ng/g	230	41	< 0.0655 U	< 0.0648 U	< 0.0667 U	< 0.0659 U	< 0.0633 U	< 0.0652 U	< 0.0664 U	< 0.0638 U	0.211 J	< 0.0629 U
PCB-198	68194-17-2	ng/g	230	41	< 0.106 U	< 0.105 U	< 0.108 U	< 0.107 U	< 0.103 U	< 0.106 U	< 0.108 U	< 0.104 U	< 0.105 U	< 0.102 U
PCB-199	52663-75-9	ng/g	230	41	< 0.102 U	3.61 J	< 0.104 U	< 0.103 U	< 0.0988 U	< 0.102 U	< 0.104 U	0.480 J	6.21 J	4.68 J
PCB-200	52663-73-7	ng/g	230	41	< 0.0521 U	0.391 J	< 0.0531 U	< 0.0524 U	< 0.0503 U	< 0.0519 U	< 0.0528 U	< 0.0507 U	0.660 J	0.569 J
PCB-201	40186-71-8	ng/g	230	41	< 0.0412 U	0.402 J	< 0.0420 U	< 0.0414 U	< 0.0398 U	< 0.0410 U	< 0.0418 U	< 0.0401 U	0.531 J	0.471 J
PCB-202	2136-99-4	ng/g	230	41	< 0.0704 U	0.616 J	< 0.0717 U	< 0.0708 U	< 0.0680 U	< 0.0700 U	< 0.0713 U	< 0.0685 U	1.03 J	0.654 J
PCB-204	74472-52-9	ng/g	230	41	< 0.0861 U	< 0.0852 U	< 0.0877 U	< 0.0866 U	< 0.0832 U	< 0.0857 U	< 0.0873 U	< 0.0839 U	< 0.0849 U	< 0.0827 U
PCB-205	74472-53-0	ng/g	230	41	< 0.0610 U	< 0.0604 U	< 0.0622 U	< 0.0614 U	< 0.0590 U	< 0.0608 U	< 0.0619 U	< 0.0594 U	< 0.0602 U	< 0.0586 U
PCB-206	40186-72-9	ng/g	230	41	< 0.0585 U	2.53 J	< 0.0596 U	< 0.0589 U	< 0.0565 U	< 0.0582 U	< 0.0593 U	0.305 J	4.47 J	2.15 J
PCB-207	52663-79-3	ng/g	230	41	< 0.0774 U	< 0.0765 U	< 0.0788 U	< 0.0778 U	< 0.0747 U	< 0.0770 U	< 0.0784 U	< 0.0754 U	0.535 J	0.252 J
PCB-208	52663-77-1	ng/g	230	41	< 0.0774 U	0.794 J	< 0.0788 U	< 0.0778 U	< 0.0747 U	< 0.0770 U	< 0.0784 U	0.128 J	1.43 J	0.497 J
PCB-209	2051-24-3	ng/g	230	41	< 0.0445 U	1.85 J	< 0.0453 U	< 0.0448 U	< 0.0430 U	< 0.0443 U	< 0.0451 U	0.246 J	2.20 J	0.848 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0	< 0.0445 U	1.85	< 0.0453 U	< 0.0448 U	< 0.043 U	< 0.0443 U	< 0.0451 U	0.246	2.20	0.848
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0	0.320	45.6	0.235	2.07	0.108	< 0.144 U	< 0.147 U	5.62	80.1	68.0
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0	2.10	162	2.18	9.63	0.694	< 0.151 U	< 0.154 U	19.7	281	207
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0	< 0.155 U	14.2	< 0.158 U	< 0.156 U	< 0.15 U	< 0.154 U	< 0.157 U	0.979	24.6	19.7
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14	25.8	1290	51.0	286	11.3	< 0.166 U	0.605	130	2280	4970
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0	8.55	323	9.06	22.6	2.22	< 0.134 U	< 0.136 U	34.8	575	992
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0	0.743	86.4	3.27	121	0.940	< 0.0913 U	0.605	9.06	245	150
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0	< 0.0527 U	13.9	0.677	11.2	< 0.0509 U	< 0.0524 U	< 0.0534 U	1.27	51.2	6.89
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0	< 0.0774 U	3.32	< 0.0788 U	< 0.0778 U	< 0.0747 U	< 0.077 U	< 0.0784 U	0.433	6.44	2.90
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0	11.4	456	22.3	46.3	4.26	< 0.166 U	< 0.169 U	35.7	695	2330
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0	2.69	182	13.3	73.2	3.05	< 0.135 U	< 0.138 U	22.5	321	1190
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700		3900	7200	2600	3600	4500	4200	5300	2800	7000	6200
Calcium	7440-70-2	mg/kg			2200	2200	1100	1400	1300	970	1200	920	3800	1700
Iron	7439-89-6	mg/kg	5500		3700	13000	1700	3000	3700	3300	5000	2600	16000	9200
Magnesium	7439-95-4	mg/kg			950	2100	< 770 U	< 700 U	860	750	930	650	2100	2200
Potassium	7440-09-7	mg/kg			230 J	490 J	140 J	200 J	170 J	160 J	220 J	200 J	520 J	520 J
Sodium	7440-23-5	mg/kg			200 J	850	260 J	65 J	92 J	91 J	130 J	40 J	280 J	120 J
Antimony	7440-36-0	mg/kg	3.1	0.27	< 1.5 U	0.90 J	< 1.5 U	0.099 J	< 1.2 U	< 1.2 U	< 1.7 U	0.065 J	0.95 J	0.33 J
Arsenic	7440-38-2	mg/kg	0.68	18	0.46 J	4.4	0.53 J	0.52 J	0.45 J	0.38 J	0.56 J	0.41 J	4.4	3.3
Barium	7440-39-3	mg/kg	1500	110	22	48	19	20	12	11	19	16	72	27
Beryllium	7440-41-7	mg/kg	16	2.5	< 0.75 U	< 0.80 U	< 0.76 U	< 0.70 U	< 0.60 U	< 0.61 U	< 0.87 U	< 0.57 U	< 0.76 U	< 0.53 U
Cadmium	7440-43-9	mg/kg	0.71	0.36	< 0.75 U	0.42 J	< 0.76 U	< 0.70 U	< 0.60 U	< 0.61 U	< 0.87 U	< 0.57 U	0.48 J	0.14 J
Chromium, Total	7440-47-3	mg/kg	0.3	23	6.8	35	5.1	6.5	5.6	5.4 J	9.4 J	4.3	36	26
Cobalt	7440-48-4	mg/kg	2.3	13	1.3	3.2	1.9	1.0	0.79	0.83	1.1	0.65	7.7	4.2
Copper	7440-50-8	mg/kg	310	28	3.2	34	2.6	4.7	0.55 J	1.2	2.7	2.8	40	30
Lead	7439-92-1	mg/kg	200	11	4.5	100	2.8	10	2.5	1.8	2.7	6.3	100	63
Manganese	7439-96-5	mg/kg	180	220	26 EB	100 EB	51 EB	100 EB	22 EB	22 EB	26 EB	28 EB	530 EB	130 EB
Nickel	7440-02-0	mg/kg	140	38	2.3	9.3	2.5	1.7	1.8	2.2	2.9	1.5	11	6.7
Selenium	7782-49-2	mg/kg	39	0.52	< 3.8 U	< 4.0 U	< 3.8 U	< 3.5 U	< 3.0 U	< 3.0 U	2.2 J	< 2.8 U	0.95 J	< 2.6 U
Silver	7440-22-4	mg/kg	39	4.2	0.028 J	0.15 J	0.017 J	0.038 J	0.023 J	0.022 J	0.035 J	0.015 J	0.28 J	0.077 J
Thallium	7440-28-0	mg/kg	0.078	0.05	< 0.75 U	0.042 J	< 0.76 U	< 0.70 U	< 0.60 U	< 0.61 U	< 0.87 U	< 0.57 U	0.043 J	0.035 J
Vanadium	7440-62-2	mg/kg	39	7.8	5.9	16	6.9	4.1	6.5	7.0	11	4.9	19	13
Zinc	7440-66-6	mg/kg	2300	46	6.7 EB	96 EB	14 EB	23 EB	5.4 EB	7.6 EB	8.5 EB	8.3 EB	160 EB	51 EB
Mercury	7439-97-6	mg/kg	2.3	0.013	0.021 J	0.19	0.035 J	0.032 J	< 0.12 U	< 0.13 U	0.021 J	0.043 J	0.46	0.38

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0028-PLS1	23D-0029-PLS1	23D-0030-PLS1	23D-0031-B1S1	23D-0032-PLS1	23D-0032-PLS1	23D-0032-PLS1	23D-0033-PLS1	23D-0037-PLS1	23D-0040-PLS1
				Sample Name	23D-0028-PLS1-AS	23D-0029-PLS1-AS	23D-0030-PLS1-AS	23D-0031-B1S1-AS	23D-0032-PLS1-AS	23D-0032-PLS1-BS	23D-0032-PLS1-BT	23D-0033-PLS1-AS	23D-0037-PLS1-AS	23D-0040-PLS1-AS
				Sample Date	7/25/2023	7/25/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/27/2023	7/27/2023
				Sample Type	N	N	N	N	N	N	FD	N	N	N
				Depth Interval	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
2-HEXANONE	591-78-6	ug/kg	20000	360	< 14 U	< 17 U	< 14 U	< 13 U	< 11 U	< 13 U	< 10 U	< 14 U	< 16 U	< 12 U
ACETONE	67-64-1	ug/kg	7000000	1200	< 14 U	< 17 U	< 14 U	< 13 U	12 J+	14 J+	12 J+	< 14 U	19 J+	< 12 U
Benzene	71-43-2	ug/kg	1200	120	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
BROMOFORM	75-25-2	ug/kg	19000	70	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
BROMOMETHANE	74-83-9	ug/kg	680	2	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 UJ	< 6.2 UJ
Chloroform	67-66-3	ug/kg	320	50	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 7.2 UJ	< 8.6 UJ	< 7.0 UJ	< 6.3 UJ	< 5.7 UJ	< 6.7 UJ	< 5.2 UJ	< 6.8 UJ	< 8.0 UJ	< 6.2 UJ
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Cyclohexane	110-82-7	ug/kg	650000		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Ethylbenzene	100-41-4	ug/kg	5800	270	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	< 14 U	< 17 U	< 14 U	< 13 U	< 11 U	< 13 U	< 10 U	< 14 U	< 16 U	< 12 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 14 U	< 17 U	< 14 U	< 13 U	< 11 U	< 13 U	< 10 U	< 14 U	< 16 U	< 12 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Methylene Chloride	75-09-2	ug/kg	35000	210	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Styrene	100-42-5	ug/kg	600000	1200	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Toluene	108-88-3	ug/kg	490000	150	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U
Vinyl Chloride	75-01-4	ug/kg	59	30	< 7.2 U	< 8.6 U	< 7.0 U	< 6.3 U	< 5.7 U	< 6.7 U	< 5.2 U	< 6.8 U	< 8.0 U	< 6.2 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0028-PLS1	23D-0029-PLS1	23D-0030-PLS1	23D-0031-B1S1	23D-0032-PLS1	23D-0032-PLS1	23D-0032-PLS1	23D-0033-PLS1	23D-0037-PLS1	23D-0040-PLS1
					Sample Name	23D-0028-PLS1-AS	23D-0029-PLS1-AS	23D-0030-PLS1-AS	23D-0031-B1S1-AS	23D-0032-PLS1-AS	23D-0032-PLS1-BS	23D-0032-PLS1-BT	23D-0033-PLS1-AS	23D-0037-PLS1-AS	23D-0040-PLS1-AS
					Sample Date	7/25/2023	7/25/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/27/2023	7/27/2023
					Sample Type	N	N	N	N	N	N	FD	N	N	N
					Depth Interval	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 110 U	< 120 U	< 120 U	< 92 U	< 85 U	< 100 U	< 99 U	< 94 U	< 110 U	< 74 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 270 UJ	< 290 UJ	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 UJ	< 190 UJ
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 UJ	< 190 UJ
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
Caprolactam	105-60-2	ug/kg	3100000		< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 530 UJ	< 570 UJ	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 UJ	< 360 UJ
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 270 UJ	< 290 UJ	< 300 UJ	< 230 UJ	< 220 UJ	< 260 UJ	< 250 UJ	< 240 UJ	< 290 U	< 190 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0028-PLS1	23D-0029-PLS1	23D-0030-PLS1	23D-0031-B1S1	23D-0032-PLS1	23D-0032-PLS1	23D-0032-PLS1	23D-0033-PLS1	23D-0037-PLS1	23D-0040-PLS1
				Sample Name	23D-0028-PLS1-AS	23D-0029-PLS1-AS	23D-0030-PLS1-AS	23D-0031-B1S1-AS	23D-0032-PLS1-AS	23D-0032-PLS1-BS	23D-0032-PLS1-BT	23D-0033-PLS1-AS	23D-0037-PLS1-AS	23D-0040-PLS1-AS
				Sample Date	7/25/2023	7/25/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/26/2023	7/27/2023	7/27/2023
				Sample Type	N	N	N	N	N	N	FD	N	N	N
				Depth Interval	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Naphthalene	91-20-3	ug/kg	2000	29000	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 270 U	< 290 U	< 300 U	< 230 U	< 220 U	< 260 U	< 250 U	< 240 U	< 290 U	< 190 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	790	< 530 U	< 570 U	< 590 U	< 450 U	< 420 U	< 510 U	< 490 U	< 470 U	< 560 U	< 360 U
PYRENE	129-00-0	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	140	< 5.3 U	< 5.6 U	< 5.9 U	< 4.5 U	< 4.2 U	< 5.1 U	< 4.9 U	< 4.7 U	< 5.6 U	4.5
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	< 5.3 U	< 5.6 U	< 5.9 U	< 4.5 U	< 4.2 U	< 5.1 U	< 4.9 U	< 4.7 U	< 5.6 U	6.1
Acenaphthene	83-32-9	ug/kg	360000	29000	< 5.3 U	5.3 J	< 5.9 U	< 4.5 U	< 4.2 U	< 5.1 U	< 4.9 U	< 4.7 U	7.7	5.4
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	< 5.3 U	7.1	< 5.9 U	< 4.5 U	< 4.2 U	< 5.1 U	< 4.9 U	< 4.7 U	13	24
ANTHRACENE	120-12-7	ug/kg	1800000	29000	< 5.3 U	21 J	< 5.9 U	< 4.5 U	< 4.2 U	< 5.1 U	< 4.9 U	4.0 J	38 J	45 J
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	4.9 J	89	4.5 J	5.7	11	< 5.1 U	3.3 J	21	160	150
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	5.3	90	4.9 J	6.4	10	< 5.1 U	< 4.9 U	25	170	140
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	7.7	140	6.6	10	13	< 5.1 U	3.0 J	38	290	200
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	4.4 J	70	4.1 J	5.7	6.6	< 5.1 U	< 4.9 U	21	150	100
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	< 5.3 U	42	< 5.9 U	3.4 J	4.7	< 5.1 U	< 4.9 U	13	74	51
CHRYSENE	218-01-9	ug/kg	110000	1100	6.0	100	5.0 J	8.2	11	< 5.1 U	< 4.9 U	29	210	160
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	< 5.3 U	15	< 5.9 U	< 4.5 U	< 4.2 U	< 5.1 U	< 4.9 U	4.5 J	28	20
FLUORANTHENE	206-44-0	ug/kg	240000	1100	8.9	160	10	14	29	< 5.1 U	6.9	46	310	220
FLUORENE	86-73-7	ug/kg	240000	29000	< 5.3 U	6.2	< 5.9 U	< 4.5 U	< 4.2 U	< 5.1 U	< 4.9 U	< 4.7 U	11	11
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	4.5 J	84	4.0 J	5.7	7.2	< 5.1 U	< 4.9 U	22	160	110
Naphthalene	91-20-3	ug/kg	2000	29000	< 5.3 U	< 5.6 U	< 5.9 U	< 4.5 U	< 4.2 U	< 5.1 U	< 4.9 U	< 4.7 U	4.0 J	6.7
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	< 11 U	< 11 U	< 12 U	< 9.2 U	< 8.5 U	< 10 U	< 9.9 U	< 9.5 U	< 11 U	< 7.4 U
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	3.9 J	64	3.8 J	4.3 J	15	< 5.1 U	3.6 J	13	130	89
PYRENE	129-00-0	ug/kg	180000	1100	6.2 J	110 J	5.9 J	8.0 J	15 J	< 5.1 UJ	3.6 J	27 J	230 J	170 J
Asbestos														
ASBESTOS	1332-21-4	%			< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0040-PLS1	23D-0041-PLS1	23D-0042-PLS1	23D-0043-PLS1	23D-0044-PLS1	23D-0045-PLS1	23D-0046-B1S1	23D-0047-PLS1	23D-0047-PLS1	23D-0048-B2S1
					Sample Name	23D-0040-PLS1-AT	23D-0041-PLS1-AS	23D-0042-PLS1-AS	23D-0043-PLS1-AS	23D-0044-PLS1-AS	23D-0045-PLS1-AS	23D-0046-B1S1-AS	23D-0047-PLS1-AS	23D-0047-PLS1-BS	23D-0048-B2S1-AS
					Sample Date	7/27/2023	7/27/2023	7/27/2023	7/27/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023
					Sample Type	FD	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	262 J	246	871	218	413	306	224	334	7.44	40.0
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	3.91 J	5.04	17.6	4.16	9.40	5.50	4.29 J	5.39	< 0.264 U	< 0.514 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	3.32 J	3.44 J+	10.6 J+	2.99 J+	5.60	3.88 J	2.71 JN	4.02 JN	< 0.509 U	1.31 J
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	9.17 J	9.22 J	35.5 J	8.39 J	21.9 J	13.0 J	7.85 J	12.2 J	< 4.96 UJ	1.61 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	15.6	14.3 J+	45.6 J+	11.1 J+	22.6	19.1	12.2	19.5	< 0.542 U	2.09 JN
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	4.58 J	4.55 J+	19.0 J+	4.53 J+	11.2 J+	6.31 J+	3.94 J+	6.50 J+	< 0.256 U	0.948 JN
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	8.79	8.81	26.7	6.43	13.3	9.67	7.15	10.3 JN	< 0.509 U	1.33 JN
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 0.415 U	< 0.438 U	< 0.714 U	< 0.358 U	< 0.565 U	< 0.525 U	< 0.44 U	< 0.615 U	< 0.336 U	< 0.325 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	1.61 J	1.54 JN	4.71 JN	1.26 JN	2.29 JN	1.53 JN	1.13 JN	1.89 JN	< 0.485 UJ	< 0.595 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	2.59 J	1.79 J+	6.21 J+	1.35 J+	3.08 J+	3.06 J+	1.11 J+	2.10 J+	< 0.233 U	< 0.346 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	81.0	128	501	124	227	157	119	182	3.21 J	19.3
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	5.06	5.47	17.4	4.27	9.79	6.53	3.89 J	6.18	< 0.288 U	0.84 JN
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	14.5 J	8.71	19.6	4.16	17.3	12.1	5.16	6.88	< 0.282 U	1.03 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	< 0.482 UJ	< 0.781 UJ	1.07 JN	< 0.398 UJ	< 0.959 UJ	< 0.759 U	< 0.708 U	< 0.799 U	< 0.813 U	< 1.13 UJ
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	6.66	3.33	11.8	1.95	6.43	4.08	2.63	3.83	< 0.278 U	< 0.301 U
OCDD	3268-87-9	pg/g	16000	10500	1490	1640	6070	1640	3120	2030	1600	2270	53.6	275
OCDF	39001-02-0	pg/g	16000	10500	86.7 J	131	547	140	256	165	137	195	4.15 J	23.4
Total HpCDD (a)	RA_Total_HpCDD	pg/g			262	246	871	218	413	306	224	334	7.44	40.0
Total HpCDF (a)	RA_Total_HpCDF	pg/g			84.9	133	519	128	236	163	123	187	3.21	19.3
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		27.7	26.6	82.9	20.5	41.5	32.7	22.1	33.8	< 0.542 U	4.73
Total HxCDF (a)	RA_Total_HxCDF	pg/g			18.8	19.2	71.9	17.2	42.9	25.8	15.7	24.9	< 4.96 U	3.40
Total PeCDD (a)	RA_Total_PeCDD	pg/g			1.61	1.54	4.71	1.26	2.29	1.53	1.13	1.89	< 0.485 U	< 0.595 U
Total PeCDF (a)	RA_Total_PeCDF	pg/g			17.1	10.5	25.8	5.51	20.4	15.2	6.27	8.98	< 0.282 U	1.03
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.482 U	< 0.781 U	1.07	< 0.398 U	< 0.959 U	< 0.759 U	< 0.708 U	< 0.799 U	< 0.813 U	< 1.13 U
Total TCDF (a)	RA_Total_TCDF	pg/g			6.66	3.33	11.8	1.95	6.43	4.08	2.63	3.83	< 0.278 U	< 0.301 U
PCB Congeners															
PCB-001	2051-60-7	ng/g	230	41	3.26 J	5.03 J	14.8 J	9.31 J	30	1.32 J	1.96 J	4.08 J	< 0.0373 U	< 0.0366 U
PCB-002	2051-61-8	ng/g	230	41	0.414 JEB	< 0.0538 U	0.644 JEB	< 0.0537 U	1.54 JEB	< 0.0534 U	< 0.0534 U	< 0.0520 U	< 0.0538 U	< 0.0527 U
PCB-003	2051-62-9	ng/g	230	41	1.41 J	2.57 J	7.91 J	2.13 J	33.9	0.615 J	0.871 J	1.67 J	< 0.0524 U	< 0.0513 U
PCB-004/010	PCB-4/10	ng/g	230	41	21.4 J	16.6 J	32.4	37.2	121 J	12 J	7.83 J	13 J	< 0.0936 U	0.726 J
PCB-005/008	PCB-5/8	ng/g	230	41	25.9	29.8	69.5 J	22.6	156 J	12.4 J	13.2 J	20.7	0.201 J	0.641 J
PCB-006	25569-80-6	ng/g	230	41	12.8 J	12.3 J	16.7 J	7.17 J	31.5	2.17 J	6.88 J	2.69 J	< 0.0522 U	< 0.0511 U
PCB-007/009	PCB-7/9	ng/g	230	41	2.84 J	2.23 J	2.77 J	1.14 J	2.94 J	0.594 J	0.699 J	0.586 J	< 0.0905 U	< 0.0887 U
PCB-011	2050-67-1	ng/g	230	41	2.62 JEB	4.15 JEB	6.92 JEB	0.891 JEB	17.6 JEB	0.459 JEB	1.16 JEB	0.397 JEB	< 0.0498 U	< 0.0488 U
PCB-012/013	PCB-12/13	ng/g	230	41	10.3 J	18.6 J	34.8	2.98 J	32.9	1.74 J	4.9 J	1.26 J	< 0.0897 U	< 0.0879 U
PCB-014	34883-41-5	ng/g	230	41	< 0.0478 U	< 0.0500 U	< 0.0512 U	< 0.0499 U	< 0.0471 U	< 0.0496 U	< 0.0496 U	< 0.0484 U	< 0.0500 U	< 0.0490 U
PCB-015	2050-68-2	ng/g	230	41	45.0 JEB	133 JEB	265 JEB	24.7 EB	666 JEB	34.4 EB	43.3 JEB	10.4 JEB	< 0.0458 U	0.542 JEB
PCB-016/032	PCB-16/32	ng/g	230	41	101 JEB	130 JEB	134 JEB	34.4 EB	418 JEB	15.7 JEB	37.8 EB	13.9 JEB	0.356 JEB	1.30 JEB
PCB-017	37680-66-3	ng/g	230	41	50.5 J	61.9 J	54.7 J	21.4	142 J	13.3 J	25.3	10.6 J	< 0.0573 U	0.633 J
PCB-018	37680-65-2	ng/g	230	41	56.6 JEB	48.6 JEB	25.7 JEB	15.1 JEB	21.9 EB	13.6 JEB	34.6 EB	8.16 JEB	0.238 JEB	1.10 JEB
PCB-019	38444-73-4	ng/g	230	41	23.7	17.8 J	16.2 J	11.0 J	142 J	3.91 J	5.95 J	3.84 J	< 0.0450 U	0.367 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	27.9 EB	27.0 EB	21.8 EB	5.39 JEB	13.4 JEB	5.43 JEB	21.6 EB	4.4 JEB	< 0.139 U	0.684 JEB
PCB-022	38444-85-8	ng/g	230	41	27.2	48.2 J	45.6 J	8.47 J	45.4 J	10.8 J	29.9	2.93 J	< 0.0494 U	0.415 J
PCB-023/034	PCB-23/34	ng/g	230	41	1.98 J	2.02 J	1.90 J	< 0.0901 U	5.39 J	< 0.0896 U	0.869 J	< 0.0873 U	< 0.0903 U	< 0.0885 U
PCB-024/027	PCB-24/27	ng/g	230	41	14.1 J	24.2	23.5	6.88 J	98.6 J	3.25 J	6.47 J	3.14 J	< 0.0877 U	0.273 J
PCB-025	55712-37-3	ng/g	230	41	55.9 J	65.3 J	58.5 J	10.9 J	144 J	6.51 J	26.1	3.48 J	< 0.0508 U	0.341 J
PCB-026	38444-81-4	ng/g	230	41	88.6 J	110 J	81.6 J	17.9 J	182 J	9.85 J	43.4 J	5.56 J	< 0.0432 U	0.725 J
PCB-028	7012-37-5	ng/g	230	41	264 JEB	318 JEB	202 JEB	55.5 JEB	301 JEB	144 JEB	123 JEB	23.3 EB	0.581 JEB	1.83 JEB
PCB-029	15862-07-4	ng/g	230	41	< 0.0498 U	< 0.0522 U	< 0.0535 U	< 0.0521 U	< 0.0492 U	< 0.0518 U	< 0.0518 U	< 0.0505 U	< 0.0522 U	< 0.0511 U
PCB-030	35693-92-6	ng/g	230	41	< 0.0457 U	< 0.0478 U	< 0.0490 U	< 0.0477 U	0.464 J	< 0.0475 U	< 0.0475 U	< 0.0463 U	< 0.0478 U	< 0.0469 U
PCB-031	16606-02-3	ng/g	230	41	209 JEB	146 JEB	179 JEB	43.5 JEB	207 JEB	46.1 JEB	78.2 JEB	15.5 JEB	0.455 JEB	2.10 JEB
PCB-035	37680-69-6	ng/g	230	41	1.25 J+	1.51 J+	2.26 J+	< 0.0566 U	2.13 J+	0.997 J+	1.4 J+	< 0.0549 U	< 0.0567 U	< 0.0556 U
PCB-036	38444-87-0	ng/g	230	41	2.42 J	1.78 J	1.47 J	< 0.0483 U	2.99 J	< 0.0481 U	0.604 J	< 0.0468 U	< 0.0484 U	< 0.0474 U
PCB-037	38444-90-5	ng/g	230	41	47.2 J	66.7 J	81.0 J	9.39 J	58.2 J	51.2 J	40.2 J	7.58 J	< 0.0532 U	0.830 J
PCB-038	53555-66-1	ng/g	230	41	5.35 J	5.25 J	6.27 J	0.917 J	23.5	1.91 J	1.82 J	1.11 J	< 0.0401 U	< 0.0393 U
PCB-039	38444-88-1	ng/g	230	41	0.528 J	0.828 J	2.07 J	< 0.0246 U	9.22 J	< 0.0244 U	< 0.0244 U	< 0.0238 U	< 0.0246 U	< 0.0241 U
PCB-040	38444-93-8	ng/g	230	41	34.9	28.0	17.5 J	3.84 J	10.4 J	3.72 J	12.2 J	4.33 J	< 0.0411 U	0.702 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
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				Location	23D-0040-PLS1	23D-0041-PLS1	23D-0042-PLS1	23D-0043-PLS1	23D-0044-PLS1	23D-0045-PLS1	23D-0046-B1S1	23D-0047-PLS1	23D-0047-PLS1	23D-0048-B2S1
				Sample Name	23D-0040-PLS1-AT	23D-0041-PLS1-AS	23D-0042-PLS1-AS	23D-0043-PLS1-AS	23D-0044-PLS1-AS	23D-0045-PLS1-AS	23D-0046-B1S1-AS	23D-0047-PLS1-AS	23D-0047-PLS1-BS	23D-0048-B2S1-AS
				Sample Date	7/27/2023	7/27/2023	7/27/2023	7/27/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023
				Sample Type	FD	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-041/064	PCB-41/64	ng/g	230	41	130 J	132 J	162 J	18.1 J	192 J	37.1	46.9 J	16.3 J	0.478 J	2.51 J
PCB-042	36559-22-5	ng/g	230	41	77.2 J	79.2 J	75.1 J	11.3 J	132 J	16.4 J	31.6	11.8 J	0.219 J	2.01 J
PCB-043/049	PCB-43/49	ng/g	230	41	288 JEB	286 JEB	315 JEB	45.5 JEB	858 JEB	82 JEB	97.8 JEB	44.7 JEB	1.47 JEB	8.06 JEB
PCB-044	41464-39-5	ng/g	230	41	214 JEB	190 JEB	127 JEB	25.3 EB	113 JEB	32.5 EB	75.2 JEB	28.3 EB	1.04 JEB	5.42 JEB
PCB-045	70362-45-7	ng/g	230	41	41.6 J	33.7	28.5	4.74 J	31.7	2.96 J	10.8 J	4.59 J	< 0.0446 U	0.890 J
PCB-046	41464-47-5	ng/g	230	41	13.8 J	10.0 J	4.98 J	1.41 J	9.49 J	0.983 J	3.48 J	1.55 J	< 0.0522 U	< 0.0511 U
PCB-047/048/075	PCB-47/48/75	ng/g	230	41	181 J	182 J	225 J	34.0	914 J	68 J	60.9 J	40.4 J	0.897 J	4.74 J
PCB-050	62796-65-0	ng/g	230	41	1.09 J	1.48 J	1.85 J	0.315 J	10.3 J	< 0.0632 U	0.255 J	< 0.0616 U	< 0.0637 U	< 0.0624 U
PCB-051	68194-04-7	ng/g	230	41	20.9	23.1	25.5	4.04 J	113 J	1.7 J	4.97 J	2.29 J	< 0.0542 U	0.368 J
PCB-052/073	PCB-52/73	ng/g	230	41	319 JEB	282 JEB	265 JEB	43.0 JEB	511 JEB	73.1 JEB	98.7 JEB	56.6 JEB	1.72 JEB	10.2 JEB
PCB-053	41464-41-9	ng/g	230	41	72.9 J	61.7 J	39.8	8.69 J	108 J	5.71 J	15.6 J	9.5 J	0.271 J	1.36 J
PCB-054	15968-05-5	ng/g	230	41	1.62 J	1.63 J	1.44 J	0.315 J	11.6 J	< 0.0420 U	0.321 J	0.266 J	< 0.0423 U	< 0.0414 U
PCB-055	74338-24-2	ng/g	230	41	1.51 J	1.81 J	1.35 J	< 0.0548 U	< 0.0518 U	1.35 J	1.25 J	< 0.0532 U	< 0.0550 U	< 0.0539 U
PCB-056/060	PCB-56/60	ng/g	230	41	83.5 J	63.7 J	53.2 J	11.4 J	16.1 J	91 J	44.6 J	13.5 J	0.292 J	2.15 J
PCB-057	70424-67-8	ng/g	230	41	3.15 J	3.52 J	3.63 J	< 0.0424 U	15.9 J	1.03 J	1.29 J	0.273 J	< 0.0425 U	< 0.0416 U
PCB-058	41464-49-7	ng/g	230	41	0.932 J	0.733 J	1.06 J	< 0.0384 U	1.06 J	< 0.0382 U	0.422 J	< 0.0372 U	< 0.0385 U	< 0.0377 U
PCB-059	74472-33-6	ng/g	230	41	16.5 J	19.1 J	21.8	2.30 J	14.4 J	2.59 J	5.96 J	1.27 J	< 0.0754 U	0.420 J
PCB-061/074	PCB-61/74	ng/g	230	41	70.5 J	85.6 J	88.7 J	11.7 J	87.1 J	106 J	43.9 J	12.3 J	0.266 J	1.78 J
PCB-062	54230-22-7	ng/g	230	41	< 0.0502 U	< 0.0526 U	< 0.0539 U	< 0.0525 U	< 0.0496 U	< 0.0522 U	< 0.0522 U	< 0.0509 U	< 0.0526 U	< 0.0515 U
PCB-063	74472-34-7	ng/g	230	41	12.9 J	14.5 J	17.8 J	2.36 J	71.2 J	9.98 J	6.11 J	2 J	< 0.0395 U	< 0.0387 U
PCB-065	33284-54-7	ng/g	230	41	< 0.0724 U	< 0.0758 U	< 0.0777 U	< 0.0756 U	0.317 J	< 0.0753 U	< 0.0753 U	< 0.0733 U	< 0.0758 U	< 0.0743 U
PCB-066/080	PCB-66/80	ng/g	230	41	174 JEB	116 JEB	122 JEB	19.6 JEB	89.6 JEB	200 JEB	73.6 JEB	35.3 EB	0.938 JEB	5.24 JEB
PCB-067	73575-53-8	ng/g	230	41	5.51 J	6.70 J	5.94 J	0.796 J	4.56 J	4.27 J	3.25 J	0.713 J	< 0.0464 U	< 0.0455 U
PCB-068	73575-52-7	ng/g	230	41	2.20 J	< 0.0550 U	< 0.0563 U	< 0.0548 U	17.9 J	1.34 J	< 0.0546 U	< 0.0532 U	< 0.0550 U	< 0.0539 U
PCB-069	60233-24-1	ng/g	230	41	0.528 J	0.965 J	1.39 J	< 0.0570 U	6.34 J	< 0.0567 U	< 0.0567 U	< 0.0553 U	< 0.0571 U	< 0.0560 U
PCB-070	32598-11-1	ng/g	230	41	199 J	107 J	112 J	20.7 J	35.7	146 J	69.9 J	40 J	1.14 J	6.76 J
PCB-071	41464-46-4	ng/g	230	41	81.3 J	78.7 J	78.9 J	11.0 J	130 J	9.34 J	24.4	9.83 J	0.295 J	1.50 J
PCB-072	41464-42-0	ng/g	230	41	4.36 J	4.39 J	6.86 J	0.787 J	22.6	1.65 J	1.53 J	1.06 J	< 0.0619 U	< 0.0607 U
PCB-076	70362-48-0	ng/g	230	41	< 0.0726 U	< 0.0760 U	< 0.0779 U	< 0.0758 U	< 0.0716 U	< 0.0755 U	< 0.0754 U	< 0.0735 U	< 0.0760 U	< 0.0745 U
PCB-077	32598-13-3	ng/g	38.0	41	21.8 J+	19.7 J+	27.9 J+	3.01 J+	23.6 J+	31.5 J+	13.6 J+	6.04 J+	0.132 J+	0.714 J+
PCB-078	70362-49-1	ng/g	230	41	0.684 J	< 0.0389 U	< 0.0399 U	< 0.0388 U	0.794 J	< 0.0386 U	< 0.0386 U	< 0.0376 U	< 0.0389 U	< 0.0381 U
PCB-079	41464-48-6	ng/g	230	41	1.33 J	< 0.0488 U	< 0.0500 U	< 0.0487 U	< 0.0460 U	< 0.0485 U	< 0.0485 U	0.341 J	< 0.0488 U	< 0.0478 U
PCB-081	70362-50-4	ng/g	12.0	41	2.62 J+	1.79 J+	2.44 J+	< 0.0760 U	1.48 J+	2.49 J+	1.09 J+	0.64 J+	< 0.0762 U	< 0.0747 U
PCB-082	52663-62-4	ng/g	230	41	20.5	12.8 J	17.5 J	2.42 J	10.7 J	9.25 J	7.31 J	4.05 J	< 0.0280 U	0.504 J
PCB-083/109	PCB-83/109	ng/g	230	41	9.74 J	6.87 J	9.58 J	1.40 J	13.7 J	4.94 J	3.31 J	2.26 J	< 0.120 U	< 0.118 U
PCB-084	52663-60-2	ng/g	230	41	43.9 J	28.8	37.4	4.79 J	33.5	10.1 J	12.5 J	8.14 J	< 0.0484 U	1.16 J
PCB-085/120	PCB-85/120	ng/g	230	41	40.7 J	25.9	40.6	4.86 J	31.1	33.6	14.7 J	10.7 J	< 0.108 U	1.29 J
PCB-086/097	PCB-86/97	ng/g	230	41	41.8 J	25.3	37.8	5.03 J	21.5	28.6	14.5 J	10.7 J	< 0.0474 U	1.36 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	41	< 0.0292 U	< 0.0306 U	< 0.0313 U	< 0.0305 U	< 0.0288 U	< 0.0303 U	< 0.0303 U	< 0.0296 U	< 0.0306 U	< 0.0299 U
PCB-088/121	PCB-88/121	ng/g	230	41	< 0.106 U	< 0.111 U	< 0.113 U	< 0.110 U	< 0.104 U	< 0.110 U	< 0.110 U	< 0.107 U	< 0.110 U	< 0.108 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	41	110 J	66.8 J	119 J	14.9 J	93.6 J	81.7 J	36.1	31.4	0.681 J	3.70 J
PCB-091	68194-05-8	ng/g	230	41	36.2	27.1	40.8 J	4.86 J	75 J	14.5 J	11.2 J	7.97 J	< 0.0619 U	1.09 J
PCB-092	52663-61-3	ng/g	230	41	24.5	18.6 J	30.9	3.78 J	61.4 J	15 J	8.61 J	6.92 J	< 0.0272 U	0.803 J
PCB-093/095	PCB-93/95	ng/g	230	41	114 J	81.0 J	117 J	13.6 J	96.5 J	38.6	32.5	24	0.515 J	3.11 J
PCB-094	73575-55-0	ng/g	230	41	2.47 J	2.03 J	2.81 J	< 0.0911 U	5.91 J	0.559 J	0.697 J	0.517 J	< 0.0913 U	< 0.0894 U
PCB-096	73575-54-9	ng/g	230	41	3.34 J	2.36 J	2.70 J	0.320 J	3.77 J	0.301 J	0.726 J	0.484 J	< 0.0430 U	< 0.0422 U
PCB-098/102	PCB-98/102	ng/g	230	41	13.3 J	10.0 J	14.0 J	1.50 J	20.5	2.59 J	3.48 J	2.23 J	< 0.0797 U	< 0.0782 U
PCB-099	38380-01-7	ng/g	230	41	69.4 J	43.7 J	72.6 J	9.11 J	76.1 J	61.3 J	23.2	20.5	0.478 J	2.46 J
PCB-100	39485-83-1	ng/g	230	41	1.01 J	< 0.0486 U	1.91 J	< 0.0485 U	6.75 J	0.684 J	< 0.0483 U	0.511 J	< 0.0486 U	< 0.0476 U
PCB-103	60145-21-3	ng/g	230	41	1.83 J	1.47 J	2.36 J	0.339 J	7.32 J	0.826 J	0.692 J	0.521 J	< 0.0502 U	< 0.0492 U
PCB-104	56558-16-8	ng/g	230	41	< 0.0443 U	< 0.0464 U	< 0.0476 U	< 0.0463 U	0.396 J	< 0.0461 U	< 0.0461 U	< 0.0449 U	< 0.0464 U	< 0.0455 U
PCB-105/127	PCB-105/127	ng/g	120	41	48.8 J	28.5 J+	47.8 J	5.83 J+	31.2	68.3 J	20.9	13.9 J	0.203 J	1.63 J
PCB-106/118	PCB-106/118	ng/g	120	41	99.1 J	60.3 J	120 J	13.0 J+	90.1 J	121 J	40.1 J	32.3	0.596 J	3.56 J
PCB-107/108	PCB-107/108	ng/g	230	41	8.96 J	5.70 J	10.6 J	1.17 J	11.7 J	10.2 J	3.74 J	2.96 J	< 0.0966 U	< 0.0947 U
PCB-110	38380-03-9	ng/g	230	41	174 J	123 J	195 J	22.9	216 J	104 J	63.2 J	45.8 J	0.913 J	5.34 J
PCB-111/117	PCB-111/117	ng/g	230	41	51.5 J	33.7	55.3 J	6.30 J	48.4 J	34.6	18.1 J	12.5 J	< 0.137 U	1.50 J
PCB-112	74472-36-9	ng/g	230	41	0.763 J	0.666 J	1.22 J	< 0.0477 U	2.15 J	< 0.0475 U	< 0.0475 U	< 0.0463 U	< 0.0478 U	< 0.0469 U
PCB-113	68194-10-5	ng/g	230	41	0.889 J	< 0.0502 U	1.62 J	< 0.0501 U	2.8 J	< 0.0498 U	0.381 J	< 0.0486 U	< 0.0502 U	< 0.0492 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0040-PLS1	23D-0041-PLS1	23D-0042-PLS1	23D-0043-PLS1	23D-0044-PLS1	23D-0045-PLS1	23D-0046-B1S1	23D-0047-PLS1	23D-0047-PLS1	23D-0048-B2S1
				Sample Name	23D-0040-PLS1-AT	23D-0041-PLS1-AS	23D-0042-PLS1-AS	23D-0043-PLS1-AS	23D-0044-PLS1-AS	23D-0045-PLS1-AS	23D-0046-B1S1-AS	23D-0047-PLS1-AS	23D-0047-PLS1-BS	23D-0048-B2S1-AS
				Sample Date	7/27/2023	7/27/2023	7/27/2023	7/27/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023
				Sample Type	FD	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-114	74472-37-0	ng/g	120	41	2.92 J	2.65 J	4.08 J	< 0.0416 U	4.02 J	5.1 J	1.39 J	0.951 J	< 0.0417 U	< 0.0408 U
PCB-119	56558-17-9	ng/g	230	41	5.09 J	4.10 J	6.77 J	0.904 J	14.7 J	4.08 J	2.07 J	1.7 J	< 0.0551 U	< 0.0541 U
PCB-122	76842-07-4	ng/g	230	41	1.90 J	1.09 J	1.67 J	< 0.0350 U	1.19 J	1.95 J	0.743 J	< 0.0340 U	< 0.0351 U	< 0.0344 U
PCB-123	65510-44-3	ng/g	120	41	3.37 J+	2.29 J+	4.12 J+	0.540 J+	4.24 J+	3.99 J+	1.43 J+	1.19 J+	< 0.0325 U	< 0.0319 U
PCB-124	70424-70-3	ng/g	230	41	4.01 J	2.02 J	4.87 J	0.522 J	3.05 J	4.45 J	1.4 J	1.24 J	< 0.0438 U	< 0.0430 U
PCB-125	74472-39-2	ng/g	230	41	1.06 J	< 0.0480 U	< 0.0492 U	< 0.0479 U	0.838 J	< 0.0477 U	< 0.0477 U	< 0.0465 U	< 0.0480 U	< 0.0471 U
PCB-126	57465-28-8	ng/g	0.0360	41	0.701 J+	< 0.0683 U	< 0.0699 U	< 0.0681 U	2.31 J+	1.16 J+	< 0.0678 U	< 0.0660 U	< 0.0682 U	< 0.0669 U
PCB-128	38380-07-3	ng/g	230	41	9.16 J	6.37 J	18.5 J	2.26 J	16.1 J	10.4 J	4.83 J	4.74 J	< 0.0482 U	0.430 J
PCB-129	55215-18-4	ng/g	230	41	2.24 J	1.35 J	4.19 J	0.416 J	3.61 J	2.28 J	1.03 J	0.989 J	< 0.0530 U	< 0.0519 U
PCB-130	52663-66-8	ng/g	230	41	3.55 J	2.57 J	6.67 J	0.748 J	7.59 J	3.8 J	1.65 J	1.54 J	< 0.0417 U	< 0.0408 U
PCB-131/142	PCB-131/142	ng/g	230	41	0.695 J	< 0.103 U	1.39 J	< 0.102 U	1.16 J	< 0.102 U	< 0.102 U	< 0.0993 U	< 0.103 U	< 0.101 U
PCB-132/168	PCB-132/168	ng/g	230	41	17.6 J	12.4 J	30.4	3.56 J	29.5	12.9 J	7.64 J	6.75 J	< 0.120 U	0.682 J
PCB-133	35694-04-3	ng/g	230	41	0.810 J	< 0.0373 U	1.49 J	< 0.0372 U	2.82 J	< 0.0370 U	< 0.0370 U	< 0.0361 U	< 0.0373 U	< 0.0366 U
PCB-134	52704-70-8	ng/g	230	41	2.61 J	1.61 J	4.72 J	0.495 J	4.88 J	1.93 J	1.18 J	1.12 J	< 0.0988 U	< 0.0968 U
PCB-135/144	PCB-135/144	ng/g	230	41	7.72 J	5.41 J	12.8 J	1.44 J	15.7 J	5.74 J	3.16 J	2.96 J	< 0.104 U	0.248 J
PCB-136	38411-22-2	ng/g	230	41	6.23 J	4.04 J	9.73 J	1.15 J	9.49 J	3.34 J	2.24 J	2.16 J	< 0.0865 U	0.188 J
PCB-137	35694-06-5	ng/g	230	41	3.12 J	2.21 J	6.45 J	0.692 J	5.68 J	3.2 J	1.55 J	1.55 J	< 0.0484 U	< 0.0474 U
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	50.4 J	33.7	97.2 J	11.4 J	94.7 J	57.5 J	24.5	24.2	0.376 J	2.34 J
PCB-139/149	PCB-139/149	ng/g	230	41	32.9	23.2	55.8 J	6.78 J	62.9 J	26.5	14.1 J	13.3 J	0.223 J	1.30 J
PCB-140	59291-64-4	ng/g	230	41	< 0.0675 U	< 0.0706 U	< 0.0724 U	< 0.0705 U	0.806 J	< 0.0701 U	< 0.0701 U	< 0.0683 U	< 0.0706 U	< 0.0692 U
PCB-141	52712-04-6	ng/g	230	41	7.57 J	4.99 J	13.5 J	1.45 J	11.3 J	6.8 J	3.24 J	3.19 J	< 0.0496 U	< 0.0486 U
PCB-143	68194-15-0	ng/g	230	41	< 0.0608 U	< 0.0637 U	< 0.0653 U	< 0.0636 U	< 0.0600 U	< 0.0632 U	< 0.0632 U	< 0.0616 U	< 0.0637 U	< 0.0624 U
PCB-145	74472-40-5	ng/g	230	41	< 0.0803 U	< 0.0841 U	< 0.0862 U	< 0.0839 U	< 0.0793 U	< 0.0835 U	< 0.0835 U	< 0.0814 U	< 0.0841 U	< 0.0824 U
PCB-146	51908-16-8	ng/g	230	41	5.47 J	3.82 J	9.98 J	1.25 J	12.4 J	5.14 J	2.45 J	2.46 J	< 0.0569 U	0.229 J
PCB-147	68194-13-8	ng/g	230	41	1.23 J	1.03 J	2.72 J	0.397 J	6.35 J	1.29 J	0.676 J	0.756 J	< 0.0742 U	< 0.0727 U
PCB-148	74472-41-6	ng/g	230	41	< 0.0743 U	< 0.0778 U	< 0.0797 U	< 0.0776 U	0.449 J	< 0.0772 U	< 0.0772 U	< 0.0753 U	< 0.0778 U	< 0.0762 U
PCB-150	68194-08-1	ng/g	230	41	0.113 J	< 0.0786 U	0.158 J	< 0.0784 U	0.45 J	< 0.0780 U	< 0.0780 U	< 0.0760 U	< 0.0786 U	< 0.0770 U
PCB-151	52663-63-5	ng/g	230	41	8.01 J	6.00 J	13.1 J	1.63 J	18.5 J	5.82 J	3.35 J	3.01 J	< 0.0569 U	0.317 J
PCB-152	68194-09-2	ng/g	230	41	0.154 J	< 0.0919 U	0.186 J	< 0.0917 U	0.596 J	< 0.0912 U	< 0.0912 U	< 0.0889 U	< 0.0918 U	< 0.0900 U
PCB-153	35065-27-1	ng/g	230	41	30.4	20.6	57.9 J	6.92 J	56.3 J	33.4	14.2 J	15 J	0.265 J	1.45 J
PCB-154	60145-22-4	ng/g	230	41	0.652 J	0.544 J	1.25 J	< 0.0546 U	2.7 J	0.537 J	0.342 J	0.379 J	< 0.0548 U	< 0.0537 U
PCB-155	33979-03-2	ng/g	230	41	< 0.0451 U	< 0.0472 U	< 0.0484 U	< 0.0471 U	< 0.0445 U	< 0.0469 U	< 0.0469 U	< 0.0457 U	< 0.0472 U	< 0.0463 U
PCB-156	38380-08-4	ng/g	120	41	4.30 J	3.06 J-	9.13 J-	0.923 J-	9.27 J	6.33 J	2.3 J	2.1 J	< 0.0397 U	< 0.0389 U
PCB-157	69782-90-7	ng/g	120	41	1.42 J+	0.884 J	2.68 J	0.259 J	2.78 J+	1.66 J+	0.596 J+	0.697 J+	< 0.0551 U	< 0.0541 U
PCB-158/160	PCB-158/160	ng/g	230	41	4.92 J	3.40 J	9.88 J	1.09 J	8.7 J	4.55 J	2.28 J	2.14 J	< 0.121 U	< 0.119 U
PCB-159	39635-35-3	ng/g	230	41	< 0.0728 U	< 0.0762 U	< 0.0781 U	< 0.0760 U	0.762 J	< 0.0757 U	< 0.0756 U	< 0.0737 U	< 0.0762 U	< 0.0747 U
PCB-161	74472-43-8	ng/g	230	41	< 0.0680 U	< 0.0712 U	< 0.0730 U	< 0.0711 U	< 0.0671 U	< 0.0707 U	< 0.0707 U	< 0.0689 U	< 0.0712 U	< 0.0698 U
PCB-162	39635-34-2	ng/g	230	41	< 0.0536 U	< 0.0562 U	< 0.0575 U	< 0.0560 U	0.666 J	< 0.0558 U	< 0.0558 U	< 0.0543 U	< 0.0561 U	< 0.0550 U
PCB-165	74472-46-1	ng/g	230	41	< 0.0735 U	< 0.0770 U	< 0.0789 U	< 0.0768 U	< 0.0726 U	< 0.0764 U	< 0.0764 U	< 0.0745 U	< 0.0770 U	< 0.0754 U
PCB-166	41411-63-6	ng/g	230	41	< 0.0633 U	< 0.0663 U	< 0.0679 U	< 0.0661 U	0.586 J	< 0.0658 U	< 0.0658 U	< 0.0641 U	< 0.0663 U	< 0.0649 U
PCB-167	52663-72-6	ng/g	120	41	1.78 J+	1.24 J+	3.74 J+	0.367 J+	3.71 J	2.3 J	0.778 J	0.922 J	< 0.0510 U	< 0.0500 U
PCB-169	32774-16-6	ng/g	0.120	41	< 0.0536 U	< 0.0562 U	< 0.0575 U	< 0.0560 U	< 0.0529 U	< 0.0558 U	< 0.0558 U	< 0.0543 U	< 0.0561 U	< 0.0550 U
PCB-170/190	PCB-170/190	ng/g	230	41	9.63 J	6.12 J	14.8 J	1.80 J	25.9	10.5 J	4.1 J	3.7 J	< 0.0924 U	0.330 J
PCB-171	52663-71-5	ng/g	230	41	2.52 J	1.54 J	3.95 J	0.410 J	6.48 J	2.17 J	1.03 J	0.833 J	< 0.0734 U	< 0.0719 U
PCB-172/192	PCB-172/192	ng/g	230	41	1.28 J	0.824 J	1.78 J	0.238 J	3.74 J	1.27 J	0.487 J	0.463 J	< 0.122 U	< 0.119 U
PCB-173	68194-16-1	ng/g	230	41	< 0.0785 U	< 0.0821 U	< 0.0842 U	< 0.0820 U	< 0.0774 U	< 0.0816 U	< 0.0816 U	< 0.0795 U	< 0.0821 U	< 0.0805 U
PCB-174	38411-25-5	ng/g	230	41	8.23 J	5.11 J	11.8 J	1.39 J	20.4	7.83 J	3.2 J	3.1 J	< 0.103 U	0.344 J
PCB-175	40186-70-7	ng/g	230	41	0.341 J	< 0.0633 U	0.432 J	< 0.0632 U	0.989 J	< 0.0628 U	< 0.0628 U	< 0.0612 U	< 0.0633 U	< 0.0620 U
PCB-176	52663-65-7	ng/g	230	41	0.969 J	0.581 J	1.42 J	0.132 J	2.59 J	0.621 J	0.337 J	0.293 J	< 0.0591 U	< 0.0579 U
PCB-177	52663-70-4	ng/g	230	41	5.11 J	3.13 J	7.28 J	0.891 J	13.6 J	5.06 J	2.01 J	1.87 J	< 0.0738 U	< 0.0723 U
PCB-178	52663-67-9	ng/g	230	41	1.79 J	1.21 J	2.57 J	0.241 J	5.49 J	1.73 J	0.522 J	0.577 J	< 0.0926 U	< 0.0908 U
PCB-179	52663-64-6	ng/g	230	41	3.07 J	2.05 J	4.35 J	0.517 J	8.25 J	2.54 J	1.14 J	1.09 J	< 0.0490 U	< 0.0480 U
PCB-180	35065-29-3	ng/g	230	41	17.5 J	11.4 J	26.0	3.19 J	47.4 J	15.2 J	6.76 J	6.5 J	0.150 J	0.741 J
PCB-181	74472-47-2	ng/g	230	41	< 0.0536 U	< 0.0562 U	< 0.0575 U	< 0.0560 U	< 0.0529 U	< 0.0558 U	< 0.0558 U	< 0.0543 U	< 0.0561 U	< 0.0550 U
PCB-182/187	PCB-182/187	ng/g	230	41	9.41 J	6.50 J	14.0 J	1.76 J	27.8	8.8 J	4.02 J	3.64 J	< 0.148 U	0.403 J
PCB-183	52663-69-1	ng/g	230	41	4.03 J	2.62 J	6.42 J	0.679 J	11.4 J	2.91 J	1.52 J	1.51 J	< 0.0734 U	< 0.0719 U
PCB-184	74472-48-3	ng/g	230	41	< 0.0508 U	< 0.0532 U	< 0.0545 U	< 0.0531 U	< 0.0501 U	< 0.0528 U	< 0.0528 U	< 0.0514 U	< 0.0532 U	< 0.0521 U
PCB-185	52712-05-7	ng/g	230	41	0.971 J	0.597 J	1.41 J	< 0.0735 U	2.42 J	0.979 J	0.331 J	0.334 J	< 0.0736 U	< 0.0721 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0040-PLS1	23D-0041-PLS1	23D-0042-PLS1	23D-0043-PLS1	23D-0044-PLS1	23D-0045-PLS1	23D-0046-B1S1	23D-0047-PLS1	23D-0047-PLS1	23D-0048-B2S1
					Sample Name	23D-0040-PLS1-AT	23D-0041-PLS1-AS	23D-0042-PLS1-AS	23D-0043-PLS1-AS	23D-0044-PLS1-AS	23D-0045-PLS1-AS	23D-0046-B1S1-AS	23D-0047-PLS1-AS	23D-0047-PLS1-BS	23D-0048-B2S1-AS
					Sample Date	7/27/2023	7/27/2023	7/27/2023	7/27/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023
					Sample Type	FD	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-186	74472-49-4	ng/g	230	41	< 0.0635 U	< 0.0665 U	< 0.0681 U	< 0.0663 U	< 0.0627 U	< 0.0660 U	< 0.0660 U	< 0.0643 U	< 0.0665 U	< 0.0651 U
PCB-188	74487-85-7	ng/g	230	41	< 0.0582 U	< 0.0609 U	< 0.0624 U	< 0.0608 U	< 0.0574 U	< 0.0605 U	< 0.0605 U	< 0.0589 U	< 0.0609 U	< 0.0597 U
PCB-189	39635-31-9	ng/g	130	41	0.364 J	0.318 J	0.651 J	< 0.0618 U	1.34 J	0.425 J	< 0.0615 U	< 0.0599 U	< 0.0619 U	< 0.0607 U
PCB-191	74472-50-7	ng/g	230	41	0.328 J	0.194 J	0.449 J	< 0.0558 U	0.881 J	0.227 J	< 0.0556 U	< 0.0541 U	< 0.0559 U	< 0.0548 U
PCB-193	69782-91-8	ng/g	230	41	0.880 J	0.495 J	1.20 J	0.151 J	2.52 J	0.975 J	0.357 J	0.317 J	< 0.0706 U	< 0.0692 U
PCB-194	35694-08-7	ng/g	230	41	5.49 J	3.53 J	6.88 J	1.02 J	17.3 J	5.36 J	2.12 J	2.02 J	< 0.0893 U	< 0.0875 U
PCB-195	52663-78-2	ng/g	230	41	2.06 J	1.12 J	2.59 J	< 0.158 U	5.83 J	2.47 J	0.581 J	0.782 J	< 0.158 U	< 0.155 U
PCB-196/203	PCB-196/203	ng/g	230	41	5.48 J	3.49 J	7.90 J	0.860 J	18.5 J	5.47 J	2.08 J	2.05 J	< 0.150 U	< 0.147 U
PCB-197	33091-17-7	ng/g	230	41	< 0.0639 U	< 0.0669 U	< 0.0685 U	< 0.0667 U	0.501 J	< 0.0664 U	< 0.0664 U	< 0.0647 U	< 0.0669 U	< 0.0655 U
PCB-198	68194-17-2	ng/g	230	41	< 0.104 U	< 0.109 U	< 0.111 U	< 0.108 U	0.805 J	< 0.108 U	< 0.108 U	< 0.105 U	< 0.109 U	< 0.106 U
PCB-199	52663-75-9	ng/g	230	41	4.54 J	3.23 J	6.83 J	0.806 J	15.8 J	5.2 J	2 J	1.76 J	< 0.104 U	< 0.102 U
PCB-200	52663-73-7	ng/g	230	41	0.549 J	< 0.0532 U	0.774 J	< 0.0531 U	1.83 J	0.534 J	< 0.0528 U	< 0.0514 U	< 0.0532 U	< 0.0521 U
PCB-201	40186-71-8	ng/g	230	41	0.591 J	< 0.0421 U	0.786 J	< 0.0420 U	1.92 J	0.363 J	< 0.0418 U	< 0.0407 U	< 0.0421 U	< 0.0412 U
PCB-202	2136-99-4	ng/g	230	41	0.713 J	0.562 J	1.14 J	< 0.0717 U	2.94 J	0.821 J	0.306 J	0.277 J	< 0.0718 U	< 0.0704 U
PCB-204	74472-52-9	ng/g	230	41	< 0.0839 U	< 0.0879 U	< 0.0901 U	< 0.0877 U	< 0.0828 U	< 0.0873 U	< 0.0873 U	< 0.0850 U	< 0.0879 U	< 0.0861 U
PCB-205	74472-53-0	ng/g	230	41	< 0.0595 U	< 0.0623 U	< 0.0638 U	< 0.0622 U	0.78 J	< 0.0619 U	< 0.0619 U	< 0.0603 U	< 0.0623 U	< 0.0611 U
PCB-206	40186-72-9	ng/g	230	41	2.12 J	1.45 J	3.87 J	0.524 J	8.31 J	2.67 J	0.959 J	1.26 J	< 0.0597 U	< 0.0585 U
PCB-207	52663-79-3	ng/g	230	41	< 0.0754 U	< 0.0790 U	0.414 J	< 0.0788 U	0.917 J	< 0.0784 U	< 0.0784 U	< 0.0764 U	< 0.0790 U	< 0.0774 U
PCB-208	52663-77-1	ng/g	230	41	0.595 J	0.433 J	1.15 J	< 0.0788 U	2.22 J	0.608 J	0.214 J	0.307 J	< 0.0790 U	< 0.0774 U
PCB-209	2051-24-3	ng/g	230	41	1.11 J	0.666 J	1.84 J	0.373 J	2.12 J	0.998 J	0.596 J	0.862 J	< 0.0454 U	< 0.0445 U
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0	1.11	0.666	1.84	0.373	2.12	0.998	0.596	0.862	< 0.0454 U	< 0.0445 U
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0	66.4	42.7	98.5	11.4	181	61.2	25.8	24.2	0.150	1.82
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0	203	138	374	43.2	390	195	92.1	90.0	0.864	7.18
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0	19.4	11.9	26.9	2.69	66.2	20.2	7.09	6.89	< 0.158 U	< 0.155 U
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14	4410	3950	4730	809	8110	2270	1760	869	15.4	104
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0	936	617	1000	118	990	661	323	243	3.39	27.5
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0	121	217	428	96.7	1030	63.8	78.0	49.0	0.201	1.91
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0	5.08	7.60	23.4	11.4	65.4	1.94	2.83	5.75	< 0.0538 U	< 0.0527 U
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0	2.72	1.88	5.43	0.524	11.4	3.28	1.17	1.57	< 0.079 U	< 0.0774 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0	2080	1840	1830	284	3550	933	750	344	9.16	54.8
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0	977	1080	938	241	1820	327	477	104	1.63	10.6
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700		7400	5100	5100	9500	6100 J	4800 J	5900 J	6200 J	4400 J	3300 J
Calcium	7440-70-2	mg/kg			1900	1500	2100	2100	2100	2000	1800	2000	1200	810
Iron	7439-89-6	mg/kg	5500		11000	9200	7400	16000	11000 J	8300 J	9300 J	7400 J	3900 J	3100 J
Magnesium	7439-95-4	mg/kg			3300	2100	1400	2800	2600 J	2200 J	2400 J	1900 J	620 J	660 J
Potassium	7440-09-7	mg/kg			490 J	450 J	430 J	830	460 J	340 J	500	310 J	110 J	130 J
Sodium	7440-23-5	mg/kg			130 J	170 J	230 J	85 J	86 JEB	44 JEB	61 JEB	67 JEB	32 JEB	27 JEB
Antimony	7440-36-0	mg/kg	3.1	0.27	0.22 J	0.28 J	0.55 J	0.38 J	< 1.0 U	< 0.87 U	< 0.94 U	< 1.0 U	< 1.1 U	< 0.97 U
Arsenic	7440-38-2	mg/kg	0.68	18	2.5	1.5	2.2	3.7	2.0	2.4	1.6	1.6	0.89	1.2
Barium	7440-39-3	mg/kg	1500	110	27	18	98	48	37 J	28 J	23 J	18 J	19 J	24 J
Beryllium	7440-41-7	mg/kg	16	2.5	< 0.54 U	< 0.55 U	< 0.63 U	< 0.58 U	< 0.51 U	< 0.43 U	< 0.47 U	< 0.50 U	< 0.54 U	< 0.48 U
Cadmium	7440-43-9	mg/kg	0.71	0.36	0.16 J	0.086 J	0.60 J	0.16 J	0.31 J	0.22 J	0.43 J	0.087 J	< 0.54 U	0.097 J
Chromium, Total	7440-47-3	mg/kg	0.3	23	21	15	32	20	23	17	12	13	7.2	12
Cobalt	7440-48-4	mg/kg	2.3	13	3.5	3.6	4.0	4.9	5.6 J	3.7 J	4.0 J	2.4 J	0.98 J	1.7 J
Copper	7440-50-8	mg/kg	310	28	26	27	42	24	26	18	13	19	1.1	19
Lead	7439-92-1	mg/kg	200	11	60	50	110	40	56	45	22	26	2.9	28
Manganese	7439-96-5	mg/kg	180	220	120 EB	130 EB	130 EB	330 EB	220	180	110	57	56	62
Nickel	7440-02-0	mg/kg	140	38	5.2	5.9	8.4	7.8	10 J	6.0 J	6.1 J	4.2 J	1.7 J	4.1 J
Selenium	7782-49-2	mg/kg	39	0.52	0.69 J	0.70 J	1.1 J	1.0 J	< 2.6 U	0.61 J	0.74 J	1.0 J	0.76 J	< 2.4 U
Silver	7440-22-4	mg/kg	39	4.2	0.072 J	0.076 J	0.20 J	0.12 J	0.094 J	0.079 J	0.044 J	0.048 J	0.031 J	0.053 J
Thallium	7440-28-0	mg/kg	0.078	0.05	0.031 J	0.032 J	0.064 J	0.038 J	0.025 J	0.032 J	0.024 J	0.024 J	< 0.54 U	0.024 J
Vanadium	7440-62-2	mg/kg	39	7.8	12	11	13	16	23	17	10	6.4	8.2	7.2
Zinc	7440-66-6	mg/kg	2300	46	44 EB	56 EB	60 EB	49 EB	89 EB	53 EB	50 EB	25 EB	4.7 EB	44 EB
Mercury	7439-97-6	mg/kg	2.3	0.013	0.40	0.12	0.41	0.18	0.15 J-	0.22 J-	0.066 J-	0.13 J-	0.028 J-	0.054 J-

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0040-PLS1	23D-0041-PLS1	23D-0042-PLS1	23D-0043-PLS1	23D-0044-PLS1	23D-0045-PLS1	23D-0046-B1S1	23D-0047-PLS1	23D-0047-PLS1	23D-0048-B2S1
					Sample Name	23D-0040-PLS1-AT	23D-0041-PLS1-AS	23D-0042-PLS1-AS	23D-0043-PLS1-AS	23D-0044-PLS1-AS	23D-0045-PLS1-AS	23D-0046-B1S1-AS	23D-0047-PLS1-AS	23D-0047-PLS1-BS	23D-0048-B2S1-AS
					Sample Date	7/27/2023	7/27/2023	7/27/2023	7/27/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023
					Sample Type	FD	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
2-HEXANONE	591-78-6	ug/kg	20000	360	< 10 U	< 11 U	< 15 U	< 12 U	< 13 U	< 12 U	< 10 U	< 13 U	< 11 U	< 11 U
ACETONE	67-64-1	ug/kg	7000000	1200	< 10 U	< 11 U	< 15 U	< 12 U	< 13 U	< 12 U	< 10 U	87	< 11 U	< 11 U
Benzene	71-43-2	ug/kg	1200	120	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
BROMOFORM	75-25-2	ug/kg	19000	70	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
BROMOMETHANE	74-83-9	ug/kg	680	2	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 5.2 UJ	< 5.6 UJ	< 7.5 UJ	< 5.8 UJ	< 6.3 UJ	< 6.2 UJ	< 5.1 UJ	< 6.7 UJ	< 5.7 UJ	< 5.3 UJ
Chloroform	67-66-3	ug/kg	320	50	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 5.2 UJ	< 5.6 UJ	< 7.5 UJ	< 5.8 UJ	< 6.3 UJ	< 6.2 UJ	< 5.1 UJ	< 6.7 UJ	< 5.7 UJ	< 5.3 UJ
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Cyclohexane	110-82-7	ug/kg	650000		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Ethylbenzene	100-41-4	ug/kg	5800	270	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	< 10 U	< 11 U	< 15 U	< 12 U	< 13 U	< 12 U	< 10 U	< 13 U	< 11 U	< 11 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 10 U	< 11 U	< 15 U	< 12 U	< 13 U	< 12 U	< 10 U	< 13 U	< 11 U	< 11 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Methylene Chloride	75-09-2	ug/kg	35000	210	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Styrene	100-42-5	ug/kg	600000	1200	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Toluene	108-88-3	ug/kg	490000	150	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U
Vinyl Chloride	75-01-4	ug/kg	59	30	< 5.2 U	< 5.6 U	< 7.5 U	< 5.8 U	< 6.3 U	< 6.2 U	< 5.1 U	< 6.7 U	< 5.7 U	< 5.3 U

Table 15
Floodplain Soil Analytical Results
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					Location	23D-0040-PLS1	23D-0041-PLS1	23D-0042-PLS1	23D-0043-PLS1	23D-0044-PLS1	23D-0045-PLS1	23D-0046-B1S1	23D-0047-PLS1	23D-0047-PLS1	23D-0048-B2S1
					Sample Name	23D-0040-PLS1-AT	23D-0041-PLS1-AS	23D-0042-PLS1-AS	23D-0043-PLS1-AS	23D-0044-PLS1-AS	23D-0045-PLS1-AS	23D-0046-B1S1-AS	23D-0047-PLS1-AS	23D-0047-PLS1-BS	23D-0048-B2S1-AS
					Sample Date	7/27/2023	7/27/2023	7/27/2023	7/27/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023
					Sample Type	FD	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 200 U	< 190 U	< 240 U	< 210 U	< 210 U	< 200 U	< 190 U	< 220 U	< 220 U	< 210 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 79 U	< 76 U	< 96 U	< 82 U	< 84 U	< 78 U	< 77 U	< 86 U	< 86 U	< 85 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 200 U	< 190 U	< 240 U	< 210 U	< 210 U	< 200 U	< 190 U	< 220 U	< 220 U	< 210 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 200 UJ	< 190 UJ	< 240 UJ	< 210 UJ	< 210 UJ	< 200 UJ	< 190 UJ	< 220 UJ	< 220 UJ	< 210 UJ
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 200 UJ	370 J	< 240 UJ	< 210 UJ	< 210 U	< 200 U	< 190 U	< 220 U	< 220 U	< 210 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 200 U	< 190 U	< 240 U	< 210 U	< 210 U	< 200 U	< 190 U	< 220 U	< 220 U	< 210 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 200 U	< 190 U	< 240 U	< 210 U	< 210 U	< 200 U	< 190 U	< 220 U	< 220 U	< 210 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 390 U	< 370 U	< 480 U	< 410 UJ	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 390 U	< 370 U	< 480 U	< 410 U	< 410 R	< 390 R	< 380 R	< 420 R	< 420 R	< 420 R
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	< 220 U	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	-	-	-	-	-	-	-	< 220 U	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 200 U	< 190 U	< 240 U	< 210 U	< 210 U	< 200 U	< 190 U	< 220 U	< 220 U	< 210 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 200 U	< 190 U	< 240 U	< 210 U	< 210 U	< 200 U	< 190 U	< 220 U	< 220 U	< 210 U
Caprolactam	105-60-2	ug/kg	3100000		< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 UJ	< 380 U	< 420 U	< 420 U	< 420 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 200 U	< 190 U	< 240 U	< 210 U	< 210 U	< 200 UJ	< 190 U	< 220 U	< 220 U	< 210 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 200 U	< 190 U	< 240 U	< 210 U	< 210 U	< 200 U	< 190 U	< 220 U	< 220 U	< 210 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 390 U	< 370 U	< 480 U	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 390 UJ	< 370 UJ	< 480 UJ	< 410 U	< 410 U	< 390 U	< 380 U	< 420 U	< 420 U	< 420 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 200 U	< 190 U	< 240 U	< 210 UJ	< 210 UJ	< 200 UJ	< 190 UJ	< 220 UJ	< 220 UJ	< 210 UJ
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	-	-	-	-	-	-	-	< 220 U	-
ISOPHORONE	78-59-1	ug/kg	570000		< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R

Table 15
Floodplain Soil Analytical Results
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					Location	23D-0040-PLS1	23D-0041-PLS1	23D-0042-PLS1	23D-0043-PLS1	23D-0044-PLS1	23D-0045-PLS1	23D-0046-B1S1	23D-0047-PLS1	23D-0047-PLS1	23D-0048-B2S1
					Sample Name	23D-0040-PLS1-AT	23D-0041-PLS1-AS	23D-0042-PLS1-AS	23D-0043-PLS1-AS	23D-0044-PLS1-AS	23D-0045-PLS1-AS	23D-0046-B1S1-AS	23D-0047-PLS1-AS	23D-0047-PLS1-BS	23D-0048-B2S1-AS
					Sample Date	7/27/2023	7/27/2023	7/27/2023	7/27/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023	7/28/2023
					Sample Type	FD	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
Naphthalene	91-20-3	ug/kg	2000	29000	-	-	-	-	-	-	-	-	-	-	
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 200 U	< 190 U	< 240 U	< 210 U	< 210 U	< 200 U	< 190 U	< 220 U	< 220 U	< 210 U	
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 200 U	< 190 U	< 240 U	< 210 U	< 210 R	< 200 R	< 190 R	< 220 R	< 220 R	< 210 R	
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 200 U	< 190 U	< 240 U	< 210 U	< 210 U	< 200 U	< 190 U	< 220 U	< 220 U	< 210 U	
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	-	-	-	-	-	-	-	-	-	
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-	
PHENOL	108-95-2	ug/kg	1900000	790	< 390 U	< 370 U	< 480 U	< 410 U	< 410 R	< 390 R	< 380 R	< 420 R	< 420 R	< 420 R	
PYRENE	129-00-0	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-	
1-Methylnaphthalene	90-12-0	ug/kg	18	140	3.5 J	< 3.7 U	4.1 J	< 4.0 U	< 4.2 U	< 3.9 U	< 3.8 U	< 4.3 U	< 4.2 U	< 4.1 U	
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	4.5	< 3.7 U	3.6 J	< 4.0 U	< 4.2 U	< 3.9 U	< 3.8 U	< 4.3 U	< 4.2 U	< 4.1 U	
Acenaphthene	83-32-9	ug/kg	360000	29000	4.7	4.1	12	< 4.0 U	4.6	< 3.9 U	< 3.8 U	< 4.3 U	< 4.2 U	< 4.1 U	
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	21	8.7	15	4.6	7.4	3.6 J	4.4	3.8 J	< 4.2 U	< 4.1 U	
ANTHRACENE	120-12-7	ug/kg	1800000	29000	37 J	21 J	60 J	8.4 J	17 J	11 J	8.3 J	8.8 J	-	3.8 J	
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	120	110	190	42	92 J-	46 J-	43 J-	38 J-	-	21 J-	
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	120	120	200	49	100 J-	45 J-	49 J-	40 J-	< 4.2 R	23 J-	
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	170	220	360	180	150 J-	58 J-	68 J-	59 J-	3.8 J-	37 J-	
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	85	97	160	36	59 J-	28 J-	36 J-	29 J-	2.2 J-	18 J-	
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	42	42	70	21	36 J-	19 J-	23 J-	18 J-	< 4.2 R	11 J-	
CHRYSENE	218-01-9	ug/kg	110000	1100	120	140	230	55	110 J-	49 J-	55 J-	46 J-	2.8 J-	27 J-	
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	17	15	26	8.1	14 J-	6.8 J-	8.1 J-	6.4 J-	< 4.2 R	4.1 J-	
FLUORANTHENE	206-44-0	ug/kg	240000	1100	180	200	440	150	160 J-	69 J-	65 J-	67 J-	3.8 J-	36 J-	
FLUORENE	86-73-7	ug/kg	240000	29000	9.6	5.6	15	< 4.0 U	6.3	2.5 J	< 3.8 U	< 4.3 U	< 4.2 U	< 4.1 U	
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	94	110	170	44	87 J-	31 J-	38 J-	31 J-	-	20 J-	
Naphthalene	91-20-3	ug/kg	2000	29000	4.6	2.7 J	5.6	< 4.0 U	2.9 J	< 3.9 U	< 3.8 U	< 4.3 U	< 4.2 U	< 4.1 U	
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	< 7.8 U	< 7.6 U	< 9.6 U	< 8.2 U	< 8.4 U	< 7.8 U	< 7.7 U	< 8.6 U	< 8.6 U	< 8.4 U	
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	83	57	190	25	48 J-	30 J-	24 J-	23 J-	< 4.2 R	9.9 J-	
PYRENE	129-00-0	ug/kg	180000	1100	140 J	140 J	280 J	51 J	110 J	52 J	51 J	43 J	2.7 J	25 J	
Asbestos															
ASBESTOS	1332-21-4	%			< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	

Table 15
Floodplain Soil Analytical Results
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Lower Neponset River
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					Location	23D-0048-B2S1	23D-0049-B1S1	23D-0049-B1S1	23D-0050-PLS1	23D-0051-B1S1	23D-0052-PLS1	23D-0053-PLS1	23D-0053-PLS1	23D-0054-PLS1	23D-0055-PLS1
					Sample Name	23D-0048-B2S1-BS	23D-0049-B1S1-AS	23D-0049-B1S1-BS	23D-0050-PLS1-AS	23D-0051-B1S1-AS	23D-0052-PLS1-AS	23D-0053-PLS1-AS	23D-0053-PLS1-BS	23D-0054-PLS1-AS	23D-0055-PLS1-AS
					Sample Date	7/28/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.4 ft	0 - 1 ft	0 - 0.9 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	0.974 J	98.9	77.6	387	1010	2740	845	271	2100	486
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	< 0.285 U	1.56 J	1.07 J	12.1	19.7	61.8	17.3	14.4	49.4	13.2 J
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	< 0.331 U	1.85 J+	1.4 J+	4.74 J+	11.6 J+	27.4 J+	9.19 J+	4.64 J+	20.9 J+	6.36 J+
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	< 4.51 UJ	3.35 J	2.3 J	37.7 J	53.4 J	187 J	53.4 J	90.9 J	142 J	44.1 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	< 0.345 U	7.21 J+	5.25 J+	23.4 J+	52.5 J+	150 J+	51.3 J+	18.3 J+	113 J+	30.0 J+
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	< 0.204 U	1.67 J+	1.33 J+	15.3 J+	22.7 J+	75.0 J+	21.1 J+	26.5 J+	54.4 J+	16.8 J+
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	< 0.313 U	4.23	3.16	13.0	29.0	83.8	27.6	10.2	49.9	16.5
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 0.311 U	< 0.241 U	< 0.283 U	< 0.497 U	< 1.31 U	< 0.987 U	< 0.763 U	< 0.676 U	< 1.34 U	< 0.45 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	< 0.357 UJ	0.902 JN	0.832 JN	2.54 JN	4.92 JN	9.27 JN	4.33 JN	3.28 J	8.11 JN	2.54 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	< 0.225 U	1.41 J+	1.14 J+	11.4 J+	8.31 J+	39.0 J+	28.3 J+	122 J+	37.9 J+	11.8 J+
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	0.374 JN	43.6	37.3	223	573	1230	391	148	866	257
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	< 0.26 U	2.08 J	1.8 J	15.3	21.3	72.2	21.3	17.3	56.6	16.4 J
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	< 0.272 U	3.79	4.73	61.8	40.2	301	88.3	115	238	75.2 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	< 0.83 U	< 0.396 UJ	< 0.458 UJ	1.15 JN	1.22 JN	5.51 J	1.34 J	1.61 JN	3.58 J	0.904 J+
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	< 0.221 U	6.75	2.54	16.5	43.8	115	77.4	384	124	38.0 J
OCDD	3268-87-9	pg/g	16000	10500	10.6	469	496	2660	7870	19300 J	5790	1800	18100 J	3350
OCDF	39001-02-0	pg/g	16000	10500	< 0.639 U	34.5	33.9	192	573	1140	401	168	1030	261
Total HpCDD (a)	RA_Total_HpCDD	pg/g			0.974	98.9	77.6	387	1010	2740	845	271	2100	486
Total HpCDF (a)	RA_Total_HpCDF	pg/g			0.374	45.2	38.4	235	593	1290	408	162	915	270
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		< 0.345 U	13.3	9.81	41.1	93.1	261	88.1	33.1	184	52.9
Total HxCDF (a)	RA_Total_HxCDF	pg/g			< 4.51 U	7.10	5.43	68.3	97.4	334	95.8	135	253	77.3
Total PeCDD (a)	RA_Total_PeCDD	pg/g			< 0.357 U	0.902	0.832	2.54	4.92	9.27	4.33	3.28	8.11	2.54
Total PeCDF (a)	RA_Total_PeCDF	pg/g			< 0.272 U	5.20	5.87	73.2	48.5	340	117	237	276	87.0
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.83 U	< 0.396 U	< 0.458 U	1.15	1.22	5.51	1.34	1.61	3.58	0.904
Total TCDF (a)	RA_Total_TCDF	pg/g			< 0.221 U	6.75	2.54	16.5	43.8	115	77.4	384	124	38.0
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	41	< 0.0340 U	0.551 J	0.369 J	28.4	33.1	955 J	7.08 J	< 0.0371 U	135 J	3.10 J
PCB-002	2051-61-8	ng/g	230	41	< 0.0489 U	< 0.0518 U	< 0.0516 U	2.25 JEB	1.04 JEB	53.9 JEB	1.03 JEB	< 0.0535 U	18.8 JEB	1.02 JEB
PCB-003	2051-62-9	ng/g	230	41	< 0.0477 U	< 0.0504 U	< 0.0503 U	24.8	15.0 J	716 J	10.4 J	< 0.0521 U	188 J	8.33 J
PCB-004/010	PCB-4/10	ng/g	230	41	< 0.0852 U	2.17 J	4.83 J	245 J	142 J	2780 J	47.3 J	7.57 J	637 J	42.6 J
PCB-005/008	PCB-5/8	ng/g	230	41	< 0.0815 U	3.34 J	8.80 J	250 J	112 J	1910 J	58.7 J	2.71 J+	1120 J	47.4 J
PCB-006	25569-80-6	ng/g	230	41	< 0.0475 U	1.26 J	4.43 J	65.5 J	33.3	1010 J	26.5	1.08 J+	384 J	56.6 J
PCB-007/009	PCB-7/9	ng/g	230	41	< 0.0824 U	< 0.0871 U	0.810 J	12.0 J	8.33 J	49.5 J	3.41 J	< 0.0901 U	48.7 J	3.42 J
PCB-011	2050-67-1	ng/g	230	41	< 0.0453 U	0.215 JEB	0.475 JEB	21.5 EB	19.6 JEB	208 JEB	16.0 JEB	< 0.0496 U	126 JEB	40.8 JEB
PCB-012/013	PCB-12/13	ng/g	230	41	< 0.0816 U	0.794 J	1.80 J	61.7 J	70.9 J	588 J	73.7 J	3.88 J+	552 J	107 J
PCB-014	34883-41-5	ng/g	230	41	< 0.0455 U	< 0.0481 U	< 0.0480 U	< 0.0497 U	< 0.0500 U	< 0.0498 U	< 0.0487 U	< 0.0498 U	< 0.0499 U	< 0.0482 U
PCB-015	2050-68-2	ng/g	230	41	< 0.0417 U	2.82 JEB	5.21 JEB	965 JEB	803 JEB	4770 JEB	518 JEB	39.9 JEB	5500 JEB	663 JEB
PCB-016/032	PCB-16/32	ng/g	230	41	< 0.118 U	5.79 JEB	35.6 EB	2220 JEB	368 JEB	23600 JEB	987 JEB	127 JEB	8000 JEB	1750 JEB
PCB-017	37680-66-3	ng/g	230	41	< 0.0522 U	3.03 JEB	14.1 JEB	973 JEB	199 JEB	5780 JEB	188 JEB	26.4 EB	1210 JEB	639 JEB
PCB-018	37680-65-2	ng/g	230	41	< 0.0603 U	4.58 JEB	20.9 JEB	227 JEB	65.7 JEB	4020 JEB	304 JEB	44.9 JEB	1410 JEB	878 JEB
PCB-019	38444-73-4	ng/g	230	41	< 0.0410 U	1.15 J	8.74 J	821 J	80.7 J	10400 J	240 J	33.0	2910 J	467 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	< 0.126 U	2.73 JEB	11.0 JEB	120 JEB	26.4 EB	607 JEB	242 JEB	132 JEB	981 JEB	576 JEB
PCB-022	38444-85-8	ng/g	230	41	< 0.0450 U	2.06 J	5.96 J	137 J	66.3 J	1360 J	397 J	64.9 J	2490 J	882 J
PCB-023/034	PCB-23/34	ng/g	230	41	< 0.0822 U	< 0.0869 U	0.674 J	7.19 J	7.90 J	123 J	9.24 J	< 0.0899 U	73.4 J	18.9 J
PCB-024/027	PCB-24/27	ng/g	230	41	< 0.0798 U	0.753 J	2.89 J	710 J	84.0 J	3760 J	205 J	28.6	1890 J	304 J
PCB-025	55712-37-3	ng/g	230	41	< 0.0462 U	2.69 J	6.93 J	295 J	255 J	2670 J	208 J	31.2	1970 J	531 J
PCB-026	38444-81-4	ng/g	230	41	< 0.0394 U	4.77 JEB	15.9 JEB	637 JEB	301 JEB	6140 JEB	554 JEB	80.9 JEB	4390 JEB	1330 JEB
PCB-028	7012-37-5	ng/g	230	41	< 0.0433 U	13.9 JEB	35.6 EB	1850 JEB	595 JEB	3490 JEB	1780 JEB	254 JEB	5030 JEB	1960 JEB
PCB-029	15862-07-4	ng/g	230	41	< 0.0475 U	< 0.0502 U	< 0.0501 U	1.10 JEB	< 0.0522 U	8.32 JEB	< 0.0508 U	< 0.0519 U	3.16 JEB	1.85 JEB
PCB-030	35693-92-6	ng/g	230	41	< 0.0435 U	< 0.0460 U	< 0.0459 U	0.952 J	< 0.0478 U	5.99 J	< 0.0466 U	< 0.0476 U	6.85 J	1.01 J
PCB-031	16606-02-3	ng/g	230	41	< 0.0547 U	10.8 JEB	36.2 EB	415 JEB	513 JEB	2990 JEB	459 JEB	66.6 JEB	2580 JEB	1250 JEB
PCB-035	37680-69-6	ng/g	230	41	< 0.0517 U	< 0.0546 U	< 0.0544 U	5.69 J+	3.51 J+	48.7 J	22.9 J+	133 J	39.8 J	15.9 J+
PCB-036	38444-87-0	ng/g	230	41	< 0.0441 U	< 0.0466 U	0.930 J	11.2 J	4.30 J	23.7	22.3	< 0.0482 U	91.5 J	27.6
PCB-037	38444-90-5	ng/g	230	41	< 0.0484 U	3.60 J	8.13 J	173 J	107 J	946 J	427 J	64.0 J	1440 J	415 J
PCB-038	53555-66-1	ng/g	230	41	< 0.0365 U	0.933 J	1.52 J	51.7 J	20.6	566 J	41.6 J	< 0.0399 U	404 J	52.5 J
PCB-039	38444-88-1	ng/g	230	41	< 0.0224 U	< 0.0237 U	< 0.0236 U	7.78 J	4.15 J	81.7 J	6.44 J	< 0.0245 U	55.9 J	11.3 J
PCB-040	38444-93-8	ng/g	230	41	< 0.0374 U	5.43 J	14.5 J	92.8 J	32.2	202 J	343 J	52.2 J	1370 J	480 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0048-B2S1	23D-0049-B1S1	23D-0049-B1S1	23D-0050-PLS1	23D-0051-B1S1	23D-0052-PLS1	23D-0053-PLS1	23D-0053-PLS1	23D-0054-PLS1	23D-0055-PLS1
					Sample Name	23D-0048-B2S1-BS	23D-0049-B1S1-AS	23D-0049-B1S1-BS	23D-0050-PLS1-AS	23D-0051-B1S1-AS	23D-0052-PLS1-AS	23D-0053-PLS1-AS	23D-0053-PLS1-BS	23D-0054-PLS1-AS	23D-0055-PLS1-AS
					Sample Date	7/28/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.4 ft	0 - 1 ft	0 - 0.9 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-041/064	PCB-41/64	ng/g	230	41		< 0.0849 U	15.6 J	39.9 J	512 J	372 J	878 J	1150 J	184 J	3960 J	1570 J
PCB-042	36559-22-5	ng/g	230	41		< 0.0934 U	11.3 J	29.8	348 J	152 J	3510 J	867 J	138 J	4230 J	1250 J
PCB-043/049	PCB-43/49	ng/g	230	41		< 0.0986 U	41.8 JEB	90.9 JEB	1950 JEB	809 JEB	19700 JEB	2730 JEB	498 JEB	13300 JEB	3970 JEB
PCB-044	41464-39-5	ng/g	230	41		< 0.0497 U	28.7 EB	80.0 JEB	800 JEB	260 JEB	2920 JEB	2310 JEB	371 JEB	9320 JEB	3200 JEB
PCB-045	70362-45-7	ng/g	230	41		< 0.0406 U	5.25 J	17.4 J	189 J	70.6 J	196 J	427 J	69.2 J	1600 J	520 J
PCB-046	41464-47-5	ng/g	230	41		< 0.0475 U	1.60 J	6.70 J	40.8 J	8.08 J	933 J	138 J	22.1	646 J	206 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	41		< 0.155 U	31.1 EB	59.5 JEB	1970 JEB	805 JEB	12000 JEB	1570 JEB	240 JEB	7450 JEB	1950 JEB
PCB-050	62796-65-0	ng/g	230	41		< 0.0580 U	< 0.0613 U	< 0.0611 U	23.2	7.22 J	154 J	11.9 J	1.74 J	93.1 J	18.0 J
PCB-051	68194-04-7	ng/g	230	41		< 0.0493 U	1.77 J	6.91 J	404 J	93.3 J	4140 J	212 J	31.0	1370 J	280 J
PCB-052/073	PCB-52/73	ng/g	230	41		< 0.113 U	50.6 JEB	106 JEB	1710 JEB	651 JEB	15300 JEB	3000 JEB	482 JEB	13400 JEB	4090 JEB
PCB-053	41464-41-9	ng/g	230	41		< 0.0439 U	7.75 J	22.9	986 J	136 J	7010 J	610 J	86.5 J	2970 J	799 J
PCB-054	15968-05-5	ng/g	230	41		< 0.0385 U	0.130 J	0.486 J	43.0 J	6.87 J	426 J	14.2 J	2.14 J	112 J	17.5 J
PCB-055	74338-24-2	ng/g	230	41		< 0.0500 U	< 0.0529 U	0.571 J	9.97 J	2.84 J	2.25 J+	17.3 J	< 0.0547 U	31.2	17.1 J
PCB-056/060	PCB-56/60	ng/g	230	41		< 0.0977 U	12.1 J	29.8	183 J	58.8 J	109 J	886 J	131 J	1160 J	862 J
PCB-057	70424-67-8	ng/g	230	41		< 0.0386 U	< 0.0409 U	0.566 J	46.1 J	16.3 J	145 J	28.3	< 0.0423 U	111 J	42.8 J
PCB-058	41464-49-7	ng/g	230	41		< 0.0350 U	0.212 J	< 0.0369 U	4.17 J	1.53 J	15.7 J+	8.67 J	< 0.0383 U	20.0	10.9 J
PCB-059	74472-33-6	ng/g	230	41		< 0.0686 U	1.78 J	4.56 J	80.2 J	48.3 J	< 0.0751 U	166 J	27.4	496 J	184 J
PCB-061/074	PCB-61/74	ng/g	230	41		< 0.0901 U	9.86 J	26.1	431 J	151 J	575 J	918 J	146 J	1680 J	919 J
PCB-062	54230-22-7	ng/g	230	41		< 0.0479 U	< 0.0506 U	< 0.0504 U	< 0.0523 U	< 0.0526 U	< 0.0524 U	< 0.0512 U	< 0.0523 U	< 0.0524 U	< 0.0507 U
PCB-063	74472-34-7	ng/g	230	41		< 0.0359 U	1.61 J	3.34 J	156 J	55.4 J	516 J	128 J	18.7 J	395 J	170 J
PCB-065	33284-54-7	ng/g	230	41		< 0.0690 U	< 0.0730 U	< 0.0727 U	0.563 J	< 0.0758 U	2.11 J+	< 0.0738 U	< 0.0754 U	3.69 J	0.761 J
PCB-066/080	PCB-66/80	ng/g	230	41		< 0.0874 U	25.8 EB	53.0 JEB	366 JEB	158 JEB	1390 JEB	1620 JEB	262 JEB	2100 JEB	1320 JEB
PCB-067	73575-53-8	ng/g	230	41		< 0.0423 U	0.545 J	1.53 J	35.0	11.4 J	37.9 J+	72.2 J	10.9 J	130 J	69.3 J
PCB-068	73575-52-7	ng/g	230	41		< 0.0500 U	< 0.0529 U	< 0.0527 U	25.3	15.3 J	163 J	< 0.0535 U	< 0.0547 U	< 0.0548 U	< 0.0530 U
PCB-069	60233-24-1	ng/g	230	41		< 0.0520 U	< 0.0550 U	< 0.0548 U	10.3 J	5.19 J	30.9 J+	6.07 J	< 0.0569 U	28.4	6.51 J
PCB-070	32598-11-1	ng/g	230	41		< 0.0470 U	35.4 J	68.0 J	319 J	112 J	371 J	1650 J	273 J	1920 J	1350 J
PCB-071	41464-46-4	ng/g	230	41		< 0.0636 U	9.81 JEB	28.4 EB	483 JEB	152 JEB	3340 JEB	734 JEB	104 JEB	2790 JEB	989 JEB
PCB-072	41464-42-0	ng/g	230	41		< 0.0563 U	0.690 J	1.05 J	45.2 J	25.4	222 J	29.4	< 0.0616 U	165 J	41.8 J
PCB-076	70362-48-0	ng/g	230	41		< 0.0692 U	< 0.0732 U	< 0.0729 U	< 0.0756 U	< 0.0760 U	< 0.0757 U	< 0.0740 U	< 0.0756 U	< 0.0758 U	< 0.0733 U
PCB-077	32598-13-3	ng/g	38.0	41		< 0.0408 U	4.20 J+	6.20 J+	65.7 J	40.6 J	355 J	169 J	23.9 J+	562 J	142 J
PCB-078	70362-49-1	ng/g	230	41		< 0.0354 U	< 0.0374 U	< 0.0373 U	3.35 J	1.73 J	7.09 J+	5.19 J	< 0.0387 U	13.7 J	5.11 J
PCB-079	41464-48-6	ng/g	230	41		< 0.0444 U	< 0.0470 U	< 0.0468 U	6.44 J	< 0.0488 U	8.02 J+	< 0.0475 U	< 0.0486 U	18.9 J	9.90 J
PCB-081	70362-50-4	ng/g	12.0	41		< 0.0694 U	0.545 J+	0.809 J+	7.55 J+	3.55 J+	8.70 J+	18.7 J+	< 0.0758 U	53.6 J	14.7 J+
PCB-082	52663-62-4	ng/g	230	41		< 0.0255 U	4.30 J	6.57 J	82.6 J	36.7	51.8 J	179 J	35.1	488 J	155 J
PCB-083/109	PCB-83/109	ng/g	230	41		< 0.109 U	2.24 J	3.03 J	58.7 J	28.5	190 J	76.1 J	14.4 J	294 J	89.9 J
PCB-084	52663-60-2	ng/g	230	41		< 0.0441 U	8.86 J	14.7 J	185 J	91.2 J	498 J	359 J	64.2 J	1290 J	437 J
PCB-085/120	PCB-85/120	ng/g	230	41		< 0.0982 U	10.1 J	13.3 J	168 J	83.9 J	98.7 J	305 J	60.8 J	651 J	270 J
PCB-086/097	PCB-86/97	ng/g	230	41		< 0.0432 U	9.63 J	14.3 J	152 J	61.8 J	236 J	368 J	68.1 J	811 J	322 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	41		< 0.0278 U	< 0.0294 U	< 0.0293 U	< 0.0304 U	< 0.0306 U	< 0.0304 U	< 0.0298 U	< 0.0304 U	< 0.0305 U	< 0.0295 U
PCB-088/121	PCB-88/121	ng/g	230	41		< 0.101 U	< 0.106 U	< 0.106 U	3.50 J	1.71 J	6.15 J	6.66 J	< 0.110 U	16.5 J	5.10 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	41		< 0.109 U	25.4	34.9	487 J	199 J	1270 J	907 J	162 J	2120 J	845 J
PCB-091	68194-05-8	ng/g	230	41		< 0.0563 U	7.52 J	11.3 J	228 J	128 J	1120 J	282 J	50.6 J	1180 J	349 J
PCB-092	52663-61-3	ng/g	230	41		< 0.0247 U	5.07 J	6.79 J	185 J	98.4 J	991 J	185 J	33.2	795 J	223 J
PCB-093/095	PCB-93/95	ng/g	230	41		< 0.0728 U	21.3	34.6	664 J	310 J	884 J	877 J	157 J	3160 J	1060 J
PCB-094	73575-55-0	ng/g	230	41		< 0.0831 U	< 0.0879 U	0.704 J	26.7	10.3 J	130 J	17.5 J	3.42 J	85.6 J	21.3
PCB-096	73575-54-9	ng/g	230	41		< 0.0392 U	0.603 J	1.24 J	18.3 J	7.95 J	58.1 J	27.2	4.93 J	101 J	34.7
PCB-098/102	PCB-98/102	ng/g	230	41		< 0.0726 U	2.24 J	4.10 J	101 J	47.1 J	272 J	97.7 J	17.8 J	433 J	121 J
PCB-099	38380-01-7	ng/g	230	41		< 0.0401 U	17.3 J	22.4	364 J	151 J	982 J	583 J	103 J	1450 J	554 J
PCB-100	39485-83-1	ng/g	230	41		< 0.0442 U	< 0.0468 U	< 0.0466 U	14.0 J	6.97 J	180 J	8.73 J	1.50 J	48.8 J	11.1 J
PCB-103	60145-21-3	ng/g	230	41		< 0.0457 U	0.320 J	0.492 J	21.1	8.74 J	170 J	13.9 J	2.34 J	74.4 J	18.9 J
PCB-104	56558-16-8	ng/g	230	41		< 0.0423 U	< 0.0447 U	< 0.0445 U	0.763 J	0.270 J	16.3 J	0.347 J	< 0.0462 U	2.36 J	0.431 J
PCB-105/127	PCB-105/127	ng/g	120	41		< 0.0717 U	11.3 J+	14.9 J+	210 J	76.1 J	198 J	412 J	72.7 J	963 J	351 J
PCB-106/118	PCB-106/118	ng/g	120	41		< 0.0856 U	24.3 J+	29.4 J+	469 J	186 J	1090 J	862 J	165 J	1940 J	771 J
PCB-107/108	PCB-107/108	ng/g	230	41		< 0.0880 U	2.18 J	2.68 J	46.1 J	19.0 J	192 J	76.9 J	14.7 J	186 J	71.2 J
PCB-110	38380-03-9	ng/g	230	41		< 0.0410 U	37.5 EB	49.1 JEB	953 JEB	533 JEB	2130 JEB	1290 JEB	244 JEB	4930 JEB	1550 JEB
PCB-111/117	PCB-111/117	ng/g	230	41		< 0.125 U	11.1 J	16.0 J	223 J	103 J	420 J	432 J	84.0 J	1140 J	372 J
PCB-112	74472-36-9	ng/g	230	41		< 0.0435 U	< 0.0460 U	< 0.0459 U	6.85 J	3.18 J	16.7 J	5.95 J	< 0.0476 U	26.2	6.59 J
PCB-113	68194-10-5	ng/g	230	41		< 0.0457 U	< 0.0483 U	< 0.0482 U	11.6 J	7.90 J	16.1 J	6.24 J	< 0.0500 U	49.4 J	8.37 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0048-B2S1	23D-0049-B1S1	23D-0049-B1S1	23D-0050-PLS1	23D-0051-B1S1	23D-0052-PLS1	23D-0053-PLS1	23D-0053-PLS1	23D-0054-PLS1	23D-0055-PLS1
					Sample Name	23D-0048-B2S1-BS	23D-0049-B1S1-AS	23D-0049-B1S1-BS	23D-0050-PLS1-AS	23D-0051-B1S1-AS	23D-0052-PLS1-AS	23D-0053-PLS1-AS	23D-0053-PLS1-BS	23D-0054-PLS1-AS	23D-0055-PLS1-AS
					Sample Date	7/28/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.4 ft	0 - 1 ft	0 - 0.9 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-114	74472-37-0	ng/g	120	41	< 0.0379 U	0.876 J	1.07 J	21.9	7.61 J	18.7 J	34.9	< 0.0415 U	84.6 J	31.7
PCB-119	56558-17-9	ng/g	230	41	< 0.0502 U	1.19 J	1.33 J	42.3 J	22.4	284 J	37.9	7.04 J	170 J	45.0 J
PCB-122	76842-07-4	ng/g	230	41	< 0.0320 U	< 0.0338 U	< 0.0337 U	6.87 J	2.40 J	7.88 J	17.6 J	< 0.0350 U	33.3	14.0 J
PCB-123	65510-44-3	ng/g	120	41	< 0.0296 U	1.00 J+	1.13 J+	17.3 J+	7.87 J+	33.6 J+	30.9 J+	6.36 J+	76.2 J	25.6 J+
PCB-124	70424-70-3	ng/g	230	41	< 0.0399 U	1.02 J	1.24 J	15.0 J	5.85 J	23.1	36.1	6.63 J	69.2 J	28.2
PCB-125	74472-39-2	ng/g	230	41	< 0.0437 U	< 0.0462 U	< 0.0461 U	2.57 J	< 0.0480 U	22.5	9.34 J	< 0.0478 U	19.2 J	8.44 J
PCB-126	57465-28-8	ng/g	0.0360	41	< 0.0621 U	< 0.0657 U	< 0.0655 U	6.13 J+	3.40 J+	19.7 J+	6.72 J+	< 0.0679 U	24.0 J+	6.78 J+
PCB-128	38380-07-3	ng/g	230	41	< 0.0439 U	2.30 J	2.27 J	70.8 J	39.0	143 J	69.1 J	15.0 J	222 J	57.8 J
PCB-129	55215-18-4	ng/g	230	41	< 0.0482 U	0.519 J	0.530 J	16.9 J	7.01 J	27.2	19.6	< 0.0527 U	48.3 J	15.5 J
PCB-130	52663-66-8	ng/g	230	41	< 0.0379 U	0.849 J	0.889 J	30.7	17.5 J	65.7 J	24.2	4.66 J	95.8 J	22.9
PCB-131/142	PCB-131/142	ng/g	230	41	< 0.0934 U	< 0.0988 U	< 0.0984 U	5.50 J	2.85 J	8.15 J	5.90 J	< 0.102 U	18.8 J	4.79 J
PCB-132/168	PCB-132/168	ng/g	230	41	< 0.109 U	3.69 J	4.17 J	133 J	75.6 J	263 J	119 J	19.7	461 J	124 J
PCB-133	35694-04-3	ng/g	230	41	< 0.0340 U	< 0.0359 U	< 0.0358 U	8.31 J	5.16 J	39.2	5.04 J	< 0.0371 U	26.5	5.60 J
PCB-134	52704-70-8	ng/g	230	41	< 0.0899 U	0.475 J	0.510 J	21.5	11.9 J	61.8 J	18.7 J	2.62 J	72.5 J	19.2
PCB-135/144	PCB-135/144	ng/g	230	41	< 0.0945 U	1.74 J	1.86 J	66.0 J	36.6	147 J	51.4 J	9.49 J	219 J	53.8 J
PCB-136	38411-22-2	ng/g	230	41	< 0.0787 U	1.27 J	1.59 J	41.2 J	23.6	114 J	40.9 J	7.47 J	161 J	45.8 J
PCB-137	35694-06-5	ng/g	230	41	< 0.0441 U	0.694 J	0.820 J	24.9	11.3 J	63.0 J	24.2	4.39 J	69.2 J	20.0
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	< 0.141 U	11.9 J	12.0 J	374 J	201 J	893 J	352 J	60.0 J	1140 J	300 J
PCB-139/149	PCB-139/149	ng/g	230	41	< 0.130 U	7.24 J	7.88 J	254 J	147 J	655 J	221 J	39.7 J	867 J	231 J
PCB-140	59291-64-4	ng/g	230	41	< 0.0643 U	< 0.0680 U	< 0.0678 U	3.32 J	1.87 J	10.4 J	1.99 J	< 0.0703 U	10.2 J	2.62 J
PCB-141	52712-04-6	ng/g	230	41	< 0.0452 U	1.77 J	2.12 J	51.9 J	22.3	90.0 J	60.9 J	11.1 J	151 J	51.0 J
PCB-143	68194-15-0	ng/g	230	41	< 0.0580 U	< 0.0613 U	< 0.0611 U	2.56 J	0.839 J	4.80 J	2.36 J	< 0.0634 U	6.46 J	2.00 J
PCB-145	74472-40-5	ng/g	230	41	< 0.0766 U	< 0.0810 U	< 0.0807 U	0.501 J	0.250 J	1.09 J	0.371 J	< 0.0837 U	1.82 J	0.372 J
PCB-146	51908-16-8	ng/g	230	41	< 0.0518 U	1.30 J	1.38 J	44.8 J	25.2	155 J	35.4	5.89 J	139 J	37.0
PCB-147	68194-13-8	ng/g	230	41	< 0.0675 U	0.270 J	< 0.0712 U	12.8 J	7.55 J	140 J	9.05 J	1.79 J	43.6 J	10.3 J
PCB-148	74472-41-6	ng/g	230	41	< 0.0708 U	< 0.0749 U	< 0.0746 U	0.949 J	< 0.0778 U	10.9 J	0.410 J	< 0.0774 U	3.03 J	0.610 J
PCB-150	68194-08-1	ng/g	230	41	< 0.0715 U	< 0.0757 U	< 0.0754 U	0.918 J	0.435 J	11.1 J	0.486 J	< 0.0782 U	2.84 J	0.724 J
PCB-151	52663-63-5	ng/g	230	41	< 0.0518 U	1.73 J	2.01 J	68.1 J	37.4	224 J	55.9 J	10.5 J	237 J	63.1 J
PCB-152	68194-09-2	ng/g	230	41	< 0.0836 U	< 0.0885 U	< 0.0881 U	1.80 J	0.823 J	11.4 J	0.999 J	< 0.0914 U	5.27 J	1.12 J
PCB-153	35065-27-1	ng/g	230	41	< 0.0455 U	7.54 J	7.59 J	222 J	111 J	659 J	214 J	38.0	670 J	200 J
PCB-154	60145-22-4	ng/g	230	41	< 0.0498 U	0.136 J	< 0.0525 U	7.92 J	4.69 J	59.7 J	4.13 J	< 0.0545 U	23.8	5.66 J
PCB-155	33979-03-2	ng/g	230	41	< 0.0430 U	< 0.0455 U	< 0.0453 U	< 0.0470 U	< 0.0473 U	0.741 J	< 0.0460 U	< 0.0470 U	< 0.0471 U	< 0.0455 U
PCB-156	38380-08-4	ng/g	120	41	< 0.0361 U	1.02 J-	1.02 J-	44.2 J	18.8 J-	98.6 J	38.7 J	< 0.0395 R	112 J	30.0 J-
PCB-157	69782-90-7	ng/g	120	41	< 0.0502 U	0.321 J	0.227 J	10.9 J	5.41 J	28.6 J	9.85 J	< 0.0549 UJ	30.0 J	8.20 J
PCB-158/160	PCB-158/160	ng/g	230	41	< 0.110 U	1.10 J	1.15 J	41.9 J	19.8 J	75.0 J	36.7	6.83 J	119 J	29.9
PCB-159	39635-35-3	ng/g	230	41	< 0.0694 U	< 0.0734 U	< 0.0731 U	2.12 J	1.28 J	8.59 J	1.46 J	< 0.0758 U	6.84 J	1.87 J
PCB-161	74472-43-8	ng/g	230	41	< 0.0648 U	< 0.0686 U	< 0.0683 U	< 0.0709 U	< 0.0713 U	< 0.0709 U	< 0.0694 U	< 0.0709 U	0.753 J	< 0.0687 U
PCB-162	39635-34-2	ng/g	230	41	< 0.0511 U	< 0.0541 U	< 0.0539 U	2.05 J	1.04 J	7.22 J	1.97 J	< 0.0559 U	6.01 J	1.75 J
PCB-165	74472-46-1	ng/g	230	41	< 0.0701 U	< 0.0741 U	< 0.0739 U	0.854 J	0.724 J	4.50 J	< 0.0750 U	< 0.0766 U	3.01 J	< 0.0742 U
PCB-166	41411-63-6	ng/g	230	41	< 0.0603 U	< 0.0638 U	< 0.0636 U	2.60 J	1.34 J	4.92 J	2.15 J	< 0.0660 U	6.75 J	1.81 J
PCB-167	52663-72-6	ng/g	120	41	< 0.0464 U	0.384 J+	0.348 J+	14.6 J+	6.82 J+	40.6 J	14.0 J+	< 0.0508 U	39.8 J	10.8 J
PCB-169	32774-16-6	ng/g	0.120	41	< 0.0511 U	< 0.0541 U	< 0.0539 U	< 0.0559 U	< 0.0562 U	< 0.0559 U	< 0.0547 U	< 0.0559 U	< 0.0560 U	< 0.0542 U
PCB-170/190	PCB-170/190	ng/g	230	41	< 0.0842 U	2.34 J	2.41 J	83.4 J	41.2 J	289 J	71.0 J	12.6 J	247 J	64.3 J
PCB-171	52663-71-5	ng/g	230	41	< 0.0668 U	0.512 J	0.550 J	20.0	10.7 J	66.7 J	16.3 J	2.92 J	61.4 J	15.5 J
PCB-172/192	PCB-172/192	ng/g	230	41	< 0.111 U	0.321 J	0.284 J	10.1 J	5.38 J	39.2	8.95 J	< 0.121 U	31.6	8.48 J
PCB-173	68194-16-1	ng/g	230	41	< 0.0748 U	< 0.0791 U	< 0.0788 U	1.59 J	0.875 J	4.93 J	1.36 J	< 0.0818 U	4.84 J	1.14 J
PCB-174	38411-25-5	ng/g	230	41	< 0.0937 U	2.10 J	1.95 J	61.4 J	31.6	208 J	59.0 J	9.56 J	199 J	57.6 J
PCB-175	40186-70-7	ng/g	230	41	< 0.0576 U	< 0.0609 U	< 0.0607 U	2.82 J	1.38 J	9.16 J	2.10 J	< 0.0630 U	8.99 J	2.09 J
PCB-176	52663-65-7	ng/g	230	41	< 0.0538 U	0.200 J	0.205 J	7.40 J	3.91 J	27.1	6.31 J	1.10 J	25.7	6.69 J
PCB-177	52663-70-4	ng/g	230	41	< 0.0672 U	1.25 J	1.19 J	39.8 J	22.2	145 J	32.9	5.33 J	129 J	34.0
PCB-178	52663-67-9	ng/g	230	41	< 0.0843 U	0.430 J	0.385 J	14.2 J	8.28 J	62.4 J	11.4 J	1.93 J	49.3 J	12.4 J
PCB-179	52663-64-6	ng/g	230	41	< 0.0446 U	0.743 J	0.813 J	23.7	12.9 J	97.5 J	20.2	3.55 J	86.5 J	22.8
PCB-180	35065-29-3	ng/g	230	41	< 0.0594 U	4.33 J	4.59 J	141 J	69.5 J	527 J	126 J	21.9	440 J	119 J
PCB-181	74472-47-2	ng/g	230	41	< 0.0511 U	< 0.0541 U	< 0.0539 U	< 0.0559 U	< 0.0562 U	< 0.0559 U	< 0.0547 U	< 0.0559 U	< 0.0560 U	< 0.0542 U
PCB-182/187	PCB-182/187	ng/g	230	41	< 0.134 U	2.32 J	2.32 J	72.4 J	42.0 J	307 J	63.3 J	11.0 J	254 J	66.7 J
PCB-183	52663-69-1	ng/g	230	41	< 0.0668 U	0.935 J	1.04 J	33.1	17.5 J	118 J	28.0	4.71 J	109 J	27.6
PCB-184	74472-48-3	ng/g	230	41	< 0.0484 U	< 0.0512 U	< 0.0510 U	< 0.0529 U	< 0.0532 U	< 0.0530 U	< 0.0518 U	< 0.0529 U	< 0.0530 U	< 0.0513 U
PCB-185	52712-05-7	ng/g	230	41	< 0.0670 U	0.208 J	< 0.0706 U	7.09 J	3.51 J	22.7	6.98 J	1.19 J	22.9	6.75 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0048-B2S1	23D-0049-B1S1	23D-0049-B1S1	23D-0050-PLS1	23D-0051-B1S1	23D-0052-PLS1	23D-0053-PLS1	23D-0053-PLS1	23D-0054-PLS1	23D-0055-PLS1
				Sample Name	23D-0048-B2S1-BS	23D-0049-B1S1-AS	23D-0049-B1S1-BS	23D-0050-PLS1-AS	23D-0051-B1S1-AS	23D-0052-PLS1-AS	23D-0053-PLS1-AS	23D-0053-PLS1-BS	23D-0054-PLS1-AS	23D-0055-PLS1-AS
				Sample Date	7/28/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.4 ft	0 - 1 ft	0 - 0.9 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-186	74472-49-4	ng/g	230	41	< 0.0605 U	< 0.0640 U	< 0.0638 U	< 0.0661 U	< 0.0665 U	< 0.0662 U	< 0.0647 U	< 0.0662 U	< 0.0663 U	< 0.0641 U
PCB-188	74487-85-7	ng/g	230	41	< 0.0554 U	< 0.0587 U	< 0.0584 U	< 0.0606 U	< 0.0610 U	1.93 J	< 0.0593 U	< 0.0606 U	0.276 J	< 0.0587 U
PCB-189	39635-31-9	ng/g	130	41	< 0.0563 U	< 0.0596 U	< 0.0594 U	3.79 J	1.86 J	14.6 J	3.03 J	< 0.0616 U	10.5 J	2.69 J
PCB-191	74472-50-7	ng/g	230	41	< 0.0509 U	< 0.0539 U	< 0.0537 U	2.84 J	1.33 J	9.80 J	2.39 J	< 0.0557 U	8.28 J	2.11 J
PCB-193	69782-91-8	ng/g	230	41	< 0.0643 U	0.235 J	0.200 J	7.11 J	3.52 J	31.6	5.76 J	0.982 J	22.0	6.10 J
PCB-194	35694-08-7	ng/g	230	41	< 0.0813 U	1.74 J	1.43 J	43.0 J	22.9	219 J	40.7 J	7.75 J	146 J	38.4 J
PCB-195	52663-78-2	ng/g	230	41	< 0.144 U	0.509 J	0.433 J	14.6 J	8.01 J	71.1 J	13.1 J	2.33 J	48.9 J	12.8 J
PCB-196/203	PCB-196/203	ng/g	230	41	< 0.137 U	1.56 J	1.48 J	42.3 J	22.9	210 J	37.2	7.10 J	148 J	36.6
PCB-197	33091-17-7	ng/g	230	41	< 0.0609 U	< 0.0644 U	< 0.0642 U	1.23 J	0.619 J	6.14 J	1.10 J	< 0.0666 U	4.44 J	1.12 J
PCB-198	68194-17-2	ng/g	230	41	< 0.0988 U	< 0.105 U	< 0.104 U	1.98 J	0.988 J	8.96 J	1.79 J	< 0.108 U	6.91 J	1.88 J
PCB-199	52663-75-9	ng/g	230	41	< 0.0950 U	1.36 J	1.25 J	34.0	19.4 J	175 J	31.3	5.74 J	124 J	30.8
PCB-200	52663-73-7	ng/g	230	41	< 0.0484 U	< 0.0512 U	< 0.0510 U	4.14 J	2.41 J	20.0	3.73 J	0.774 J	14.9 J	3.72 J
PCB-201	40186-71-8	ng/g	230	41	< 0.0383 U	< 0.0405 U	< 0.0404 U	4.01 J	2.19 J	19.8	3.34 J	< 0.0419 U	13.9 J	3.48 J
PCB-202	2136-99-4	ng/g	230	41	< 0.0654 U	< 0.0692 U	< 0.0689 U	5.48 J	3.30 J	29.2	4.98 J	0.806 J	20.9	5.32 J
PCB-204	74472-52-9	ng/g	230	41	< 0.0800 U	< 0.0846 U	< 0.0843 U	< 0.0874 U	< 0.0880 U	< 0.0875 U	< 0.0856 U	< 0.0875 U	< 0.0877 U	< 0.0848 U
PCB-205	74472-53-0	ng/g	230	41	< 0.0567 U	< 0.0600 U	< 0.0598 U	2.09 J	1.32 J	10.2 J	1.92 J	< 0.0620 U	7.03 J	1.83 J
PCB-206	40186-72-9	ng/g	230	41	< 0.0544 U	0.589 J	0.593 J	14.3 J	9.58 J	77.1 J	12.9 J	2.48 J	47.5 J	11.3 J
PCB-207	52663-79-3	ng/g	230	41	< 0.0719 U	< 0.0760 U	< 0.0758 U	1.50 J	0.878 J	8.00 J	1.40 J	< 0.0786 U	5.50 J	1.19 J
PCB-208	52663-77-1	ng/g	230	41	< 0.0719 U	< 0.0760 U	< 0.0758 U	3.09 J	2.63 J	17.6 J	3.07 J	0.448 J	11.5 J	2.69 J
PCB-209	2051-24-3	ng/g	230	41	< 0.0414 U	0.175 J	0.182 J	3.27 J	3.96 J	16.8 J	2.75 J	0.494 J	9.12 J	2.06 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0	< 0.0414 U	0.175	0.182	3.27	3.96	16.8	2.75	0.494	9.12	2.06
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0	< 0.134 U	15.9	15.9	532	278	1980	465	76.8	1710	456
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0	< 0.141 U	46.2	48.4	1580	846	4130	1440	237	5020	1360
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0	< 0.144 U	5.17	4.59	153	84.0	769	139	24.5	535	136
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14	< 0.155 U	645	1290	28800	11700	173000	36300	6040	145000	46400
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0	< 0.125 U	205	285	4790	2250	11600	7550	1380	22700	7810
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0	< 0.0852 U	10.6	26.4	1620	1190	11300	744	55.1	8370	961
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0	< 0.0489 U	0.551	0.369	55.5	49.1	1720	18.5	< 0.0535 U	342	12.5
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0	< 0.0719 U	0.589	0.593	18.9	13.1	103	17.4	2.93	64.5	15.2
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0	< 0.155 U	304	699	11300	4260	74700	19800	3170	71500	24500
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0	< 0.126 U	56.8	205	8660	2700	66600	6090	1090	35000	11100
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700		3400 J	3300	5100	4300	4500	14000	6700	12000	6800	2900
Calcium	7440-70-2	mg/kg			890	850	1300	1200	1700	2500	2200	1800	2600	1100
Iron	7439-89-6	mg/kg	5500		2600 J	3800	6300	5800	6000	16000	8300	14000	9000	4000
Magnesium	7439-95-4	mg/kg			360 J	1100 J	2200 J	1400 J	1100 J	3800 J	1900 J	2100 J	2100 J	1100 J
Potassium	7440-09-7	mg/kg			71 J	< 430 U	< 420 U	< 480 U	< 510 U	1100	< 530 U	< 940 U	< 700 U	< 460 U
Sodium	7440-23-5	mg/kg			< 500 U	34 J	49 J	39 J	110 J	130 J	77 J	97 J	120 J	77 J
Antimony	7440-36-0	mg/kg	3.1	0.27	< 0.99 U	0.10 J	0.087 J	0.21 J	0.66 J	1.9	2.2	8.0	0.83 J	0.37 J
Arsenic	7440-38-2	mg/kg	0.68	18	0.44 J	1.9	2.5	1.8	2.6	8.2	9.0	57	2.7	1.1
Barium	7440-39-3	mg/kg	1500	110	6.7 J	24 J	21 J	30 J	67 J	160 J	140 J	640 J	63 J	34 J
Beryllium	7440-41-7	mg/kg	16	2.5	< 0.49 U	< 0.50 U	< 0.40 U	< 0.50 U	< 0.53 U	0.83	< 0.60 U	< 1.0 U	< 0.73 U	< 0.50 U
Cadmium	7440-43-9	mg/kg	0.71	0.36	< 0.49 U	< 0.50 U	0.062 J	0.19 J	0.54	1.5	1.5	3.2	1.5	0.56
Chromium, Total	7440-47-3	mg/kg	0.3	23	3.7	10	13	15	32	100	180	660	46	20
Cobalt	7440-48-4	mg/kg	2.3	13	< 0.49 UJ	2.9	3.9	4.4	3.4	7.6	4.1	5.1	9.4	4.7
Copper	7440-50-8	mg/kg	310	28	0.15 J	14	13	18	32	150	170	530	140	35
Lead	7439-92-1	mg/kg	200	11	1.8	19	16	37	83	310	420	1100	210	54
Manganese	7439-96-5	mg/kg	180	220	8.3	98 JEB	100 JEB	160 JEB	370 JEB	200 JEB	150 JEB	120 JEB	170 JEB	190 JEB
Nickel	7440-02-0	mg/kg	140	38	0.43 J	6.9 J	6.6 J	6.8 J	8.5 J	21 J	12 J	15 J	15 J	10 J
Selenium	7782-49-2	mg/kg	39	0.52	< 2.5 U	0.92 J	1.0 J	0.87 J	2.2 J	2.7 J	1.3 J	2.1 J	1.8 J	1.1 J
Silver	7440-22-4	mg/kg	39	4.2	0.014 J	0.038 J	0.035 J	0.093 J	0.18 J	0.92	0.51 J	1.2	0.46 J	0.11 J
Thallium	7440-28-0	mg/kg	0.078	0.05	< 0.49 U	0.026 J	0.030 J	0.032 J	0.034 J	0.18 J	0.13 J	0.50 J	0.18 J	0.045 J
Vanadium	7440-62-2	mg/kg	39	7.8	3.5	11	13	14	15	49	19	25	25	12
Zinc	7440-66-6	mg/kg	2300	46	1.4 JEB	43 EB	29 EB	67 EB	130 EB	260 EB	280 EB	830 EB	270 EB	140 EB
Mercury	7439-97-6	mg/kg	2.3	0.013	< 0.11 R	0.036 J-	0.064 J-	0.16	0.29	1.8	0.75	4.6	0.64	0.13

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0048-B2S1	23D-0049-B1S1	23D-0049-B1S1	23D-0050-PLS1	23D-0051-B1S1	23D-0052-PLS1	23D-0053-PLS1	23D-0053-PLS1	23D-0054-PLS1	23D-0055-PLS1
					Sample Name	23D-0048-B2S1-BS	23D-0049-B1S1-AS	23D-0049-B1S1-BS	23D-0050-PLS1-AS	23D-0051-B1S1-AS	23D-0052-PLS1-AS	23D-0053-PLS1-AS	23D-0053-PLS1-BS	23D-0054-PLS1-AS	23D-0055-PLS1-AS
					Sample Date	7/28/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.4 ft	0 - 1 ft	0 - 0.9 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
2-HEXANONE	591-78-6	ug/kg	20000	360	< 10 U	< 10 UJ	< 12 UJ	< 11 UJ	< 15 UJ	< 19 UJ	< 18 UJ	< 27 R	< 18 UJ	< 11 UJ
ACETONE	67-64-1	ug/kg	7000000	1200	18 J+	< 10 UJ	< 12 UJ	< 11 UJ	51 J	< 19 UJ	34 J	48 J	< 18 UJ	160 J
Benzene	71-43-2	ug/kg	1200	120	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
BROMOFORM	75-25-2	ug/kg	19000	70	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
BROMOMETHANE	74-83-9	ug/kg	680	2	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
CHLOROETHANE	75-00-3	ug/kg	540000		< 5.2 UJ	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Chloroform	67-66-3	ug/kg	320	50	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
CHLOROMETHANE	74-87-3	ug/kg	11000		< 5.2 UJ	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Cyclohexane	110-82-7	ug/kg	650000		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Ethylbenzene	100-41-4	ug/kg	5800	270	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
m,p-Xylene	179601-23-1	ug/kg	55000		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
METHYL ACETATE	79-20-9	ug/kg	7800000		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	13 J	< 9.4 UJ	10 J	11 J	< 9.1 UJ	17 J
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	< 10 U	< 10 UJ	< 12 UJ	< 11 UJ	< 15 UJ	< 19 UJ	< 18 UJ	< 27 UJ	< 18 UJ	21 J
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 10 U	< 10 UJ	< 12 UJ	< 11 UJ	< 15 UJ	< 19 UJ	< 18 UJ	< 27 R	< 18 UJ	< 11 UJ
Methylcyclohexane	108-87-2	ug/kg	9800		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Methylene Chloride	75-09-2	ug/kg	35000	210	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	5.1 J	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Styrene	100-42-5	ug/kg	600000	1200	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Toluene	108-88-3	ug/kg	490000	150	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ
Vinyl Chloride	75-01-4	ug/kg	59	30	< 5.2 U	< 5.1 UJ	< 5.9 UJ	< 5.3 UJ	< 7.6 UJ	< 9.4 UJ	< 8.9 UJ	< 14 UJ	< 9.1 UJ	< 5.7 UJ

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0048-B2S1	23D-0049-B1S1	23D-0049-B1S1	23D-0050-PLS1	23D-0051-B1S1	23D-0052-PLS1	23D-0053-PLS1	23D-0053-PLS1	23D-0054-PLS1	23D-0055-PLS1
					Sample Name	23D-0048-B2S1-BS	23D-0049-B1S1-AS	23D-0049-B1S1-BS	23D-0050-PLS1-AS	23D-0051-B1S1-AS	23D-0052-PLS1-AS	23D-0053-PLS1-AS	23D-0053-PLS1-BS	23D-0054-PLS1-AS	23D-0055-PLS1-AS
					Sample Date	7/28/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.4 ft	0 - 1 ft	0 - 0.9 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 210 U	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 81 U	< 80 U	< 77 U	< 79 U	< 90 U	< 120 UJ	< 100 UJ	< 160 U	< 85 U	< 81 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 210 U	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 210 R	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 210 R	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 210 R	< 200 U	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 210 UJ	< 200 UJ	< 190 UJ	< 200 UJ	< 230 UJ	< 300 UJ	< 260 UJ	< 410 UJ	< 220 UJ	< 200 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 400 U	< 390 UJ	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 210 U	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 210 U	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 210 R	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 210 R	< 200 U	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 400 U	< 390 U	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 210 U	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 210 R	< 200 U	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 400 U	< 390 UJ	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 UJ	< 400 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 400 U	< 390 UJ	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 400 U	< 390 UJ	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 210 R	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 210 R	< 200 U	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 400 U	< 390 U	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 210 R	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 400 U	< 390 U	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 400 U	< 390 UJ	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 400 R	< 390 UJ	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 400 U	< 390 U	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
ANTHRACENE	120-12-7	ug/kg	1800000	29000	< 210 U	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 400 U	< 390 UJ	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 400 U	< 390 U	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	< 210 U	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	< 210 U	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	< 210 U	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 210 R	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 UJ	< 200 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 210 U	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 400 U	< 390 U	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 400 U	< 390 U	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 210 U	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 UJ	< 200 U
Caprolactam	105-60-2	ug/kg	3100000		< 400 U	< 390 U	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 400 U	< 390 UJ	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 210 U	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 210 R	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 210 R	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 210 U	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 400 U	< 390 U	< 380 U	< 390 U	< 440 U	< 580 U	< 500 UJ	< 790 U	< 420 UJ	< 400 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	< 210 U	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 210 R	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 210 R	< 200 U	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 400 U	< 390 UJ	< 380 UJ	< 390 UJ	< 440 UJ	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 210 UJ	< 200 U	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 UJ	< 220 UJ	< 200 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	< 210 U	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 210 R	< 200 U	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0048-B2S1	23D-0049-B1S1	23D-0049-B1S1	23D-0050-PLS1	23D-0051-B1S1	23D-0052-PLS1	23D-0053-PLS1	23D-0053-PLS1	23D-0054-PLS1	23D-0055-PLS1
				Sample Name	23D-0048-B2S1-BS	23D-0049-B1S1-AS	23D-0049-B1S1-BS	23D-0050-PLS1-AS	23D-0051-B1S1-AS	23D-0052-PLS1-AS	23D-0053-PLS1-AS	23D-0053-PLS1-BS	23D-0054-PLS1-AS	23D-0055-PLS1-AS
				Sample Date	7/28/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023	7/31/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.4 ft	0 - 1 ft	0 - 0.9 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Naphthalene	91-20-3	ug/kg	2000	29000	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 210 U	< 200 U	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 210 R	< 200 U	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 210 U	< 200 UJ	< 190 U	< 200 U	< 230 U	< 300 UJ	< 260 UJ	< 410 U	< 220 U	< 200 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	790	< 400 R	< 390 U	< 380 U	< 390 U	< 440 U	< 580 UJ	< 500 UJ	< 790 U	< 420 U	< 400 U
PYRENE	129-00-0	ug/kg	180000	1100	< 210 U	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	140	< 4.0 U	< 3.9 U	< 3.8 U	2.2 J	< 4.4 U	< 5.8 U	7.0	15	< 4.2 U	< 4.0 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	< 4.0 U	< 3.9 U	2.8 J	3.8 J	2.6 J	4.0 J	11	35	< 4.2 U	< 4.0 U
Acenaphthene	83-32-9	ug/kg	360000	29000	< 4.0 U	< 3.9 U	5.2	4.0	6.7	< 5.8 U	17	20 J-	< 4.2 U	4.0
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	< 4.0 U	< 3.9 U	7.7	11	9.1	7.2	27	53 J-	4.0 J	8.0
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	< 3.9 U	23 J+	9.8 J+	31 J	< 5.8 UJ	85 J	160 J	14 J	21 J+
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	12	77	65	150	41 J-	240	580	38 J-	70
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	< 4.0 R	14	82	79	190	46 J-	260	510	40 J-	81
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	20	100	120	290	67 J-	320	660	49 J-	130
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	9.4	55	65	150	36 J-	160	310	26 J-	58
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	< 4.0 R	7.7	46	48	120	29 J-	130	280	15 J-	41
CHRYSENE	218-01-9	ug/kg	110000	1100	< 4.0 R	15	87	90	210	52 J-	270	680	38 J-	100
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	< 4.0 R	2.4 J	13	17	27 J-	7.8 J-	28 J-	65 J-	5.8 J-	14
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	22 J+	160 J+	130 J+	370 J+	67 J	530 J+	1100 J+	79 J+	170 J+
FLUORENE	86-73-7	ug/kg	240000	29000	< 4.0 U	< 3.9 U	7.6	5.9	8.2	4.0 J	25	53 J-	3.3 J	6.3
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	10	56	66	160	37 J-	180	370	26 J-	72
Naphthalene	91-20-3	ug/kg	2000	29000	< 4.0 U	< 3.9 U	4.6	5.0	3.9 J	4.6 J	17	55	< 4.2 U	2.7 J
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	< 8.1 U	< 7.9 U	< 7.7 U	< 7.9 U	< 9.0 U	< 12 U	< 10 U	< 16 U	< 8.5 U	< 8.1 U
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	< 4.0 R	8.9	68	47	150	27 J-	300	440	30 J-	77
PYRENE	129-00-0	ug/kg	180000	1100	-	20 J	120 J	110 J	260 J	52 J	370 J	760 J	48 J	130 J
Asbestos														
ASBESTOS	1332-21-4	%			< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0056-PLS1	23D-0057-PLS1	23D-0058-PLS1	23D-0059-PLS1	23D-0059-PLS1	23D-0060-PLS1	23D-0061-PLS1	23D-0062-PLS1	23D-0063-PLS1	23D-0064-B1S1
					Sample Name	23D-0056-PLS1-AS	23D-0057-PLS1-AS	23D-0058-PLS1-AS	23D-0059-PLS1-AS	23D-0059-PLS1-AT	23D-0060-PLS1-AS	23D-0061-PLS1-AS	23D-0062-PLS1-AS	23D-0063-PLS1-AS	23D-0064-B1S1-AS
					Sample Date	7/31/2023	7/31/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/2/2023	8/1/2023	8/1/2023
					Sample Type	N	N	N	N	FD	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.6 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	3110	611	144	118	102	9150 J	366	535	2210	168
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	55.7 J	8.33 J	2.94	2.68	1.89 J	175	5.48	10.7	33.3	2.4
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	24.9 J+	8.60 J+	1.91 JN	1.9 J+	1.67 J+	85.8 J+	4.31 J+	6.03	21.3 J+	1.99 J+
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	130 J	20.6 J	6.58 J	6.13 J	5.26 J	425 J	9.86 J	24.0	55.6 J	4.17 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	154 J+	33.6 J+	8.50 J+	6.69 J+	5.96 J+	512 J+	20.1 J+	29.6	118 J+	9.17 J+
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	58.3 J+	9.38 J+	3.67 J+	3.07 J+	2.84 J+	171 J+	5.64 J+	12.1	32.2 J+	2.56 J+
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	70.7	20.3	4.70	4.19	3.14	276	10.7	15.5	62.9	4.81
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 0.799 U	< 0.361 U	< 0.283 U	< 0.272 U	< 0.237 U	< 1.95 U	< 0.396 U	< 4.19 U	< 1.11 U	< 0.261 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	10.2 JN	4.34 J	1.21 JN	0.68 JN	0.983 JN	35.3 JN	2.05 J	1.47 JN	9.65 J	0.935 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	23.8 J+	6.91 J+	2.2 J+	1.65 J+	2.51 J+	52.1 J+	1.76 J+	3.23 JN	8.85 J+	0.835 J+
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	1320	236	62.6	60.6	47.8	2860	196	344 J+	1230	90.6
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	62.8 J	10.4 J	3.22	2.64	2.67	162	5.17	9.54	30.8	3.26
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	173 J	20.4 J	7.51	5.14	5.49	454	4.76	18.7	24.6	4.46
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	5.16 J+	1.14 JN	< 0.481 UJ	< 0.409 UJ	< 0.504 UJ	11.2 J	< 0.416 UJ	< 1.89 UJ	2.36 J	< 0.43 UJ
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	52.8 J	48.1 J	2.92	2.48	2.94	141	2.99	4.79	15.1	1.35
OCDD	3268-87-9	pg/g	16000	10500	24300 J	3690	898	753	641	56400 J	2500	5030 EB	15400 J	1240
OCDF	39001-02-0	pg/g	16000	10500	1530	274	74.1	64.2	53.8	3330	200	280	1220	87.2
Total HpCDD (a)	RA_Total_HpCDD	pg/g			3110	611	144	118	102	9150	366	535	2210	168
Total HpCDF (a)	RA_Total_HpCDF	pg/g			1380	244	65.5	63.3	49.7	3040	201	355	1260	93.0
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		250	62.5	15.1	12.8	10.8	874	35.1	51.1	202	16.0
Total HxCDF (a)	RA_Total_HxCDF	pg/g			251	40.4	13.5	11.8	10.8	758	20.7	45.6	119	9.99
Total PeCDD (a)	RA_Total_PeCDD	pg/g			10.2	4.34	1.21	0.68	0.983	35.3	2.05	1.47	9.65	0.935
Total PeCDF (a)	RA_Total_PeCDF	pg/g			197	27.3	9.71	6.79	8.00	506	6.52	21.9	33.5	5.30
Total TCDD (a)	RA_Total_TCDD	pg/g			5.16	1.14	< 0.481 U	< 0.409 U	< 0.504 U	11.2	< 0.416 U	< 1.89 U	2.36	< 0.43 U
Total TCDF (a)	RA_Total_TCDF	pg/g			52.8	48.1	2.92	2.48	2.94	141	2.99	4.79	15.1	1.35
PCB Congeners															
PCB-001	2051-60-7	ng/g	230	41	63.6 J	2.73 J	0.531 J	1.09 J	1.12 J	1420 J	0.350 J	17.6 J	3.50 J	< 0.0349 U
PCB-002	2051-61-8	ng/g	230	41	38.7 EB	< 0.0525 U	< 0.0523 U	< 0.0511 U	< 0.0532 U	23.8 EB	< 0.0506 U	1.16 JEB	< 0.0539 U	< 0.0503 U
PCB-003	2051-62-9	ng/g	230	41	478 J	5.35 J	0.410 J	0.589 J	0.482 J	520 J	< 0.0493 U	16.6 J	< 0.0525 U	0.149 J
PCB-004/010	PCB-4/10	ng/g	230	41	308 J	4.40 J	2.18 J	2.12 J	2.77 J	3430 J	5.19 J	78.7 J	19.8 J	0.972 J
PCB-005/008	PCB-5/8	ng/g	230	41	604 J	6.62 J	2.92 J	2.80 J	3.11 J	1680 J	6.63 J	129 J	10.4 J	0.948 J
PCB-006	25569-80-6	ng/g	230	41	562 J	1.74 J	1.62 J	1.56 J	1.83 J	491 J	2.12 J	37.3	2.46 J	0.187 J
PCB-007/009	PCB-7/9	ng/g	230	41	28.5	< 0.0884 U	< 0.0880 U	< 0.0859 U	< 0.0895 U	66.2 J	0.565 J	4.66 J	< 0.0906 U	< 0.0846 U
PCB-011	2050-67-1	ng/g	230	41	121 JEB	0.854 JEB	< 0.0484 U	0.831 JEB	0.813 JEB	195 JEB	< 0.0468 U	6.96 JEB	< 0.0499 U	< 0.0466 U
PCB-012/013	PCB-12/13	ng/g	230	41	466 J	4.17 J	4.12 J	2.60 J	2.51 J	398 J	< 0.0843 U	35.2	< 0.0898 U	< 0.0838 U
PCB-014	34883-41-5	ng/g	230	41	< 0.0502 U	< 0.0488 U	< 0.0486 U	< 0.0475 U	< 0.0495 U	< 0.0492 U	< 0.0470 U	< 0.0477 U	< 0.0501 U	< 0.0467 U
PCB-015	2050-68-2	ng/g	230	41	3680 JEB	23.0 JEB	30.7 EB	18.4 JEB	16.9 JEB	3920 JEB	5.10 JEB	596 JEB	9.65 JEB	4.77 JEB
PCB-016/032	PCB-16/32	ng/g	230	41	7930 JEB	15.9 JEB	18.1 JEB	11.8 JEB	10.4 JEB	3670 JEB	11.8 JEB	875 JEB	13.8 JEB	17.0 JEB
PCB-017	37680-66-3	ng/g	230	41	2300 JEB	8.61 JEB	6.86 JEB	4.89 JEB	4.80 JEB	1750 JEB	8.59 JEB	126 JEB	9.19 JEB	2.00 JEB
PCB-018	37680-65-2	ng/g	230	41	1320 JEB	12.0 JEB	10.9 JEB	5.06 JEB	4.94 JEB	755 JEB	11.2 JEB	97.3 JEB	4.45 JEB	1.47 JEB
PCB-019	38444-73-4	ng/g	230	41	2010 J	2.12 J	1.65 J	2.02 J	1.89 J	4000 J	1.78 J	285 J	6.80 J	13.2 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	521 JEB	8.93 JEB	9.19 JEB	3.91 JEB	3.68 JEB	283 JEB	14.4 JEB	28.1 EB	< 0.139 U	0.846 JEB
PCB-022	38444-85-8	ng/g	230	41	2140 J	13.6 J	18.8 J	8.07 J	7.10 J	520 J	4.06 J	57.3 J	< 0.0495 U	0.777 J
PCB-023/034	PCB-23/34	ng/g	230	41	48.7 J	< 0.0882 U	< 0.0878 U	< 0.0857 U	< 0.0893 U	81.9 J	< 0.0849 U	4.42 J	< 0.0904 U	< 0.0844 U
PCB-024/027	PCB-24/27	ng/g	230	41	1030 J	2.37 J	3.02 J	2.91 J	2.55 J	1920 J	1.83 J	170 J	3.43 J	6.02 J
PCB-025	55712-37-3	ng/g	230	41	958 J	6.91 J	20.1	11.6 J	10.3 J	2020 J	2.64 J	175 J	2.91 J	1.39 J
PCB-026	38444-81-4	ng/g	230	41	3890 JEB	14.1 JEB	41.5 JEB	23.4 EB	21.2 EB	3630 JEB	4.97 JEB	272 JEB	4.41 JEB	3.27 JEB
PCB-028	7012-37-5	ng/g	230	41	1890 JEB	83.2 JEB	72.9 JEB	28.9 EB	26.8 EB	2290 JEB	22.0 EB	480 JEB	6.59 JEB	9.66 JEB
PCB-029	15862-07-4	ng/g	230	41	3.41 JEB	< 0.0510 U	< 0.0508 U	< 0.0496 U	< 0.0516 U	11.9 JEB	< 0.0491 U	< 0.0498 U	< 0.0523 U	< 0.0488 U
PCB-030	35693-92-6	ng/g	230	41	6.34 J	< 0.0467 U	< 0.0465 U	< 0.0454 U	< 0.0473 U	15.2 J	< 0.0450 U	< 0.0456 U	< 0.0479 U	< 0.0447 U
PCB-031	16606-02-3	ng/g	230	41	1770 JEB	53.3 JEB	47.1 JEB	23.1 EB	22.1 EB	2460 JEB	15.5 JEB	312 JEB	7.35 JEB	3.26 JEB
PCB-035	37680-69-6	ng/g	230	41	31.9 J+	0.881 J+	< 0.0552 U	< 0.0539 U	< 0.0562 U	50.6 J	< 0.0534 U	1.92 J+	< 0.0569 U	< 0.0530 U
PCB-036	38444-87-0	ng/g	230	41	24.5	< 0.0473 U	< 0.0471 U	< 0.0460 U	< 0.0479 U	37.2	< 0.0455 U	4.61 J	< 0.0485 U	< 0.0453 U
PCB-037	38444-90-5	ng/g	230	41	737 J	32.8	22.6	10.7 J	9.48 J	679 J	3.97 J	123 J	2.47 J	2.09 J
PCB-038	53555-66-1	ng/g	230	41	322 J	2.17 J	2.42 J	1.51 J	1.10 J	335 J	< 0.0377 U	10.2 J	< 0.0402 U	0.520 J
PCB-039	38444-88-1	ng/g	230	41	40.9 J	< 0.0240 U	< 0.0239 U	< 0.0234 U	< 0.0243 U	82.6 J	< 0.0231 U	1.69 J	< 0.0246 U	< 0.0230 U
PCB-040	38444-93-8	ng/g	230	41	368 J	12.2 J	12.8 J	5.40 J	4.40 J	131 J	1.36 J	47.5 J	1.92 J	2.28 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0056-PLS1	23D-0057-PLS1	23D-0058-PLS1	23D-0059-PLS1	23D-0059-PLS1	23D-0060-PLS1	23D-0061-PLS1	23D-0062-PLS1	23D-0063-PLS1	23D-0064-B1S1
					Sample Name	23D-0056-PLS1-AS	23D-0057-PLS1-AS	23D-0058-PLS1-AS	23D-0059-PLS1-AS	23D-0059-PLS1-AT	23D-0060-PLS1-AS	23D-0061-PLS1-AS	23D-0062-PLS1-AS	23D-0063-PLS1-AS	23D-0064-B1S1-AS
					Sample Date	7/31/2023	7/31/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/2/2023	8/1/2023	8/1/2023
					Sample Type	N	N	N	N	FD	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.6 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-041/064	PCB-41/64	ng/g	230	41		1180 J	62.4 J	69.6 J	45.7 J	39.0	669 J	3.65 J	186 J	4.08 J	6.78 J
PCB-042	36559-22-5	ng/g	230	41		2710 J	37.8	48.6 J	22.3	18.5 J	1970 J	3.56 J	169 J	6.20 J	7.09 J
PCB-043/049	PCB-43/49	ng/g	230	41		10800 JEB	136 JEB	173 JEB	95.7 JEB	79.4 JEB	14800 JEB	12.3 JEB	633 JEB	30.9 EB	24.9 EB
PCB-044	41464-39-5	ng/g	230	41		3880 JEB	91.2 JEB	101 JEB	44.2 JEB	36.0 EB	1520 JEB	8.81 JEB	304 JEB	15.4 JEB	16.8 JEB
PCB-045	70362-45-7	ng/g	230	41		328 J	8.73 J	8.28 J	5.19 J	4.19 J	292 J	1.65 J	89 J	2.23 J	4.92 J
PCB-046	41464-47-5	ng/g	230	41		621 J	2.85 J	3.17 J	1.24 J	0.999 J	347 J	0.530 J	31	< 0.0523 U	1.35 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	41		4780 JEB	82.2 JEB	91.9 JEB	52.6 JEB	43.4 JEB	12500 JEB	10.0 JEB	408 JEB	22.4 EB	18.9 EB
PCB-050	62796-65-0	ng/g	230	41		66.0 J	< 0.0622 U	0.417 J	0.314 J	< 0.0630 U	170 J	< 0.0599 U	5.53 J	< 0.0638 U	< 0.0595 U
PCB-051	68194-04-7	ng/g	230	41		1440 J	3.93 J	5.13 J	2.51 J	2.02 J	1730 J	1.17 J	90 J	2.55 J	4.17 J
PCB-052/073	PCB-52/73	ng/g	230	41		9540 JEB	145 JEB	182 JEB	93.0 JEB	76.8 JEB	9150 JEB	14.3 JEB	577 JEB	27.2 EB	24.9 EB
PCB-053	41464-41-9	ng/g	230	41		2950 J	13.3 J	16.7 J	7.59 J	6.32 J	3370 J	3.49 J	165 J	9.28 J	10.1 J
PCB-054	15968-05-5	ng/g	230	41		125 J	0.228 J	0.299 J	0.229 J	0.163 J	555 J	< 0.0397 U	7.78 J	< 0.0423 U	0.402 J
PCB-055	74338-24-2	ng/g	230	41		5.36 J+	1.14 J	< 0.0535 U	< 0.0522 U	< 0.0544 U	1.32 J+	< 0.0517 U	< 0.0524 U	< 0.0551 U	< 0.0514 U
PCB-056/060	PCB-56/60	ng/g	230	41		195 J	95.1 J	33.8	20.4	17.8 J	96.7 J	3.08 J	54.8 J	4.23 J	3.46 J
PCB-057	70424-67-8	ng/g	230	41		85.2 J	1.06 J	1.93 J	1.12 J	0.995 J	134 J	< 0.0399 U	4.42 J	< 0.0425 U	< 0.0397 U
PCB-058	41464-49-7	ng/g	230	41		10.3 J+	0.612 J	0.650 J	0.360 J	0.268 J	10.9 J+	< 0.0362 U	1.33 J	< 0.0386 U	< 0.0360 U
PCB-059	74472-33-6	ng/g	230	41		76.6 J	6.78 J	5.42 J	3.88 J	3.17 J	67.8 J	0.662 J	33.4	0.958 J	1.38 J
PCB-061/074	PCB-61/74	ng/g	230	41		442 J	85.8 J	53.7 J	29.1	25.1	373 J	2.66 J	68.9 J	2.76 J	2.29 J
PCB-062	54230-22-7	ng/g	230	41		< 0.0528 U	< 0.0513 U	< 0.0511 U	< 0.0499 U	< 0.0520 U	< 0.0518 U	< 0.0494 U	< 0.0501 U	< 0.0527 U	< 0.0492 U
PCB-063	74472-34-7	ng/g	230	41		286 J	9.02 J	9.26 J	5.40 J	4.68 J	526 J	0.346 J	13.3 J	< 0.0396 U	0.563 J
PCB-065	33284-54-7	ng/g	230	41		2.45 J+	< 0.0740 U	< 0.0737 U	< 0.0720 U	< 0.0750 U	10.7 J+	< 0.0713 U	< 0.0723 U	< 0.0759 U	< 0.0709 U
PCB-066/080	PCB-66/80	ng/g	230	41		656 JEB	192 JEB	85.1 JEB	51.3 JEB	44.5 JEB	859 JEB	7.12 JEB	160 JEB	10.5 JEB	8.68 JEB
PCB-067	73575-53-8	ng/g	230	41		26.2 J+	4.08 J	3.63 J	1.95 J	1.64 J	31.4 J+	< 0.0437 U	5.83 J	< 0.0465 U	< 0.0434 U
PCB-068	73575-52-7	ng/g	230	41		76.8 J	< 0.0537 U	< 0.0535 U	< 0.0522 U	< 0.0544 U	232 J	< 0.0517 U	< 0.0524 U	< 0.0551 U	< 0.0514 U
PCB-069	60233-24-1	ng/g	230	41		21.6 J+	< 0.0558 U	< 0.0556 U	< 0.0543 U	< 0.0565 U	57.7 J	< 0.0537 U	2.8 J	< 0.0572 U	< 0.0534 U
PCB-070	32598-11-1	ng/g	230	41		398 J	185 J	69.8 J	42.0 J	36.6 J	361 J	8.25 J	115 J	7.86 J	6.51 J
PCB-071	41464-46-4	ng/g	230	41		2200 JEB	23.1 EB	33.5 EB	14.4 JEB	11.5 JEB	1250 JEB	3.10 JEB	189 JEB	6.35 JEB	7.94 JEB
PCB-072	41464-42-0	ng/g	230	41		124 J	2.24 J	3.09 J	1.96 J	1.68 J	249 J	0.297 J	9.53 J	< 0.0620 U	0.547 J
PCB-076	70362-48-0	ng/g	230	41		< 0.0763 U	< 0.0742 U	< 0.0739 U	< 0.0722 U	< 0.0752 U	< 0.0748 U	< 0.0715 U	< 0.0725 U	< 0.0761 U	< 0.0710 U
PCB-077	32598-13-3	ng/g	38.0	41		217 J	24.2 J+	12.9 J+	8.17 J+	7.06 J+	306 J	1.21 J+	29 J+	2.70 J+	1.58 J+
PCB-078	70362-49-1	ng/g	230	41		5.21 J+	0.338 J	0.360 J	0.178 J	< 0.0385 U	7.27 J+	< 0.0366 U	< 0.0371 U	< 0.0390 U	< 0.0364 U
PCB-079	41464-48-6	ng/g	230	41		2.93 J+	1.08 J	< 0.0475 U	< 0.0464 U	< 0.0483 U	5.54 J+	< 0.0459 U	< 0.0465 U	< 0.0489 U	< 0.0456 U
PCB-081	70362-50-4	ng/g	12.0	41		10.5 J+	2.22 J+	1.19 J+	0.750 J+	0.559 J+	14.0 J+	< 0.0716 U	1.72 J+	< 0.0763 U	< 0.0712 U
PCB-082	52663-62-4	ng/g	230	41		94.7 J	15.2 J	9.14 J	5.11 J	4.13 J	74.0 J	1.08 J	16.7 J	3.48 J	2.23 J
PCB-083/109	PCB-83/109	ng/g	230	41		112 J	6.39 J	5.35 J	3.41 J	2.74 J	208 J	0.880 J	10.1 J	2.81 J	1.39 J
PCB-084	52663-60-2	ng/g	230	41		365 J	24.6	21.0	12.2 J	9.82 J	547 J	3.35 J	44.7 J	12.5 J	4.92 J
PCB-085/120	PCB-85/120	ng/g	230	41		154 J	36.8	21.2	13.5 J	11.4 J	128 J	3.14 J	32.7	11.6 J	4.43 J
PCB-086/097	PCB-86/97	ng/g	230	41		186 J	36.9	21.0	13.5 J	11.3 J	323 J	3.70 J	35.7	13.5 J	4.40 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	41		< 0.0307 U	< 0.0298 U	< 0.0297 U	< 0.0290 U	< 0.0302 U	< 0.0301 U	< 0.0287 U	< 0.0291 U	< 0.0306 U	< 0.0286 U
PCB-088/121	PCB-88/121	ng/g	230	41		4.73 J	< 0.108 U	< 0.107 U	< 0.105 U	< 0.109 U	11.9 J	< 0.104 U	< 0.105 U	< 0.111 U	< 0.103 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	41		672 J	92.4 J	53.6 J	37.0	30.1	1940 J	12.6 J	103 J	50.9 J	12.1 J
PCB-091	68194-05-8	ng/g	230	41		543 J	22.5	19.6	13.0 J	10.8 J	1220 J	2.89 J	45.1 J	11.1 J	4.86 J
PCB-092	52663-61-3	ng/g	230	41		447 J	17.4 J	14.5 J	10.3 J	8.46 J	1380 J	3.23 J	30.6	12.9 J	3.58 J
PCB-093/095	PCB-93/95	ng/g	230	41		710 J	68.1 J	54.1 J	35.6	28.8	1150 J	10.8 J	122 J	44.1 J	14.6 J
PCB-094	73575-55-0	ng/g	230	41		58.1 J	1.23 J	1.25 J	< 0.0867 U	0.611 J	177 J	< 0.0858 U	3.42 J	< 0.0914 U	< 0.0853 U
PCB-096	73575-54-9	ng/g	230	41		34.9	1.07 J	1.20 J	0.583 J	0.481 J	88.4 J	< 0.0405 U	3.96 J	< 0.0431 U	0.364 J
PCB-098/102	PCB-98/102	ng/g	230	41		149 J	5.43 J	5.68 J	3.25 J	2.49 J	291 J	0.764 J	16.5 J	2.25 J	1.75 J
PCB-099	38380-01-7	ng/g	230	41		448 J	63.0 J	38.4	26.1	21.9	1310 J	7.05 J	66.7 J	27.0	7.60 J
PCB-100	39485-83-1	ng/g	230	41		61.4 J	0.709 J	0.765 J	< 0.0462 U	0.393 J	276 J	< 0.0457 U	2.38 J	< 0.0487 U	< 0.0454 U
PCB-103	60145-21-3	ng/g	230	41		65.9 J	1.06 J	0.960 J	0.691 J	0.601 J	205 J	< 0.0472 U	3.31 J	< 0.0503 U	0.311 J
PCB-104	56558-16-8	ng/g	230	41		4.33 J	< 0.0453 U	< 0.0452 U	< 0.0441 U	< 0.0459 U	22.4	< 0.0437 U	< 0.0443 U	< 0.0465 U	< 0.0434 U
PCB-105/127	PCB-105/127	ng/g	120	41		185 J	56.7 J	22.1 J+	16.8 J+	14.2 J+	178 J	2.23 J+	26.1	9.98 J+	3.07 J+
PCB-106/118	PCB-106/118	ng/g	120	41		516 J	110 J	58.3 J	41.5 J	34.3 J+	1250 J	8.81 J+	79.2 J	34.8 J+	7.99 J+
PCB-107/108	PCB-107/108	ng/g	230	41		71.3 J	9.54 J	5.46 J	3.82 J	3.17 J	254 J	0.823 J	7.35 J	3.54 J	0.763 J
PCB-110	38380-03-9	ng/g	230	41		1370 JEB	125 JEB	103 JEB	68.6 JEB	56.4 JEB	2680 JEB	18.1 JEB	179 JEB	70.5 JEB	21.5 EB
PCB-111/117	PCB-111/117	ng/g	230	41		302 J	41.7 J	23.5	15.1 J	12.4 J	645 J	4.17 J	44 J	15.4 J	5.31 J
PCB-112	74472-36-9	ng/g	230	41		10.1 J	< 0.0467 UJ	0.408 J	< 0.0454 U	< 0.0473 U	38.6	< 0.0450 U	1.01 J	< 0.0479 U	< 0.0447 U
PCB-113	68194-10-5	ng/g	230	41		11.7 J	< 0.0490 UJ	< 0.0488 U	0.487 J	< 0.0497 U	25.5	< 0.0472 U	1.39 J	< 0.0503 U	< 0.0469 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0056-PLS1	23D-0057-PLS1	23D-0058-PLS1	23D-0059-PLS1	23D-0059-PLS1	23D-0060-PLS1	23D-0061-PLS1	23D-0062-PLS1	23D-0063-PLS1	23D-0064-B1S1
				Sample Name	23D-0056-PLS1-AS	23D-0057-PLS1-AS	23D-0058-PLS1-AS	23D-0059-PLS1-AS	23D-0059-PLS1-AT	23D-0060-PLS1-AS	23D-0061-PLS1-AS	23D-0062-PLS1-AS	23D-0063-PLS1-AS	23D-0064-B1S1-AS
				Sample Date	7/31/2023	7/31/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/2/2023	8/1/2023	8/1/2023
				Sample Type	N	N	N	N	FD	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.6 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-114	74472-37-0	ng/g	120	41	18.5 J	4.34 J	2.02 J	1.41 J	1.14 J	18.8 J	< 0.0392 U	1.92 J	< 0.0417 U	< 0.0390 U
PCB-119	56558-17-9	ng/g	230	41	118 J	3.85 J	3.49 J	2.28 J	1.92 J	308 J	0.652 J	7.12 J	2.46 J	0.674 J
PCB-122	76842-07-4	ng/g	230	41	6.96 J	1.85 J	0.925 J	0.577 J	0.524 J	6.92 J	< 0.0330 U	1.11 J	< 0.0352 U	< 0.0328 U
PCB-123	65510-44-3	ng/g	120	41	21.8 J+	4.11 J+	1.99 J+	1.44 J+	1.20 J+	42.6 J	0.471 J+	3.1 J+	< 0.0326 U	0.467 J+
PCB-124	70424-70-3	ng/g	230	41	17.2 J	4.46 J	1.97 J	1.43 J	1.20 J	22.0	0.486 J	2.7 J	< 0.0439 U	0.385 J
PCB-125	74472-39-2	ng/g	230	41	9.76 J	< 0.0469 UJ	< 0.0467 U	< 0.0456 U	< 0.0475 U	26.6	< 0.0452 U	< 0.0458 U	< 0.0481 U	< 0.0449 U
PCB-126	57465-28-8	ng/g	0.0360	41	9.31 J+	< 0.0667 U	0.510 J+	0.434 J+	< 0.0675 U	39.5 J	< 0.0642 U	< 0.0651 U	< 0.0684 U	< 0.0638 U
PCB-128	38380-07-3	ng/g	230	41	87.4 J	9.22 J	5.25 J	4.00 J	3.11 J	190 J	3.05 J	11.3 J	13.3 J	2.03 J
PCB-129	55215-18-4	ng/g	230	41	19.3 J	2.50 J	1.15 J	1.01 J	0.608 J	34.3	0.722 J	2.49 J	< 0.0531 U	< 0.0495 U
PCB-130	52663-66-8	ng/g	230	41	37.7	3.30 J	2.13 J	1.72 J	1.37 J	122 J	1.13 J	4.19 J	4.48 J	0.777 J
PCB-131/142	PCB-131/142	ng/g	230	41	5.97 J	< 0.100 U	0.311 J	0.258 J	< 0.102 U	10.8 J	< 0.0965 U	0.914 J	< 0.103 U	< 0.0959 U
PCB-132/168	PCB-132/168	ng/g	230	41	162 J	14.2 J	9.70 J	7.41 J	5.61 J	448 J	4.94 J	22.8	22.1	3.52 J
PCB-133	35694-04-3	ng/g	230	41	17.1 J	< 0.0364 U	0.509 J	0.520 J	< 0.0369 U	98.4 J	< 0.0351 U	1.08 J	< 0.0374 U	< 0.0349 U
PCB-134	52704-70-8	ng/g	230	41	32.3	1.84 J	1.48 J	1.19 J	0.797 J	91.3 J	0.704 J	3.47 J	< 0.0990 U	0.436 J
PCB-135/144	PCB-135/144	ng/g	230	41	80.3 J	5.93 J	4.14 J	3.43 J	2.81 J	260 J	1.87 J	9.34 J	8.96 J	1.52 J
PCB-136	38411-22-2	ng/g	230	41	63.0 J	4.33 J	3.09 J	2.46 J	1.93 J	187 J	1.54 J	7.53 J	6.99 J	1.09 J
PCB-137	35694-06-5	ng/g	230	41	30.8	3.23 J	1.66 J	1.33 J	0.978 J	76.0 J	0.949 J	3.74 J	4.37 J	0.747 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	485 J	49.5 J	29.0	24.0	18.9 J	1400 J	15.6 J	60.6 J	69.0 J	10.4 J
PCB-139/149	PCB-139/149	ng/g	230	41	332 J	27.4	19.4	15.8 J	12.7 J	1040 J	8.72 J	42.2 J	41.3 J	6.48 J
PCB-140	59291-64-4	ng/g	230	41	4.73 J	< 0.0690 U	< 0.0687 U	< 0.0671 U	< 0.0699 U	24.4	< 0.0664 U	< 0.0674 U	< 0.0708 U	< 0.0660 U
PCB-141	52712-04-6	ng/g	230	41	54.0 J	7.69 J	3.87 J	3.31 J	2.52 J	122 J	2.14 J	8.05 J	9.43 J	1.55 J
PCB-143	68194-15-0	ng/g	230	41	3.04 J	< 0.0622 U	< 0.0619 U	< 0.0605 U	< 0.0630 U	7.05 J	< 0.0599 U	< 0.0607 U	< 0.0638 U	< 0.0595 U
PCB-145	74472-40-5	ng/g	230	41	0.594 J	< 0.0822 U	< 0.0818 U	< 0.0799 U	< 0.0833 U	1.77 J	< 0.0791 U	< 0.0802 U	< 0.0843 U	< 0.0786 U
PCB-146	51908-16-8	ng/g	230	41	67.1 J	4.85 J	3.36 J	3.07 J	2.50 J	350 J	1.62 J	7.04 J	6.72 J	1.13 J
PCB-147	68194-13-8	ng/g	230	41	52.0 J	1.23 J	0.927 J	0.718 J	0.621 J	225 J	0.348 J	2.16 J	2.15 J	0.301 J
PCB-148	74472-41-6	ng/g	230	41	3.86 J	< 0.0760 U	< 0.0756 U	< 0.0739 U	< 0.0770 U	24.0	< 0.0731 U	< 0.0742 U	< 0.0779 U	< 0.0727 U
PCB-150	68194-08-1	ng/g	230	41	4.03 J	< 0.0767 U	< 0.0764 U	< 0.0746 U	< 0.0778 U	18.5 J	< 0.0739 U	< 0.0749 U	< 0.0787 U	< 0.0735 U
PCB-151	52663-63-5	ng/g	230	41	105 J	6.64 J	5.11 J	4.34 J	3.45 J	427 J	1.86 J	9.9 J	8.91 J	1.57 J
PCB-152	68194-09-2	ng/g	230	41	4.49 J	< 0.0897 U	< 0.0893 U	< 0.0872 U	< 0.0909 U	23.4	< 0.0864 U	< 0.0876 U	< 0.0920 U	< 0.0859 U
PCB-153	35065-27-1	ng/g	230	41	288 J	30.4	18.3 J	15.7 J	12.3 J	1090 J	9.47 J	36.9	47.1 J	6.22 J
PCB-154	60145-22-4	ng/g	230	41	21.5	< 0.0535 U	0.449 J	0.424 J	0.362 J	117 J	< 0.0515 U	1.15 J	< 0.0549 U	< 0.0512 U
PCB-155	33979-03-2	ng/g	230	41	0.250 J	< 0.0461 U	< 0.0459 U	< 0.0448 U	< 0.0467 U	1.28 J	< 0.0444 U	< 0.0450 U	< 0.0473 U	< 0.0441 U
PCB-156	38380-08-4	ng/g	120	41	47.7 J	4.68 J-	2.49 J-	2.28 J-	1.55 J-	103 J	1.24 J-	4.5 J	5.07 J-	0.664 J-
PCB-157	69782-90-7	ng/g	120	41	13.8 J	1.31 J	0.616 J	0.510 J	0.415 J	36.0 J	0.283 J	1.38 J+	< 0.0553 UJ	< 0.0516 UJ
PCB-158/160	PCB-158/160	ng/g	230	41	45.0 J	4.51 J	2.50 J	1.99 J	1.43 J	90.7 J	1.37 J	5.57 J	6.67 J	1.01 J
PCB-159	39635-35-3	ng/g	230	41	4.02 J	< 0.0744 U	< 0.0741 U	< 0.0724 U	< 0.0754 U	18.4 J	< 0.0716 U	< 0.0727 U	< 0.0763 U	< 0.0712 U
PCB-161	74472-43-8	ng/g	230	41	< 0.0715 U	< 0.0696 U	< 0.0693 U	< 0.0676 U	< 0.0705 U	< 0.0701 U	< 0.0670 U	< 0.0679 U	< 0.0714 U	< 0.0666 U
PCB-162	39635-34-2	ng/g	230	41	3.33 J	< 0.0548 U	< 0.0546 U	< 0.0533 U	< 0.0556 U	10.2 J	< 0.0528 U	< 0.0535 U	< 0.0563 U	< 0.0525 U
PCB-165	74472-46-1	ng/g	230	41	2.23 J	< 0.0752 U	< 0.0749 U	< 0.0731 U	< 0.0762 U	10.1 J	< 0.0724 U	< 0.0734 U	< 0.0771 U	< 0.0720 U
PCB-166	41411-63-6	ng/g	230	41	2.79 J	< 0.0647 U	< 0.0645 U	< 0.0629 U	< 0.0656 U	5.13 J	< 0.0623 U	< 0.0632 U	< 0.0664 U	< 0.0620 U
PCB-167	52663-72-6	ng/g	120	41	19.0 J	1.77 J	0.805 J+	0.731 J+	0.514 J+	45.9 J	0.646 J+	2.11 J	2.93 J+	0.415 J+
PCB-169	32774-16-6	ng/g	0.120	41	< 0.0564 U	< 0.0548 U	< 0.0546 U	< 0.0533 U	< 0.0556 U	< 0.0553 U	< 0.0528 U	< 0.0535 U	< 0.0563 U	< 0.0525 U
PCB-170/190	PCB-170/190	ng/g	230	41	128 J	9.78 J	6.11 J	6.07 J	4.90 J	472 J	1.98 J	9.27 J	9.58 J	1.81 J
PCB-171	52663-71-5	ng/g	230	41	32.4	2.07 J	1.37 J	1.26 J	0.931 J	112 J	0.492 J	2.53 J	2.50 J	0.477 J
PCB-172/192	PCB-172/192	ng/g	230	41	17.6 J	1.28 J	0.690 J	0.807 J	0.646 J	71.6 J	< 0.115 U	1.33 J	< 0.122 U	< 0.114 U
PCB-173	68194-16-1	ng/g	230	41	2.24 J	< 0.0802 U	< 0.0799 U	< 0.0780 U	< 0.0813 U	7.16 J	< 0.0772 U	< 0.0783 U	< 0.0823 U	< 0.0768 U
PCB-174	38411-25-5	ng/g	230	41	95.6 J	7.93 J	5.07 J	4.88 J	4.03 J	384 J	1.40 J	7.99 J	7.80 J	1.55 J
PCB-175	40186-70-7	ng/g	230	41	4.46 J	< 0.0618 U	< 0.0616 U	< 0.0601 U	< 0.0626 U	15.4 J	< 0.0595 U	0.369 J	< 0.0634 U	< 0.0592 U
PCB-176	52663-65-7	ng/g	230	41	12.3 J	0.699 J	0.476 J	0.467 J	0.364 J	54.3 J	0.186 J	0.975 J	0.705 J	0.146 J
PCB-177	52663-70-4	ng/g	230	41	67.2 J	4.53 J	3.18 J	3.06 J	2.51 J	292 J	0.944 J	4.92 J	4.37 J	0.985 J
PCB-178	52663-67-9	ng/g	230	41	28.3	1.54 J	1.02 J	1.01 J	0.923 J	135 J	0.285 J	1.73 J	1.35 J	0.317 J
PCB-179	52663-64-6	ng/g	230	41	42.6 J	2.63 J	1.83 J	1.79 J	1.50 J	201 J	0.507 J	2.97 J	2.38 J	0.518 J
PCB-180	35065-29-3	ng/g	230	41	228 J	16.0 J	10.7 J	10.5 J	8.55 J	915 J	3.20 J	16.7 J	15.9 J	3.30 J
PCB-181	74472-47-2	ng/g	230	41	< 0.0564 U	< 0.0548 U	< 0.0546 U	< 0.0533 U	< 0.0556 U	< 0.0553 U	< 0.0528 U	< 0.0535 U	< 0.0563 U	< 0.0525 U
PCB-182/187	PCB-182/187	ng/g	230	41	133 J	8.66 J	6.66 J	6.34 J	5.25 J	632 J	1.69 J	9.74 J	8.15 J	1.65 J
PCB-183	52663-69-1	ng/g	230	41	54.4 J	3.61 J	2.29 J	2.26 J	1.76 J	198 J	0.781 J	4.19 J	3.57 J	0.706 J
PCB-184	74472-48-3	ng/g	230	41	< 0.0534 U	< 0.0519 U	< 0.0517 U	< 0.0505 U	< 0.0526 U	< 0.0523 U	< 0.0500 U	< 0.0507 U	< 0.0533 U	< 0.0497 U
PCB-185	52712-05-7	ng/g	230	41	10.9 J	0.917 J	0.599 J	0.586 J	0.485 J	37.1	< 0.0692 U	0.842 J	< 0.0737 U	0.171 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0056-PLS1	23D-0057-PLS1	23D-0058-PLS1	23D-0059-PLS1	23D-0059-PLS1	23D-0060-PLS1	23D-0061-PLS1	23D-0062-PLS1	23D-0063-PLS1	23D-0064-B1S1
					Sample Name	23D-0056-PLS1-AS	23D-0057-PLS1-AS	23D-0058-PLS1-AS	23D-0059-PLS1-AS	23D-0059-PLS1-AT	23D-0060-PLS1-AS	23D-0061-PLS1-AS	23D-0062-PLS1-AS	23D-0063-PLS1-AS	23D-0064-B1S1-AS
					Sample Date	7/31/2023	7/31/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/2/2023	8/1/2023	8/1/2023
					Sample Type	N	N	N	N	FD	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.6 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-186	74472-49-4	ng/g	230	41	< 0.0668 U	< 0.0649 U	< 0.0646 U	< 0.0631 U	< 0.0658 U	< 0.0654 U	< 0.0625 U	< 0.0634 U	< 0.0666 U	< 0.0621 U
PCB-188	74487-85-7	ng/g	230	41	0.628 J	< 0.0595 U	< 0.0592 U	< 0.0578 U	< 0.0603 U	3.62 J	< 0.0573 U	< 0.0581 U	< 0.0610 U	< 0.0569 U
PCB-189	39635-31-9	ng/g	130	41	6.26 J	< 0.0605 U	0.257 J	0.295 J	0.213 J	24.3	< 0.0582 U	< 0.0590 U	< 0.0620 U	< 0.0579 U
PCB-191	74472-50-7	ng/g	230	41	4.24 J	< 0.0546 U	0.192 J	0.196 J	0.157 J	17.0 J	< 0.0526 U	< 0.0534 U	< 0.0561 U	< 0.0523 U
PCB-193	69782-91-8	ng/g	230	41	12.6 J	0.897 J	0.533 J	0.551 J	0.504 J	66.0 J	< 0.0664 U	0.835 J	< 0.0708 U	< 0.0660 U
PCB-194	35694-08-7	ng/g	230	41	89.3 J	4.88 J	3.57 J	3.80 J	3.20 J	492 J	< 0.0840 U	5.21 J	< 0.0895 U	1.40 J
PCB-195	52663-78-2	ng/g	230	41	29.6	1.76 J	1.13 J	1.49 J	1.09 J	152 J	< 0.149 U	1.86 J	< 0.158 U	< 0.148 U
PCB-196/203	PCB-196/203	ng/g	230	41	87.9 J	5.13 J	3.52 J	3.80 J	3.07 J	450 J	0.866 J	5.46 J	4.01 J	0.839 J
PCB-197	33091-17-7	ng/g	230	41	2.51 J	< 0.0653 U	< 0.0650 U	< 0.0635 U	< 0.0662 U	12.7 J	< 0.0629 U	< 0.0638 U	< 0.0670 U	< 0.0625 U
PCB-198	68194-17-2	ng/g	230	41	3.76 J	< 0.106 U	< 0.106 U	< 0.103 U	< 0.107 U	18.4 J	< 0.102 U	< 0.103 U	< 0.109 U	< 0.101 U
PCB-199	52663-75-9	ng/g	230	41	74.3 J	4.79 J	3.10 J	3.33 J	2.80 J	388 J	0.827 J	4.73 J	3.12 J	0.759 J
PCB-200	52663-73-7	ng/g	230	41	8.54 J	< 0.0519 U	0.371 J	0.370 J	0.290 J	40.7 J	< 0.0500 U	0.612 J	< 0.0533 U	< 0.0497 U
PCB-201	40186-71-8	ng/g	230	41	8.35 J	< 0.0411 U	< 0.0409 U	0.312 J	< 0.0416 U	42.2 J	< 0.0396 U	0.6 J	< 0.0421 U	< 0.0393 U
PCB-202	2136-99-4	ng/g	230	41	13.0 J	0.737 J	0.433 J	0.472 J	0.412 J	64.4 J	< 0.0675 U	0.954 J	< 0.0720 U	< 0.0671 U
PCB-204	74472-52-9	ng/g	230	41	< 0.0883 U	< 0.0858 U	< 0.0855 U	< 0.0835 U	< 0.0870 U	< 0.0865 U	< 0.0827 U	< 0.0838 U	< 0.0881 U	< 0.0822 U
PCB-205	74472-53-0	ng/g	230	41	4.37 J	< 0.0608 U	< 0.0606 U	< 0.0592 U	< 0.0617 U	21.3	< 0.0586 U	< 0.0594 U	< 0.0624 U	< 0.0582 U
PCB-206	40186-72-9	ng/g	230	41	37.1	2.59 J	1.21 J	1.48 J	1.26 J	181 J	0.419 J	2.66 J	2.73 J	0.386 J
PCB-207	52663-79-3	ng/g	230	41	3.81 J	< 0.0771 U	< 0.0768 U	< 0.0750 U	< 0.0781 U	18.7 J	< 0.0743 U	< 0.0753 U	< 0.0791 U	< 0.0738 U
PCB-208	52663-77-1	ng/g	230	41	9.19 J	0.644 J	0.240 J	0.359 J	0.321 J	39.3 J	< 0.0743 U	0.686 J	< 0.0791 U	0.113 J
PCB-209	2051-24-3	ng/g	230	41	8.88 J	1.14 J	0.306 J	0.285 J	0.255 J	26.5	< 0.0427 U	1.02 J	1.78 J	0.254 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0	8.88	1.14	0.306	0.285	0.255	26.5	< 0.0427 U	1.02	1.78	0.254
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0	881	60.5	41.0	40.1	32.7	3640	11.5	64.4	56.3	11.6
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0	2100	185	116	96.2	74.5	6710	58.2	248	259	39.9
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0	322	17.3	12.1	13.6	10.9	1680	1.69	19.4	7.13	3.00
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14	87100	2560	2010	1200	1010	116000	367	8580	921	382
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0	6780	754	491	328	270	14900	85.2	891	329	103
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0	5770	40.8	41.5	28.3	27.9	10200	19.6	888	42.3	6.88
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0	580	8.08	0.941	1.68	1.60	1960	0.350	35.4	3.50	0.149
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0	50.1	3.23	1.45	1.84	1.58	239	0.419	3.35	2.73	0.499
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0	43600	1230	1030	557	467	51800	87.5	3400	158	156
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0	27000	257	275	138	126	24600	103	3020	61.4	61.5
TAL Metals and Mercury															
Aluminum	7429-90-5	mg/kg	7700		7500	4600	4400	6500	5600	12000	4800	5200	9100	2700
Calcium	7440-70-2	mg/kg			2900	1600	1400	2400	2000	4100	2400	1900	4100	780
Iron	7439-89-6	mg/kg	5500		9000	7500	6100 J	11000 J	9000 J	14000 J	9600 J	7500 J	16000 J	10000 J
Magnesium	7439-95-4	mg/kg			2000 J	2100 J	1800	4100	2800	3300	2200	3100	2700	1300
Potassium	7440-09-7	mg/kg			< 750 U	< 440 U	380 J	420 J	470 J	860	360 J	320 J	750 J	280 J
Sodium	7440-23-5	mg/kg			420 J	120 J	50 J	56 J	44 J	270 J	250 J	66 J	760 J	83 J
Antimony	7440-36-0	mg/kg	3.1	0.27	1.8	0.59 J	< 1.1 UJ	< 1.0 UJ	< 1.1 UJ	3.5 J	< 1.2 UJ	< 1.2 UJ	< 2.9 UJ	< 1.0 UJ
Arsenic	7440-38-2	mg/kg	0.68	18	5.6	2.0	1.0 J	1.2 J	1.2 J	4.8 J	0.81 J	2.0 J	4.2 J	2.7 J
Barium	7440-39-3	mg/kg	1500	110	100 J	37 J	23 J	27 J	24 J	85 J	10 J	16 J	70 J	7.1 J
Beryllium	7440-41-7	mg/kg	16	2.5	< 0.69 U	< 0.45 U	< 0.53 U	< 0.50 U	< 0.53 U	< 0.88 U	< 0.58 U	< 0.61 U	< 1.4 U	< 0.51 U
Cadmium	7440-43-9	mg/kg	0.71	0.36	0.91	0.42 J	0.45 J	0.20 J	0.16 J	1.3	0.32 J	0.18 J	0.92 J	0.11 J
Chromium, Total	7440-47-3	mg/kg	0.3	23	80	30	8.6 JEB	13 JEB	11 JEB	68 JEB	11 JEB	22 JEB	66 JEB	8.2 JEB
Cobalt	7440-48-4	mg/kg	2.3	13	4.8	3.1	3.1 J	4.3 J	4.6 J	5.0 J	2.4 J	2.5 J	4.7 J	2.4 J
Copper	7440-50-8	mg/kg	310	28	140	37	15 EB	15 EB	12 EB	120 EB	53 EB	41 EB	65 EB	14 EB
Lead	7439-92-1	mg/kg	200	11	260	68	19 EB	47 EB	41 EB	250 EB	31 EB	120 EB	160 EB	23 EB
Manganese	7439-96-5	mg/kg	180	220	150 JEB	110 JEB	120 EB	150 EB	180 EB	230 EB	59 EB	110 EB	280 EB	70 EB
Nickel	7440-02-0	mg/kg	140	38	74 J	7.2 J	5.4 J	8.0 J	7.4 J	14 J	4.7 J	7.3 J	17 J	4.0 J
Selenium	7782-49-2	mg/kg	39	0.52	2.1 J	0.68 J	< 2.6 U	0.69 J	0.71 J	1.9 J	< 2.9 U	< 3.0 U	2.0 J	< 2.6 U
Silver	7440-22-4	mg/kg	39	4.2	0.58 J	0.15 J	0.057 J	0.045 J	0.045 J	0.82 J	0.11 J	0.11 J	0.45 J	0.050 J
Thallium	7440-28-0	mg/kg	0.078	0.05	0.15 J	0.065 J	0.031 J	0.046 J	0.032 J	0.094 J	< 0.58 U	< 0.61 U	0.12 J	0.022 J
Vanadium	7440-62-2	mg/kg	39	7.8	28	13	8.4	13	12	39	8.0	9.7	24	11
Zinc	7440-66-6	mg/kg	2300	46	230 EB	120 EB	42 EB	65 EB	58 EB	190 EB	53 EB	96 EB	290 EB	56 EB
Mercury	7439-97-6	mg/kg	2.3	0.013	0.79	0.20	0.048 J	0.054 J	0.052 J	2.0 J	0.11 J	0.16 J	0.59 J	0.068 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0056-PLS1	23D-0057-PLS1	23D-0058-PLS1	23D-0059-PLS1	23D-0059-PLS1	23D-0060-PLS1	23D-0061-PLS1	23D-0062-PLS1	23D-0063-PLS1	23D-0064-B1S1
				Sample Name	23D-0056-PLS1-AS	23D-0057-PLS1-AS	23D-0058-PLS1-AS	23D-0059-PLS1-AS	23D-0059-PLS1-AT	23D-0060-PLS1-AS	23D-0061-PLS1-AS	23D-0062-PLS1-AS	23D-0063-PLS1-AS	23D-0064-B1S1-AS
				Sample Date	7/31/2023	7/31/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/2/2023	8/1/2023	8/1/2023
				Sample Type	N	N	N	N	FD	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.6 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
2-HEXANONE	591-78-6	ug/kg	20000	360	< 22 UJ	< 13 UJ	< 11 U	< 11 U	< 10 U	< 15 U	< 14 U	< 14 U	< 36 U	< 10 U
ACETONE	67-64-1	ug/kg	7000000	1200	150 J	76 J	< 11 U	30 JEB	39 JEB	< 15 U	< 14 U	12 JEB	120 EB	< 10 U
Benzene	71-43-2	ug/kg	1200	120	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
BROMOFORM	75-25-2	ug/kg	19000	70	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
BROMOMETHANE	74-83-9	ug/kg	680	2	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Chloroform	67-66-3	ug/kg	320	50	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 11 UJ	< 6.7 UJ	< 5.7 UJ	< 5.6 UJ	< 5.1 UJ	< 7.3 UJ	< 6.8 UJ	< 6.8 UJ	< 18 UJ	< 5.1 UJ
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Cyclohexane	110-82-7	ug/kg	650000		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Ethylbenzene	100-41-4	ug/kg	5800	270	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
METHYL ACETATE	79-20-9	ug/kg	7800000		15 J	12 J	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	12 J	5.7
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	31 J	9.4 J	< 11 U	6.1 J	5.3 J	< 15 U	< 14 U	< 14 U	27 J	< 10 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 22 UJ	< 13 UJ	< 11 U	< 11 U	< 10 U	< 15 U	< 14 U	< 14 U	< 36 U	< 10 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Methylene Chloride	75-09-2	ug/kg	35000	210	5.6 J	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Styrene	100-42-5	ug/kg	600000	1200	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Toluene	108-88-3	ug/kg	490000	150	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U
Vinyl Chloride	75-01-4	ug/kg	59	30	< 11 UJ	< 6.7 UJ	< 5.7 U	< 5.6 U	< 5.1 U	< 7.3 U	< 6.8 U	< 6.8 U	< 18 U	< 5.1 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0056-PLS1	23D-0057-PLS1	23D-0058-PLS1	23D-0059-PLS1	23D-0059-PLS1	23D-0060-PLS1	23D-0061-PLS1	23D-0062-PLS1	23D-0063-PLS1	23D-0064-B1S1
					Sample Name	23D-0056-PLS1-AS	23D-0057-PLS1-AS	23D-0058-PLS1-AS	23D-0059-PLS1-AS	23D-0059-PLS1-AT	23D-0060-PLS1-AS	23D-0061-PLS1-AS	23D-0062-PLS1-AS	23D-0063-PLS1-AS	23D-0064-B1S1-AS
					Sample Date	7/31/2023	7/31/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/2/2023	8/1/2023	8/1/2023
					Sample Type	N	N	N	N	FD	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.6 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 130 U	< 120 U	< 75 U	< 75 U	< 75 U	< 100 U	< 98 U	< 86 U	< 200 U	< 73 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 320 UJ	< 290 UJ	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 320 U	< 290 U	< 190 R	< 190 R	< 190 R	< 250 R	< 250 R	< 220 U	< 510 R	< 180 R
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 UJ	< 980 U	< 360 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 320 U	< 290 U	< 190 R	< 190 R	< 190 R	< 250 R	< 250 R	< 220 U	< 510 R	< 180 R
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	450 J	< 360 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
Caprolactam	105-60-2	ug/kg	3100000		< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 320 UJ	< 290 UJ	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0056-PLS1	23D-0057-PLS1	23D-0058-PLS1	23D-0059-PLS1	23D-0059-PLS1	23D-0060-PLS1	23D-0061-PLS1	23D-0062-PLS1	23D-0063-PLS1	23D-0064-B1S1
				Sample Name	23D-0056-PLS1-AS	23D-0057-PLS1-AS	23D-0058-PLS1-AS	23D-0059-PLS1-AS	23D-0059-PLS1-AT	23D-0060-PLS1-AS	23D-0061-PLS1-AS	23D-0062-PLS1-AS	23D-0063-PLS1-AS	23D-0064-B1S1-AS
				Sample Date	7/31/2023	7/31/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/1/2023	8/2/2023	8/1/2023	8/1/2023
				Sample Type	N	N	N	N	FD	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	0 - 0.6 ft	0 - 1 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Naphthalene	91-20-3	ug/kg	2000	29000	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 320 U	< 290 U	< 190 U	< 190 U	< 190 U	< 250 U	< 250 U	< 220 U	< 510 U	< 180 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	790	< 630 U	< 570 U	< 370 U	< 370 U	< 370 U	< 490 U	< 490 U	< 430 U	< 980 U	< 360 U
PYRENE	129-00-0	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	140	< 6.3 U	< 5.7 U	< 3.7 U	< 3.7 U	< 3.7 U	7.3	< 4.8 U	14	16	< 3.6 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	< 6.3 U	< 5.7 U	< 3.7 U	< 3.7 U	< 3.7 U	12	< 4.8 U	19	21	2.1 J
Acenaphthene	83-32-9	ug/kg	360000	29000	< 6.3 U	< 5.7 U	2.3 J	3.7	< 3.7 U	< 5.0 U	9.9	48 J	51	< 3.6 U
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	5.4 J-	7.6 J-	3.1 J	70 J	5.3 J	41	10	23	39	5.6
ANTHRACENE	120-12-7	ug/kg	1800000	29000	30 J	30 J	8.1	56 J	12 J	56	53	350 J+	220	17
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	74 J-	87 J-	34	82 J	51 J	260	160	750 J+	540	45
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	76 J-	120	45	66	52	280	180	710 J+	550	49
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	98 J-	170	59	70	72	360	250	750 J+	770	65
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	46 J-	59 J-	35	49	47	180	110	340 J+	340	51 J+
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	30 J-	37 J-	29	40	39	140	100	330 J+	300	42 J+
CHRYSENE	218-01-9	ug/kg	110000	1100	84 J-	130	50	88	58	290	200	630 J+	620	53
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	11 J-	13 J-	8.3	13	12	57	34	33	96	12 J+
FLUORANTHENE	206-44-0	ug/kg	240000	1100	140 J+	220 J+	88	120	100	480	380	1400 J+	1400	100
FLUORENE	86-73-7	ug/kg	240000	29000	5.3 J-	5.2 J-	2.6 J	15 J	3.1 J	26	12	54	79	3.6
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	54 J-	69 J-	39	54	55	200	140	430 J+	410	38
Naphthalene	91-20-3	ug/kg	2000	29000	< 6.3 U	< 5.7 U	< 3.7 U	< 3.7 U	< 3.7 U	15	3.2 J	30	15	2.5 J
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	< 13 U	< 12 U	< 7.4 U	< 7.5 U	< 7.5 U	< 10 U	< 9.8 U	< 8.7 U	< 20 U	< 7.3 U
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	62 J-	73 J-	37	59	43	210	150	1200 J+	830	39
PYRENE	129-00-0	ug/kg	180000	1100	91 J	180 J	58 J	120 J	64 J	350 J	230 J	1100 J+	800 J	64 J
Asbestos														
ASBESTOS	1332-21-4	%			< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	0.25	< 0.25 U	< 0.25 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0065-B1S1	23D-0065-B1S1	23D-0066-PLS1	23D-0067-PLS1	23D-0069-PLS1	23D-0071-PLS1	23D-0072-B1S1	23D-0073-PLS1	23D-0074-B1S1	23D-0075-PLS1
					Sample Name	23D-0065-B1S1-AS	23D-0065-B1S1-BS	23D-0066-PLS1-AS	23D-0067-PLS1-AS	23D-0069-PLS1-AS	23D-0071-PLS1-AS	23D-0072-B1S1-AS	23D-0073-PLS1-AS	23D-0074-B1S1-AS	23D-0075-PLS1-AS
					Sample Date	8/2/2023	8/2/2023	8/2/2023	8/2/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.2 ft	0 - 0.9 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	1930	137	436	302	3170	895	922	632	666	1350
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	28.7	1.87	7.74	6.48	55.8	18.8	13.3	9.18	16.3	22.2
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	20.6	2.15	4.20 JN	4.06	25.2	9.41	8.7	5.98	7.61	12.2
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	36.7	2.96	12.3 J	9.60	115 J	50.5 J	18.7 J	17.1 J	56.8 J	55.5 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	113	8.94	24.3	15.2	159	47.3	52.1	31.8	39.1	68.9
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	17.9 JN	1.79 JN	6.67	4.97 JN	55.7	21.2	9.72	9.42	21.4	27.6
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	56.3	4.06	15.0	8.52	72.6	24.3	25.7	16.3	19.6	33
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 5.88 UJ	< 1.92 U	< 2.78 U	< 2.6 U	< 1.6 U	< 0.992 U	< 1.05 U	< 0.892 U	< 1.03 U	< 1.2 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	8.10 JN	0.7 JN	2.1 JN	1.63 JN	10.5 JN	4.39 JN	3.44 JN	2.95 J	3.7 JN	4.75 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	16.4	1.23 JN	1.86 JN	1.28 JN	18.1 J	18.4 J	3.23 J	2.18 JN	32.1 J	8.28 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	1560 J+	124 J+	250 J+	180 J+	1160	517	529	350	367	769
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	31.3	2.8	8.44	4.67	56.6	21.2	10.2	9.35	21.8	25
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	42.5	3.13 JN	18.6	6.28	141 J	61.7 J	10.3 J	10.3 J	143 J	40.2 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	1.89 J	< 1.91 UJ	< 1.96 UJ	< 1.98 UJ	8.59	1.19 JN	< 0.655 U	1.48 JN	< 0.537 U	1.84
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	40.0	4.97	5.45	2.02 JN	59.3	32.4	6.3	6.33	48.7	15.4
OCDD	3268-87-9	pg/g	16000	10500	10400 EB	721 EB	2310 EB	2170 EB	26800 JEB	6480 EB	5650 EB	4050 EB	4610 EB	9440 EB
OCDF	39001-02-0	pg/g	16000	10500	985	72.6	199	194	1600	493	492	347	374	778
Total HpCDD (a)	RA_Total_HpCDD	pg/g			1930	137	436	302	3170	895	922	632	666	1350
Total HpCDF (a)	RA_Total_HpCDF	pg/g			1590	126	258	186	1220	536	542	359	383	791
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		190	15.2	43.5	27.8	257	81.0	86.5	54.1	66.3	114
Total HxCDF (a)	RA_Total_HxCDF	pg/g			85.9	7.55	27.4	19.2	227	92.9	38.6	35.9	100	108
Total PeCDD (a)	RA_Total_PeCDD	pg/g			8.10	0.7	2.1	1.63	10.5	4.39	3.44	2.95	3.7	4.75
Total PeCDF (a)	RA_Total_PeCDF	pg/g			58.9	4.36	20.5	7.56	159	80.1	13.5	12.5	175	48.5
Total TCDD (a)	RA_Total_TCDD	pg/g			1.89	< 1.91 U	< 1.96 U	< 1.98 U	8.59	1.19	< 0.655 U	1.48	< 0.537 U	1.84
Total TCDF (a)	RA_Total_TCDF	pg/g			40.0	4.97	5.45	2.02	59.3	32.4	6.3	6.33	48.7	15.4
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	41	22.4 J	9.31 J	167 J	20.6 J	436 J	2.78 J	2.07 J	0.701 J	3.30 J	149 J
PCB-002	2051-61-8	ng/g	230	41	< 0.0538 U	< 0.0518 U	4.27 JEB	0.461 JEB	22.7 EB	< 0.0529 U	< 0.0537 U	< 0.0528 U	< 0.0540 U	4.46 JEB
PCB-003	2051-62-9	ng/g	230	41	5.14 J	1.8 J	67.4 J	8.3 J	312 J	2.07 J	1.14 J	0.369 J	1.16 J	148 J
PCB-004/010	PCB-4/10	ng/g	230	41	83.8 J	33.2 J	468 J	60.4 J	1550 J	18.7 J	6.49 J	1.89 J	81.6 J	548 J
PCB-005/008	PCB-5/8	ng/g	230	41	46.8 J	31.4 J	611 J	112 J	1180 J	21.8	9.19 J	2.80 J	112 J	840 J
PCB-006	25569-80-6	ng/g	230	41	4.23 J	3.85 J	178 J	26.4	360 J	6.47 J	2.96 J	0.739 J	19.9	72.8 J
PCB-007/009	PCB-7/9	ng/g	230	41	0.979 J	< 0.0871 U	39.4 J	9.02 J	35.7	1.62 J	0.406 J	< 0.0889 U	5.71 J	9.31 J
PCB-011	2050-67-1	ng/g	230	41	< 0.0498 U	< 0.0480 U	27.8 EB	3.19 JEB	67.1 JEB	4.27 JEB	0.545 JEB	< 0.0489 U	3.58 JEB	19.6 EB
PCB-012/013	PCB-12/13	ng/g	230	41	1.7 J	< 0.0864 U	78.2 J	8.84 J	304 J	16.3 J	1.89 J	0.637 J	18.7 J	44.0 J
PCB-014	34883-41-5	ng/g	230	41	< 0.0500 U	< 0.0482 U	< 0.0494 U	< 0.0499 U	< 0.0501 U	< 0.0492 U	< 0.0500 U	< 0.0491 U	< 0.0502 U	< 0.0469 U
PCB-015	2050-68-2	ng/g	230	41	31.4 JEB	3.53 JEB	371 JEB	71 JEB	4940 J	283 J	13.8 J	8.52 J	499 J	1400 J
PCB-016/032	PCB-16/32	ng/g	230	41	28.7 JEB	8.23 JEB	1120 JEB	110 JEB	20900 JEB	104 JEB	10.5 JEB	6.38 JEB	6120 JEB	3180 JEB
PCB-017	37680-66-3	ng/g	230	41	16 JEB	5.46 JEB	545 JEB	54.8 JEB	1850 JEB	37.9 EB	7.59 JEB	3.00 JEB	434 JEB	778 JEB
PCB-018	37680-65-2	ng/g	230	41	9.52 JEB	1.77 JEB	274 JEB	34.9 EB	1170 JEB	58.8 JEB	9.32 JEB	4.03 JEB	611 JEB	88.8 JEB
PCB-019	38444-73-4	ng/g	230	41	12.7 J	4.22 J	411 J	28.5 J	9010 J	24.9	4.35 J	1.40 J	1270 J	1540 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	< 0.139 U	< 0.134 U	34.3 EB	9.6 JEB	403 JEB	30.0 EB	3.17 JEB	2.77 JEB	553 JEB	39.0 JEB
PCB-022	38444-85-8	ng/g	230	41	7.49 J	< 0.0476 U	61.2 J	9.41 J	1140 JEB	67.4 JEB	3.10 JEB	3.76 JEB	1350 JEB	55.1 JEB
PCB-023/034	PCB-23/34	ng/g	230	41	< 0.0902 U	< 0.0870 U	8.55 J	1.15 J	71.2 J	2.64 J	< 0.0902 U	< 0.0887 U	27.8	6.22 J
PCB-024/027	PCB-24/27	ng/g	230	41	7.51 J	2.08 J	245 J	31.7	4230 J	42.1 J	3.68 J	1.48 J	1260 J	741 J
PCB-025	55712-37-3	ng/g	230	41	9.49 J	1.65 J	327 J	41.3 J	1520 J	62.0 J	4.30 J	1.98 J	334 J	285 J
PCB-026	38444-81-4	ng/g	230	41	10.8 JEB	2.03 JEB	482 JEB	52.3 JEB	3860 J	141 J	7.32 J	4.11 J	670 J	422 J
PCB-028	7012-37-5	ng/g	230	41	43.7 JEB	6.25 JEB	990 JEB	215 JEB	11200 JEB	1060 JEB	23.8 EB	24.6 EB	12700 JEB	672 JEB
PCB-029	15862-07-4	ng/g	230	41	< 0.0522 U	< 0.0503 U	< 0.0516 U	< 0.0521 U	7.79 J	< 0.0514 U	< 0.0522 U	< 0.0513 U	7.56 J	1.72 J
PCB-030	35693-92-6	ng/g	230	41	< 0.0478 U	< 0.0461 U	0.558 J	< 0.0477 U	15.8 J	< 0.0471 U	< 0.0478 U	< 0.0470 U	4.33 J	0.499 J
PCB-031	16606-02-3	ng/g	230	41	28.7 EB	3.46 JEB	619 JEB	77.3 JEB	1810 JEB	249 JEB	22.2 EB	16.1 JEB	352 JEB	482 JEB
PCB-035	37680-69-6	ng/g	230	41	< 0.0567 U	< 0.0547 U	1.74 J+	< 0.0567 U	35.2 J+	8.57 J+	< 0.0567 U	< 0.0558 U	70.6 J	2.99 J+
PCB-036	38444-87-0	ng/g	230	41	< 0.0484 U	< 0.0466 U	< 0.0479 U	0.691 J	28.1	4.73 J	< 0.0484 U	< 0.0476 U	77.9 J	4.62 J
PCB-037	38444-90-5	ng/g	230	41	21.8	1.2 J	51.5 J	14.5 J	1070 J	390 J	6.94 J	15.2 J	2190 J	86.8 J
PCB-038	53555-66-1	ng/g	230	41	< 0.0401 U	< 0.0386 U	18.9 J	3.55 J	432 J	25.7	1.59 J	1.32 J	152 J	52.6 J
PCB-039	38444-88-1	ng/g	230	41	< 0.0246 U	< 0.0237 U	3.63 J	< 0.0246 U	57.3 J	2.93 J	< 0.0246 U	< 0.0242 U	12.6 J	10.4 J
PCB-040	38444-93-8	ng/g	230	41	< 0.0411 U	< 0.0396 U	10.7 J	9.53 J	233 JEB	69.1 JEB	3.51 JEB	3.96 JEB	969 JEB	18.2 JEB

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0065-B1S1	23D-0065-B1S1	23D-0066-PLS1	23D-0067-PLS1	23D-0069-PLS1	23D-0071-PLS1	23D-0072-B1S1	23D-0073-PLS1	23D-0074-B1S1	23D-0075-PLS1
					Sample Name	23D-0065-B1S1-AS	23D-0065-B1S1-BS	23D-0066-PLS1-AS	23D-0067-PLS1-AS	23D-0069-PLS1-AS	23D-0071-PLS1-AS	23D-0072-B1S1-AS	23D-0073-PLS1-AS	23D-0074-B1S1-AS	23D-0075-PLS1-AS
					Sample Date	8/2/2023	8/2/2023	8/2/2023	8/2/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.2 ft	0 - 0.9 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-041/064	PCB-41/64	ng/g	230	41		37.9	3.17 J	59.1 J	38.2	785 J	417 J	15.6 J	24.4	2860 J	178 J
PCB-042	36559-22-5	ng/g	230	41		19.1 J	1.36 J	103 J	31.6	2270 J	261 J	13.5 J	14.4 J	2730 J	198 J
PCB-043/049	PCB-43/49	ng/g	230	41		79.7 JEB	10 JEB	913 JEB	163 JEB	15100 JEB	1540 JEB	61.4 JEB	61.7 JEB	9970 JEB	1540 JEB
PCB-044	41464-39-5	ng/g	230	41		51.9 JEB	4.67 JEB	108 JEB	74.4 JEB	2470 JEB	769 JEB	26.9 EB	36.1 EB	6230 JEB	202 JEB
PCB-045	70362-45-7	ng/g	230	41		12.4 J	< 0.0430 U	14.6 J	13.4 J	321 J	73.0 J	3.60 J	3.91 J	1460 J	53.3 J
PCB-046	41464-47-5	ng/g	230	41		4.2 J	< 0.0503 U	23	4.53 J	557 J	14.0 J	1.78 J	1.31 J	434 J	34.3
PCB-047/048/075	PCB-47/48/75	ng/g	230	41		40.4 JEB	4.89 JEB	716 JEB	129 JEB	10400 J	879 J	46.1 J	39.9 J	6980 J	1880 J
PCB-050	62796-65-0	ng/g	230	41		< 0.0637 U	< 0.0613 U	8.82 J	1.33 J	155 J	3.22 J	0.209 J	< 0.0626 U	53.9 J	28.1
PCB-051	68194-04-7	ng/g	230	41		4.78 J	< 0.0522 U	218 J	21.4	3110 J	20.6	4.34 J	2.26 J	926 J	489 J
PCB-052/073	PCB-52/73	ng/g	230	41		73 JEB	7.84 JEB	804 JEB	143 JEB	11300 JEB	1610 JEB	60.0 JEB	58.6 JEB	8580 JEB	986 JEB
PCB-053	41464-41-9	ng/g	230	41		14.7 J	1.93 J	354 J	53.3 J	4780 J	105 J	11.9 J	7.18 J	2270 J	580 J
PCB-054	15968-05-5	ng/g	230	41		< 0.0422 U	< 0.0407 U	25	1.89 J	275 J	2.02 J	0.466 J	0.152 J	53.2 J	56.1 J
PCB-055	74338-24-2	ng/g	230	41		< 0.0549 U	< 0.0529 U	0.531 J	< 0.0549 U	7.64 J+	15.8 J	< 0.0549 U	0.839 J	178 J	0.984 J
PCB-056/060	PCB-56/60	ng/g	230	41		44.1 J	3.42 J	12.6 J	10.6 J	246 J	859 J	16.8 J	44.6 J	4990 J	42.6 J
PCB-057	70424-67-8	ng/g	230	41		< 0.0424 U	< 0.0409 U	13.6 J	3.5 J	145 J	13.5 J	0.360 J	0.371 J	88.4 J	16.0 J
PCB-058	41464-49-7	ng/g	230	41		< 0.0385 U	< 0.0371 U	0.45 J	0.53 J	10.1 J+	4.06 J	0.224 J	0.345 J	18.8 J+	1.37 J
PCB-059	74472-33-6	ng/g	230	41		6.13 J	1.07 J	5.9 J	5.7 J	103 J	62.8 J	1.51 J	2.98 J	517 J	17.2 J
PCB-061/074	PCB-61/74	ng/g	230	41		36.2	2.25 J	39.3 J	26.5	782 J	659 J	17.0 J	29.7	4810 J	127 J
PCB-062	54230-22-7	ng/g	230	41		< 0.0526 U	< 0.0506 U	< 0.0520 U	< 0.0525 U	< 0.0527 U	< 0.0518 U	< 0.0526 U	< 0.0517 U	3.44 J+	< 0.0493 U
PCB-063	74472-34-7	ng/g	230	41		< 0.0395 U	< 0.0380 U	50.5 J	9.38 J	534 J	67.3 J	2.67 J	3.04 J	452 J	64.5 J
PCB-065	33284-54-7	ng/g	230	41		< 0.0758 U	< 0.0730 U	< 0.0749 U	< 0.0757 U	5.01 J+	< 0.0746 U	< 0.0758 U	< 0.0745 U	5.11 J+	< 0.0711 U
PCB-066/080	PCB-66/80	ng/g	230	41		77.2 JEB	6.67 JEB	65.2 JEB	30.4 EB	1230 JEB	1980 JEB	40.7 JEB	97.5 JEB	7300 JEB	163 JEB
PCB-067	73575-53-8	ng/g	230	41		< 0.0464 U	< 0.0447 U	2.34 J	2.88 J	41.1 J	54.7 J	0.893 J	1.75 J	502 J	7.26 J
PCB-068	73575-52-7	ng/g	230	41		< 0.0549 U	< 0.0529 U	14.3 J	2.36 J	120 J	7.79 J	0.943 J	0.544 J	< 0.0552 U	32.2
PCB-069	60233-24-1	ng/g	230	41		< 0.0571 U	< 0.0550 U	3.87 J	< 0.0570 U	37.6 J+	3.12 J	0.196 J	< 0.0562 U	22.0 J+	9.91 J
PCB-070	32598-11-1	ng/g	230	41		67.3 J	5.35 J	25.2	22.5	531 JEB	1750 JEB	41.8 JEB	90.1 JEB	5320 JEB	99.9 JEB
PCB-071	41464-46-4	ng/g	230	41		18.7 JEB	1.76 JEB	139 JEB	40.4 JEB	2440 JEB	180 JEB	8.63 JEB	9.73 JEB	2270 JEB	367 JEB
PCB-072	41464-42-0	ng/g	230	41		< 0.0619 U	< 0.0596 U	18 J	3.91 J	184 J	20.3	1.27 J	1.02 J	60.6 J	39.5 J
PCB-076	70362-48-0	ng/g	230	41		< 0.0760 U	< 0.0732 U	< 0.0751 U	< 0.0759 U	< 0.0762 U	< 0.0748 U	< 0.0760 U	< 0.0747 U	< 0.0763 U	< 0.0713 U
PCB-077	32598-13-3	ng/g	38.0	41		7.41 J+	< 0.0432 U	12.8 J+	6.76 J+	337 J	205 J	5.85 J	13.5 J	1850 J	32.8 J
PCB-078	70362-49-1	ng/g	230	41		< 0.0389 U	< 0.0375 U	0.373 J	< 0.0388 U	4.69 J+	3.33 J	0.164 J	0.249 J	11.2 J+	1.26 J
PCB-079	41464-48-6	ng/g	230	41		< 0.0488 U	< 0.0470 U	< 0.0483 U	< 0.0487 U	5.22 J+	11.1 J	0.417 J	0.600 J	3.91 J+	0.705 J
PCB-081	70362-50-4	ng/g	12.0	41		< 0.0762 U	< 0.0734 U	0.625 J+	< 0.0761 U	12.7 J	20.1 J	0.604 J	1.51 J	157 J	2.79 J
PCB-082	52663-62-4	ng/g	230	41		12.1 J	0.746 J	4.56 J	4.63 J	76.4 J	112 J	3.66 J	6.71 J	549 J	15.3 J
PCB-083/109	PCB-83/109	ng/g	230	41		5.12 J	< 0.116 U	6.31 J	5.02 J	98.5 J	46.6 J	2.40 J	3.01 J	197 J	16.9 J
PCB-084	52663-60-2	ng/g	230	41		22.4	1.84 J	16.7 J	16.5 J	253 J	160 J	8.43 J	9.87 J	751 J	49.2 J
PCB-085/120	PCB-85/120	ng/g	230	41		23.6	2.02 J	10.9 J	11.2 J	149 J	313 J	9.58 J	17.3 J	645 J	39.0 J
PCB-086/097	PCB-86/97	ng/g	230	41		24.9	1.86 J	8.12 J	11.8 J	194 J	301 J	11.1 J	16.9 J	1150 J	38.4 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	41		< 0.0305 U	< 0.0294 U	< 0.0302 U	< 0.0305 U	< 0.0306 U	< 0.0301 U	< 0.0305 U	< 0.0300 U	< 0.0307 U	< 0.0286 U
PCB-088/121	PCB-88/121	ng/g	230	41		< 0.110 U	< 0.106 U	0.547 J	< 0.110 U	5.10 J	3.37 J	< 0.110 U	< 0.109 U	26.9	1.07 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	41		62.7 J	5.09 J	51.4 J	40 J	866 J	792 J	37.7	47.2 J	2670 J	164 J
PCB-091	68194-05-8	ng/g	230	41		17.9 J	1.6 J	43.9 J	19.3 J	531 J	166 J	8.49 J	9.78 J	660 J	122 J
PCB-092	52663-61-3	ng/g	230	41		12.7 J	1.09 J	43.8 J	16.3 J	564 J	151 J	8.04 J	8.47 J	416 J	77.5 J
PCB-093/095	PCB-93/95	ng/g	230	41		63.1 J	4.82 J	39.9 J	56.8 J	558 J	563 J	26.6	31.8	1910 J	153 J
PCB-094	73575-55-0	ng/g	230	41		1 J	< 0.0879 U	5.73 J	1.87 J	71.9 J	9.56 J	0.616 J	0.534 J	42.7 J	14.7 J
PCB-096	73575-54-9	ng/g	230	41		1.13 J	< 0.0415 U	2.11 J	1.53 J	27.6	6.62 J	0.466 J	0.422 J	64.8 J	6.99 J
PCB-098/102	PCB-98/102	ng/g	230	41		5 J	< 0.0768 U	11.5 J	7.56 J	160 J	38.7	2.06 J	2.37 J	257 J	37.9 J
PCB-099	38380-01-7	ng/g	230	41		37.6	3.06 J	29.8	27.5	682 J	582 J	21.9	30.5	1750 J	131 J
PCB-100	39485-83-1	ng/g	230	41		< 0.0486 U	< 0.0468 U	10.8 J	1.35 J	90.2 J	5.29 J	0.707 J	0.427 J	19.7 J	17.9 J
PCB-103	60145-21-3	ng/g	230	41		0.969 J	< 0.0483 U	8.72 J	1.8 J	92.8 J	9.71 J	0.779 J	0.562 J	33.6	17.2 J
PCB-104	56558-16-8	ng/g	230	41		< 0.0464 U	< 0.0447 U	1.11 J	< 0.0464 U	7.38 J	< 0.0457 U	< 0.0464 U	< 0.0456 U	1.06 J	1.50 J
PCB-105/127	PCB-105/127	ng/g	120	41		25	1.85 J	10.5 J	9.74 J	243 J	577 J	13.8 J-	26.5 J-	1910 J	44.4 J
PCB-106/118	PCB-106/118	ng/g	120	41		53.2 J	4.06 J	28.5	31.2	755 J	980 J	34.8 J-	53.1 J	2970 J	139 J
PCB-107/108	PCB-107/108	ng/g	230	41		4.69 J	< 0.0931 U	4.72 J	3.41 J	113 J	82.0 J	3.35 J	4.63 J	264 J	16.7 J
PCB-110	38380-03-9	ng/g	230	41		94.5 JEB	7.06 JEB	93.1 JEB	86 JEB	1190 JEB	969 JEB	49.0 JEB	61.8 JEB	2950 JEB	297 JEB
PCB-111/117	PCB-111/117	ng/g	230	41		29.9	2.09 J	25.2	15.5 J	388 J	358 J	13.3 J	21.2	1340 J	76.2 J
PCB-112	74472-36-9	ng/g	230	41		< 0.0478 U	< 0.0461 U	0.794 J	0.533 J	12.8 J	3.97 J	< 0.0478 U	0.260 J	21.7	2.64 J
PCB-113	68194-10-5	ng/g	230	41		< 0.0502 U	< 0.0483 U	1.11 J	0.925 J	8.55 J	4.18 J	0.265 J	< 0.0493 U	10.7 J	3.62 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0065-B1S1	23D-0065-B1S1	23D-0066-PLS1	23D-0067-PLS1	23D-0069-PLS1	23D-0071-PLS1	23D-0072-B1S1	23D-0073-PLS1	23D-0074-B1S1	23D-0075-PLS1
				Sample Name	23D-0065-B1S1-AS	23D-0065-B1S1-BS	23D-0066-PLS1-AS	23D-0067-PLS1-AS	23D-0069-PLS1-AS	23D-0071-PLS1-AS	23D-0072-B1S1-AS	23D-0073-PLS1-AS	23D-0074-B1S1-AS	23D-0075-PLS1-AS
				Sample Date	8/2/2023	8/2/2023	8/2/2023	8/2/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.2 ft	0 - 0.9 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-114	74472-37-0	ng/g	120	41	< 0.0417 U	< 0.0401 U	1.03 J	0.965 J	22.7 J-	25.9 J-	1.07 J-	1.73 J-	153 J	4.19 J-
PCB-119	56558-17-9	ng/g	230	41	2.45 J	< 0.0531 U	15.8 J	4.44 J	185 J	33.2	2.21 J	2.21 J	92.1 J	26.7
PCB-122	76842-07-4	ng/g	230	41	< 0.0351 U	< 0.0338 U	< 0.0347 U	< 0.0351 U	9.10 J	17.6 J	< 0.0351 U	0.980 J	68.9 J	1.41 J
PCB-123	65510-44-3	ng/g	120	41	2.79 J+	< 0.0313 U	1.51 J+	1.28 J+	29.0 J	32.6 J	1.33 J	2.11 J	107 J	6.16 J
PCB-124	70424-70-3	ng/g	230	41	< 0.0438 U	< 0.0422 U	0.658 J	0.884 J	29.4	39.0	1.39 J	2.36 J	129 J	4.17 J
PCB-125	74472-39-2	ng/g	230	41	< 0.0480 U	< 0.0462 U	< 0.0475 U	< 0.0479 U	9.27 J	7.23 J	< 0.0480 U	0.394 J	23.2	1.35 J
PCB-126	57465-28-8	ng/g	0.0360	41	< 0.0682 U	< 0.0657 U	0.916 J+	< 0.0681 U	12.1 J	7.95 J	< 0.0682 UJ	< 0.0671 UJ	26.4 J	3.20 J
PCB-128	38380-07-3	ng/g	230	41	15.1 J	< 0.0464 U	6.57 J	5.48 J	97.1 J	78.0 J	6.53 J	6.97 J	151 J	28.7
PCB-129	55215-18-4	ng/g	230	41	2.93 J	< 0.0510 U	0.904 J	1.07 J	22.1	18.9 J	1.43 J	1.63 J	47.6 J	5.70 J
PCB-130	52663-66-8	ng/g	230	41	3.92 J	< 0.0401 U	3.33 J	2.24 J	42.3 J	25.5	2.05 J	2.12 J	51.4 J	11.6 J
PCB-131/142	PCB-131/142	ng/g	230	41	< 0.103 U	< 0.0988 U	< 0.101 U	0.324 J	7.21 J	4.76 J	0.383 J	0.441 J	13.9 J	1.84 J
PCB-132/168	PCB-132/168	ng/g	230	41	15.7 J	1.45 J	12.3 J	11 J	156 J	108 J	10.1 J	10.5 J	253 J	50.8 J
PCB-133	35694-04-3	ng/g	230	41	< 0.0373 U	< 0.0359 U	2.15 J	0.713 J	16.5 J	4.74 J	0.516 J	0.437 J	8.01 J	4.53 J
PCB-134	52704-70-8	ng/g	230	41	2.84 J	< 0.0952 U	2.3 J	1.74 J	29.4	16.3 J	1.61 J	1.55 J	36.8	9.10 J
PCB-135/144	PCB-135/144	ng/g	230	41	7.19 J	0.548 J	6.99 J	5.62 J	76.0 J	46.1 J	4.08 J	4.16 J	110 J	25.3
PCB-136	38411-22-2	ng/g	230	41	5.57 J	0.393 J	4.42 J	3.88 J	54.9 J	34.7	3.29 J	3.23 J	87.8 J	18.8
PCB-137	35694-06-5	ng/g	230	41	4.67 J	< 0.0466 U	2.63 J	1.9 J	42.9 J	25.5	2.03 J	2.21 J	57.1 J	10.0 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	55.3 J	3.75 J	38.9	31	569 J	394 J	35.2	37.4	773 J	176 J
PCB-139/149	PCB-139/149	ng/g	230	41	32.4	2.45 J	27.8	23	351 J	217 J	19.4 J	19.4 J	488 J	115 J
PCB-140	59291-64-4	ng/g	230	41	< 0.0706 U	< 0.0680 U	< 0.0698 U	< 0.0705 U	5.20 J	2.10 J	< 0.0706 U	0.174 J	3.55 J	1.53 J
PCB-141	52712-04-6	ng/g	230	41	8.79 J	< 0.0478 U	3.1 J	4.12 J	66.2 J	60.2 J	4.42 J	5.20 J	154 J	18.3 J
PCB-143	68194-15-0	ng/g	230	41	< 0.0637 U	< 0.0613 U	< 0.0630 U	< 0.0636 U	3.08 J	1.82 J	< 0.0637 U	< 0.0626 U	6.15 J	0.817 J
PCB-145	74472-40-5	ng/g	230	41	< 0.0841 U	< 0.0810 U	< 0.0832 U	< 0.0840 U	0.782 J	0.274 J	< 0.0841 U	< 0.0827 U	0.977 J	0.200 J
PCB-146	51908-16-8	ng/g	230	41	5.58 J	< 0.0548 U	6.33 J	4.29 J	78.2 J	33.5	3.43 J	3.54 J	76.3 J	22.2
PCB-147	68194-13-8	ng/g	230	41	1.15 J	< 0.0715 U	7.19 J	1.1 J	61.6 J	8.91 J	1.08 J	0.886 J	17.1 J	14.3 J
PCB-148	74472-41-6	ng/g	230	41	< 0.0778 U	< 0.0749 U	0.656 J	< 0.0776 U	4.44 J	0.379 J	< 0.0777 U	< 0.0764 U	0.597 J	1.00 J
PCB-150	68194-08-1	ng/g	230	41	< 0.0785 U	< 0.0757 U	0.511 J	< 0.0784 U	4.25 J	0.432 J	< 0.0785 U	< 0.0772 U	1.01 J	1.18 J
PCB-151	52663-63-5	ng/g	230	41	7.67 J	0.47 J	9.7 J	6.41 J	95.4 J	45.1 J	4.08 J	3.99 J	118 J	30.5
PCB-152	68194-09-2	ng/g	230	41	< 0.0918 U	< 0.0885 U	0.672 J	< 0.0917 U	5.74 J	0.830 J	< 0.0918 U	< 0.0903 U	2.11 J	1.50 J
PCB-153	35065-27-1	ng/g	230	41	31.6	2.35 J	22.1	21	379 J	231 J	21.7	22.5	515 J	109 J
PCB-154	60145-22-4	ng/g	230	41	< 0.0547 U	< 0.0527 U	2.69 J	0.773 J	23.8	3.98 J	0.444 J	0.369 J	6.46 J	6.63 J
PCB-155	33979-03-2	ng/g	230	41	< 0.0472 U	< 0.0455 U	< 0.0467 U	< 0.0471 U	0.312 J	< 0.0465 U	< 0.0472 U	< 0.0464 U	< 0.0474 U	< 0.0443 U
PCB-156	38380-08-4	ng/g	120	41	3.32 J	< 0.0382 U	2.98 J	2.28 J	70.4 J	49.3 J	2.70 J-	3.49 J-	106 J	16.1 J-
PCB-157	69782-90-7	ng/g	120	41	< 0.0551 U	< 0.0531 U	1 J+	0.582 J+	21.6 J	12.5 J	1.07 J	1.05 J	27.2 J	5.43 J
PCB-158/160	PCB-158/160	ng/g	230	41	5.49 J	< 0.117 U	3.26 J	2.92 J	60.4 J	37.4	3.09 J	3.47 J	94.9 J	15.6 J
PCB-159	39635-35-3	ng/g	230	41	< 0.0762 U	< 0.0734 U	0.547 J	< 0.0761 U	4.95 J	1.69 J	< 0.0762 U	< 0.0749 U	4.66 J	1.46 J
PCB-161	74472-43-8	ng/g	230	41	< 0.0712 U	< 0.0686 U	< 0.0704 U	< 0.0711 U	< 0.0714 U	< 0.0701 U	< 0.0712 U	< 0.0700 U	< 0.0715 U	< 0.0668 U
PCB-162	39635-34-2	ng/g	230	41	< 0.0561 U	< 0.0541 U	< 0.0555 U	< 0.0561 U	4.94 J	2.05 J	< 0.0561 U	< 0.0552 U	5.31 J	1.29 J
PCB-165	74472-46-1	ng/g	230	41	< 0.0770 U	< 0.0741 U	< 0.0761 U	< 0.0769 U	1.86 J	< 0.0758 U	< 0.0770 U	< 0.0757 U	< 0.0773 U	0.604 J
PCB-166	41411-63-6	ng/g	230	41	< 0.0662 U	< 0.0638 U	< 0.0655 U	< 0.0662 U	3.77 J	2.36 J	< 0.0662 U	< 0.0651 U	4.90 J	0.932 J
PCB-167	52663-72-6	ng/g	120	41	2.73 J	< 0.0491 U	1.27 J	0.938 J	29.9 J-	16.3 J-	1.45 J-	1.47 J-	36.0 J-	7.17 J-
PCB-169	32774-16-6	ng/g	0.120	41	< 0.0561 U	< 0.0541 U	< 0.0555 U	< 0.0561 U	< 0.0563 R	< 0.0553 R	< 0.0561 R	< 0.0552 R	< 0.0564 R	< 0.0526 R
PCB-170/190	PCB-170/190	ng/g	230	41	8.66 J	< 0.0891 U	12.5 J	7.21 J	150 J	66.6 J	4.90 J	5.85 J	159 J	42.9 J
PCB-171	52663-71-5	ng/g	230	41	2.12 J	< 0.0707 U	3.38 J	1.9 J	36.9	14.1 J	1.24 J	1.49 J	37.9	11.1 J
PCB-172/192	PCB-172/192	ng/g	230	41	1.04 J	< 0.117 U	1.74 J	0.901 J	20.6	8.01 J	0.594 J	0.746 J	20.6	5.55 J
PCB-173	68194-16-1	ng/g	230	41	< 0.0821 U	< 0.0791 U	< 0.0812 U	< 0.0820 U	2.80 J	1.42 J	< 0.0821 U	< 0.0807 U	3.23 J	0.726 J
PCB-174	38411-25-5	ng/g	230	41	7.59 J	0.515 J	9.16 J	6.68 J	107 J	53.5 J	3.87 J	4.75 J	139 J	32.7
PCB-175	40186-70-7	ng/g	230	41	< 0.0633 U	< 0.0610 U	0.569 J	0.236 J	5.44 J	1.27 J	0.139 J	0.168 J	5.02 J	1.58 J
PCB-176	52663-65-7	ng/g	230	41	0.809 J	< 0.0569 U	1.3 J	0.839 J	12.7 J	4.25 J	0.427 J	0.474 J	14.8 J	4.03 J
PCB-177	52663-70-4	ng/g	230	41	3.92 J	< 0.0711 U	7.01 J	4.07 J	71.0 J	30.8	2.34 J	2.69 J	72.6 J	21.1
PCB-178	52663-67-9	ng/g	230	41	1.38 J	< 0.0892 U	3.31 J	1.58 J	28.7	10.7 J	0.815 J	0.870 J	25.8	8.81 J
PCB-179	52663-64-6	ng/g	230	41	2.56 J	0.186 J	4.63 J	2.72 J	39.6	16.6 J	1.39 J	1.55 J	47.1 J	13.2 J
PCB-180	35065-29-3	ng/g	230	41	15.2 J	1.23 J	22.9	14.8 J	288 J	102 J	8.11 J	9.66 J	299 J	75.8 J
PCB-181	74472-47-2	ng/g	230	41	< 0.0561 U	< 0.0541 U	< 0.0555 U	< 0.0561 U	1.59 J	< 0.0553 U	4.88 J	< 0.0552 U	< 0.0564 U	< 0.0526 U
PCB-182/187	PCB-182/187	ng/g	230	41	7.83 J	0.597 J	15.8 J	9.09 J	151 J	54.7 J	4.38 J	4.94 J	145 J	45.0 J
PCB-183	52663-69-1	ng/g	230	41	3.75 J	0.286 J	6.08 J	3.66 J	67.1 J	21.8	2.00 J	2.31 J	68.0 J	18.8
PCB-184	74472-48-3	ng/g	230	41	< 0.0532 U	< 0.0512 U	< 0.0526 U	< 0.0531 U	0.204 J	< 0.0524 U	< 0.0532 U	< 0.0523 U	< 0.0534 U	< 0.0499 U
PCB-185	52712-05-7	ng/g	230	41	0.926 J	< 0.0709 U	1.03 J	0.841 J	13.2 J	6.58 J	0.423 J	0.533 J	16.9 J	3.65 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0065-B1S1	23D-0065-B1S1	23D-0066-PLS1	23D-0067-PLS1	23D-0069-PLS1	23D-0071-PLS1	23D-0072-B1S1	23D-0073-PLS1	23D-0074-B1S1	23D-0075-PLS1
					Sample Name	23D-0065-B1S1-AS	23D-0065-B1S1-BS	23D-0066-PLS1-AS	23D-0067-PLS1-AS	23D-0069-PLS1-AS	23D-0071-PLS1-AS	23D-0072-B1S1-AS	23D-0073-PLS1-AS	23D-0074-B1S1-AS	23D-0075-PLS1-AS
					Sample Date	8/2/2023	8/2/2023	8/2/2023	8/2/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.2 ft	0 - 0.9 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-186	74472-49-4	ng/g	230	41		< 0.0664 U	< 0.0640 U	< 0.0657 U	< 0.0664 U	< 0.0666 U	< 0.0655 U	< 0.0664 U	< 0.0653 U	< 0.0667 U	< 0.0623 U
PCB-188	74487-85-7	ng/g	230	41		< 0.0609 U	< 0.0587 U	0.122 J	< 0.0608 U	0.816 J	< 0.0600 U	< 0.0609 U	< 0.0599 U	< 0.0611 U	0.162 J
PCB-189	39635-31-9	ng/g	130	41		< 0.0619 U	< 0.0596 U	0.665 J	< 0.0618 U	6.88 J-	2.95 J-	0.202 J-	0.284 J-	6.45 J-	2.14 J-
PCB-191	74472-50-7	ng/g	230	41		< 0.0559 U	< 0.0539 U	0.409 J	< 0.0559 U	5.27 J	1.82 J	0.168 J	0.185 J	5.38 J	1.42 J
PCB-193	69782-91-8	ng/g	230	41		< 0.0706 U	< 0.0680 U	1.35 J	0.786 J	14.0 J	5.94 J	0.429 J	0.508 J	13.9 J	3.94 J
PCB-194	35694-08-7	ng/g	230	41		5.03 J	< 0.0860 U	10.8 J	5.09 J	111 J	29.0 J	2.51 J	2.50 J	86.6 J	27.3 J
PCB-195	52663-78-2	ng/g	230	41		1.58 J	< 0.152 U	3.62 J	1.94 J	38.8 J	11.5 J	1.04 J	1.00 J	29.0 J	9.44 J
PCB-196/203	PCB-196/203	ng/g	230	41		5.97 J	< 0.144 U	10.1 J	5.35 J	138 J	28.8 J	2.45 J	2.73 J	91.9 J	28.3 J
PCB-197	33091-17-7	ng/g	230	41		< 0.0668 U	< 0.0644 U	0.31 J	< 0.0668 U	3.60 J	0.627 J	< 0.0668 U	< 0.0657 U	2.55 J	0.835 J
PCB-198	68194-17-2	ng/g	230	41		< 0.108 U	< 0.105 U	0.517 J	< 0.108 U	6.04 J	1.74 J	< 0.108 UJ	< 0.107 UJ	4.05 J	1.28 J
PCB-199	52663-75-9	ng/g	230	41		5.89 J	< 0.101 U	8.47 J	4.92 J	109 J	26.5 J	2.21 J	2.53 J	80.3 J	24.2 J
PCB-200	52663-73-7	ng/g	230	41		< 0.0532 U	< 0.0512 U	1.02 J	0.503 J	11.7 J	3.23 J	0.261 J	0.236 J	8.69 J	2.76 J
PCB-201	40186-71-8	ng/g	230	41		0.596 J	< 0.0405 U	1.12 J	0.497 J	11.4 J	1.95 J	0.247 J	0.231 J	8.63 J	2.86 J
PCB-202	2136-99-4	ng/g	230	41		1.25 J	< 0.0692 U	1.61 J	0.756 J	16.3 J	4.15 J	0.366 J	0.404 J	13.1 J	4.40 J
PCB-204	74472-52-9	ng/g	230	41		< 0.0879 U	< 0.0847 U	< 0.0869 U	< 0.0878 U	< 0.0881 U	< 0.0866 U	< 0.0879 U	< 0.0864 U	< 0.0882 U	< 0.0824 U
PCB-205	74472-53-0	ng/g	230	41		< 0.0623 U	< 0.0600 U	< 0.0616 U	< 0.0622 U	5.08 J	1.96 J	< 0.0623 U	< 0.0612 U	3.66 J	1.61 J
PCB-206	40186-72-9	ng/g	230	41		9.07 J	0.563 J	5.1 J	2.17 J	47.7 J	10.8 J	1.48 J	1.40 J	34.4	14.5 J
PCB-207	52663-79-3	ng/g	230	41		0.602 J	< 0.0761 U	0.445 J	< 0.0788 U	6.82 J	1.28 J	< 0.0789 U	< 0.0776 U	3.66 J	1.56 J
PCB-208	52663-77-1	ng/g	230	41		3.68 J	< 0.0761 U	1.46 J	0.588 J	13.8 J	2.38 J	0.506 J	0.442 J	9.09 J	4.19 J
PCB-209	2051-24-3	ng/g	230	41		9.64 J	0.603 J	2.56 J	0.558 J	9.63 J	2.52 J	1.24 J	1.10 J	5.88 J	6.37 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0		9.64	0.603	2.56	0.558	9.63	2.52	1.24	1.10	5.88	6.37
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0		55.8	2.81	92.0	55.3	1020	403	36.3	37.0	1080	293
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0		212	11.4	170	132	2390	1480	130	136	3260	713
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0		20.3	< 0.152 U	37.6	19.1	451	109	9.08	9.63	328	103
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14		1800	226	11800	2440	138000	22800	977	1200	127000	21600
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0		503	37.2	480	378	7430	6400	263	363	21200	1530
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0		169	72.0	1770	291	8440	352	35.3	14.6	740	2930
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0		27.5	11.1	239	29.4	771	4.85	3.21	1.07	4.46	301
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0		13.4	0.563	7.01	2.76	68.3	14.5	1.99	1.84	47.2	20.3
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0		595	54.4	3760	850	58500	11700	389	552	72100	7270
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0		196	36.4	5190	685	58800	2310	108	86.1	28200	8450
TAL Metals and Mercury															
Aluminum	7429-90-5	mg/kg	7700			8200	7200	4500	3400	7900 J	5600 J	4200 J	6100 J	5900 J	6100 J
Calcium	7440-70-2	mg/kg				1100	1400	1500	1300	2400	7900	2200	2300	2600	3000
Iron	7439-89-6	mg/kg	5500			24000 J	28000 J	11000 J	7700 J	18000 J	10000 J	7700 J	16000 J	10000 J	15000 J
Magnesium	7439-95-4	mg/kg				1600	2700	2400	1800	2500 J	2300 J	1600 J	1800 J	2700 J	1800 J
Potassium	7440-09-7	mg/kg				510 J	390 J	340 J	230 J	590 J	650	500	500	500	500 J
Sodium	7440-23-5	mg/kg				960	470 J	500 J	50 J	250 JEB	58 JEB	53 JEB	300 JEB	100 JEB	180 JEB
Antimony	7440-36-0	mg/kg	3.1	0.27		11 J	2.2 J	< 1.1 UJ	< 1.2 UJ	1.9	< 1.2 U	< 0.97 U	< 1.1 U	< 0.91 U	1.3 J+
Arsenic	7440-38-2	mg/kg	0.68	18		27 J	7.5 J	1.7 J	2.1 J	9.1	2.9	2.9	3.1	2.1	5.1
Barium	7440-39-3	mg/kg	1500	110		51 J	17 J	18 J	25 J	55 J	57 J	33 J	46 J	32 J	49 J
Beryllium	7440-41-7	mg/kg	16	2.5		< 0.82 U	< 0.61 U	< 0.56 U	< 0.62 U	< 0.58 U	< 0.59 U	< 0.48 U	< 0.53 U	< 0.45 U	< 0.66 U
Cadmium	7440-43-9	mg/kg	0.71	0.36		0.20 J	0.22 J	0.21 J	0.28 J	0.87	0.30 J	0.37 J	0.43 J	0.16 J	0.97
Chromium, Total	7440-47-3	mg/kg	0.3	23		430 JEB	78 JEB	10 JEB	17 JEB	58	30	28	27	27	43
Cobalt	7440-48-4	mg/kg	2.3	13		2.8 J	4.2 J	2.4 J	3.9 J	6.4 J	3.6 J	2.3 J	3.6 J	2.8 J	6.4 J
Copper	7440-50-8	mg/kg	310	28		250 EB	84 EB	19 EB	22 EB	110	36	28	29	870	55
Lead	7439-92-1	mg/kg	200	11		380 EB	170 EB	36 EB	41 EB	240	110	64	66	94	100
Manganese	7439-96-5	mg/kg	180	220		57 EB	82 EB	66 EB	200 EB	250	230	84	180	99	420
Nickel	7440-02-0	mg/kg	140	38		9.4 J	10 J	4.3 J	6.0 J	12 J	7.7 J	5.8 J	13 J	6.1 J	13 J
Selenium	7782-49-2	mg/kg	39	0.52		1.8 J	1.2 J	< 2.8 U	< 3.1 U	1.1 J	0.96 J	< 2.4 U	0.67 J	0.98 J	0.84 J
Silver	7440-22-4	mg/kg	39	4.2		1.0	0.20 J	0.056 J	0.089 J	0.57 J	0.25 J	0.15 J	0.14 J	0.25 J	0.52 J
Thallium	7440-28-0	mg/kg	0.078	0.05		0.13 J	0.046 J	< 0.56 U	0.027 J	0.058 J	0.044 J	0.034 J	0.037 J	0.026 J	0.049 J
Vanadium	7440-62-2	mg/kg	39	7.8		20	14	11	10	32	17	10	16	12	19
Zinc	7440-66-6	mg/kg	2300	46		130 EB	150 EB	59 EB	78 EB	1100 EB	96 EB	68 EB	160 EB	100 EB	160 EB
Mercury	7439-97-6	mg/kg	2.3	0.013		1.9 J	0.63 J	0.11 J	0.16 J	0.86	0.37	0.25	0.19	0.28	0.49

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0065-B1S1	23D-0065-B1S1	23D-0066-PLS1	23D-0067-PLS1	23D-0069-PLS1	23D-0071-PLS1	23D-0072-B1S1	23D-0073-PLS1	23D-0074-B1S1	23D-0075-PLS1
					Sample Name	23D-0065-B1S1-AS	23D-0065-B1S1-BS	23D-0066-PLS1-AS	23D-0067-PLS1-AS	23D-0069-PLS1-AS	23D-0071-PLS1-AS	23D-0072-B1S1-AS	23D-0073-PLS1-AS	23D-0074-B1S1-AS	23D-0075-PLS1-AS
					Sample Date	8/2/2023	8/2/2023	8/2/2023	8/2/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.2 ft	0 - 0.9 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
2-HEXANONE	591-78-6	ug/kg	20000	360	< 17 U	< 13 R	< 13 U	< 28 U	< 16 U	< 19 U	< 14 U	< 15 U	< 11 U	< 19 U
ACETONE	67-64-1	ug/kg	7000000	1200	< 17 U	9.2 JEB	< 13 U	25 JEB	< 16 U	< 19 U	< 14 U	20 EB	< 11 U	14 JEB
Benzene	71-43-2	ug/kg	1200	120	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
BROMOFORM	75-25-2	ug/kg	19000	70	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
BROMOMETHANE	74-83-9	ug/kg	680	2	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Chloroform	67-66-3	ug/kg	320	50	< 8.6 U	< 6.6 U	< 6.5 U	30	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 8.6 UJ	< 6.6 UJ	< 6.5 UJ	< 14 UJ	< 8.2 UJ	< 9.4 UJ	< 7.0 UJ	< 7.4 UJ	< 5.6 UJ	< 9.7 UJ
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Cyclohexane	110-82-7	ug/kg	650000		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Ethylbenzene	100-41-4	ug/kg	5800	270	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 8.6 U	8.5	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	11 J	< 13 U	< 13 U	< 28 U	< 16 U	< 19 U	< 14 U	< 15 U	< 11 U	< 19 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 17 U	< 13 R	< 13 U	< 28 U	< 16 U	< 19 U	< 14 U	< 15 U	< 11 U	< 19 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Methylene Chloride	75-09-2	ug/kg	35000	210	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Styrene	100-42-5	ug/kg	600000	1200	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Toluene	108-88-3	ug/kg	490000	150	< 8.6 U	< 6.6 U	4.0 J	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U
Vinyl Chloride	75-01-4	ug/kg	59	30	< 8.6 U	< 6.6 U	< 6.5 U	< 14 U	< 8.2 U	< 9.4 U	< 7.0 U	< 7.4 U	< 5.6 U	< 9.7 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
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				Location	23D-0065-B1S1	23D-0065-B1S1	23D-0066-PLS1	23D-0067-PLS1	23D-0069-PLS1	23D-0071-PLS1	23D-0072-B1S1	23D-0073-PLS1	23D-0074-B1S1	23D-0075-PLS1
				Sample Name	23D-0065-B1S1-AS	23D-0065-B1S1-BS	23D-0066-PLS1-AS	23D-0067-PLS1-AS	23D-0069-PLS1-AS	23D-0071-PLS1-AS	23D-0072-B1S1-AS	23D-0073-PLS1-AS	23D-0074-B1S1-AS	23D-0075-PLS1-AS
				Sample Date	8/2/2023	8/2/2023	8/2/2023	8/2/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.2 ft	0 - 0.9 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 110 U	< 100 U	< 95 U	< 150 U	< 110 U	< 110 U	< 87 U	< 98 U	< 81 U	< 130 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 U	< 430 U	< 480 U	< 400 U	< 640 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 U	< 430 U	< 480 U	< 400 U	< 640 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 UJ	< 430 U	< 480 U	< 400 UJ	< 640 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 U	< 430 U	< 480 U	< 400 U	< 640 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 540 U	< 490 UJ	< 470 U	< 750 U	< 560 U	< 520 UJ	< 430 U	< 480 U	< 400 U	< 640 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 UJ	< 220 U	< 250 U	< 210 U	< 330 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 U	< 430 U	< 480 U	< 400 U	< 640 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 U	< 430 U	< 480 U	< 400 U	< 640 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 U	< 430 U	< 480 U	< 400 U	< 640 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 U	< 430 U	< 480 U	< 400 U	< 640 U
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 U	< 430 U	< 480 U	< 400 U	< 640 U
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 UJ	< 430 U	< 480 U	< 400 U	< 640 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 U	< 430 U	< 480 U	< 400 U	< 640 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 UJ	< 220 U	< 250 U	< 210 UJ	< 330 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 U	< 430 U	< 480 U	< 400 U	< 640 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 U	< 430 U	< 480 U	< 400 U	< 640 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 280 U	< 250 U	< 240 U	< 380 U	410	< 270 UJ	< 220 U	360	< 210 UJ	< 330 U
Caprolactam	105-60-2	ug/kg	3100000		< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 U	< 430 U	< 480 U	< 400 U	< 640 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 UJ	< 430 U	< 480 U	< 400 U	< 640 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 UJ	< 220 U	< 250 U	< 210 U	< 330 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 UJ	< 430 UJ	< 480 U	< 400 UJ	< 640 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	-	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 UJ	< 220 U	< 250 U	< 210 U	< 330 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 540 U	< 490 U	< 470 UJ	< 750 UJ	< 560 UJ	< 520 UJ	< 430 UJ	< 480 UJ	< 400 UJ	< 640 UJ
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U

Table 15
Floodplain Soil Analytical Results
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					Location	23D-0065-B1S1	23D-0065-B1S1	23D-0066-PLS1	23D-0067-PLS1	23D-0069-PLS1	23D-0071-PLS1	23D-0072-B1S1	23D-0073-PLS1	23D-0074-B1S1	23D-0075-PLS1
					Sample Name	23D-0065-B1S1-AS	23D-0065-B1S1-BS	23D-0066-PLS1-AS	23D-0067-PLS1-AS	23D-0069-PLS1-AS	23D-0071-PLS1-AS	23D-0072-B1S1-AS	23D-0073-PLS1-AS	23D-0074-B1S1-AS	23D-0075-PLS1-AS
					Sample Date	8/2/2023	8/2/2023	8/2/2023	8/2/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023	8/3/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.2 ft	0 - 0.9 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.4 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
Naphthalene	91-20-3	ug/kg	2000	29000	-	-	-	-	-	-	-	-	-	-	
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U	
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 U	< 220 U	< 250 U	< 210 U	< 330 U	
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 280 U	< 250 U	< 240 U	< 380 U	< 290 U	< 270 UJ	< 220 U	< 250 U	< 210 U	< 330 U	
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	-	-	-	-	-	-	-	-	-	
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-	
PHENOL	108-95-2	ug/kg	1900000	790	< 540 U	< 490 U	< 470 U	< 750 U	< 560 U	< 520 U	< 430 U	< 480 U	< 400 U	< 640 U	
PYRENE	129-00-0	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-	
1-Methylnaphthalene	90-12-0	ug/kg	18	140	13	4.5 J	6.7	5.5 J	5.5 J	3.9 J	4.9	< 4.8 U	< 4.0 U	5.4 J	
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	21	7.6	8.9	7.0 J	9.9	5.1 J	6.4	2.9 J	2.3 J	7.7	
Acenaphthene	83-32-9	ug/kg	360000	29000	32 J	8.3 J	19 J	22 J	15 J	11 J	17 J	6.5 J	6.8 J	17 J	
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	310 J+	30	51	18	43	70	12	7.7	5.8	21	
ANTHRACENE	120-12-7	ug/kg	1800000	29000	1100	200 J+	170 J+	80	32 J-	110	82	37	31	78	
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	3300	570 J+	360 J+	540 J+	270	450	220	120	89	370	
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	2700	440 J+	340 J+	520 J+	280	370	200	130	85	380	
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	2600	450 J+	330 J+	600 J+	380	580	290	180	100	530	
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	1100	180 J+	160 J+	270 J+	180	170	110	79	43	220	
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	1300	210 J+	150 J+	260 J+	140	210	110	67	42	200	
CHRYSENE	218-01-9	ug/kg	110000	1100	2500	470 J+	290 J+	550 J+	290	420	220	140	89	410	
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	270 J+	29	41	40	64 J-	63	29	23	12	46	
FLUORANTHENE	206-44-0	ug/kg	240000	1100	4800	900	680 J+	800	540	730	500	300	190	780	
FLUORENE	86-73-7	ug/kg	240000	29000	84	21	45	30	26	20	20	8.4	8.3	23	
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	1500	250 J+	200 J+	350 J+	200	230	140	95	56	280	
Naphthalene	91-20-3	ug/kg	2000	29000	21	7.0	11	10	18	5.9	6.2	3.4 J	3.4 J	10	
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	12	< 9.9 U	< 9.5 U	< 15 U	< 11 UJ	< 11 UJ	< 8.7 UJ	< 9.8 UJ	< 8.1 UJ	< 13 UJ	
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	2500	500 J+	430 J+	560 J+	79 J-	160	220	96	96	300	
PYRENE	129-00-0	ug/kg	180000	1100	4300	760 J+	530 J+	750 J+	340	510	280	170	120	500	
Asbestos															
ASBESTOS	1332-21-4	%			< 0.25 U	0.5	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	

Table 15
Floodplain Soil Analytical Results
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					Location	23D-0076-PLS1	23D-0077-PLS1	23D-0078-PLS1	23D-0079-PLS1	23D-0080-PLS1	23D-0080-PLS1	23D-0081-B2S1	23D-0082-PLS1	23D-0082-PLS1	23D-0083-PLS1
					Sample Name	23D-0076-PLS1-AS	23D-0077-PLS1-AS	23D-0078-PLS1-AS	23D-0079-PLS1-AS	23D-0080-PLS1-AS	23D-0080-PLS1-AT	23D-0081-B2S1-AS	23D-0082-PLS1-AS	23D-0082-PLS1-BS	23D-0083-PLS1-AS
					Sample Date	8/3/2023	8/3/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/7/2023
					Sample Type	N	N	N	N	N	FD	N	N	N	N
					Depth Interval	0 - 0.6 ft	0 - 0.4 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.8 ft	0 - 0.8 ft	0 - 0.7 ft	0 - 1 ft	2.2 - 3.2 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	338	2040	189	650	295	221	341	51.9	7.69 JN	47.1 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	6.85	48.6	3.08 JN	13.5	5.09	5.18	4.08 JN	1.13 JN	< 0.335 U	1.2 J
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	4.22 J	28.6	2.7 J	7.61	4.27 J	2.97 J	3.87 J	0.99 J	< 0.563 U	0.771 JN
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	15 J	128 J	9.76 J	24.7 J	12.7 J	10.3 J	11.2 J	3.14 J	0.653 JN	3.17 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	20.7	112	10.5	33.8	17.3	14.3	16.6	3.36 J	< 0.537 U	3.18 J
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	7.54	81.9	4.91	12.4 JN	6.52	5.33	4.88	1.48 J	0.492 JN	1.87 J
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	9.87	64.4	5.17	18	9.65	7.45	9.18	1.92 J	< 0.55 U	1.83 J
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 0.81 U	< 2.71 U	< 0.648 U	< 0.909 U	< 0.608 U	< 0.61 U	< 0.515 U	< 0.471 U	< 0.365 U	< 0.224 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	1.58 J	14 J	1.12 JN	3.12 J	1.54 J	1.35 JN	1.93 JN	0.529 J	< 0.585 UJ	< 0.373 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	3.52 J	18.8 J	2.02 J	3.73 J	3.74 JN	2.45 J	2.64 J	2.49 J	< 0.687 UJ	2.67 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	277	1730	123	382	175	146	175	28.9	4.38 JN	26.2
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	9.41	79.3	4.52 J	13.5	8.52	6.36	5.23	0.897 JN	0.488 JN	1.42 J
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	18.8 J	53.9 J	8.76 J	13.5 J	18.1 J	13.4 J	9.23 J	2.89 JN	< 0.649 U	2.78 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	< 1.02 UJ	< 1.15 UJ	< 0.71 U	< 0.743 U	< 0.684 U	< 0.669 U	< 0.553 U	< 0.404 U	< 0.546 U	< 0.437 UJ
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	18.7 J	19.3 JN	3.5	5.94	5.47	4.07 JN	6.45	6.08	2.23 JN	9.18
OCDD	3268-87-9	pg/g	16000	10500	2240 EB	14200 EB	1370 EB	4280 EB	1880 EB	1400 EB	2190 EB	341 EB	60 EB	329
OCDF	39001-02-0	pg/g	16000	10500	214	1460	112	468	160	132	200	27.3 JN	6.11 J	30.0 J
Total HpCDD (a)	RA_Total_HpCDD	pg/g			338	2040	189	650	295	221	341	51.9	7.69	47.1
Total HpCDF (a)	RA_Total_HpCDF	pg/g			284	1780	126	396	180	151	179	30.0	4.38	27.4
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		34.8	205	18.4	59.4	31.2	24.7	29.7	6.27	< 0.563 U	5.78
Total HxCDF (a)	RA_Total_HxCDF	pg/g			32.0	289	19.2	50.6	27.7	22.0	21.3	5.52	1.63	6.46
Total PeCDD (a)	RA_Total_PeCDD	pg/g			1.58	14	1.12	3.12	1.54	1.35	1.93	0.529	< 0.585 U	< 0.373 U
Total PeCDF (a)	RA_Total_PeCDF	pg/g			22.3	72.7	10.8	17.2	21.8	15.9	11.9	5.38	< 0.687 U	5.45
Total TCDD (a)	RA_Total_TCDD	pg/g			< 1.02 U	< 1.15 U	< 0.71 U	< 0.743 U	< 0.684 U	< 0.669 U	< 0.553 U	< 0.404 U	< 0.546 U	< 0.437 U
Total TCDF (a)	RA_Total_TCDF	pg/g			18.7	19.3	3.5	5.94	5.47	4.07	6.45	6.08	2.23	9.18
PCB Congeners															
PCB-001	2051-60-7	ng/g	230	41	4.62 J	6.50 J	1.36 J	2.10 J	1.34 J	0.904 J	0.569 J	< 0.0346 U	< 0.0376 U	0.316 J
PCB-002	2051-61-8	ng/g	230	41	< 0.0535 U	< 0.0540 U	< 0.0528 U	< 0.0532 U	< 0.0523 U	< 0.0529 U	< 0.0519 U	< 0.0499 U	< 0.0542 U	< 0.0533 U
PCB-003	2051-62-9	ng/g	230	41	1.66 J	3.01 J	0.689 J	0.760 J	0.488 J	0.358 J	0.252 J	< 0.0486 U	< 0.0528 U	< 0.0519 U
PCB-004/010	PCB-4/10	ng/g	230	41	44.0 J	25.4	12.8 J	11.8 J	23.6	14.1 J	8.00 J	0.868 J	< 0.0944 U	1.50 J
PCB-005/008	PCB-5/8	ng/g	230	41	37.1	28.6	16.1 J	14.1 J	17.0 J	11.6 J	5.77 J	0.680 J	< 0.0902 U	1.51 J
PCB-006	25569-80-6	ng/g	230	41	13.5 J	9.14 J	7.38 J	5.40 J	5.13 J	3.46 J	3.09 J	0.197 J	< 0.0526 U	0.691 J
PCB-007/009	PCB-7/9	ng/g	230	41	2.46 J	1.78 J	1.15 J	0.984 J	1.43 J	0.997 J	0.608 J	< 0.0839 U	< 0.0912 U	< 0.0896 U
PCB-011	2050-67-1	ng/g	230	41	3.52 JEB	2.46 JEB	2.28 JEB	1.13 JEB	1.77 JEB	1.19 JEB	0.978 JEB	< 0.0462 U	< 0.0502 U	< 0.0493 U
PCB-012/013	PCB-12/13	ng/g	230	41	7.82 J	7.06 J	8.22 J	3.25 J	4.72 J	3.25 J	2.89 J	< 0.0832 U	< 0.0904 U	0.560 J
PCB-014	34883-41-5	ng/g	230	41	< 0.0497 U	< 0.0502 U	< 0.0491 U	< 0.0494 U	< 0.0486 U	< 0.0492 U	< 0.0483 U	< 0.0464 U	< 0.0504 U	< 0.0495 U
PCB-015	2050-68-2	ng/g	230	41	68.3 J	63.9 J	79.8 J	28.6 J	52.3 J	34.7 J	18.7 J	2.99 J	0.604 J	3.42 J
PCB-016/032	PCB-16/32	ng/g	230	41	245 JEB	76.0 JEB	65.8 JEB	48.5 JEB	203 JEB	140 JEB	54.0 JEB	3.05 JEB	0.443 JEB	2.34 JEB
PCB-017	37680-66-3	ng/g	230	41	125 JEB	32.5 EB	25.4 EB	26.1 EB	92.4 JEB	62.1 JEB	16.8 JEB	1.88 JEB	0.552 JEB	1.06 J
PCB-018	37680-65-2	ng/g	230	41	145 JEB	29.9 EB	30.3 EB	29.8 EB	105 JEB	71.8 JEB	25.9 EB	3.20 JEB	0.413 JEB	1.73 JEB
PCB-019	38444-73-4	ng/g	230	41	61.0 J	22.5	9.93 J	9.99 J	44.6 J	30.1	16.2 J	0.581 J	< 0.0454 U	0.452 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	37.4 EB	10.7 JEB	12.3 JEB	8.72 JEB	19.4 EB	13.0 JEB	9.82 JEB	1.42 JEB	< 0.140 U	< 0.138 U
PCB-022	38444-85-8	ng/g	230	41	22.8 EB	12.5 JEB	18.1 JEB	7.62 JEB	12.0 JEB	6.89 JEB	8.90 JEB	2.35 JEB	0.330 JEB	1.49 J
PCB-023/034	PCB-23/34	ng/g	230	41	2.44 J	1.09 J	1.03 J	0.635 J	1.73 J	1.20 J	< 0.0872 U	< 0.0837 U	< 0.0910 U	< 0.0894 U
PCB-024/027	PCB-24/27	ng/g	230	41	48.6 J	20.8	11.9 J	10.2 J	44.7 J	30.4	13.0 J	0.577 J	< 0.0884 U	0.394 J
PCB-025	55712-37-3	ng/g	230	41	91.3 J	30.8	37.5	21.8	48.7 J	32.8	17.6 J	0.966 J	< 0.0512 U	0.997 J
PCB-026	38444-81-4	ng/g	230	41	189 J	52.6 J	78.9 J	46.5 J	138 J	93.1 J	38.8 J	1.97 J	< 0.0436 U	1.66 J
PCB-028	7012-37-5	ng/g	230	41	453 JEB	129 JEB	242 JEB	109 JEB	394 JEB	264 JEB	122 JEB	14.8 JEB	2.26 JEB	6.58 JEB
PCB-029	15862-07-4	ng/g	230	41	< 0.0519 U	< 0.0524 U	< 0.0513 U	< 0.0516 U	< 0.0507 U	< 0.0513 U	< 0.0504 U	< 0.0484 U	< 0.0526 U	< 0.0517 U
PCB-030	35693-92-6	ng/g	230	41	< 0.0475 U	< 0.0480 U	< 0.0470 U	< 0.0473 U	< 0.0465 U	< 0.0470 U	< 0.0462 U	< 0.0444 U	< 0.0482 U	< 0.0474 U
PCB-031	16606-02-3	ng/g	230	41	281 JEB	85.3 JEB	123 JEB	75.5 JEB	218 JEB	146 JEB	52.8 JEB	8.11 JEB	1.13 JEB	3.73 JEB
PCB-035	37680-69-6	ng/g	230	41	2.64 J+	0.832 J+	1.47 J+	< 0.0561 U	1.61 J+	0.765 J+	0.535 J+	< 0.0526 U	< 0.0572 U	< 0.0562 U
PCB-036	38444-87-0	ng/g	230	41	3.49 J	1.59 J	1.11 J	1.02 J	2.61 J	1.84 J	0.988 J	< 0.0449 U	< 0.0488 U	< 0.0479 U
PCB-037	38444-90-5	ng/g	230	41	59.6 J	26.2	53.4 J	16.4 J	41.3 J	27.8	21.8	7.47 J	1.15 J	3.64 J
PCB-038	53555-66-1	ng/g	230	41	8.12 J	4.07 J	3.90 J	2.77 J	7.91 J	5.39 J	3.18 J	0.284 J	< 0.0404 U	< 0.0397 U
PCB-039	38444-88-1	ng/g	230	41	0.590 J	< 0.0247 U	0.745 J	< 0.0243 U	0.370 J	0.322 J	< 0.0238 U	< 0.0228 U	< 0.0248 U	< 0.0244 U
PCB-040	38444-93-8	ng/g	230	41	52.5 JEB	12.9 JEB	16.4 JEB	10.6 JEB	40.5 JEB	27.9 EB	13.8 JEB	1.26 JEB	< 0.0414 U	1.07 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0076-PLS1	23D-0077-PLS1	23D-0078-PLS1	23D-0079-PLS1	23D-0080-PLS1	23D-0080-PLS1	23D-0081-B2S1	23D-0082-PLS1	23D-0082-PLS1	23D-0083-PLS1
					Sample Name	23D-0076-PLS1-AS	23D-0077-PLS1-AS	23D-0078-PLS1-AS	23D-0079-PLS1-AS	23D-0080-PLS1-AS	23D-0080-PLS1-AT	23D-0081-B2S1-AS	23D-0082-PLS1-AS	23D-0082-PLS1-BS	23D-0083-PLS1-AS
					Sample Date	8/3/2023	8/3/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/7/2023
					Sample Type	N	N	N	N	N	FD	N	N	N	N
					Depth Interval	0 - 0.6 ft	0 - 0.4 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.8 ft	0 - 0.8 ft	0 - 0.7 ft	0 - 1 ft	2.2 - 3.2 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-041/064	PCB-41/64	ng/g	230	41		182 J	57.6 J	84.4 J	51.6 J	156 J	107 J	50.8 J	8.36 J	1.15 J	4.05 J
PCB-042	36559-22-5	ng/g	230	41		132 J	50.0 J	59.6 J	35.0	102 J	71.2 J	44.2 J	4.18 J	0.624 J	2.98 J
PCB-043/049	PCB-43/49	ng/g	230	41		465 JEB	213 JEB	227 JEB	148 JEB	383 JEB	271 JEB	187 JEB	17.3 JEB	2.65 JEB	11.1 J
PCB-044	41464-39-5	ng/g	230	41		368 JEB	109 JEB	133 JEB	91.1 JEB	278 JEB	194 JEB	121 JEB	10.2 JEB	1.55 JEB	7.87 JEB
PCB-045	70362-45-7	ng/g	230	41		61.9 J	20.2	19.3 J	16.4 J	48.9 J	34.4	19.0 J	1.09 J	0.154 J	1.31 J
PCB-046	41464-47-5	ng/g	230	41		21.1	7.60 J	5.66 J	4.33 J	15.1 J	10.8 J	5.12 J	0.326 J	< 0.0526 U	0.480 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	41		272 J	147 J	130 J	85.2 J	255 J	182 J	105 J	10.9 J	1.73 J	7.18 J
PCB-050	62796-65-0	ng/g	230	41		1.94 J	1.10 J	0.921 J	0.629 J	1.63 J	1.14 J	0.638 J	< 0.0591 U	< 0.0642 U	< 0.0631 U
PCB-051	68194-04-7	ng/g	230	41		37.2	16.9 J	12.5 J	8.90 J	32.0	23.2	9.08 J	0.347 J	< 0.0546 U	0.581 J
PCB-052/073	PCB-52/73	ng/g	230	41		500 JEB	210 JEB	209 JEB	158 JEB	402 JEB	286 JEB	208 JEB	20.2 EB	2.92 JEB	12.7 JEB
PCB-053	41464-41-9	ng/g	230	41		114 J	52.0 J	33.9	30.2	101 J	73.2 J	33.6	1.35 J	0.265 J	2.14 J
PCB-054	15968-05-5	ng/g	230	41		2.74 J	1.86 J	0.688 J	0.789 J	2.27 J	1.65 J	0.815 J	< 0.0392 U	< 0.0426 U	< 0.0419 U
PCB-055	74338-24-2	ng/g	230	41		2.77 J	0.647 J	1.46 J	< 0.0543 U	1.66 J	0.922 J	1.09 J	< 0.0510 U	< 0.0554 U	< 0.0544 U
PCB-056/060	PCB-56/60	ng/g	230	41		138 J	36.8	66.8 J	28.7	112 J	72.0 J	44.4 J	21.2	2.73 J	5.61 JEB
PCB-057	70424-67-8	ng/g	230	41		4.34 J	2.06 J	2.91 J	1.36 J	2.87 J	1.97 J	1.88 J	< 0.0394 U	< 0.0428 U	< 0.0421 U
PCB-058	41464-49-7	ng/g	230	41		1.28 J	0.722 J	0.951 J	0.560 J	1.26 J	0.820 J	0.734 J	< 0.0357 U	< 0.0388 U	< 0.0381 U
PCB-059	74472-33-6	ng/g	230	41		22.7	7.31 J	11.9 J	6.40 J	18.5 J	12.6 J	7.64 J	0.635 J	< 0.0760 U	0.650 J
PCB-061/074	PCB-61/74	ng/g	230	41		111 J	41.2 J	71.6 J	24.6	95.3 J	63.4 J	54.2 J	17.2 J	2.27 J	3.72 J
PCB-062	54230-22-7	ng/g	230	41		< 0.0523 U	< 0.0528 U	< 0.0516 U	< 0.0520 U	< 0.0511 U	< 0.0517 U	< 0.0508 U	< 0.0488 U	< 0.0530 U	< 0.0521 U
PCB-063	74472-34-7	ng/g	230	41		14.8 J	7.68 J	11.9 J	4.63 J	13.0 J	8.94 J	7.59 J	1.68 J	< 0.0398 U	< 0.0391 U
PCB-065	33284-54-7	ng/g	230	41		< 0.0754 U	< 0.0762 U	< 0.0745 U	< 0.0749 U	< 0.0737 U	< 0.0746 U	< 0.0732 U	< 0.0703 U	< 0.0764 U	< 0.0751 U
PCB-066/080	PCB-66/80	ng/g	230	41		284 JEB	92.6 JEB	141 JEB	71.5 JEB	257 JEB	171 JEB	107 JEB	45.3 JEB	5.88 JEB	12.3 JEB
PCB-067	73575-53-8	ng/g	230	41		9.91 J	3.29 J	6.95 J	2.27 J	9.35 J	6.17 J	4.82 J	0.697 J	< 0.0468 U	< 0.0460 U
PCB-068	73575-52-7	ng/g	230	41		2.97 J	2.71 J	2.23 J	1.29 J	2.48 J	1.89 J	1.47 J	8.78 J	< 0.0554 U	< 0.0544 U
PCB-069	60233-24-1	ng/g	230	41		0.861 J	0.658 J	0.494 J	0.316 J	0.729 J	0.520 J	0.367 J	< 0.0530 U	< 0.0576 U	< 0.0566 U
PCB-070	32598-11-1	ng/g	230	41		306 JEB	91.8 JEB	133 JEB	73.2 JEB	277 JEB	189 JEB	94.2 JEB	39.0 JEB	5.18 JEB	12.4 JEB
PCB-071	41464-46-4	ng/g	230	41		134 JEB	42.2 JEB	53.0 JEB	32.1 EB	110 JEB	79.7 JEB	39.8 JEB	2.29 JEB	0.352 JEB	2.57 J
PCB-072	41464-42-0	ng/g	230	41		5.97 J	4.57 J	3.69 J	2.58 J	5.16 J	3.62 J	2.87 J	0.292 J	< 0.0624 U	< 0.0613 U
PCB-076	70362-48-0	ng/g	230	41		< 0.0755 U	< 0.0764 U	< 0.0746 U	< 0.0751 U	< 0.0739 U	< 0.0748 U	< 0.0734 U	< 0.0705 U	< 0.0766 U	< 0.0753 U
PCB-077	32598-13-3	ng/g	38.0	41		34.1 J	14.6 J	21.4 J	10.1 J	30.5 J	20.6 J	13.6 J	6.47 J	0.883 J	1.86 J+
PCB-078	70362-49-1	ng/g	230	41		0.958 J	0.426 J	0.510 J	0.333 J	0.779 J	0.659 J	0.369 J	< 0.0361 U	< 0.0392 U	< 0.0385 U
PCB-079	41464-48-6	ng/g	230	41		1.98 J	0.915 J	1.01 J	0.698 J	1.78 J	1.59 J	0.902 J	< 0.0453 U	< 0.0492 U	< 0.0483 U
PCB-081	70362-50-4	ng/g	12.0	41		4.05 J	1.50 J	2.46 J	1.67 J	3.52 J	2.84 J	1.84 J	0.694 J	< 0.0768 R	< 0.0755 U
PCB-082	52663-62-4	ng/g	230	41		33.5	9.31 J	13.8 J	9.11 J	26.2	18.5 J	10.1 J	2.54 J	0.288 J	1.24 J
PCB-083/109	PCB-83/109	ng/g	230	41		13.8 J	6.31 J	6.96 J	4.98 J	11.6 J	8.38 J	5.41 J	1.18 J	< 0.121 U	0.569 J
PCB-084	52663-60-2	ng/g	230	41		61.4 J	23.9	25.8	20.2	48.4 J	34.9	20.5	2.95 J	0.498 J	2.21 J
PCB-085/120	PCB-85/120	ng/g	230	41		60.6 J	22.9	28.5	19.0 J	51.8 J	36.9	24.6	9.11 J	1.39 J	3.19 J
PCB-086/097	PCB-86/97	ng/g	230	41		65.2 J	25.1	27.6	21.3	56.3 J	40.6 J	22.9	7.24 J	0.965 J	3.05 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	41		< 0.0304 U	< 0.0307 U	< 0.0300 U	< 0.0302 U	< 0.0297 U	< 0.0301 U	< 0.0295 U	< 0.0283 U	< 0.0308 U	< 0.0303 U
PCB-088/121	PCB-88/121	ng/g	230	41		1.04 J	< 0.111 U	< 0.109 U	< 0.109 U	0.971 J	0.832 J	< 0.107 U	< 0.103 U	< 0.111 U	< 0.109 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	41		163 J	83.3 J	74.4 J	62.9 J	145 J	105 J	65.8 J	19.8	2.78 J	7.97 J
PCB-091	68194-05-8	ng/g	230	41		48.9 J	24.3	23.8	18.4 J	40.8 J	30.0	19.0 J	3.28 J	0.514 J	1.98 J
PCB-092	52663-61-3	ng/g	230	41		35.2	21.9	17.6 J	14.7 J	29.1	21.2	15.3 J	3.48 J	0.571 J	1.62 J
PCB-093/095	PCB-93/95	ng/g	230	41		161 J	75.5 J	70.5 J	62.9 J	135 J	98.1 J	61.9 J	10.8 J	1.64 J	6.23 J
PCB-094	73575-55-0	ng/g	230	41		3.18 J	1.93 J	1.62 J	1.22 J	2.98 J	2.18 J	1.15 J	< 0.0847 U	< 0.0920 U	< 0.0904 U
PCB-096	73575-54-9	ng/g	230	41		4.92 J	1.65 J	1.73 J	1.42 J	3.48 J	2.50 J	1.30 J	< 0.0399 U	< 0.0434 U	< 0.0426 U
PCB-098/102	PCB-98/102	ng/g	230	41		18.2 J	6.66 J	8.19 J	5.69 J	15.5 J	11.2 J	5.74 J	0.535 J	< 0.0804 U	0.536 J
PCB-099	38380-01-7	ng/g	230	41		105 J	50.8 J	49.5 J	37.3	97.2 J	70.8 J	44.8 J	14.4 J	2.08 J	5.34 J
PCB-100	39485-83-1	ng/g	230	41		1.54 J	1.86 J	0.927 J	0.820 J	1.43 J	1.02 J	0.646 J	< 0.0451 U	< 0.0490 U	< 0.0481 U
PCB-103	60145-21-3	ng/g	230	41		2.57 J	1.99 J	1.42 J	1.10 J	2.27 J	1.67 J	1.13 J	< 0.0466 U	< 0.0506 U	< 0.0497 U
PCB-104	56558-16-8	ng/g	230	41		< 0.0462 U	< 0.0467 U	< 0.0456 U	< 0.0459 U	< 0.0451 U	< 0.0457 U	< 0.0448 U	< 0.0431 U	< 0.0468 U	< 0.0460 U
PCB-105/127	PCB-105/127	ng/g	120	41		82.7 J	28.6 J-	37.9 J-	22.7 J-	71.3 J	50.5 J	34.9 J-	18.6 J-	2.20 J-	4.21 J
PCB-106/118	PCB-106/118	ng/g	120	41		161 J	74.6 J	77.4 J	55.6 J	147 J	105 J	70.7 J	31.6 J-	4.07 J-	8.94 J
PCB-107/108	PCB-107/108	ng/g	230	41		14.2 J	7.46 J	7.54 J	5.04 J	12.9 J	9.46 J	6.64 J	2.55 J	0.309 J	0.848 J
PCB-110	38380-03-9	ng/g	230	41		239 JEB	123 JEB	122 JEB	94.3 JEB	208 JEB	152 JEB	103 JEB	27.3 EB	3.64 JEB	11.0 J
PCB-111/117	PCB-111/117	ng/g	230	41		74.8 J	32.0	36.2	26.4	65.5 J	48.3 J	29.4	9.31 J	1.11 J	3.17 J
PCB-112	74472-36-9	ng/g	230	41		0.988 J	0.518 J	0.666 J	0.413 J	0.878 J	0.590 J	0.369 J	< 0.0444 U	< 0.0482 U	< 0.0474 U
PCB-113	68194-10-5	ng/g	230	41		1.15 J	0.874 J	0.668 J	0.585 J	1.03 J	0.645 J	0.719 J	< 0.0466 U	< 0.0506 U	< 0.0497 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0076-PLS1	23D-0077-PLS1	23D-0078-PLS1	23D-0079-PLS1	23D-0080-PLS1	23D-0080-PLS1	23D-0081-B2S1	23D-0082-PLS1	23D-0082-PLS1	23D-0083-PLS1
				Sample Name	23D-0076-PLS1-AS	23D-0077-PLS1-AS	23D-0078-PLS1-AS	23D-0079-PLS1-AS	23D-0080-PLS1-AS	23D-0080-PLS1-AT	23D-0081-B2S1-AS	23D-0082-PLS1-AS	23D-0082-PLS1-BS	23D-0083-PLS1-AS
				Sample Date	8/3/2023	8/3/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/7/2023
				Sample Type	N	N	N	N	N	FD	N	N	N	N
				Depth Interval	0 - 0.6 ft	0 - 0.4 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.8 ft	0 - 0.8 ft	0 - 0.7 ft	0 - 1 ft	2.2 - 3.2 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-114	74472-37-0	ng/g	120	41	4.82 J-	2.20 J-	2.54 J-	1.33 J-	4.36 J-	3.01 J-	2.50 J-	1.22 J-	< 0.0420 R	< 0.0413 U
PCB-119	56558-17-9	ng/g	230	41	7.07 J	5.49 J	4.34 J	3.18 J	6.48 J	4.92 J	3.61 J	0.786 J	< 0.0556 U	0.399 J
PCB-122	76842-07-4	ng/g	230	41	3.11 J	1.29 J	1.55 J	0.823 J	2.55 J	2.10 J	1.02 J	0.545 J	< 0.0354 U	< 0.0348 U
PCB-123	65510-44-3	ng/g	120	41	5.40 J	3.04 J	2.85 J	2.16 J	5.12 J	3.58 J	2.49 J	1.16 J	< 0.0328 R	< 0.0322 U
PCB-124	70424-70-3	ng/g	230	41	6.13 J	3.30 J	2.74 J	1.95 J	5.65 J	4.24 J	2.50 J	1.16 J	< 0.0442 U	< 0.0434 U
PCB-125	74472-39-2	ng/g	230	41	1.47 J	0.659 J	< 0.0472 U	0.344 J	1.02 J	1.05 J	< 0.0464 U	0.174 J	< 0.0484 U	< 0.0476 U
PCB-126	57465-28-8	ng/g	0.0360	41	1.01 J	< 0.0686 UJ	0.722 J	< 0.0675 UJ	1.33 J	0.886 J	0.630 J	< 0.0633 UJ	< 0.0688 UJ	< 0.0676 U
PCB-128	38380-07-3	ng/g	230	41	15.3 J	14.8 J	7.21 J	8.72 J	12.2 J	8.58 J	6.65 J	2.68 J	0.373 J	1.04 J
PCB-129	55215-18-4	ng/g	230	41	3.79 J	3.30 J	1.79 J	1.93 J	3.34 J	2.28 J	1.49 J	0.631 J	< 0.0534 U	< 0.0525 U
PCB-130	52663-66-8	ng/g	230	41	5.66 J	4.95 J	2.59 J	2.88 J	4.27 J	3.22 J	2.49 J	0.907 J	< 0.0420 U	0.329 J
PCB-131/142	PCB-131/142	ng/g	230	41	1.21 J	0.909 J	0.495 J	0.636 J	1.06 J	0.782 J	0.400 J	0.135 J	< 0.103 U	< 0.102 U
PCB-132/168	PCB-132/168	ng/g	230	41	26.4	23.8	13.1 J	14.8 J	22.1	15.7 J	11.2 J	3.09 J	0.426 J	1.48 J
PCB-133	35694-04-3	ng/g	230	41	1.07 J	1.17 J	0.554 J	0.715 J	0.926 J	0.590 J	0.552 J	0.119 J	< 0.0376 U	< 0.0369 U
PCB-134	52704-70-8	ng/g	230	41	3.90 J	3.70 J	1.81 J	2.30 J	3.28 J	2.29 J	1.49 J	0.498 J	< 0.0996 U	< 0.0979 U
PCB-135/144	PCB-135/144	ng/g	230	41	10.9 J	10.0 J	5.55 J	6.08 J	9.53 J	7.01 J	4.87 J	1.38 J	0.174 J	0.598 J
PCB-136	38411-22-2	ng/g	230	41	8.69 J	7.98 J	4.45 J	4.95 J	7.52 J	5.46 J	3.69 J	0.787 J	0.104 J	0.459 J
PCB-137	35694-06-5	ng/g	230	41	5.01 J	4.88 J	2.29 J	2.82 J	4.31 J	3.18 J	1.92 J	0.796 J	0.125 J	0.333 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	79.0 J	81.6 J	39.2 J	48.6 J	66.9 J	48.6 J	37.9	14.3 J	1.74 J	5.47 J
PCB-139/149	PCB-139/149	ng/g	230	41	47.8 J	46.7 J	23.9	28.5	41.8 J	30.0	22.1	6.44 J	0.911 J	2.97 J
PCB-140	59291-64-4	ng/g	230	41	0.463 J	0.450 J	< 0.0694 U	< 0.0698 U	0.366 J	< 0.0695 U	0.194 J	< 0.0655 U	< 0.0712 U	< 0.0700 U
PCB-141	52712-04-6	ng/g	230	41	12.3 J	10.7 J	5.42 J	6.35 J	10.9 J	7.83 J	4.88 J	1.83 J	0.215 J	0.800 J
PCB-143	68194-15-0	ng/g	230	41	0.409 J	0.237 J	< 0.0626 U	< 0.0630 U	0.354 J	0.337 J	< 0.0615 U	< 0.0591 U	< 0.0642 U	< 0.0631 U
PCB-145	74472-40-5	ng/g	230	41	4.21	< 0.0845 U	< 0.0826 U	< 0.0832 U	3.38	< 0.0828 U	< 0.0812 U	< 0.0780 U	< 0.0848 U	< 0.0833 U
PCB-146	51908-16-8	ng/g	230	41	8.13 J	8.37 J	4.23 J	4.83 J	6.90 J	5.05 J	3.84 J	1.22 J	0.190 J	0.553 J
PCB-147	68194-13-8	ng/g	230	41	1.85 J	2.80 J	1.04 J	1.32 J	1.54 J	1.17 J	0.913 J	0.234 J	< 0.0748 U	< 0.0735 U
PCB-148	74472-41-6	ng/g	230	41	< 0.0773 U	0.169 J	< 0.0764 U	< 0.0769 U	0.109 J	< 0.0765 U	< 0.0751 U	< 0.0721 U	< 0.0784 U	< 0.0770 U
PCB-150	68194-08-1	ng/g	230	41	0.121 J	0.190 J	< 0.0772 U	3.41	0.0963 J	< 0.0773 U	< 0.0759 U	< 0.0729 U	< 0.0792 U	< 0.0778 U
PCB-151	52663-63-5	ng/g	230	41	11.5 J	10.2 J	5.46 J	6.61 J	10.3 J	7.60 J	5.11 J	1.39 J	0.160 J	0.582 J
PCB-152	68194-09-2	ng/g	230	41	0.179 J	0.185 J	0.106 J	< 0.0908 U	0.195 J	0.128 J	< 0.0887 U	< 0.0852 U	< 0.0926 U	< 0.0910 U
PCB-153	35065-27-1	ng/g	230	41	47.3 J	51.3 J	23.4	29.1	42.1 J	30.4	23.3	8.26 J	1.13 J	3.28 J
PCB-154	60145-22-4	ng/g	230	41	0.964 J	1.26 J	0.509 J	0.555 J	0.726 J	0.526 J	0.463 J	< 0.0508 U	< 0.0552 U	< 0.0542 U
PCB-155	33979-03-2	ng/g	230	41	< 0.0469 U	< 0.0474 U	< 0.0464 U	< 0.0467 U	< 0.0459 U	< 0.0465 U	< 0.0456 U	< 0.0438 U	< 0.0476 U	< 0.0468 U
PCB-156	38380-08-4	ng/g	120	41	8.43 J-	6.46 J-	3.86 J-	4.31 J-	7.53 J-	4.98 J-	3.64 J-	1.64 J-	0.193 J-	0.516 J
PCB-157	69782-90-7	ng/g	120	41	2.52 J	2.33 J	1.16 J	1.39 J	2.02 J	1.53 J	1.15 J	0.400 J	< 0.0556 R	< 0.0546 U
PCB-158/160	PCB-158/160	ng/g	230	41	8.23 J	7.51 J	3.74 J	4.64 J	6.87 J	5.09 J	3.29 J	1.14 J	0.166 J	0.531 J
PCB-159	39635-35-3	ng/g	230	41	0.463 J	< 0.0766 U	0.275 J	0.240 J	0.475 J	0.313 J	0.235 J	< 0.0707 U	< 0.0768 U	< 0.0755 U
PCB-161	74472-43-8	ng/g	230	41	< 0.0708 U	< 0.0716 U	< 0.0700 U	< 0.0704 U	< 0.0693 U	< 0.0701 U	< 0.0688 U	< 0.0661 U	< 0.0718 U	< 0.0705 U
PCB-162	39635-34-2	ng/g	230	41	0.430 J	< 0.0564 U	0.240 J	0.244 J	0.360 J	0.247 J	0.203 J	< 0.0521 U	< 0.0566 U	< 0.0556 U
PCB-165	74472-46-1	ng/g	230	41	< 0.0765 U	< 0.0774 U	< 0.0756 U	< 0.0761 U	< 0.0749 U	< 0.0757 U	< 0.0743 U	< 0.0714 U	< 0.0776 U	< 0.0762 U
PCB-166	41411-63-6	ng/g	230	41	0.405 J	< 0.0666 U	0.260 J	0.236 J	0.353 J	0.280 J	0.219 J	< 0.0615 U	< 0.0668 U	< 0.0656 U
PCB-167	52663-72-6	ng/g	120	41	3.06 J-	3.20 J-	1.45 J-	1.98 J-	2.79 J-	1.68 J-	1.42 J-	0.651 J-	< 0.0514 R	< 0.0505 U
PCB-169	32774-16-6	ng/g	0.120	41	< 0.0558 R	< 0.0564 R	< 0.0552 R	< 0.0555 R	< 0.0546 R	< 0.0552 R	< 0.0542 R	< 0.0521 R	< 0.0566 R	< 0.0556 U
PCB-170/190	PCB-170/190	ng/g	230	41	15.2 J	12.5 J	7.44 J	7.69 J	14.1 J	10.4 J	7.19 J	2.55 J	0.286 J	0.952 J
PCB-171	52663-71-5	ng/g	230	41	3.66 J	3.29 J	1.89 J	1.97 J	3.28 J	2.48 J	1.66 J	0.437 J	< 0.0740 U	0.200 J
PCB-172/192	PCB-172/192	ng/g	230	41	1.85 J	1.67 J	0.986 J	0.948 J	1.81 J	1.25 J	0.947 J	0.320 J	< 0.123 U	< 0.121 U
PCB-173	68194-16-1	ng/g	230	41	< 0.0817 U	< 0.0825 U	< 0.0807 U	< 0.0812 U	0.293 J	0.150 J	< 0.0793 U	< 0.0762 U	< 0.0828 U	< 0.0814 U
PCB-174	38411-25-5	ng/g	230	41	12.2 J	9.91 J	6.07 J	6.13 J	11.7 J	8.51 J	5.57 J	1.84 J	0.248 J	0.726 J
PCB-175	40186-70-7	ng/g	230	41	0.480 J	0.357 J	0.215 J	0.231 J	0.423 J	0.305 J	< 0.0611 U	< 0.0587 U	< 0.0638 U	< 0.0627 U
PCB-176	52663-65-7	ng/g	230	41	1.40 J	1.07 J	0.664 J	0.680 J	1.26 J	0.937 J	0.533 J	0.126 J	< 0.0596 U	< 0.0586 U
PCB-177	52663-70-4	ng/g	230	41	7.06 J	6.06 J	3.62 J	3.66 J	6.69 J	4.89 J	3.58 J	1.18 J	0.148 J	0.450 J
PCB-178	52663-67-9	ng/g	230	41	2.36 J	2.27 J	1.28 J	1.28 J	2.24 J	1.65 J	1.27 J	0.362 J	< 0.0934 U	< 0.0918 U
PCB-179	52663-64-6	ng/g	230	41	4.33 J	3.46 J	2.24 J	2.12 J	4.09 J	3.05 J	2.02 J	0.514 J	< 0.0494 U	0.205 J
PCB-180	35065-29-3	ng/g	230	41	26.4	21.0	12.0 J	12.7 J	25.2	18.4 J	12.2 J	3.98 J	0.579 J	1.42 J
PCB-181	74472-47-2	ng/g	230	41	< 0.0558 U	< 0.0564 U	< 0.0552 U	< 0.0555 U	< 0.0546 U	< 0.0552 U	< 0.0542 U	< 0.0521 U	< 0.0566 U	< 0.0556 U
PCB-182/187	PCB-182/187	ng/g	230	41	13.0 J	11.6 J	6.12 J	7.15 J	12.6 J	9.28 J	6.68 J	2.12 J	0.274 J	0.778 J
PCB-183	52663-69-1	ng/g	230	41	5.94 J	5.06 J	2.82 J	3.11 J	5.64 J	4.21 J	2.70 J	0.706 J	< 0.0740 U	0.273 J
PCB-184	74472-48-3	ng/g	230	41	< 0.0529 U	< 0.0534 U	< 0.0522 U	< 0.0526 U	< 0.0517 U	< 0.0523 U	< 0.0514 U	< 0.0493 U	< 0.0536 U	< 0.0527 U
PCB-185	52712-05-7	ng/g	230	41	1.52 J	1.20 J	0.651 J	0.709 J	1.44 J	1.04 J	0.680 J	0.212 J	< 0.0742 U	< 0.0729 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0076-PLS1	23D-0077-PLS1	23D-0078-PLS1	23D-0079-PLS1	23D-0080-PLS1	23D-0080-PLS1	23D-0081-B2S1	23D-0082-PLS1	23D-0082-PLS1	23D-0083-PLS1
				Sample Name	23D-0076-PLS1-AS	23D-0077-PLS1-AS	23D-0078-PLS1-AS	23D-0079-PLS1-AS	23D-0080-PLS1-AS	23D-0080-PLS1-AT	23D-0081-B2S1-AS	23D-0082-PLS1-AS	23D-0082-PLS1-BS	23D-0083-PLS1-AS
				Sample Date	8/3/2023	8/3/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/7/2023
				Sample Type	N	N	N	N	N	FD	N	N	N	N
				Depth Interval	0 - 0.6 ft	0 - 0.4 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.8 ft	0 - 0.8 ft	0 - 0.7 ft	0 - 1 ft	2.2 - 3.2 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-186	74472-49-4	ng/g	230	41	< 0.0661 U	< 0.0668 U	< 0.0653 U	< 0.0657 U	< 0.0646 U	< 0.0654 U	< 0.0642 U	< 0.0617 U	< 0.0670 U	< 0.0658 U
PCB-188	74487-85-7	ng/g	230	41	< 0.0606 U	< 0.0612 U	< 0.0598 U	< 0.0602 U	< 0.0592 U	< 0.0599 U	< 0.0588 U	< 0.0565 U	< 0.0614 U	< 0.0603 U
PCB-189	39635-31-9	ng/g	130	41	0.727 J-	0.643 J-	0.334 J-	0.265 J-	0.631 J-	0.394 J-	0.295 J-	0.132 J-	< 0.0624 R	< 0.0613 U
PCB-191	74472-50-7	ng/g	230	41	0.526 J	0.419 J	0.247 J	0.261 J	0.558 J	0.340 J	0.207 J	< 0.0519 U	< 0.0564 U	< 0.0554 U
PCB-193	69782-91-8	ng/g	230	41	1.27 J	0.992 J	0.659 J	0.695 J	1.20 J	0.877 J	0.666 J	0.203 J	< 0.0712 U	< 0.0700 U
PCB-194	35694-08-7	ng/g	230	41	7.59 J	5.73 J	3.65 J	3.66 J	7.64 J	5.84 J	3.97 J	1.30 J	< 0.0900 UJ	0.497 J
PCB-195	52663-78-2	ng/g	230	41	2.84 J	2.41 J	1.67 J	1.50 J	2.70 J	2.03 J	1.35 J	0.514 J	< 0.159 UJ	< 0.157 UJ
PCB-196/203	PCB-196/203	ng/g	230	41	7.82 J	6.61 J	4.13 J	3.76 J	7.38 J	5.56 J	4.27 J	1.40 J	< 0.151 UJ	0.531 J
PCB-197	33091-17-7	ng/g	230	41	< 0.0665 U	< 0.0672 U	< 0.0657 U	< 0.0661 U	0.272 J	< 0.0658 U	< 0.0646 U	< 0.0620 U	< 0.0674 U	< 0.0662 U
PCB-198	68194-17-2	ng/g	230	41	< 0.108 UJ	< 0.109 UJ	< 0.107 UJ	< 0.107 UJ	< 0.106 UJ	< 0.107 UJ	< 0.105 UJ	< 0.101 UJ	< 0.109 UJ	< 0.107 UJ
PCB-199	52663-75-9	ng/g	230	41	6.28 J	5.79 J	3.51 J	3.40 J	6.25 J	5.03 J	3.40 J	1.10 J	< 0.105 UJ	0.379 J
PCB-200	52663-73-7	ng/g	230	41	0.840 J	0.624 J	0.397 J	0.325 J	0.738 J	0.713 J	0.583 J	< 0.0493 U	< 0.0536 U	< 0.0527 U
PCB-201	40186-71-8	ng/g	230	41	0.691 J	0.683 J	0.400 J	0.260 J	0.631 J	0.480 J	0.339 J	< 0.0390 U	< 0.0424 U	< 0.0417 U
PCB-202	2136-99-4	ng/g	230	41	0.937 J	1.08 J	0.547 J	0.558 J	0.971 J	0.816 J	0.546 J	< 0.0666 U	< 0.0724 U	< 0.0711 U
PCB-204	74472-52-9	ng/g	230	41	< 0.0874 U	< 0.0883 U	< 0.0863 U	< 0.0869 U	< 0.0855 U	< 0.0865 U	< 0.0849 U	< 0.0815 U	< 0.0886 U	< 0.0871 U
PCB-205	74472-53-0	ng/g	230	41	< 0.0619 U	< 0.0626 U	< 0.0612 U	1.38 J	0.523 J	0.473 J	< 0.0602 U	< 0.0578 U	< 0.0628 U	< 0.0617 U
PCB-206	40186-72-9	ng/g	230	41	3.61 J	3.81 J	1.69 J	1.70 J	3.21 J	2.35 J	1.41 J	0.469 J	< 0.0602 U	< 0.0592 U
PCB-207	52663-79-3	ng/g	230	41	0.306 J	0.620 J	0.164 J	0.225 J	0.284 J	0.248 J	< 0.0763 U	< 0.0732 U	< 0.0796 U	< 0.0782 U
PCB-208	52663-77-1	ng/g	230	41	0.982 J	1.30 J	0.426 J	0.561 J	0.826 J	0.635 J	0.414 J	0.129 J	< 0.0796 U	< 0.0782 U
PCB-209	2051-24-3	ng/g	230	41	2.15 J	4.08 J	0.818 J	1.22 J	1.50 J	1.20 J	0.711 J	< 0.0421 U	< 0.0458 U	< 0.0450 U
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0	2.15	4.08	0.818	1.22	1.50	1.20	0.711	< 0.0421 U	< 0.0458 U	< 0.045 U
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0	97.9	81.5	47.2	49.6	93.2	68.2	46.2	14.7	1.54	5.00
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0	320	309	154	188	275	195	144	48.5	5.91	18.9
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0	27.0	22.9	14.3	14.8	27.1	20.9	14.5	4.31	< 0.159 U	1.41
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14	7080	3000	3180	2140	5850	4080	2390	509	64.7	210
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0	1380	640	649	496	1200	870	559	170	22.1	62.5
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0	177	138	128	65.3	106	69.3	40.0	4.74	0.604	7.68
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0	6.28	9.51	2.05	2.86	1.83	1.26	0.821	< 0.0499 U	< 0.0542 U	0.316
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0	4.90	5.73	2.28	2.49	4.32	3.23	1.82	0.598	< 0.0796 U	< 0.0782 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0	3290	1250	1470	903	2760	1920	1180	220	28.3	90.6
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0	1780	536	717	415	1380	928	402	46.7	6.28	24.1
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700		5500 J	8600 J	18000 J	4500 J	5200 J	5000 J	5400 J	9000 J	5000 J	7300 J
Calcium	7440-70-2	mg/kg			2000	4600	4000 J	2500 J	2000 J	2100 J	2600 J	1900 J	1900 J	2000
Iron	7439-89-6	mg/kg	5500		10000 J	20000 J	46000 J	8700 J	20000 J	9100 J	9600 J	15000 J	6400 J	10000 J
Magnesium	7439-95-4	mg/kg			2100 J	2400 J	9800 J	1500 J	2500 J	2300 J	2500 J	5400 J	1500 J	2200 J
Potassium	7440-09-7	mg/kg			470 J	660 J	510	520 J	400	430	410 J	380	410 J	660
Sodium	7440-23-5	mg/kg			140 JEB	340 JEB	78 J	190 J	120 J	130 J	92 J	51 J	170 J	< 600 U
Antimony	7440-36-0	mg/kg	3.1	0.27	< 0.83 U	2.2 J+	< 0.97 U	< 1.1 U	< 0.87 U	< 0.89 U	< 0.93 U	< 0.85 U	< 1.1 U	0.94 J
Arsenic	7440-38-2	mg/kg	0.68	18	2.8	7.1	1.9	2.7	1.3 J	2.9 J	1.6	1.6	3.0	7.0
Barium	7440-39-3	mg/kg	1500	110	35 J	110 J	22	49	16	23	28	18	27	50
Beryllium	7440-41-7	mg/kg	16	2.5	< 0.41 U	< 0.90 U	< 0.48 U	< 0.53 U	< 0.44 U	< 0.44 U	< 0.46 U	< 0.42 U	< 0.54 U	< 0.58 U
Cadmium	7440-43-9	mg/kg	0.71	0.36	0.34 J	3.2	0.11 J	0.54	0.15 J	0.28 J	0.31 J	0.28 J	0.22 J	1.6
Chromium, Total	7440-47-3	mg/kg	0.3	23	20	62	12 EB	26 EB	14 JEB	25 JEB	15 EB	16 EB	31 EB	56
Cobalt	7440-48-4	mg/kg	2.3	13	5.4 J	9.1 J	3.4	4.0	2.7 J	7.3 J	3.3	2.3	2.6	5.5
Copper	7440-50-8	mg/kg	310	28	38	140	34 JEB	38 JEB	28 JEB	32 JEB	29 JEB	26 JEB	42 JEB	94
Lead	7439-92-1	mg/kg	200	11	100	160	64 JEB	73 JEB	52 JEB	84 JEB	56 JEB	66 JEB	64 JEB	150
Manganese	7439-96-5	mg/kg	180	220	430	470	130 EB	360 EB	89 JEB	160 JEB	100 EB	60 EB	69 EB	85 EB
Nickel	7440-02-0	mg/kg	140	38	8.1 J	19 J	6.1	7.0	6.3	10	7.2	4.6	4.3	9.6
Selenium	7782-49-2	mg/kg	39	0.52	1.0 J	6.9	0.85 J	1.1 J	< 2.2 U	1.3 J	0.73 J	< 2.1 U	< 2.7 U	1.0 J
Silver	7440-22-4	mg/kg	39	4.2	0.13 J	0.45 J	0.073 J	0.19 J	0.070 J	0.082 J	0.086 J	0.054 J	0.073 J	0.15 J
Thallium	7440-28-0	mg/kg	0.078	0.05	0.037 J	0.088 J	< 0.48 U	0.035 J	0.021 J	0.023 J	0.031 J	0.028 J	0.038 J	0.057 J
Vanadium	7440-62-2	mg/kg	39	7.8	14	31	12	15	8.8 J	19 J	11	8.7	9.6	13
Zinc	7440-66-6	mg/kg	2300	46	96 EB	530 EB	77 JEB	120 JEB	92 JEB	150 JEB	85 JEB	64 JEB	81 JEB	290 EB
Mercury	7439-97-6	mg/kg	2.3	0.013	0.25	0.67	0.13	0.20	0.23	0.27	0.11	0.32	0.42	2.1

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0076-PLS1	23D-0077-PLS1	23D-0078-PLS1	23D-0079-PLS1	23D-0080-PLS1	23D-0080-PLS1	23D-0081-B2S1	23D-0082-PLS1	23D-0082-PLS1	23D-0083-PLS1
				Sample Name	23D-0076-PLS1-AS	23D-0077-PLS1-AS	23D-0078-PLS1-AS	23D-0079-PLS1-AS	23D-0080-PLS1-AS	23D-0080-PLS1-AT	23D-0081-B2S1-AS	23D-0082-PLS1-AS	23D-0082-PLS1-BS	23D-0083-PLS1-AS
				Sample Date	8/3/2023	8/3/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/7/2023
				Sample Type	N	N	N	N	N	FD	N	N	N	N
				Depth Interval	0 - 0.6 ft	0 - 0.4 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.8 ft	0 - 0.8 ft	0 - 0.7 ft	0 - 1 ft	2.2 - 3.2 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
2-HEXANONE	591-78-6	ug/kg	20000	360	< 12 U	< 39 U	< 12 U	< 22 U	< 11 U	< 9.3 U	< 13 U	< 11 U	< 13 U	< 11 U
ACETONE	67-64-1	ug/kg	7000000	1200	12 EB	34 JEB	< 12 U	< 22 U	< 11 U	< 9.3 U	< 13 U	< 11 U	< 13 U	< 11 U
Benzene	71-43-2	ug/kg	1200	120	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
BROMOFORM	75-25-2	ug/kg	19000	70	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
BROMOMETHANE	74-83-9	ug/kg	680	2	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Chloroform	67-66-3	ug/kg	320	50	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 6.2 UJ	< 19 UJ	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Cyclohexane	110-82-7	ug/kg	650000		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Ethylbenzene	100-41-4	ug/kg	5800	270	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 6.2 U	23	< 6.1 U	< 11 U	< 5.4 U	5.7	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	< 12 U	< 39 U	< 12 U	< 22 U	< 11 U	< 9.3 U	< 13 U	< 11 U	< 13 U	< 11 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 12 U	< 39 U	< 12 U	< 22 U	< 11 U	< 9.3 U	< 13 U	< 11 U	< 13 U	< 11 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Methylene Chloride	75-09-2	ug/kg	35000	210	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Styrene	100-42-5	ug/kg	600000	1200	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Toluene	108-88-3	ug/kg	490000	150	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U
Vinyl Chloride	75-01-4	ug/kg	59	30	< 6.2 U	< 19 U	< 6.1 U	< 11 U	< 5.4 U	< 4.6 U	< 6.3 U	< 5.5 U	< 6.7 U	< 5.7 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0076-PLS1	23D-0077-PLS1	23D-0078-PLS1	23D-0079-PLS1	23D-0080-PLS1	23D-0080-PLS1	23D-0081-B2S1	23D-0082-PLS1	23D-0082-PLS1	23D-0083-PLS1
					Sample Name	23D-0076-PLS1-AS	23D-0077-PLS1-AS	23D-0078-PLS1-AS	23D-0079-PLS1-AS	23D-0080-PLS1-AS	23D-0080-PLS1-AT	23D-0081-B2S1-AS	23D-0082-PLS1-AS	23D-0082-PLS1-BS	23D-0083-PLS1-AS
					Sample Date	8/3/2023	8/3/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/7/2023
					Sample Type	N	N	N	N	N	FD	N	N	N	N
					Depth Interval	0 - 0.6 ft	0 - 0.4 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.8 ft	0 - 0.8 ft	0 - 0.7 ft	0 - 1 ft	2.2 - 3.2 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 87 U	< 220 U	< 83 U	< 140 UJ	< 74 UJ	< 70 U	< 74 U	< 68 R	< 97 U	< 84 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 430 U	< 1100 U	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 220 U	< 550 U	< 210 U	< 340 UJ	< 190 U	< 180 U	< 190 U	< 170 UJ	< 250 U	< 210 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 430 U	< 1100 U	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 430 U	< 1100 UJ	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 430 U	< 1100 U	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 430 U	< 1100 UJ	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 220 U	< 550 UJ	< 210 U	< 340 UJ	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 430 U	< 1100 U	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 220 U	< 550 U	< 210 U	< 340 UJ	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 430 U	< 1100 U	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 430 U	< 1100 U	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 430 U	< 1100 U	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 430 U	< 1100 U	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 430 U	< 1100 UJ	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 430 U	< 1100 U	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 220 U	< 550 UJ	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 430 U	< 1100 U	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 430 U	< 1100 U	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 220 U	480 J+	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
Caprolactam	105-60-2	ug/kg	3100000		< 430 U	< 1100 U	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 430 U	< 1100 UJ	< 410 U	< 670 UJ	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 220 U	< 550 U	< 210 U	< 340 UJ	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 220 U	< 550 UJ	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 430 U	< 1100 UJ	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	2800 J+	-	-	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 220 U	< 550 UJ	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 430 UJ	< 1100 UJ	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 UJ
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0076-PLS1	23D-0077-PLS1	23D-0078-PLS1	23D-0079-PLS1	23D-0080-PLS1	23D-0080-PLS1	23D-0081-B2S1	23D-0082-PLS1	23D-0082-PLS1	23D-0083-PLS1
					Sample Name	23D-0076-PLS1-AS	23D-0077-PLS1-AS	23D-0078-PLS1-AS	23D-0079-PLS1-AS	23D-0080-PLS1-AS	23D-0080-PLS1-AT	23D-0081-B2S1-AS	23D-0082-PLS1-AS	23D-0082-PLS1-BS	23D-0083-PLS1-AS
					Sample Date	8/3/2023	8/3/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/4/2023	8/7/2023
					Sample Type	N	N	N	N	N	FD	N	N	N	N
					Depth Interval	0 - 0.6 ft	0 - 0.4 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.8 ft	0 - 0.8 ft	0 - 0.7 ft	0 - 1 ft	2.2 - 3.2 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
Naphthalene	91-20-3	ug/kg	2000	29000	-	-	-	-	-	-	-	-	-	-	
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U	
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 220 U	< 550 U	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U	
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 220 U	< 550 UJ	< 210 U	< 340 U	< 190 U	< 180 U	< 190 U	< 170 U	< 250 U	< 210 U	
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	-	-	-	-	-	-	-	-	-	
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-	
PHENOL	108-95-2	ug/kg	1900000	790	< 430 U	< 1100 U	< 410 U	< 670 U	< 370 U	< 340 U	< 370 U	< 330 U	< 480 U	< 410 U	
PYRENE	129-00-0	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-	
1-Methylnaphthalene	90-12-0	ug/kg	18	140	4.8	8.1 J	4.6	< 6.7 U	2.4 J	< 3.4 U	< 3.7 U	< 3.3 U	5.3 J	5.5	
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	6.4	11	6.0	< 6.7 U	3.2 J	2.2 J	< 3.7 U	< 3.3 U	7.3 J	5.4	
Acenaphthene	83-32-9	ug/kg	360000	29000	19 J	31 J	35	< 6.7 U	9.0	5.9	2.4 J	< 3.3 U	15	19	
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	20	52	6.2	8.2	20 J	8.8 J	5.5	7.3	82	47	
ANTHRACENE	120-12-7	ug/kg	1800000	29000	170	160	130 J	29 J	87 J	29 J	21 J	28 J	370 J	120 J	
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	570	1800	250	100	220 J	99 J	100	120	1300	310	
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	540	2000	190	110	210 J	100 J	110	110	1600	310	
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	640	2900	230	46	260 J	130 J	160	74	1900	330	
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	250	1200	54 J	59 J	120 J	37 J	35 J	31 J	700	180	
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	260	1100	61	77	100	37	33	34	600	140	
CHRYSENE	218-01-9	ug/kg	110000	1100	560	2200	220	160	210 J	100 J	130	110	1200	300	
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	29	140	16	15	21 J	10 J	8.9	8.4	95	53	
FLUORANTHENE	206-44-0	ug/kg	240000	1100	1200	-	650	340	520 J	240 J	270	280	3800	820	
FLUORENE	86-73-7	ug/kg	240000	29000	22	44	35	5.7 J	15	7.7	3.7	4.6	42	37	
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	320	1500	120	76	150 J	50 J	45	42	870	200	
Naphthalene	91-20-3	ug/kg	2000	29000	9.6	15	8.0	< 6.7 U	4.5	3.4	< 3.7 U	2.1 J	17	23	
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	< 8.7 UJ	< 22 UJ	< 8.3 UJ	< 14 UJ	< 7.4 UJ	< 7.0 UJ	< 7.4 UJ	< 6.8 UJ	< 16 UJ	< 8.5 UJ	
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	580	1400	470	84	240 J	120 J	57	98	1000	280	
PYRENE	129-00-0	ug/kg	180000	1100	760	2600	370 EB	230 EB	330 JEB	160 JEB	190 EB	170 EB	2300 EB	490 EB	
Asbestos															
ASBESTOS	1332-21-4	%			< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	

Table 15
Floodplain Soil Analytical Results
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Lower Neponset River
Boston, Massachusetts

					Location	23D-0083-PLS1	23D-0084-PLS1	23D-0084-PLS1	23D-0085-PLS1	23D-0085-PLS1	23D-0086-PLS1	23D-0086-PLS1	23D-0087-PLS1	23D-0087-PLS1	23D-0088-PLS1
					Sample Name	23D-0083-PLS1-BS	23D-0084-PLS1-AS	23D-0084-PLS1-BS	23D-0085-PLS1-AS	23D-0085-PLS1-BS	23D-0086-PLS1-AS	23D-0086-PLS1-BS	23D-0087-PLS1-AS	23D-0087-PLS1-BS	23D-0088-PLS1-AS
					Sample Date	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	3 - 4 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	9.19 J	125 J	9.48 J	214 J	24.6 J	624 J	18.7 J	90.4 J	3.82 J	1410 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	< 0.26 U	2.45 J	0.987 J	4.26 J	1.44 J	13.8	< 0.184 U	1.7 J	< 0.175 U	28.2 J
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	< 0.361 UJ	1.37 JN	1.2 JN	2.95 J	0.962 JN	8.16 J	0.742 J	1.2 JN	0.33 J	16.7 J+
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	0.745 JN	4.50 J	3.46 J	9.35 J	4.18 J	25.6 J	0.905 J	3.77 J	< 9.38 UJ	54.3 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	< 0.377 U	4.26 J	1.55 JN	11.7	1.96 J	40.3	1.61 J	5.22	< 0.266 U	79.0
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	0.679 JN	2.55 J	3.04 J	4.82 J	2.76 J	14.5 J	0.523 J	2.04 J	< 0.154 UJ	31.2 J
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	< 0.34 U	2.41 J	0.812 JN	6.86	1.1 J	21.2	0.954 JN	2.88 J	< 0.239 U	45.1
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 0.326 U	< 0.205 U	< 0.291 U	< 0.277 U	< 0.169 U	< 0.844 U	< 0.19 U	< 0.44 U	< 0.184 U	< 0.981 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	< 0.46 UJ	< 0.379 UJ	0.685 JN	1.35 J	< 0.434 UJ	4.02 J	< 0.305 UJ	0.636 JN	< 0.457 UJ	8.85 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	0.633 J	3.19 J	2.04 JN	1.23 JN	4.75 J	15.5 J	< 0.212 UJ	1.55 J	< 0.211 UJ	19.5
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	4.77	41.7	9.87	119	20.9	395	10.6	55.3	1.74 J	899 J
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	0.597 JN	1.92 J	2.93 J	4.44 J	1.42 JN	13.7	0.506 J	2.19 J	< 0.187 U	27.2 J
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	0.702 JN	4.07 J	3.86 J	5.7 J	4.59 J	20.0 J	0.702 JN	2.82 J	< 0.208 UJ	34.2 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	< 0.614 UJ	< 0.417 UJ	< 0.595 UJ	< 0.478 UJ	< 0.376 UJ	1.26 J	< 0.451 UJ	< 0.413 UJ	< 0.428 UJ	4.13
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	1.50 JN	9.35	4.73	2.21	13.8	50.7	0.773 J	3.40	< 0.205 U	27.9 J
OCDD	3268-87-9	pg/g	16000	10500	65.8	1440	38.3	1710	192	3810	98.3	573	23.5	10000 J
OCDF	39001-02-0	pg/g	16000	10500	5.73 J	85.3 J	5.39 J	132 J	21.5 J	372 J	9.51 J	57.8 J	1.91 J	896 J
Total HpCDD (a)	RA_Total_HpCDD	pg/g			9.19	125	9.48	214	24.6	624	18.7	90.4	3.82	1410
Total HpCDF (a)	RA_Total_HpCDF	pg/g			4.77	44.2	10.9	123	22.3	409	10.6	57.0	1.74	927
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		< 0.377 U	8.04	3.56	21.5	4.02	69.7	3.31	9.30	0.33	141
Total HxCDF (a)	RA_Total_HxCDF	pg/g			2.02	8.97	9.43	18.6	8.36	53.8	1.93	8.00	< 9.38 U	113
Total PeCDD (a)	RA_Total_PeCDD	pg/g			< 0.46 U	< 0.379 U	0.685	1.35	< 0.434 U	4.02	< 0.305 U	0.636	< 0.457 U	8.85
Total PeCDF (a)	RA_Total_PeCDF	pg/g			1.34	7.26	5.90	6.93	9.34	35.5	0.702	4.37	< 0.211 U	53.7
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.614 U	< 0.417 U	< 0.595 U	< 0.478 U	< 0.376 U	1.26	< 0.451 U	< 0.413 U	< 0.428 U	4.13
Total TCDF (a)	RA_Total_TCDF	pg/g			1.50	9.35	4.73	2.21	13.8	50.7	0.773	3.40	< 0.205 U	27.9
PCB Congeners															
PCB-001	2051-60-7	ng/g	230	41	< 0.0340 UJ	< 0.0364 UJ	< 0.0351 UJ	25.1 J	6.06 J	0.968 J	< 0.0370 UJ	< 0.0355 UJ	< 0.0353 UJ	19.7
PCB-002	2051-61-8	ng/g	230	41	< 0.0490 U	< 0.0525 U	< 0.0506 U	0.443 JEB	< 0.0536 U	< 0.0530 U	< 0.0533 U	< 0.0512 U	< 0.0509 U	0.627 JEB
PCB-003	2051-62-9	ng/g	230	41	< 0.0477 U	< 0.0511 U	< 0.0493 U	13.7 J	2.56 J	0.618 J	< 0.0519 U	< 0.0498 U	< 0.0496 U	8.90 J
PCB-004/010	PCB-4/10	ng/g	230	41	4.54 J	0.550 J	< 0.0881 UJ	107 J	27.5 J	4.08 J	2.19 J	1.28 J	< 0.0886 UJ	230 J
PCB-005/008	PCB-5/8	ng/g	230	41	1.75 J	0.483 J	< 0.0842 U	51.8 J	9.70 J	4.03 J	2.06 J	1.07 J	< 0.0847 U	313 J
PCB-006	25569-80-6	ng/g	230	41	0.838 J	0.211 J	< 0.0491 U	13.7 J	2.74 J	1.69 J	1.41 J	0.604 J	< 0.0494 U	64.5 J
PCB-007/009	PCB-7/9	ng/g	230	41	< 0.0824 U	< 0.0883 U	< 0.0851 U	1.18 J	< 0.0903 U	< 0.0891 U	< 0.0897 U	< 0.0861 U	< 0.0856 U	10.7 J
PCB-011	2050-67-1	ng/g	230	41	< 0.0454 U	< 0.0486 U	< 0.0469 U	3.41 JEB	0.680 JEB	< 0.0490 U	< 0.0494 U	< 0.0474 U	< 0.0471 U	3.79 JEB
PCB-012/013	PCB-12/13	ng/g	230	41	< 0.0817 U	< 0.0875 U	< 0.0844 U	8.21 J	2.00 J	0.751 J	< 0.0889 U	< 0.0853 U	< 0.0849 U	10.7 J
PCB-014	34883-41-5	ng/g	230	41	< 0.0455 U	< 0.0488 U	< 0.0470 U	< 0.0491 U	< 0.0499 U	< 0.0492 U	< 0.0496 U	< 0.0476 U	< 0.0473 U	< 0.0498 U
PCB-015	2050-68-2	ng/g	230	41	< 0.0417 U	2.12 J	< 0.0431 U	50.4 J	11.3 J	8.23 J	< 0.0454 U	0.989 J	< 0.0434 U	87.2 J
PCB-016/032	PCB-16/32	ng/g	230	41	1.99 JEB	1.46 JEB	< 0.122 U	130 JEB	28.5 EB	4.66 JEB	1.38 JEB	1.46 JEB	< 0.123 U	188 JEB
PCB-017	37680-66-3	ng/g	230	41	0.959 J	0.975 J	< 0.0539 U	39.9 J	8.49 J	3.23 J	1.22 J	1.28 J	< 0.0543 U	204 J
PCB-018	37680-65-2	ng/g	230	41	2.00 JEB	1.46 JEB	< 0.0623 U	26.5 EB	7.26 JEB	3.92 JEB	1.84 JEB	1.44 JEB	< 0.0627 U	104 JEB
PCB-019	38444-73-4	ng/g	230	41	1.23 J	0.289 J	< 0.0424 U	122 J	36.1	1.60 J	0.360 J	0.408 J	< 0.0426 U	77.8 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	< 0.126 U	0.879 JEB	< 0.131 U	5.27 JEB	9.63 JEB	5.02 JEB	0.265 JEB	< 0.132 U	< 0.131 U	17.8 JEB
PCB-022	38444-85-8	ng/g	230	41	< 0.0450 U	1.63 J	< 0.0465 U	8.68 J	2.21 J	2.78 J	0.414 J	< 0.0470 U	< 0.0467 U	15.4 J
PCB-023/034	PCB-23/34	ng/g	230	41	< 0.0822 U	< 0.0881 U	< 0.0849 U	3.62 J	1.23 J	< 0.0889 U	< 0.0895 U	< 0.0859 U	< 0.0854 U	3.31 J
PCB-024/027	PCB-24/27	ng/g	230	41	< 0.0799 U	0.337 J	< 0.0825 U	57.0 J	17.7 J	1.25 J	0.212 J	0.338 J	< 0.0830 U	45.0 J
PCB-025	55712-37-3	ng/g	230	41	< 0.0463 U	0.499 J	< 0.0478 U	17.9 J	5.62 J	1.88 J	0.639 J	0.589 J	< 0.0481 U	51.4 J
PCB-026	38444-81-4	ng/g	230	41	< 0.0394 U	0.858 J	< 0.0407 U	43.3 J	11.9 J	3.48 J	0.955 J	0.933 J	< 0.0409 U	111 J
PCB-028	7012-37-5	ng/g	230	41	2.55 JEB	9.42 JEB	0.838 JEB	20.5 EB	3.80 JEB	10.3 JEB	2.05 JEB	3.24 JEB	< 0.0451 U	136 JEB
PCB-029	15862-07-4	ng/g	230	41	< 0.0475 U	< 0.0509 U	< 0.0491 U	< 0.0512 U	< 0.0521 U	< 0.0514 U	< 0.0517 U	< 0.0496 U	< 0.0494 U	< 0.0519 U
PCB-030	35693-92-6	ng/g	230	41	< 0.0436 U	< 0.0467 U	< 0.0450 U	< 0.0469 U	< 0.0477 U	< 0.0471 U	< 0.0474 U	< 0.0455 U	< 0.0452 U	< 0.0476 U
PCB-031	16606-02-3	ng/g	230	41	1.40 JEB	4.44 JEB	0.496 JEB	63.4 JEB	18.5 JEB	8.55 JEB	2.00 JEB	2.63 JEB	< 0.0569 U	161 JEB
PCB-035	37680-69-6	ng/g	230	41	< 0.0517 U	< 0.0554 U	< 0.0534 U	0.389 J+	< 0.0566 U	< 0.0559 U	< 0.0563 U	< 0.0540 U	< 0.0537 U	1.50 J+
PCB-036	38444-87-0	ng/g	230	41	< 0.0441 U	< 0.0472 U	< 0.0455 U	< 0.0475 U	< 0.0483 U	< 0.0477 U	< 0.0480 U	< 0.0461 U	< 0.0458 U	1.05 J
PCB-037	38444-90-5	ng/g	230	41	< 0.0484 U	5.13 J	< 0.0500 U	7.30 J	1.63 J	6.88 J	0.452 J	0.782 J	< 0.0503 U	50.7 J
PCB-038	53555-66-1	ng/g	230	41	< 0.0365 U	< 0.0391 U	< 0.0377 U	3.57 J	< 0.0400 U	< 0.0395 U	< 0.0397 U	< 0.0381 U	< 0.0379 U	4.31 J
PCB-039	38444-88-1	ng/g	230	41	< 0.0224 U	< 0.0240 U	< 0.0231 U	1.27 J	< 0.0245 U	< 0.0242 U	< 0.0244 U	< 0.0234 U	< 0.0233 U	0.599 J
PCB-040	38444-93-8	ng/g	230	41	< 0.0374 U	0.984 J	< 0.0386 U	1.85 J	< 0.0410 U	< 0.0405 U	< 0.0407 U	< 0.0391 U	< 0.0389 U	15.4 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0083-PLS1	23D-0084-PLS1	23D-0084-PLS1	23D-0085-PLS1	23D-0085-PLS1	23D-0086-PLS1	23D-0086-PLS1	23D-0087-PLS1	23D-0087-PLS1	23D-0088-PLS1
				Sample Name	23D-0083-PLS1-BS	23D-0084-PLS1-AS	23D-0084-PLS1-BS	23D-0085-PLS1-AS	23D-0085-PLS1-BS	23D-0086-PLS1-AS	23D-0086-PLS1-BS	23D-0087-PLS1-AS	23D-0087-PLS1-BS	23D-0088-PLS1-AS
				Sample Date	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/9/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 2 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	3 - 4 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-041/064	PCB-41/64	ng/g	230	41	0.687 J	5.07 J	0.376 J	8.61 J	1.84 J	6.18 J	2.79 J	1.58 J	< 0.0882 U	56.1 J
PCB-042	36559-22-5	ng/g	230	41	< 0.0934 U	2.54 J	< 0.0965 U	11.2 J	2.05 J	5.20 J	1.28 J	0.977 J	< 0.0971 U	54.9 J
PCB-043/049	PCB-43/49	ng/g	230	41	2.02 J	9.68 J	0.949 J	136 J	36.9	22.3	5.57 J	4.69 J	0.242 J	253 J
PCB-044	41464-39-5	ng/g	230	41	1.59 JEB	7.37 JEB	0.606 JEB	13.4 JEB	1.69 JEB	11.1 JEB	3.58 JEB	2.57 JEB	< 0.0516 U	126 JEB
PCB-045	70362-45-7	ng/g	230	41	< 0.0407 U	0.655 J	< 0.0420 U	2.50 J	< 0.0445 U	1.84 J	< 0.0443 U	0.316 J	< 0.0422 U	19.5 J
PCB-046	41464-47-5	ng/g	230	41	< 0.0475 U	0.249 J	< 0.0491 U	2.79 J	0.587 J	1.01 J	< 0.0517 U	< 0.0496 U	< 0.0494 U	6.55 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	41	1.10 J	6.10 J	0.484 J	115 J	29.0	16.5 J	4.15 J	3.73 J	0.164 J	164 J
PCB-050	62796-65-0	ng/g	230	41	< 0.0580 U	< 0.0621 U	< 0.0599 U	1.73 J	0.492 J	< 0.0627 U	< 0.0631 U	< 0.0606 U	< 0.0603 U	1.58 J
PCB-051	68194-04-7	ng/g	230	41	< 0.0493 U	0.203 J	< 0.0510 U	30.2	7.21 J	1.50 J	< 0.0537 U	< 0.0515 U	< 0.0513 U	25.2
PCB-052/073	PCB-52/73	ng/g	230	41	2.60 JEB	10.2 JEB	0.896 JEB	104 JEB	28.1 EB	23.2 EB	6.94 JEB	4.99 JEB	0.197 JEB	239 JEB
PCB-053	41464-41-9	ng/g	230	41	0.498 J	0.971 J	< 0.0454 U	70.0 J	19.4 J	4.19 J	0.698 J	0.666 J	< 0.0456 U	65.8 J
PCB-054	15968-05-5	ng/g	230	41	< 0.0385 U	< 0.0412 U	< 0.0398 U	5.95 J	1.80 J	< 0.0416 U	< 0.0419 U	< 0.0402 U	< 0.0400 U	2.64 J
PCB-055	74338-24-2	ng/g	230	41	< 0.0501 U	< 0.0536 U	< 0.0517 U	< 0.0540 U	< 0.0548 U	< 0.0541 U	< 0.0545 U	< 0.0523 U	< 0.0520 U	2.47 J
PCB-056/060	PCB-56/60	ng/g	230	41	< 0.0978 U	15.0 JEB	1.17 JEB	6.75 JEB	< 0.107 U	12.9 JEB	4.99 JEB	2.84 JEB	< 0.102 U	94.3 JEB
PCB-057	70424-67-8	ng/g	230	41	< 0.0387 U	< 0.0414 U	< 0.0399 U	1.55 J	< 0.0424 U	< 0.0418 U	< 0.0421 U	< 0.0404 U	< 0.0402 U	2.84 J
PCB-058	41464-49-7	ng/g	230	41	< 0.0351 U	< 0.0376 U	< 0.0362 U	< 0.0378 U	< 0.0384 U	< 0.0379 U	< 0.0382 U	< 0.0366 U	< 0.0364 U	0.615 J
PCB-059	74472-33-6	ng/g	230	41	< 0.0687 U	0.534 J	< 0.0709 U	0.960 J	< 0.0752 U	0.686 J	< 0.0747 U	< 0.0717 U	< 0.0713 U	10.6 J
PCB-061/074	PCB-61/74	ng/g	230	41	< 0.0902 U	12.1 J	0.953 J	7.68 J	1.90 J	9.22 J	3.37 J	2.35 J	< 0.0937 U	58.3 J
PCB-062	54230-22-7	ng/g	230	41	< 0.0479 U	< 0.0513 U	< 0.0495 U	< 0.0516 U	< 0.0525 U	< 0.0518 U	< 0.0521 U	< 0.0500 U	< 0.0498 U	< 0.0523 U
PCB-063	74472-34-7	ng/g	230	41	< 0.0360 U	1.23 J	< 0.0371 U	8.43 J	2.14 J	1.27 J	0.507 J	< 0.0376 U	< 0.0374 U	9.91 J
PCB-065	33284-54-7	ng/g	230	41	< 0.0690 U	< 0.0740 U	< 0.0713 U	< 0.0744 U	< 0.0756 U	< 0.0746 U	< 0.0751 U	< 0.0721 U	< 0.0717 U	< 0.0754 U
PCB-066/080	PCB-66/80	ng/g	230	41	1.99 JEB	25.7 EB	1.94 JEB	18.2 JEB	4.01 JEB	27.7 EB	8.68 JEB	7.11 JEB	0.263 JEB	164 JEB
PCB-067	73575-53-8	ng/g	230	41	< 0.0423 U	0.552 J	< 0.0437 U	0.467 J	< 0.0463 U	< 0.0457 U	< 0.0460 U	< 0.0442 U	< 0.0439 U	5.61 J
PCB-068	73575-52-7	ng/g	230	41	< 0.0501 U	< 0.0536 U	< 0.0517 U	4.24 J	1.59 J	< 0.0541 U	< 0.0545 U	< 0.0523 U	< 0.0520 U	< 0.0547 U
PCB-069	60233-24-1	ng/g	230	41	< 0.0520 U	< 0.0558 U	< 0.0538 U	0.993 J	< 0.0570 U	< 0.0563 U	< 0.0567 U	< 0.0544 U	< 0.0541 U	0.603 J
PCB-070	32598-11-1	ng/g	230	41	1.73 JEB	23.6 EB	1.63 JEB	14.3 JEB	2.04 JEB	29.1 EB	10.9 JEB	7.60 JEB	0.250 JEB	172 JEB
PCB-071	41464-46-4	ng/g	230	41	< 0.0636 U	1.44 J	< 0.0657 U	20.0	4.72 J	3.50 J	0.634 J	0.700 J	< 0.0661 U	60.9 J
PCB-072	41464-42-0	ng/g	230	41	< 0.0564 U	0.178 J	< 0.0582 U	4.90 J	1.72 J	0.921 J	< 0.0614 U	< 0.0589 U	< 0.0586 U	4.19 J
PCB-076	70362-48-0	ng/g	230	41	< 0.0692 U	< 0.0741 U	< 0.0715 U	< 0.0746 U	< 0.0758 U	< 0.0748 U	< 0.0753 U	< 0.0723 U	< 0.0719 U	< 0.0756 U
PCB-077	32598-13-3	ng/g	38.0	41	< 0.0408 U	3.97 J+	< 0.0422 U	2.77 J+	< 0.0447 U	5.58 J+	1.07 J+	1.21 J+	< 0.0424 U	23.5 J
PCB-078	70362-49-1	ng/g	230	41	< 0.0354 U	< 0.0379 U	< 0.0366 U	< 0.0382 U	< 0.0388 U	< 0.0383 U	< 0.0386 U	< 0.0370 U	< 0.0368 U	0.441 J
PCB-079	41464-48-6	ng/g	230	41	< 0.0445 U	< 0.0476 U	< 0.0459 U	< 0.0479 U	< 0.0487 U	< 0.0481 U	< 0.0484 U	< 0.0464 U	< 0.0462 U	0.779 J
PCB-081	70362-50-4	ng/g	12.0	41	< 0.0694 U	0.345 J+	< 0.0717 U	< 0.0748 U	< 0.0760 U	< 0.0750 U	< 0.0755 U	< 0.0725 U	< 0.0721 U	2.24 J
PCB-082	52663-62-4	ng/g	230	41	< 0.0255 U	2.10 J	< 0.0263 U	1.73 J	< 0.0279 U	3.30 J	0.998 J	0.761 J	< 0.0265 U	11.7 J
PCB-083/109	PCB-83/109	ng/g	230	41	< 0.110 U	0.809 J	< 0.113 U	1.29 J	< 0.120 U	1.80 J	0.469 J	0.394 J	< 0.114 U	6.58 J
PCB-084	52663-60-2	ng/g	230	41	< 0.0441 U	2.44 J	< 0.0455 U	4.09 J	0.737 J	5.41 J	1.35 J	1.13 J	< 0.0458 U	24.2
PCB-085/120	PCB-85/120	ng/g	230	41	< 0.0983 U	5.32 J	0.382 J	4.34 J	0.651 J	9.51 J	3.02 J	2.54 J	< 0.102 U	27.8
PCB-086/097	PCB-86/97	ng/g	230	41	< 0.0432 U	4.74 J	< 0.0446 U	4.18 J	0.572 J	9.33 J	2.50 J	2.01 J	< 0.0449 U	29.8
PCB-087/115/116	PCB-87/115/116	ng/g	230	41	< 0.0278 U	< 0.0298 U	< 0.0287 U	< 0.0300 U	< 0.0305 U	< 0.0301 U	< 0.0303 U	< 0.0291 U	< 0.0289 U	< 0.0304 U
PCB-088/121	PCB-88/121	ng/g	230	41	< 0.101 U	< 0.108 U	< 0.104 U	< 0.108 U	< 0.110 U	< 0.109 U	< 0.110 U	< 0.105 U	< 0.105 U	< 0.110 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	41	1.22 J	11.8 J	0.962 J	19.7	3.61 J	26.8	7.01 J	6.32 J	< 0.113 U	91.1 J
PCB-091	68194-05-8	ng/g	230	41	< 0.0564 U	2.09 J	< 0.0582 U	7.09 J	1.61 J	5.22 J	1.40 J	1.08 J	< 0.0586 U	25.1
PCB-092	52663-61-3	ng/g	230	41	< 0.0248 U	1.95 J	< 0.0256 U	9.51 J	2.29 J	5.64 J	1.15 J	1.19 J	< 0.0257 U	21.8
PCB-093/095	PCB-93/95	ng/g	230	41	0.990 J	6.55 J	0.488 J	10.5 J	1.56 J	15.6 J	3.66 J	3.45 J	< 0.0757 U	78.4 J
PCB-094	73575-55-0	ng/g	230	41	< 0.0831 U	< 0.0891 U	< 0.0859 U	1.11 J	0.269 J	0.324 J	< 0.0905 U	< 0.0868 U	< 0.0864 U	2.02 J
PCB-096	73575-54-9	ng/g	230	41	< 0.0392 U	0.0728 J	< 0.0405 U	0.426 J	< 0.0430 U	0.209 J	< 0.0427 U	< 0.0410 U	< 0.0407 U	1.63 J
PCB-098/102	PCB-98/102	ng/g	230	41	< 0.0726 U	0.368 J	< 0.0750 U	1.85 J	0.385 J	1.20 J	< 0.0791 U	< 0.0759 U	< 0.0755 U	7.59 J
PCB-099	38380-01-7	ng/g	230	41	0.818 J	8.24 J	0.597 J	10.7 J	2.04 J	17.1 J	5.02 J	4.45 J	< 0.0417 U	53.9 J
PCB-100	39485-83-1	ng/g	230	41	< 0.0443 U	< 0.0474 U	< 0.0457 U	3.27 J	0.960 J	0.252 J	< 0.0482 U	< 0.0463 U	< 0.0460 U	1.59 J
PCB-103	60145-21-3	ng/g	230	41	< 0.0457 U	< 0.0490 U	< 0.0472 U	2.01 J	0.664 J	0.330 J	< 0.0498 U	< 0.0478 U	< 0.0475 U	1.99 J
PCB-104	56558-16-8	ng/g	230	41	< 0.0423 U	< 0.0453 U	< 0.0437 U	0.326 J	< 0.0463 U	< 0.0457 U	< 0.0460 U	< 0.0442 U	< 0.0439 U	< 0.0462 U
PCB-105/127	PCB-105/127	ng/g	120	41	< 0.0717 U	11.6 J	0.713 J	5.93 J	< 0.0786 U	15.0 J	4.67 J	4.20 J	< 0.0745 U	38.8
PCB-106/118	PCB-106/118	ng/g	120	41	1.17 J	18.5 J	1.31 J	15.1 J	2.53 J	33.5	8.77 J	8.53 J	0.317 J	84.9 J
PCB-107/108	PCB-107/108	ng/g	230	41	< 0.0880 U	1.69 J	< 0.0909 U	1.63 J	< 0.0964 U	2.88 J	0.826 J	0.826 J	< 0.0914 U	7.99 J
PCB-110	38380-03-9	ng/g	230	41	1.61 J	16.3 J	1.22 J	22.4	3.70 J	37.3	9.50 J	9.30 J	0.312 J	125 J
PCB-111/117	PCB-111/117	ng/g	230	41	< 0.125 U	5.80 J	0.373 J	8.95 J	1.82 J	9.80 J	3.28 J	2.30 J	< 0.130 U	37.8
PCB-112	74472-36-9	ng/g	230	41	< 0.0436 U	< 0.0467 U	< 0.0450 U	< 0.0469 U	< 0.0477 U	< 0.0471 U	< 0.0474 U	< 0.0455 U	< 0.0452 U	0.600 J
PCB-113	68194-10-5	ng/g	230	41	< 0.0457 U	< 0.0490 U	< 0.0472 U	< 0.0493 U	< 0.0501 U	< 0.0494 U	< 0.0498 U	< 0.0478 U	< 0.0475 U	0.675 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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Boston, Massachusetts

				Location	23D-0083-PLS1	23D-0084-PLS1	23D-0084-PLS1	23D-0085-PLS1	23D-0085-PLS1	23D-0086-PLS1	23D-0086-PLS1	23D-0087-PLS1	23D-0087-PLS1	23D-0088-PLS1
				Sample Name	23D-0083-PLS1-BS	23D-0084-PLS1-AS	23D-0084-PLS1-BS	23D-0085-PLS1-AS	23D-0085-PLS1-BS	23D-0086-PLS1-AS	23D-0086-PLS1-BS	23D-0087-PLS1-AS	23D-0087-PLS1-BS	23D-0088-PLS1-AS
				Sample Date	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/9/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 2 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	3 - 4 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-114	74472-37-0	ng/g	120	41	< 0.0379 U	0.749 J	< 0.0392 U	0.417 J	< 0.0416 U	< 0.0410 U	< 0.0413 U	< 0.0396 U	< 0.0394 U	2.45 J-
PCB-119	56558-17-9	ng/g	230	41	< 0.0502 U	0.403 J	< 0.0519 U	2.89 J	0.669 J	1.13 J	0.262 J	< 0.0525 U	< 0.0522 U	4.87 J
PCB-122	76842-07-4	ng/g	230	41	< 0.0320 U	< 0.0343 U	< 0.0330 U	< 0.0345 U	< 0.0350 U	< 0.0346 U	< 0.0348 U	< 0.0334 U	< 0.0332 U	1.61 J
PCB-123	65510-44-3	ng/g	120	41	< 0.0296 U	0.695 J+	< 0.0306 U	0.734 J+	< 0.0325 U	1.54 J+	0.413 J+	< 0.0310 U	< 0.0308 U	3.45 J
PCB-124	70424-70-3	ng/g	230	41	< 0.0399 U	0.769 J	< 0.0413 U	0.487 J	< 0.0437 U	1.58 J	0.402 J	< 0.0417 U	< 0.0415 U	3.97 J
PCB-125	74472-39-2	ng/g	230	41	< 0.0437 U	< 0.0468 U	< 0.0452 U	0.308 J	< 0.0479 U	< 0.0473 U	< 0.0476 U	< 0.0457 U	< 0.0454 U	0.883 J
PCB-126	57465-28-8	ng/g	0.0360	41	< 0.0622 U	< 0.0666 U	< 0.0642 U	0.342 J+	< 0.0681 U	< 0.0672 U	< 0.0677 U	< 0.0649 U	< 0.0646 U	< 0.0679 UJ
PCB-128	38380-07-3	ng/g	230	41	< 0.0439 U	1.85 J	< 0.0454 U	2.82 J	< 0.0481 U	5.53 J	0.784 J	1.01 J	< 0.0456 U	14.2 J
PCB-129	55215-18-4	ng/g	230	41	< 0.0482 U	0.403 J	< 0.0498 U	0.583 J	< 0.0528 U	1.12 J	< 0.0525 U	< 0.0504 U	< 0.0501 U	3.34 J
PCB-130	52663-66-8	ng/g	230	41	< 0.0379 U	0.542 J	< 0.0392 U	1.07 J	< 0.0416 U	1.86 J	< 0.0413 U	< 0.0396 U	< 0.0394 U	4.57 J
PCB-131/142	PCB-131/142	ng/g	230	41	< 0.0934 U	< 0.100 U	< 0.0965 U	0.164 J	< 0.102 U	< 0.101 U	< 0.102 U	< 0.0976 U	< 0.0971 U	1.06 J
PCB-132/168	PCB-132/168	ng/g	230	41	< 0.110 U	2.27 J	< 0.113 U	4.32 J	0.550 J	6.30 J	1.03 J	1.49 J	< 0.114 U	22.2
PCB-133	35694-04-3	ng/g	230	41	< 0.0340 U	< 0.0364 U	< 0.0351 U	0.454 J	< 0.0372 U	< 0.0367 U	< 0.0370 U	< 0.0355 U	< 0.0353 U	1.23 J
PCB-134	52704-70-8	ng/g	230	41	< 0.0900 U	0.307 J	< 0.0930 U	0.776 J	< 0.0986 U	1.12 J	< 0.0980 U	< 0.0940 U	< 0.0935 U	3.66 J
PCB-135/144	PCB-135/144	ng/g	230	41	< 0.0945 U	0.870 J	< 0.0976 U	1.92 J	0.334 J	2.88 J	0.397 J	0.574 J	< 0.0982 U	9.40 J
PCB-136	38411-22-2	ng/g	230	41	< 0.0788 U	0.599 J	< 0.0814 U	1.42 J	0.232 J	2.05 J	0.246 J	0.426 J	< 0.0819 U	6.91 J
PCB-137	35694-06-5	ng/g	230	41	< 0.0441 U	0.571 J	< 0.0455 U	1.14 J	< 0.0483 U	1.81 J	< 0.0480 U	< 0.0461 U	< 0.0458 U	4.88 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	0.651 J	8.89 J	0.575 J	16.7 J	2.85 J	27.3	3.60 J	6.38 J	0.192 J	77.0 J
PCB-139/149	PCB-139/149	ng/g	230	41	< 0.130 U	4.10 J	0.345 J	8.75 J	1.46 J	13.8 J	1.82 J	2.94 J	< 0.135 U	41.7 J
PCB-140	59291-64-4	ng/g	230	41	< 0.0643 U	< 0.0689 U	< 0.0664 U	< 0.0693 U	< 0.0705 U	< 0.0696 U	< 0.0700 U	< 0.0672 U	< 0.0668 U	< 0.0703 U
PCB-141	52712-04-6	ng/g	230	41	< 0.0452 U	1.17 J	< 0.0467 U	1.79 J	< 0.0495 U	3.57 J	0.509 J	0.678 J	< 0.0469 U	10.6 J
PCB-143	68194-15-0	ng/g	230	41	< 0.0580 U	< 0.0621 U	< 0.0599 U	< 0.0625 U	< 0.0635 U	< 0.0627 U	< 0.0631 U	< 0.0606 U	< 0.0603 U	< 0.0634 U
PCB-145	74472-40-5	ng/g	230	41	< 0.0766 U	< 0.0821 U	< 0.0791 U	< 0.0826 U	< 0.0839 U	< 0.0829 U	< 0.0834 U	< 0.0800 U	< 0.0796 U	< 0.0837 U
PCB-146	51908-16-8	ng/g	230	41	< 0.0519 U	0.768 J	< 0.0536 U	2.02 J	0.459 J	2.90 J	0.314 J	0.517 J	< 0.0539 U	7.59 J
PCB-147	68194-13-8	ng/g	230	41	< 0.0676 U	0.173 J	< 0.0698 U	1.76 J	0.484 J	0.716 J	< 0.0736 U	< 0.0706 U	< 0.0702 U	2.32 J
PCB-148	74472-41-6	ng/g	230	41	< 0.0708 U	< 0.0759 U	< 0.0732 U	0.142 J	< 0.0776 U	< 0.0766 U	< 0.0771 U	< 0.0740 U	< 0.0736 U	< 0.0774 U
PCB-150	68194-08-1	ng/g	230	41	< 0.0716 U	< 0.0767 U	< 0.0739 U	0.0898 J	< 0.0784 U	< 0.0774 U	< 0.0779 U	< 0.0748 U	< 0.0743 U	0.134 J
PCB-151	52663-63-5	ng/g	230	41	< 0.0519 U	0.803 J	< 0.0536 U	2.38 J	0.509 J	2.88 J	0.408 J	0.557 J	< 0.0539 U	9.49 J
PCB-152	68194-09-2	ng/g	230	41	< 0.0837 U	< 0.0896 U	< 0.0864 U	0.0939 J	< 0.0916 U	< 0.0905 U	< 0.0911 U	< 0.0874 U	< 0.0869 U	< 0.0914 U
PCB-153	35065-27-1	ng/g	230	41	< 0.0455 U	5.17 J	0.380 J	10.5 J	2.00 J	16.5 J	2.31 J	3.86 J	< 0.0473 U	47.1 J
PCB-154	60145-22-4	ng/g	230	41	< 0.0499 U	< 0.0534 U	< 0.0515 U	0.600 J	< 0.0546 U	< 0.0539 U	< 0.0543 U	< 0.0521 U	< 0.0518 U	1.02 J
PCB-155	33979-03-2	ng/g	230	41	< 0.0430 U	< 0.0461 U	< 0.0444 U	< 0.0464 U	< 0.0471 U	< 0.0465 U	< 0.0468 U	< 0.0449 U	< 0.0447 U	< 0.0470 U
PCB-156	38380-08-4	ng/g	120	41	< 0.0361 U	1.19 J	< 0.0373 U	1.58 J	< 0.0396 U	2.73 J	0.345 J	0.479 J	< 0.0375 U	6.14 J-
PCB-157	69782-90-7	ng/g	120	41	< 0.0502 U	0.322 J+	< 0.0519 U	0.525 J+	< 0.0550 U	< 0.0543 U	< 0.0547 U	< 0.0525 U	< 0.0522 U	2.04 J
PCB-158/160	PCB-158/160	ng/g	230	41	< 0.110 U	0.791 J	< 0.114 U	1.51 J	< 0.121 U	2.20 J	0.316 J	0.419 J	< 0.115 U	7.10 J
PCB-159	39635-35-3	ng/g	230	41	< 0.0694 U	< 0.0743 U	< 0.0717 U	< 0.0748 U	< 0.0760 U	< 0.0750 U	< 0.0755 U	< 0.0725 U	< 0.0721 U	< 0.0758 U
PCB-161	74472-43-8	ng/g	230	41	< 0.0649 U	< 0.0695 U	< 0.0670 U	< 0.0699 U	< 0.0711 U	< 0.0702 U	< 0.0706 U	< 0.0678 U	< 0.0674 U	< 0.0709 U
PCB-162	39635-34-2	ng/g	230	41	< 0.0511 U	< 0.0548 U	< 0.0528 U	< 0.0551 U	< 0.0560 U	< 0.0553 U	< 0.0557 U	< 0.0534 U	< 0.0531 U	< 0.0559 U
PCB-165	74472-46-1	ng/g	230	41	< 0.0701 U	< 0.0751 U	< 0.0724 U	< 0.0756 U	< 0.0768 U	< 0.0758 U	< 0.0763 U	< 0.0732 U	< 0.0728 U	< 0.0766 U
PCB-166	41411-63-6	ng/g	230	41	< 0.0604 U	< 0.0647 U	< 0.0623 U	< 0.0651 U	< 0.0661 U	< 0.0653 U	< 0.0657 U	< 0.0631 U	< 0.0627 U	< 0.0659 U
PCB-167	52663-72-6	ng/g	120	41	< 0.0464 U	0.475 J+	< 0.0480 U	0.765 J+	< 0.0509 U	1.17 J+	< 0.0506 U	0.225 J+	< 0.0483 U	2.95 J-
PCB-169	32774-16-6	ng/g	0.120	41	< 0.0511 U	< 0.0548 U	< 0.0528 U	< 0.0551 U	< 0.0560 U	< 0.0553 U	< 0.0557 U	< 0.0534 U	< 0.0531 U	< R
PCB-170/190	PCB-170/190	ng/g	230	41	< 0.0842 U	1.59 J	< 0.0870 U	4.31 J	1.02 J	4.37 J	0.394 J	1.09 J	< 0.0875 U	11.1 J
PCB-171	52663-71-5	ng/g	230	41	< 0.0669 U	0.292 J	< 0.0691 U	0.997 J	0.231 J	0.966 J	< 0.0728 U	< 0.0698 U	< 0.0695 U	2.91 J
PCB-172/192	PCB-172/192	ng/g	230	41	< 0.111 U	0.198 J	< 0.115 U	0.610 J	< 0.122 U	0.563 J	< 0.121 U	< 0.116 U	< 0.115 U	1.46 J
PCB-173	68194-16-1	ng/g	230	41	< 0.0748 U	< 0.0801 U	< 0.0773 U	< 0.0806 U	< 0.0819 U	< 0.0809 U	< 0.0814 U	< 0.0782 U	< 0.0777 U	< 0.0817 U
PCB-174	38411-25-5	ng/g	230	41	< 0.0938 U	1.15 J	< 0.0969 U	2.90 J	0.612 J	3.24 J	0.326 J	0.975 J	< 0.0974 U	8.80 J
PCB-175	40186-70-7	ng/g	230	41	< 0.0576 U	< 0.0618 U	< 0.0595 U	< 0.0621 U	< 0.0631 U	< 0.0623 U	< 0.0628 U	< 0.0602 U	< 0.0599 U	0.353 J
PCB-176	52663-65-7	ng/g	230	41	< 0.0539 U	0.0898 J	< 0.0556 U	0.395 J	< 0.0590 U	0.291 J	< 0.0586 U	< 0.0563 U	< 0.0559 U	0.927 J
PCB-177	52663-70-4	ng/g	230	41	< 0.0672 U	0.727 J	< 0.0694 U	1.96 J	0.397 J	2.02 J	< 0.0732 U	0.486 J	< 0.0698 U	5.16 J
PCB-178	52663-67-9	ng/g	230	41	< 0.0844 U	0.205 J	< 0.0872 U	0.819 J	< 0.0924 U	0.687 J	< 0.0919 U	< 0.0882 U	< 0.0877 U	1.87 J
PCB-179	52663-64-6	ng/g	230	41	< 0.0446 U	0.338 J	< 0.0461 U	1.05 J	0.216 J	1.06 J	< 0.0486 U	0.262 J	< 0.0464 U	2.98 J
PCB-180	35065-29-3	ng/g	230	41	< 0.0595 U	2.42 J	0.156 J	7.40 J	1.73 J	6.65 J	0.636 J	1.74 J	< 0.0618 U	18.5 J
PCB-181	74472-47-2	ng/g	230	41	< 0.0511 U	< 0.0548 U	< 0.0528 U	< 0.0551 U	< 0.0560 U	< 0.0553 U	< 0.0557 U	< 0.0534 U	< 0.0531 U	< 0.0559 U
PCB-182/187	PCB-182/187	ng/g	230	41	< 0.134 U	1.18 J	< 0.139 U	3.95 J	0.878 J	3.69 J	0.419 J	0.915 J	< 0.140 U	9.77 J
PCB-183	52663-69-1	ng/g	230	41	< 0.0669 U	0.491 J	< 0.0691 U	1.69 J	0.353 J	1.47 J	< 0.0728 U	0.295 J	< 0.0695 U	4.41 J
PCB-184	74472-48-3	ng/g	230	41	< 0.0484 U	< 0.0519 U	< 0.0500 U	< 0.0522 U	< 0.0530 U	< 0.0524 U	< 0.0527 U	< 0.0506 U	< 0.0503 U	< 0.0529 U
PCB-185	52712-05-7	ng/g	230	41	< 0.0670 U	0.124 J	< 0.0692 U	0.323 J	< 0.0734 U	0.345 J	< 0.0730 U	< 0.0700 U	< 0.0697 U	1.03 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0083-PLS1	23D-0084-PLS1	23D-0084-PLS1	23D-0085-PLS1	23D-0085-PLS1	23D-0086-PLS1	23D-0086-PLS1	23D-0087-PLS1	23D-0087-PLS1	23D-0088-PLS1
					Sample Name	23D-0083-PLS1-BS	23D-0084-PLS1-AS	23D-0084-PLS1-BS	23D-0085-PLS1-AS	23D-0085-PLS1-BS	23D-0086-PLS1-AS	23D-0086-PLS1-BS	23D-0087-PLS1-AS	23D-0087-PLS1-BS	23D-0088-PLS1-AS
					Sample Date	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	3 - 4 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-186	74472-49-4	ng/g	230	41		< 0.0605 U	< 0.0649 U	< 0.0625 U	< 0.0652 U	< 0.0663 U	< 0.0655 U	< 0.0659 U	< 0.0632 U	< 0.0629 U	< 0.0661 U
PCB-188	74487-85-7	ng/g	230	41		< 0.0555 U	< 0.0594 U	< 0.0573 U	< 0.0598 U	< 0.0608 U	< 0.0600 U	< 0.0604 U	< 0.0580 U	< 0.0576 U	< 0.0606 U
PCB-189	39635-31-9	ng/g	130	41		< 0.0564 U	< 0.0604 U	< 0.0582 U	0.213 J	< 0.0618 U	< 0.0610 U	< 0.0614 U	< 0.0589 U	< 0.0586 U	0.506 J
PCB-191	74472-50-7	ng/g	230	41		< 0.0510 U	< 0.0546 U	< 0.0526 U	0.147 J	< 0.0558 U	< 0.0551 U	< 0.0555 U	< 0.0532 U	< 0.0529 U	0.350 J
PCB-193	69782-91-8	ng/g	230	41		< 0.0643 U	0.145 J	< 0.0664 U	0.471 J	< 0.0705 U	0.377 J	< 0.0700 U	< 0.0672 U	< 0.0668 U	0.979 J
PCB-194	35694-08-7	ng/g	230	41		< 0.0813 UJ	0.726 J	< 0.0840 UJ	3.13 J	0.931 J	2.05 J	< 0.0885 UJ	< 0.0850 UJ	< 0.0845 UJ	5.59 J
PCB-195	52663-78-2	ng/g	230	41		< 0.144 UJ	0.353 J	< 0.149 UJ	1.18 J	< 0.158 UJ	0.912 J	< 0.157 UJ	< 0.150 UJ	< 0.150 UJ	1.60 J
PCB-196/203	PCB-196/203	ng/g	230	41		< 0.137 UJ	0.717 J	< 0.141 UJ	3.09 J	0.768 J	2.46 J	< 0.149 UJ	0.573 J	< 0.142 UJ	5.15 J
PCB-197	33091-17-7	ng/g	230	41		< 0.0609 U	< 0.0652 U	< 0.0629 U	< 0.0656 U	< 0.0667 U	< 0.0659 U	< 0.0663 U	< 0.0636 U	< 0.0633 U	< 0.0665 U
PCB-198	68194-17-2	ng/g	230	41		< 0.0988 UJ	< 0.106 UJ	< 0.102 UJ	< 0.107 UJ	< 0.108 UJ	< 0.107 UJ	< 0.108 UJ	< 0.103 UJ	< 0.103 UJ	< 0.108 U
PCB-199	52663-75-9	ng/g	230	41		< 0.0951 UJ	0.729 J	< 0.0982 UJ	2.53 J	0.518 J	2.34 J	< 0.103 UJ	0.653 J	< 0.0988 UJ	4.50 J
PCB-200	52663-73-7	ng/g	230	41		< 0.0484 U	< 0.0519 U	< 0.0500 U	0.380 J	< 0.0530 U	< 0.0524 U	< 0.0527 U	< 0.0506 U	< 0.0503 U	0.439 J
PCB-201	40186-71-8	ng/g	230	41		< 0.0383 U	< 0.0410 U	< 0.0396 U	0.214 J	< 0.0420 U	< 0.0414 U	< 0.0417 U	< 0.0400 U	< 0.0398 U	0.493 J
PCB-202	2136-99-4	ng/g	230	41		< 0.0654 U	< 0.0701 U	< 0.0676 U	0.515 J	< 0.0717 U	0.268 J	< 0.0712 U	< 0.0683 U	< 0.0680 U	0.929 J
PCB-204	74472-52-9	ng/g	230	41		< 0.0801 U	< 0.0858 U	< 0.0827 U	< 0.0863 U	< 0.0877 U	< 0.0866 U	< 0.0871 U	< 0.0836 U	< 0.0832 U	< 0.0875 U
PCB-205	74472-53-0	ng/g	230	41		< 0.0567 U	< 0.0608 U	< 0.0586 U	< 0.0612 U	< 0.0622 U	< 0.0614 U	< 0.0618 U	< 0.0593 U	< 0.0590 U	< 0.0620 U
PCB-206	40186-72-9	ng/g	230	41		< 0.0544 U	0.289 J	< 0.0562 U	1.31 J	0.332 J	1.80 J	< 0.0592 U	< 0.0568 U	< 0.0565 U	3.35 J
PCB-207	52663-79-3	ng/g	230	41		< 0.0719 U	< 0.0770 U	< 0.0743 U	< 0.0775 U	< 0.0788 U	< 0.0778 U	< 0.0783 U	< 0.0751 U	< 0.0747 U	0.306 J
PCB-208	52663-77-1	ng/g	230	41		< 0.0719 U	< 0.0770 U	< 0.0743 U	0.327 J	< 0.0788 U	0.650 J	< 0.0783 U	< 0.0751 U	< 0.0747 U	1.04 J
PCB-209	2051-24-3	ng/g	230	41		< 0.0414 U	< 0.0443 U	< 0.0427 U	0.645 J	< 0.0453 U	1.57 J	< 0.0450 U	< 0.0432 U	< 0.0430 U	2.51 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0		< 0.0414 U	< 0.0443 U	< 0.0427 U	0.645	< 0.0453 U	1.57	< 0.045 U	< 0.0432 U	< 0.043 U	2.51
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0		< 0.134 U	8.95	0.156	27.2	5.44	25.7	1.78	5.76	< 0.14 U	71.1
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0		0.651	31.3	1.30	63.9	8.88	96.4	12.1	19.6	0.192	287
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0		< 0.144 U	2.53	< 0.149 U	11.0	2.22	8.03	< 0.157 U	1.23	< 0.15 U	18.7
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14		35.9	305	17.8	1670	403	597	141	133	1.94	4650
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0		5.81	103	6.05	141	24.1	205	54.7	48.5	0.629	698
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0		7.13	3.36	< 0.0881 U	236	53.9	18.8	5.66	3.94	< 0.0886 U	720
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0		< 0.049 U	< 0.0525 U	< 0.0506 U	39.2	8.62	1.59	< 0.0533 U	< 0.0512 U	< 0.0509 U	29.2
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0		< 0.0719 U	0.289	< 0.0743 U	1.64	0.332	2.45	< 0.0783 U	< 0.0751 U	< 0.0747 U	4.70
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0		12.2	129	9.00	594	147	184	55.2	41.3	1.12	1640
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0		10.1	27.4	1.33	551	153	53.6	11.8	13.1	< 0.131 U	1170
TAL Metals and Mercury															
Aluminum	7429-90-5	mg/kg	7700			6200 J	5400 J	7900 J	5700 J	8900 J	11000 J	3200 J	5800 J	4600 J	7400 J
Calcium	7440-70-2	mg/kg				2200	1600	2600	1900	2800	2700	1900	2300	2500	2700
Iron	7439-89-6	mg/kg	5500			11000 J	8600 J	15000 J	8400 J	11000 J	14000 J	3400 J	9500 J	5800 J	12000 J
Magnesium	7439-95-4	mg/kg				2500 J	2200 J	3800 J	1900 J	2600 J	2600 J	940 J	2700 J	1400 J	2300 J
Potassium	7440-09-7	mg/kg				< 500 U	500	< 500 U	< 560 U	830	940	< 670 U	< 460 U	< 720 U	560
Sodium	7440-23-5	mg/kg				< 500 U	< 480 U	< 500 U	< 560 U	< 690 U	< 610 U	< 670 U	< 460 U	< 720 U	< 560 U
Antimony	7440-36-0	mg/kg	3.1	0.27		1.1	0.75 J	0.72 J	0.36 J	1.7	5.0	0.059 J	0.44 J	0.072 J	0.96 J
Arsenic	7440-38-2	mg/kg	0.68	18		4.2	4.4	4.6	2.9	12	38	0.48 J	1.8	0.92	3.6
Barium	7440-39-3	mg/kg	1500	110		19	32	34	23	63	110	21	23	43	60
Beryllium	7440-41-7	mg/kg	16	2.5		< 0.50 U	< 0.48 U	< 0.49 U	< 0.61 U	< 0.56 U	< 0.67 U	< 0.70 U	< 0.41 U	< 0.85 U	< 0.59 U
Cadmium	7440-43-9	mg/kg	0.71	0.36		0.18 J	0.12 J	0.90	0.81	0.48 J	0.27 J	< 0.70 U	0.15 J	< 0.85 U	0.44 J
Chromium, Total	7440-47-3	mg/kg	0.3	23		30	59	39	16	74	260	5.4	44	8.3	38
Cobalt	7440-48-4	mg/kg	2.3	13		3.3	2.3	4.5	4.1	4.4	3.2	1.2	2.2	1.5	4.4
Copper	7440-50-8	mg/kg	310	28		43	57	61	20	120	220	2.4	31	6.6	52
Lead	7439-92-1	mg/kg	200	11		54	150	95	32	150	560	3.5	110	8.7	110
Manganese	7439-96-5	mg/kg	180	220		75 EB	62 EB	96 EB	72 EB	130 EB	98 EB	83 EB	74 EB	180 EB	350 EB
Nickel	7440-02-0	mg/kg	140	38		5.3	5.6	7.6	8.1	7.2	8.9	2.0	10	2.9	9.1
Selenium	7782-49-2	mg/kg	39	0.52		< 2.5 U	< 2.4 U	0.66 J	< 3.0 U	0.72 J	1.5 J	< 3.5 U	< 2.1 U	< 4.2 U	1.0 J
Silver	7440-22-4	mg/kg	39	4.2		0.064 J	0.17 J	0.097 J	0.078 J	0.21 J	0.41 J	0.025 J	0.053 J	0.020 J	0.22 J
Thallium	7440-28-0	mg/kg	0.078	0.05		0.028 J	0.041 J	0.034 J	0.044 J	0.067 J	0.13 J	0.056 J	0.022 J	< 0.85 U	0.034 J
Vanadium	7440-62-2	mg/kg	39	7.8		11	11	11	13	14	21	5.5	9.4	6.0	19
Zinc	7440-66-6	mg/kg	2300	46		61 EB	42 EB	350 EB	120 EB	170 EB	120 EB	9.7 EB	67 EB	20 EB	96 EB
Mercury	7439-97-6	mg/kg	2.3	0.013		0.70	1.0	2.1	0.17	2.0	3.0	< 0.16 U	0.49	0.33	0.47

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0083-PLS1	23D-0084-PLS1	23D-0084-PLS1	23D-0085-PLS1	23D-0085-PLS1	23D-0086-PLS1	23D-0086-PLS1	23D-0087-PLS1	23D-0087-PLS1	23D-0088-PLS1
					Sample Name	23D-0083-PLS1-BS	23D-0084-PLS1-AS	23D-0084-PLS1-BS	23D-0085-PLS1-AS	23D-0085-PLS1-BS	23D-0086-PLS1-AS	23D-0086-PLS1-BS	23D-0087-PLS1-AS	23D-0087-PLS1-BS	23D-0088-PLS1-AS
					Sample Date	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	3 - 4 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 R
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 R
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 R
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 R
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 R
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 R
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 R
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 R
2-HEXANONE	591-78-6	ug/kg	20000	360	< 13 U	< 13 U	< 13 U	< 13 U	< 14 U	< 19 U	< 25 U	< 10 U	< 22 U	< 13 UJ
ACETONE	67-64-1	ug/kg	7000000	1200	< 13 U	< 13 U	41 EB	< 13 U	160 EB	< 19 U	170 EB	< 10 U	390 EB	< 13 UJ
Benzene	71-43-2	ug/kg	1200	120	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
BROMOFORM	75-25-2	ug/kg	19000	70	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 R
BROMOMETHANE	74-83-9	ug/kg	680	2	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
CHLOROETHANE	75-00-3	ug/kg	540000		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Chloroform	67-66-3	ug/kg	320	50	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
CHLOROMETHANE	74-87-3	ug/kg	11000		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Cyclohexane	110-82-7	ug/kg	650000		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Ethylbenzene	100-41-4	ug/kg	5800	270	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 R
m,p-Xylene	179601-23-1	ug/kg	55000		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
METHYL ACETATE	79-20-9	ug/kg	7800000		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	< 13 U	< 13 U	7.7 J	< 13 U	35	< 19 U	< 25 U	< 10 U	100	< 13 UJ
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 13 U	< 13 U	< 13 U	< 13 U	< 14 U	< 19 U	< 25 U	< 10 U	< 22 U	< 13 UJ
Methylcyclohexane	108-87-2	ug/kg	9800		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Methylene Chloride	75-09-2	ug/kg	35000	210	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Styrene	100-42-5	ug/kg	600000	1200	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Toluene	108-88-3	ug/kg	490000	150	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ
Vinyl Chloride	75-01-4	ug/kg	59	30	< 6.7 U	< 6.3 U	< 6.4 U	< 6.4 U	< 6.9 U	< 9.7 U	< 12 U	< 5.1 U	< 11 U	< 6.7 UJ

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0083-PLS1	23D-0084-PLS1	23D-0084-PLS1	23D-0085-PLS1	23D-0085-PLS1	23D-0086-PLS1	23D-0086-PLS1	23D-0087-PLS1	23D-0087-PLS1	23D-0088-PLS1
					Sample Name	23D-0083-PLS1-BS	23D-0084-PLS1-AS	23D-0084-PLS1-BS	23D-0085-PLS1-AS	23D-0085-PLS1-BS	23D-0086-PLS1-AS	23D-0086-PLS1-BS	23D-0087-PLS1-AS	23D-0087-PLS1-BS	23D-0088-PLS1-AS
					Sample Date	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	3 - 4 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 84 U	< 79 U	< 90 U	< 84 U	< 97 U	< 110 U	< 160 U	< 75 U	< 150 U	< 99 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	240	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	270 JEB
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	1100	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	2400	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	2300	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	2600	-	-	-	-	-	-	-	490
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	1200	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	830	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	120 J
Caprolactam	105-60-2	ug/kg	3100000		< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 410 U	180 J	140 J	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	2200	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	300	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 210 U	120 J	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	< 490 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	9300	-	-	-	-	-	-	-	660
FLUORENE	86-73-7	ug/kg	240000	29000	-	270	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 410 UJ	< 390 UJ	< 440 UJ	< 410 UJ	< 480 UJ	< 540 UJ	< 800 UJ	< 370 UJ	< 740 UJ	< 490 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	1400	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0083-PLS1	23D-0084-PLS1	23D-0084-PLS1	23D-0085-PLS1	23D-0085-PLS1	23D-0086-PLS1	23D-0086-PLS1	23D-0087-PLS1	23D-0087-PLS1	23D-0088-PLS1
					Sample Name	23D-0083-PLS1-BS	23D-0084-PLS1-AS	23D-0084-PLS1-BS	23D-0085-PLS1-AS	23D-0085-PLS1-BS	23D-0086-PLS1-AS	23D-0086-PLS1-BS	23D-0087-PLS1-AS	23D-0087-PLS1-BS	23D-0088-PLS1-AS
					Sample Date	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/7/2023	8/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	1.5 - 2.5 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	3 - 4 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
Naphthalene	91-20-3	ug/kg	2000	29000	-	< 200 U	-	-	-	-	-	-	-	-	
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U	
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U	
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 210 U	< 200 U	< 230 U	< 210 U	< 250 U	< 280 U	< 410 U	< 190 U	< 380 U	< 250 U	
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	< 390 U	-	-	-	-	-	-	-	-	
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	5400	-	-	-	-	-	-	-	-	
PHENOL	108-95-2	ug/kg	1900000	790	< 410 U	< 390 U	< 440 U	< 410 U	< 480 U	< 540 U	< 800 U	< 370 U	< 740 U	67 J	
PYRENE	129-00-0	ug/kg	180000	1100	-	7500	-	-	-	-	-	-	-	530	
1-Methylnaphthalene	90-12-0	ug/kg	18	140	10	-	19	< 4.1 U	9.2	5.6	< 7.9 U	3.9	< 7.4 U	5.3	
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	11	-	26	< 4.1 U	10	7.2	< 7.9 U	5.4	< 7.4 U	7.5	
Acenaphthene	83-32-9	ug/kg	360000	29000	42	-	55	< 4.1 U	37	9.7	< 7.9 U	11	< 7.4 U	14	
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	94	-	75	4.5	55	27	6.1 J	52	5.7 J	21	
ANTHRACENE	120-12-7	ug/kg	1800000	29000	580 J	-	350 J	21 J	210 J	59 J	16 J	250	16	43	
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	1900	-	840	62	600	160	58	630	56	240	
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	1800	-	830	38	620	170	61	610	60	330	
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	1700	-	860	59	390	210	79	650	59	-	
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	610	-	520	41 J	320	120	33	500	30	230	
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	560	-	410	33	280	86	27	470	25	190	
CHRYSENE	218-01-9	ug/kg	110000	1100	1600	-	780	41	560	180	50	550	48	340	
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	150	-	110	9.9	72	32	8.0	120	7.4	56	
FLUORANTHENE	206-44-0	ug/kg	240000	1100	4400	-	2000	82	1400	390	120	1300	150	-	
FLUORENE	86-73-7	ug/kg	240000	29000	86	-	80	3.0 J	49	22	< 7.9 U	31	< 7.4 U	16	
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	1100	-	620	49	380	140	42	370	39	200	
Naphthalene	91-20-3	ug/kg	2000	29000	50	-	61	< 4.1 U	36	24	< 7.9 U	13	< 7.4 U	12 EB	
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	< 8.4 UJ	-	< 9.0 UJ	< 8.3 UJ	< 9.7 UJ	< 11 UJ	< 16 U	< 7.6 UJ	< 15 UJ	< 10 U	
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	1600	-	870	38	560	160	48	410	45	250	
PYRENE	129-00-0	ug/kg	180000	1100	2600 EB	-	1400 EB	54 EB	940 EB	240 EB	81 EB	760 EB	68 EB	-	
Asbestos															
ASBESTOS	1332-21-4	%			< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0088-PLS1	23D-0089-PLS1	23D-0090-PLS1	23D-0091-PLS1	23D-0092-PLS1	23D-0093-PLS1	23D-0094-PLS1	23D-0095-PLS1	23D-0098-PLS1	23D-0099-PLS1
					Sample Name	23D-0088-PLS1-BS	23D-0089-PLS1-AS	23D-0090-PLS1-AS	23D-0091-PLS1-AS	23D-0092-B1S1-AS	23D-0093-PLS1-AS	23D-0094-PLS1-AS	23D-0095-PLS1-AS	23D-0098-PLS1-AS	23D-0099-PLS1-AS
					Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.6 ft	0 - 0.5 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	213 J	88.0 J	94.9 J	1530	714	673	372	795	595 J	652 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	3.96 J	1.70 J	1.83 J	26.8	13.4	13.0	8.46	15.4	11.8 J	13.7 J
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	2.76 J+	1.59 J+	1.31 JN	16.7	7.97	8.54	5.10	9.94	8.27 J+	6.92 J+
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	8.58 J	4.08 J	4.73 J	61.7 J	30.3 J	28.5 J	19.2 J	37.4 J	27.8 J	27.2 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	13.8	5.04	5.63	98.6	35.5	35.7	21.1	43.2	34.6	36.3
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	4.14 J	2.16 J	2.38 J	30.9	16.6	15.6	9.84	19.6	15.2 J	14.7 J
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	7.58	3.09	3.16	51.3	20.1	21.9	12.4	24.3	20.3	19.0
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 0.581 U	< 0.288 U	< 0.239 U	< 1.42 U	< 1.03 U	< 0.506 U	< 0.44 U	< 0.537 U	< 0.857 U	< 0.499 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	1.70 JN	0.631 JN	0.717 J	7.78 JN	3.53 JN	3.91 JN	2.65 JN	4.36 JN	3.56 JN	2.87 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	1.70 J	1.37 J	0.84 J	10.2	3.76	4.24	7.23	4.30	5.59	4.69
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	128 J	53.7 J	57.7 J	1090	433	417	215	504	365 J	340 J
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	3.94 JN	2.08 J	2.65 J	36.9	13.5	13.2	9.48	15.9	14.5 J	13.2 J
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	4.75 J	2.61 J	4.75 J	80.8	12.1	12.3	15.5	17.5	18.1 J	24.2 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	< 0.547 UJ	< 0.362 U	< 0.447 U	2.04	< 0.94 UJ	1.11	0.598 JN	1.04	0.841	1.20
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	1.90 J	3.52 J	2.11 J	24.9	5.63	5.94	17.3	8.53	8.72 J	8.72 J
OCDD	3268-87-9	pg/g	16000	10500	1410 J	554 J	598 J	9490	5230	4730	2510	5570	4030 J	5180 J
OCDF	39001-02-0	pg/g	16000	10500	136 J	55.5 J	55.2 J	785	469	467	227	503	371 J	375 J
Total HpCDD (a)	RA_Total_HpCDD	pg/g			213	88.0	94.9	1530	714	673	372	795	595	652
Total HpCDF (a)	RA_Total_HpCDF	pg/g			132	55.4	59.5	1120	446	430	223	519	377	354
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		24.1	9.72	10.1	167	63.6	66.1	38.6	77.4	63.2	62.2
Total HxCDF (a)	RA_Total_HxCDF	pg/g			16.7	8.32	9.76	130	60.4	57.3	38.5	72.9	57.5	55.1
Total PeCDD (a)	RA_Total_PeCDD	pg/g			1.70	0.631	0.717	7.78	3.53	3.91	2.65	4.36	3.56	2.87
Total PeCDF (a)	RA_Total_PeCDF	pg/g			6.45	3.98	5.59	91.0	15.9	16.5	22.7	21.8	23.7	28.9
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.547 U	< 0.362 U	< 0.447 U	2.04	< 0.94 U	1.11	0.598	1.04	0.841	1.20
Total TCDF (a)	RA_Total_TCDF	pg/g			1.90	3.52	2.11	24.9	5.63	5.94	17.3	8.53	8.72	8.72
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	41	0.617 J	0.518 J	1.51 J	3.60 J	6.28 J	4.42 J	4.27 J	37.8	6.40 J	119 J
PCB-002	2051-61-8	ng/g	230	41	< 0.0502 U	< 0.0525 U	< 0.0502 U	< 0.0528 U	< 0.0532 U	< 0.0541 U	< 0.0531 U	0.896 JEB	0.307 JEB	2.54 JEB
PCB-003	2051-62-9	ng/g	230	41	0.376 J	0.226 J	1.28 J	1.50 J	2.57 J	3.89 J	1.06 J	13.0 J	2.26 J	84.5 J
PCB-004/010	PCB-4/10	ng/g	230	41	1.53 J	1.53 J	7.92 J	32.9 J	13.2 J	9.67 J	19.9 J	73.9 J	33.1	251 J
PCB-005/008	PCB-5/8	ng/g	230	41	2.72 J	2.31 J	19.5	36.6	13.4 J	13.1 J	29.9	119 J	48.6 J	541 J
PCB-006	25569-80-6	ng/g	230	41	0.636 J	0.956 J	8.07 J	7.37 J	3.00 J	2.99 J	11.2 J	27.1	31.8	71.5 J
PCB-007/009	PCB-7/9	ng/g	230	41	< 0.0844 U	< 0.0883 U	1.23 J	2.60 J	< 0.0896 U	0.700 J	3.15 J	10.4 J	4.25 J	10.1 J
PCB-011	2050-67-1	ng/g	230	41	< 0.0465 U	< 0.0486 U	2.00 JEB	1.32 JEB	1.22 JEB	1.34 JEB	1.45 JEB	7.29 JEB	6.89 JEB	21.9 EB
PCB-012/013	PCB-12/13	ng/g	230	41	0.576 J	< 0.0875 U	8.34 J	4.28 J	4.98 J	5.04 J	4.78 J	26.0	24.6	53.7 J
PCB-014	34883-41-5	ng/g	230	41	< 0.0467 U	< 0.0488 U	< 0.0466 U	< 0.0491 U	< 0.0495 U	< 0.0503 U	< 0.0494 U	< 0.0488 U	< 0.0492 U	< 0.0493 U
PCB-015	2050-68-2	ng/g	230	41	6.99 J	3.55 J	77.7 J	97.0 J	28.9	52.1 J	26.1	257 J	145 J	1190 J
PCB-016/032	PCB-16/32	ng/g	230	41	5.50 JEB	2.76 JEB	46.0 JEB	59.6 JEB	12.2 JEB	19.7 JEB	47.4 JEB	198 JEB	137 JEB	1640 JEB
PCB-017	37680-66-3	ng/g	230	41	3.11 J	2.19 J	32.7	51.8 J	9.58 J	12.7 J	21.5	138 J	77.9 J	580 J
PCB-018	37680-65-2	ng/g	230	41	4.32 JEB	1.60 JEB	33.8 EB	65.4 JEB	7.19 JEB	7.71 JEB	25.0 EB	64.7 JEB	80.1 JEB	126 JEB
PCB-019	38444-73-4	ng/g	230	41	1.05 J	1.60 J	5.67 J	12.0 J	3.94 J	4.87 J	14.5 J	71.1 J	20.4	661 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	5.79 JEB	1.58 JEB	11.6 JEB	29.1 EB	3.10 JEB	3.23 JEB	11.5 JEB	17.6 JEB	30.9 EB	31.3 EB
PCB-022	38444-85-8	ng/g	230	41	4.43 J	0.794 J	14.1 J	46.2 J	4.89 J	5.75 J	11.2 J	21.4	45.3 J	59.9 J
PCB-023/034	PCB-23/34	ng/g	230	41	< 0.0842 U	< 0.0881 U	0.903 J	0.730 J	< 0.0894 U	< 0.0908 U	< 0.0892 U	3.28 J	2.87 J	11.2 J
PCB-024/027	PCB-24/27	ng/g	230	41	0.992 J	0.689 J	8.04 J	10.1 J	3.35 J	4.68 J	7.59 J	55.4 J	24.1	429 J
PCB-025	55712-37-3	ng/g	230	41	1.95 J	0.777 J	23.5	18.8 J	6.61 J	12.9 J	16.7 J	102 J	125 J	317 J
PCB-026	38444-81-4	ng/g	230	41	3.87 J	1.55 J	52.8 J	25.8	12.4 J	17.2 J	25.8	128 J	198 J	357 J
PCB-028	7012-37-5	ng/g	230	41	22.1 EB	4.47 JEB	155 JEB	557 JEB	30.5 EB	42.0 JEB	85.6 JEB	233 JEB	364 JEB	555 JEB
PCB-029	15862-07-4	ng/g	230	41	< 0.0487 U	< 0.0509 U	< 0.0487 U	< 0.0513 U	< 0.0517 U	< 0.0525 U	< 0.0516 U	< 0.0509 U	< 0.0514 U	< 0.0514 U
PCB-030	35693-92-6	ng/g	230	41	< 0.0446 U	< 0.0467 U	< 0.0446 U	< 0.0470 U	< 0.0473 U	< 0.0481 U	< 0.0472 U	< 0.0467 U	< 0.0471 U	0.635 J
PCB-031	16606-02-3	ng/g	230	41	13.3 JEB	3.33 JEB	93.7 JEB	217 JEB	25.4 EB	41.7 JEB	62.7 JEB	259 JEB	282 JEB	439 JEB
PCB-035	37680-69-6	ng/g	230	41	0.536 J+	< 0.0554 U	0.811 J+	3.33 J+	< 0.0562 U	< 0.0571 U	< 0.0561 U	0.958 J+	1.57 J+	2.45 J+
PCB-036	38444-87-0	ng/g	230	41	< 0.0452 U	< 0.0473 U	0.796 J	0.773 J	< 0.0479 U	< 0.0487 U	< 0.0478 U	1.60 J	2.22 J	3.89 J
PCB-037	38444-90-5	ng/g	230	41	19.7	1.99 J	33.4	172 J	11.8 J	13.1 J	19.8	38.4	57.1 J	63.6 J
PCB-038	53555-66-1	ng/g	230	41	0.844 J	< 0.0391 U	2.44 J	12.6 J	1.30 J	1.47 J	< 0.0396 U	6.58 J	6.31 J	23.8
PCB-039	38444-88-1	ng/g	230	41	< 0.0230 U	< 0.0240 U	< 0.0230 U	0.791 J	< 0.0244 U	< 0.0247 U	< 0.0243 U	1.07 J	1.08 J	7.05 J
PCB-040	38444-93-8	ng/g	230	41	4.78 J	0.806 J	16.1 J	25.4	2.46 J	2.63 J	10.3 J	17.1 J	36.5	25.5

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0088-PLS1	23D-0089-PLS1	23D-0090-PLS1	23D-0091-PLS1	23D-0092-PLS1	23D-0093-PLS1	23D-0094-PLS1	23D-0095-PLS1	23D-0098-PLS1	23D-0099-PLS1
				Sample Name	23D-0088-PLS1-BS	23D-0089-PLS1-AS	23D-0090-PLS1-AS	23D-0091-PLS1-AS	23D-0092-B1S1-AS	23D-0093-PLS1-AS	23D-0094-PLS1-AS	23D-0095-PLS1-AS	23D-0098-PLS1-AS	23D-0099-PLS1-AS
				Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 2 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.6 ft	0 - 0.5 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-041/064	PCB-41/64	ng/g	230	41	17.4 J	1.55 J	55.2 J	154 J	18.4 J	26.9	51.8 J	108 J	166 J	197 J
PCB-042	36559-22-5	ng/g	230	41	13.9 J	1.75 J	43.2 J	78.8 J	10.9 J	12.3 J	29.7	61.9 J	119 J	170 J
PCB-043/049	PCB-43/49	ng/g	230	41	43.8 J	6.35 J	147 J	445 J	53.7 J	68.6 J	130 J	301 J	459 J	991 J
PCB-044	41464-39-5	ng/g	230	41	30.7 EB	3.89 JEB	106 JEB	216 JEB	22.6 EB	22.3 EB	75.1 JEB	139 JEB	267 JEB	234 JEB
PCB-045	70362-45-7	ng/g	230	41	3.99 J	1.03 J	16.7 J	16.2 J	2.95 J	3.83 J	17.5 J	32.4	41.0 J	50.3 J
PCB-046	41464-47-5	ng/g	230	41	1.32 J	< 0.0509 U	5.61 J	5.94 J	< 0.0517 U	0.958 J	6.52 J	7.32 J	12.2 J	26.3
PCB-047/048/075	PCB-47/48/75	ng/g	230	41	29.3	4.57 J	91.6 J	460 J	47.1 J	55.3 J	88.7 J	251 J	244 J	919 J
PCB-050	62796-65-0	ng/g	230	41	< 0.0594 U	< 0.0622 U	0.732 J	< 0.0626 U	< 0.0631 U	< 0.0641 U	< 0.0629 U	2.81 J	2.00 J	12.9 J
PCB-051	68194-04-7	ng/g	230	41	2.06 J	0.780 J	9.93 J	10.5 J	2.35 J	3.86 J	9.98 J	38.7	25.2	221 J
PCB-052/073	PCB-52/73	ng/g	230	41	41.4 JEB	7.37 JEB	157 JEB	340 JEB	55.3 JEB	55.2 JEB	137 JEB	287 JEB	444 JEB	741 JEB
PCB-053	41464-41-9	ng/g	230	41	5.25 J	1.92 J	29.1	27.4	7.67 J	7.97 J	31.9	75.9 J	74.9 J	300 J
PCB-054	15968-05-5	ng/g	230	41	< 0.0394 U	< 0.0413 U	0.593 J	0.538 J	< 0.0418 U	0.321 J	1.06 J	3.55 J	1.67 J	18.5 J
PCB-055	74338-24-2	ng/g	230	41	1.03 J	< 0.0536 U	0.452 J	5.90 J	< 0.0544 U	< 0.0553 U	< 0.0543 U	0.871 J	1.43 J	1.03 J
PCB-056/060	PCB-56/60	ng/g	230	41	40.6 JEB	1.99 JEB	33.3 EB	261 JEB	13.2 JEB	16.0 JEB	37.4 EB	39.8 JEB	49.2 JEB	30.3 EB
PCB-057	70424-67-8	ng/g	230	41	0.382 J	< 0.0414 U	1.14 J	3.51 J	< 0.0420 U	< 0.0427 U	< 0.0419 U	4.04 J	6.16 J	15.5 J
PCB-058	41464-49-7	ng/g	230	41	< 0.0359 U	< 0.0376 U	0.488 J	0.910 J	< 0.0381 U	< 0.0387 U	< 0.0380 U	0.917 J	1.27 J	0.846 J
PCB-059	74472-33-6	ng/g	230	41	2.61 J	0.315 J	7.24 J	13.9 J	1.84 J	2.64 J	6.76 J	15.3 J	21.1	18.3 J
PCB-061/074	PCB-61/74	ng/g	230	41	21.3	1.66 J	39.3 J	675 J	21.3	19.8 J	46.3 J	56.8 J	70.9 J	74.6 J
PCB-062	54230-22-7	ng/g	230	41	< 0.0491 U	< 0.0513 U	< 0.0490 U	< 0.0516 U	< 0.0521 U	< 0.0529 U	< 0.0519 U	< 0.0513 U	< 0.0518 U	< 0.0518 U
PCB-063	74472-34-7	ng/g	230	41	1.95 J	< 0.0385 U	5.15 J	63.5 J	4.73 J	3.73 J	7.14 J	14.2 J	18.8 J	52.1 J
PCB-065	33284-54-7	ng/g	230	41	< 0.0707 U	< 0.0740 U	< 0.0707 U	< 0.0744 U	< 0.0750 U	< 0.0762 U	< 0.0749 U	< 0.0740 U	< 0.0746 U	0.460 J
PCB-066/080	PCB-66/80	ng/g	230	41	60.3 JEB	4.52 JEB	78.2 JEB	1080 JEB	36.7 EB	39.3 EB	76.3 JEB	95.1 JEB	125 JEB	94.7 JEB
PCB-067	73575-53-8	ng/g	230	41	2.10 J	< 0.0453 U	2.87 J	18.0 J	0.963 J	1.11 J	< 0.0459 U	4.43 J	6.75 J	5.06 J
PCB-068	73575-52-7	ng/g	230	41	< 0.0513 U	< 0.0536 U	< 0.0513 U	< 0.0540 U	0.823 J	1.74 J	< 0.0543 U	5.44 J	4.93 J	17.7 J
PCB-069	60233-24-1	ng/g	230	41	< 0.0533 U	< 0.0558 U	< 0.0533 U	0.962 J	< 0.0566 U	< 0.0575 U	< 0.0565 U	1.57 J	1.09 J	5.78 J
PCB-070	32598-11-1	ng/g	230	41	61.3 JEB	4.62 JEB	77.1 JEB	930 JEB	33.3 EB	33.4 EB	79.2 JEB	87.4 JEB	100 JEB	70.2 JEB
PCB-071	41464-46-4	ng/g	230	41	11.0 J	1.35 J	36.2	26.5	5.22 J	10.4 J	35.2	71.3 J	102 J	270 J
PCB-072	41464-42-0	ng/g	230	41	0.595 J	< 0.0604 U	1.92 J	6.87 J	1.58 J	2.04 J	< 0.0612 U	7.79 J	8.80 J	23.6
PCB-076	70362-48-0	ng/g	230	41	< 0.0709 U	< 0.0742 U	< 0.0709 U	< 0.0746 U	< 0.0752 U	< 0.0764 U	< 0.0751 U	< 0.0742 U	< 0.0748 U	< 0.0749 U
PCB-077	32598-13-3	ng/g	38.0	41	9.59 J	0.694 J	11.0 J	131 J	7.47 J+	7.87 J+	11.9 J+	15.6 J+	19.8 J	20.0 J
PCB-078	70362-49-1	ng/g	230	41	< 0.0363 U	< 0.0380 U	< 0.0363 U	1.82 J	< 0.0385 U	< 0.0391 U	< 0.0384 U	< 0.0380 U	0.866 J	1.07 J
PCB-079	41464-48-6	ng/g	230	41	< 0.0455 U	< 0.0476 U	< 0.0455 U	< 0.0479 U	< 0.0483 U	< 0.0491 U	< 0.0482 U	< 0.0476 U	1.15 J	< 0.0481 U
PCB-081	70362-50-4	ng/g	12.0	41	0.836 J	< R	0.850 J	15.9 J+	0.838 J+	0.698 J+	< 0.0753 U	1.56 J+	1.83 J	1.91 J
PCB-082	52663-62-4	ng/g	230	41	4.25 J	0.605 J	7.63 J	64.8 J	3.89 J	4.59 J	11.4 J	12.0 J	18.1 J	17.0 J
PCB-083/109	PCB-83/109	ng/g	230	41	1.58 J	< 0.117 U	3.65 J	30.4	2.80 J	2.92 J	5.33 J	9.54 J	12.4 J	16.3 J
PCB-084	52663-60-2	ng/g	230	41	6.19 J	1.27 J	17.9 J	65.8 J	8.04 J	8.90 J	21.3	36.2	50.4 J	49.6 J
PCB-085/120	PCB-85/120	ng/g	230	41	8.73 J	1.49 J	14.9 J	182 J	13.1 J	12.9 J	23.7	28.3	36.3	39.5 J
PCB-086/097	PCB-86/97	ng/g	230	41	8.98 J	1.41 J	16.6 J	200 J	11.3 J	11.3 J	24.5	29.6	35.5	31.6
PCB-087/115/116	PCB-87/115/116	ng/g	230	41	< 0.0285 U	1.67 J	< 0.0285 U	< 0.0300 U	< 0.0303 U	< 0.0307 U	< 0.0302 U	< 0.0298 U	< 0.0301 U	< 0.0301 U
PCB-088/121	PCB-88/121	ng/g	230	41	< 0.103 U	< 0.108 U	< 0.103 U	< 0.109 U	< 0.109 U	< 0.111 U	< 0.109 U	< 0.108 U	0.655 J	0.640 J
PCB-089/090/101	PCB-89/90/101	ng/g	230	41	22.3	4.12 J	42.3 J	591 J	37.4	37.3	64.9 J	95.3 J	101 J	119 J
PCB-091	68194-05-8	ng/g	230	41	5.62 J	1.10 J	14.4 J	88.2 J	10.4 J	12.4 J	20.2	41.6 J	47.8 J	79.7 J
PCB-092	52663-61-3	ng/g	230	41	4.20 J	0.969 J	9.55 J	68.4 J	10.1 J	10.4 J	14.8 J	32.9	35.9	64.7 J
PCB-093/095	PCB-93/95	ng/g	230	41	16.0 J	3.08 J	45.2 J	193 J	31.3	32.7	58.4 J	116 J	144 J	146 J
PCB-094	73575-55-0	ng/g	230	41	< 0.0852 U	< 0.0891 U	1.02 J	2.69 J	< 0.0904 U	0.877 J	1.45 J	3.78 J	3.41 J	8.66 J
PCB-096	73575-54-9	ng/g	230	41	0.436 J	< 0.0420 U	1.35 J	1.74 J	0.290 J	0.543 J	1.52 J	2.85 J	3.59 J	5.17 J
PCB-098/102	PCB-98/102	ng/g	230	41	1.59 J	< 0.0779 U	5.36 J	18.7 J	2.51 J	3.02 J	7.00 J	15.2 J	16.2 J	30.6
PCB-099	38380-01-7	ng/g	230	41	14.0 J	2.54 J	27.6	408 J	24.3	25.1	42.5 J	60.2 J	64.8 J	82.6 J
PCB-100	39485-83-1	ng/g	230	41	< 0.0454 U	< 0.0474 U	0.491 J	3.59 J	< 0.0481 U	0.832 J	0.888 J	2.70 J	2.09 J	6.82 J
PCB-103	60145-21-3	ng/g	230	41	0.298 J	< 0.0490 U	0.893 J	4.55 J	0.703 J	0.850 J	1.19 J	3.52 J	3.09 J	7.91 J
PCB-104	56558-16-8	ng/g	230	41	< 0.0433 U	< 0.0453 U	< 0.0433 U	< 0.0456 U	< 0.0460 U	< 0.0467 U	< 0.0459 U	< 0.0453 U	< 0.0457 U	0.504 J
PCB-105/127	PCB-105/127	ng/g	120	41	14.3 J	1.84 J	15.9 J	291 J	16.3 J	15.9 J	31.9	31.2	33.1	35.1
PCB-106/118	PCB-106/118	ng/g	120	41	24.7 J-	4.21 J-	37.4 J	857 J	40.0 J	39.6	62.8 J	81.6 J	82.0 J	94.1 J
PCB-107/108	PCB-107/108	ng/g	230	41	2.23 J	< 0.0943 U	3.42 J	73.1 J	3.76 J	3.54 J	5.90 J	7.70 J	8.53 J	10.5 J
PCB-110	38380-03-9	ng/g	230	41	30.3	6.11 J	67.6 J	581 J	56.6 J	65.6 J	93.4 J	185 J	216 J	266 J
PCB-111/117	PCB-111/117	ng/g	230	41	11.2 J	1.55 J	17.9 J	233 J	15.9 J	16.3 J	28.7	39.6 J	46.7 J	57.2 J
PCB-112	74472-36-9	ng/g	230	41	< 0.0446 U	< 0.0467 U	< 0.0446 U	2.21 J	< 0.0473 U	< 0.0481 U	< 0.0472 U	1.29 J	0.973 J	2.12 J
PCB-113	68194-10-5	ng/g	230	41	< 0.0468 U	< 0.0490 U	< 0.0468 U	2.57 J	< 0.0497 U	< 0.0505 U	< 0.0496 U	2.08 J	2.22 J	3.54 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0088-PLS1	23D-0089-PLS1	23D-0090-PLS1	23D-0091-PLS1	23D-0092-PLS1	23D-0093-PLS1	23D-0094-PLS1	23D-0095-PLS1	23D-0098-PLS1	23D-0099-PLS1
				Sample Name	23D-0088-PLS1-BS	23D-0089-PLS1-AS	23D-0090-PLS1-AS	23D-0091-PLS1-AS	23D-0092-B1S1-AS	23D-0093-PLS1-AS	23D-0094-PLS1-AS	23D-0095-PLS1-AS	23D-0098-PLS1-AS	23D-0099-PLS1-AS
				Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 2 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.6 ft	0 - 0.5 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-114	74472-37-0	ng/g	120	41	0.872 J-	< R	1.13 J-	39.0 J	1.56 J	1.45 J	< 0.0412 U	2.29 J	2.49 J-	3.33 J-
PCB-119	56558-17-9	ng/g	230	41	0.986 J	< 0.0538 U	2.14 J	23.2	2.44 J	2.61 J	3.32 J	8.18 J	8.71 J	15.7 J
PCB-122	76842-07-4	ng/g	230	41	0.555 J	< 0.0343 U	0.553 J	13.4 J	< 0.0348 U	0.710 J	< 0.0347 U	< 0.0343 U	1.04 J	1.28 J
PCB-123	65510-44-3	ng/g	120	41	0.948 J	< R	1.18 J	31.0 J+	1.78 J+	1.60 J+	2.83 J+	3.14 J+	3.03 J	4.25 J
PCB-124	70424-70-3	ng/g	230	41	1.05 J	< 0.0428 U	1.12 J	30.8	1.55 J	1.75 J	2.63 J	3.10 J	2.58 J	2.94 J
PCB-125	74472-39-2	ng/g	230	41	< 0.0448 U	< 0.0469 U	< 0.0448 U	1.72 J	< 0.0475 U	< 0.0483 U	< 0.0474 U	< 0.0469 U	0.658 J	1.03 J
PCB-126	57465-28-8	ng/g	0.0360	41	< 0.0637 UJ	< 0.0666 UJ	< 0.0637 UJ	8.14 J+	< 0.0676 U	< 0.0687 U	< 0.0674 U	< 0.0666 U	0.754 J	2.01 J
PCB-128	38380-07-3	ng/g	230	41	3.02 J	0.862 J	3.16 J	68.1 J	7.12 J	7.64 J	9.69 J	14.4 J	13.4 J	21.5
PCB-129	55215-18-4	ng/g	230	41	0.704 J	< 0.0517 U	0.751 J	17.4 J	1.40 J	1.52 J	2.20 J	3.10 J	2.70 J	4.16 J
PCB-130	52663-66-8	ng/g	230	41	0.967 J	< 0.0407 U	1.13 J	24.9	2.54 J	2.74 J	2.95 J	5.67 J	5.36 J	9.76 J
PCB-131/142	PCB-131/142	ng/g	230	41	< 0.0957 U	< 0.100 U	< 0.0957 U	4.31 J	0.394 J	< 0.103 U	< 0.101 U	1.09 J	1.05 J	1.72 J
PCB-132/168	PCB-132/168	ng/g	230	41	4.50 J	0.971 J	6.25 J	92.3 J	10.7 J	12.0 J	12.0 J	27.6	25.8	41.5 J
PCB-133	35694-04-3	ng/g	230	41	< 0.0348 U	< 0.0364 U	< 0.0348 U	5.22 J	0.630 J	< 0.0375 U	< 0.0369 U	1.89 J	1.47 J	3.20 J
PCB-134	52704-70-8	ng/g	230	41	0.695 J	< 0.0964 U	0.869 J	13.8 J	1.59 J	1.85 J	1.93 J	4.21 J	4.19 J	6.46 J
PCB-135/144	PCB-135/144	ng/g	230	41	1.79 J	0.355 J	2.63 J	38.2	4.49 J	4.94 J	5.41 J	13.1 J	11.5 J	20.4
PCB-136	38411-22-2	ng/g	230	41	1.34 J	0.274 J	2.18 J	20.7	3.15 J	3.60 J	3.95 J	8.87 J	8.52 J	12.9 J
PCB-137	35694-06-5	ng/g	230	41	0.935 J	< 0.0473 U	0.968 J	23.4	2.26 J	2.38 J	2.91 J	4.69 J	3.89 J	7.03 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	15.2 J	3.99 J	16.5 J	428 J	37.8	39.3	36.9	78.7 J	68.7 J	113 J
PCB-139/149	PCB-139/149	ng/g	230	41	7.93 J	2.07 J	11.8 J	193 J	21.0	22.9	24.2	54.0 J	48.9 J	80.9 J
PCB-140	59291-64-4	ng/g	230	41	< 0.0659 U	< 0.0689 U	< 0.0659 U	1.77 J	< 0.0699 U	< 0.0711 U	< 0.0698 U	< 0.0689 U	0.586 J	1.08 J
PCB-141	52712-04-6	ng/g	230	41	2.19 J	0.497 J	2.32 J	52.4 J	4.92 J	5.12 J	6.51 J	9.39 J	8.03 J	13.5 J
PCB-143	68194-15-0	ng/g	230	41	< 0.0594 U	< 0.0622 U	< 0.0594 U	0.992 J	< 0.0631 U	< 0.0641 U	< 0.0629 U	< 0.0622 U	< 0.0627 U	< 0.0628 U
PCB-145	74472-40-5	ng/g	230	41	< 0.0785 U	< 0.0821 U	< 0.0785 U	< 0.0826 U	< 0.0833 U	< 0.0846 U	< 0.0831 U	< 0.0821 U	< 0.0828 U	< 0.0829 U
PCB-146	51908-16-8	ng/g	230	41	1.47 J	0.399 J	2.00 J	37.5	3.83 J	4.02 J	4.26 J	9.70 J	8.43 J	15.0 J
PCB-147	68194-13-8	ng/g	230	41	0.388 J	< 0.0724 U	< 0.0692 U	8.81 J	1.18 J	1.31 J	1.09 J	3.05 J	2.53 J	5.66 J
PCB-148	74472-41-6	ng/g	230	41	< 0.0726 U	< 0.0759 U	< 0.0726 U	< 0.0764 U	< 0.0770 U	< 0.0782 U	< 0.0768 U	< 0.0759 U	< 0.0766 U	0.386 J
PCB-150	68194-08-1	ng/g	230	41	< 0.0733 U	< 0.0767 U	< 0.0733 U	0.266 J	< 0.0778 U	< 0.0790 U	< 0.0776 U	< 0.0767 U	0.124 J	0.385 J
PCB-151	52663-63-5	ng/g	230	41	1.83 J	0.436 J	3.02 J	22.9	4.89 J	5.31 J	6.24 J	13.6 J	12.4 J	21.1
PCB-152	68194-09-2	ng/g	230	41	< 0.0857 U	< 0.0897 U	< 0.0857 U	< 0.0902 U	< 0.0910 U	< 0.0924 U	< 0.0908 U	< 0.0897 U	0.197 J	0.658 J
PCB-153	35065-27-1	ng/g	230	41	8.99 J	2.41 J	10.4 J	247 J	22.5	23.7	24.0	46.5 J	39.9 J	67.9 J
PCB-154	60145-22-4	ng/g	230	41	< 0.0511 U	< 0.0535 U	< 0.0511 U	3.62 J	0.459 J	0.542 J	< 0.0541 U	1.99 J	1.54 J	3.02 J
PCB-155	33979-03-2	ng/g	230	41	< 0.0441 U	< 0.0461 U	< 0.0441 U	< 0.0464 U	< 0.0468 U	< 0.0475 U	< 0.0467 U	< 0.0461 U	< 0.0465 U	< 0.0465 U
PCB-156	38380-08-4	ng/g	120	41	1.37 J-	< R	1.37 J-	49.8 J	3.47 J	3.11 J	3.57 J	6.55 J	5.81 J-	10.9 J-
PCB-157	69782-90-7	ng/g	120	41	0.413 J	< R	0.348 J	12.6 J+	0.927 J+	1.14 J+	< 0.0545 U	1.96 J+	1.73 J	3.26 J
PCB-158/160	PCB-158/160	ng/g	230	41	1.46 J	0.308 J	1.45 J	38.3	3.28 J	3.55 J	3.88 J	7.09 J	6.47 J	11.7 J
PCB-159	39635-35-3	ng/g	230	41	< 0.0711 U	< 0.0744 U	< 0.0711 U	1.74 J	< 0.0754 U	< 0.0766 U	< 0.0753 U	< 0.0744 U	< 0.0750 U	0.782 J
PCB-161	74472-43-8	ng/g	230	41	< 0.0665 U	< 0.0695 U	< 0.0664 U	< 0.0700 U	< 0.0705 U	< 0.0717 U	< 0.0704 U	< 0.0695 U	< 0.0701 U	< 0.0702 U
PCB-162	39635-34-2	ng/g	230	41	< 0.0524 U	< 0.0548 U	< 0.0524 U	2.05 J	< 0.0556 U	< 0.0565 U	< 0.0555 U	< 0.0548 U	< 0.0553 U	0.696 J
PCB-165	74472-46-1	ng/g	230	41	< 0.0718 U	< 0.0751 U	< 0.0718 U	< 0.0756 U	< 0.0762 U	< 0.0774 U	< 0.0761 U	< 0.0751 U	< 0.0758 U	0.451 J
PCB-166	41411-63-6	ng/g	230	41	< 0.0618 U	< 0.0647 U	< 0.0618 U	2.38 J	< 0.0656 U	< 0.0667 U	< 0.0655 U	< 0.0647 U	< 0.0652 U	0.588 J
PCB-167	52663-72-6	ng/g	120	41	0.523 J-	< R	0.511 J-	17.5 J	1.62 J	1.49 J	< 0.0504 U	2.56 J	2.24 J-	4.29 J-
PCB-169	32774-16-6	ng/g	0.120	41	< R	< R	< R	< 0.0552 U	< 0.0556 U	< 0.0565 U	< 0.0555 U	< 0.0548 U	< R	< R
PCB-170/190	PCB-170/190	ng/g	230	41	2.50 J	0.606 J	2.85 J	72.9 J	5.75 J	6.20 J	7.21 J	13.1 J	12.3 J	27.0
PCB-171	52663-71-5	ng/g	230	41	0.565 J	< 0.0717 U	0.633 J	15.9 J	1.47 J	1.59 J	1.86 J	3.65 J	3.10 J	7.11 J
PCB-172/192	PCB-172/192	ng/g	230	41	0.280 J	< 0.119 U	0.353 J	8.46 J	0.724 J	0.726 J	1.07 J	1.77 J	1.62 J	3.65 J
PCB-173	68194-16-1	ng/g	230	41	< 0.0767 U	< 0.0802 U	< 0.0766 U	< 0.0807 U	< 0.0813 U	< 0.0826 U	< 0.0812 U	< 0.0802 U	< 0.0809 U	< 0.0810 U
PCB-174	38411-25-5	ng/g	230	41	2.03 J	0.454 J	2.48 J	53.5 J	4.48 J	4.84 J	6.23 J	10.4 J	9.57 J	20.8
PCB-175	40186-70-7	ng/g	230	41	< 0.0591 U	< 0.0618 U	< 0.0590 U	1.48 J	< 0.0627 U	< 0.0637 U	< 0.0625 U	0.408 J	0.376 J	1.08 J
PCB-176	52663-65-7	ng/g	230	41	0.165 J	< 0.0577 U	0.250 J	4.01 J	0.453 J	0.555 J	0.729 J	1.36 J	1.16 J	2.77 J
PCB-177	52663-70-4	ng/g	230	41	1.22 J	0.292 J	1.35 J	33.5	3.01 J	2.87 J	3.70 J	7.13 J	6.36 J	14.1 J
PCB-178	52663-67-9	ng/g	230	41	0.372 J	< 0.0904 U	0.498 J	12.2 J	0.922 J	1.12 J	1.34 J	2.81 J	2.44 J	5.58 J
PCB-179	52663-64-6	ng/g	230	41	0.700 J	0.161 J	0.989 J	13.1 J	1.62 J	1.72 J	2.42 J	4.39 J	3.78 J	8.47 J
PCB-180	35065-29-3	ng/g	230	41	4.35 J	1.06 J	5.25 J	105 J	9.56 J	9.63 J	13.9 J	21.9	19.0 J	47.6 J
PCB-181	74472-47-2	ng/g	230	41	< 0.0524 U	< 0.0548 U	< 0.0524 U	< 0.0552 U	< 0.0556 U	< 0.0565 U	< 0.0555 U	< 0.0548 U	< 0.0553 U	< 0.0553 U
PCB-182/187	PCB-182/187	ng/g	230	41	2.13 J	0.525 J	3.15 J	63.3 J	5.72 J	5.74 J	8.38 J	14.7 J	12.7 J	28.0
PCB-183	52663-69-1	ng/g	230	41	0.996 J	0.197 J	1.22 J	24.1	2.09 J	2.38 J	3.32 J	5.74 J	4.94 J	12.3 J
PCB-184	74472-48-3	ng/g	230	41	< 0.0496 U	< 0.0519 U	< 0.0496 U	< 0.0522 U	< 0.0527 U	< 0.0535 U	< 0.0525 U	< 0.0519 U	< 0.0523 U	< 0.0524 U
PCB-185	52712-05-7	ng/g	230	41	< 0.0687 U	< 0.0719 U	< 0.0687 U	6.52 J	0.533 J	0.465 J	0.721 J	1.26 J	1.11 J	2.37 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0088-PLS1	23D-0089-PLS1	23D-0090-PLS1	23D-0091-PLS1	23D-0092-PLS1	23D-0093-PLS1	23D-0094-PLS1	23D-0095-PLS1	23D-0098-PLS1	23D-0099-PLS1
				Sample Name	23D-0088-PLS1-BS	23D-0089-PLS1-AS	23D-0090-PLS1-AS	23D-0091-PLS1-AS	23D-0092-B1S1-AS	23D-0093-PLS1-AS	23D-0094-PLS1-AS	23D-0095-PLS1-AS	23D-0098-PLS1-AS	23D-0099-PLS1-AS
				Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 2 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.6 ft	0 - 0.5 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-186	74472-49-4	ng/g	230	41	< 0.0620 U	< 0.0649 U	< 0.0620 U	< 0.0653 U	< 0.0658 U	< 0.0669 U	< 0.0657 U	< 0.0649 U	< 0.0654 U	< 0.0655 U
PCB-188	74487-85-7	ng/g	230	41	< 0.0568 U	< 0.0595 U	< 0.0568 U	< 0.0598 U	< 0.0603 U	< 0.0613 U	< 0.0602 U	< 0.0594 U	< 0.0600 U	< 0.0600 U
PCB-189	39635-31-9	ng/g	130	41	< 0.0578 U	< 0.0604 U	< 0.0577 U	3.50 J	< 0.0613 U	< 0.0623 U	< 0.0612 U	0.674 J	0.570 J	1.28 J
PCB-191	74472-50-7	ng/g	230	41	< 0.0522 U	< 0.0546 U	< 0.0522 U	2.10 J	< 0.0554 U	< 0.0563 U	< 0.0553 U	0.419 J	0.352 J	0.904 J
PCB-193	69782-91-8	ng/g	230	41	< 0.0659 U	< 0.0689 U	0.255 J	7.12 J	0.495 J	0.477 J	0.610 J	1.24 J	1.04 J	2.37 J
PCB-194	35694-08-7	ng/g	230	41	1.13 J	< 0.0872 U	1.55 J	36.1	3.53 J	2.94 J	5.31 J	6.99 J	6.25 J	16.0 J
PCB-195	52663-78-2	ng/g	230	41	< 0.148 U	< 0.154 U	< 0.148 U	14.5 J	< 0.157 U	0.970 J	1.69 J	2.28 J	2.12 J	5.30 J
PCB-196/203	PCB-196/203	ng/g	230	41	1.40 J	0.329 J	1.54 J	37.3	3.17 J	3.07 J	6.46 J	7.70 J	6.26 J	16.6 J
PCB-197	33091-17-7	ng/g	230	41	< 0.0624 U	< 0.0653 U	< 0.0624 U	0.826 J	< 0.0662 U	< 0.0673 U	< 0.0661 U	< 0.0653 U	< 0.0658 U	0.383 J
PCB-198	68194-17-2	ng/g	230	41	< 0.101 U	< 0.106 U	< 0.101 U	1.93 J	< 0.107 U	< 0.109 U	< 0.107 U	< 0.106 U	< 0.107 U	< 0.107 U
PCB-199	52663-75-9	ng/g	230	41	1.20 J	0.254 J	1.32 J	34.5	2.99 J	2.86 J	6.36 J	6.53 J	5.37 J	13.9 J
PCB-200	52663-73-7	ng/g	230	41	< 0.0496 U	< 0.0519 U	< 0.0496 U	3.76 J	< 0.0527 U	< 0.0535 U	0.675 J	0.797 J	0.653 J	1.80 J
PCB-201	40186-71-8	ng/g	230	41	< 0.0393 U	< 0.0411 U	< 0.0392 U	2.75 J	< 0.0416 U	< 0.0423 U	0.607 J	0.652 J	0.535 J	1.71 J
PCB-202	2136-99-4	ng/g	230	41	< 0.0670 U	< 0.0701 U	< 0.0670 U	5.95 J	< 0.0711 U	< 0.0723 U	1.42 J	1.26 J	1.02 J	2.56 J
PCB-204	74472-52-9	ng/g	230	41	< 0.0820 U	< 0.0858 U	< 0.0820 U	< 0.0863 U	< 0.0870 U	< 0.0884 U	< 0.0868 U	< 0.0858 U	< 0.0865 U	< 0.0866 U
PCB-205	74472-53-0	ng/g	230	41	< 0.0581 U	< 0.0608 U	< 0.0581 U	2.39 J	< 0.0617 U	< 0.0627 U	< 0.0616 U	< 0.0608 U	< 0.0613 U	0.611 J
PCB-206	40186-72-9	ng/g	230	41	0.616 J	< 0.0583 U	0.541 J	18.5 J	1.93 J	1.70 J	12.7 J	3.71 J	3.24 J	6.87 J
PCB-207	52663-79-3	ng/g	230	41	< 0.0737 U	< 0.0771 U	< 0.0737 U	1.55 J	< 0.0782 U	< 0.0794 U	0.821 J	< 0.0771 U	0.278 J	0.613 J
PCB-208	52663-77-1	ng/g	230	41	0.208 J	< 0.0771 U	< 0.0737 U	4.85 J	0.647 J	0.564 J	5.43 J	0.905 J	0.915 J	1.87 J
PCB-209	2051-24-3	ng/g	230	41	0.458 J	< 0.0444 U	0.284 J	8.67 J	2.82 J	1.48 J	12.2 J	2.01 J	1.89 J	2.12 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0	0.458	< 0.0444 U	0.284	8.67	2.82	1.48	12.2	2.01	1.89	2.12
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0	15.3	3.30	19.3	427	36.8	38.3	51.5	91.0	80.4	185
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0	55.7	12.6	67.7	1430	140	148	152	320	285	484
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0	3.73	0.583	4.41	140	9.69	9.84	22.5	26.2	22.2	58.9
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14	766	126	2070	12600	1050	1190	2130	4960	5570	14200
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0	181	32.0	357	4110	296	314	531	855	984	1210
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0	12.5	8.35	125	182	64.7	84.9	96.5	521	294	2140
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0	0.993	0.744	2.79	5.10	8.85	8.31	5.33	51.7	8.97	206
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0	0.824	< 0.0771 U	0.541	24.9	2.58	2.26	19.0	4.62	4.43	9.35
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0	407	45.2	974	5010	351	399	890	1750	2430	4610
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0	87.5	23.3	515	1280	132	187	349	1340	1460	5310
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700		7200 J	12000 J	4900 J	6200 J	5600 J	6900 J	9900 J	9000 J	6700 J	6200 J
Calcium	7440-70-2	mg/kg			1200	2700	2800 J	3000	2500	2800	1900	3900	4300 J	2200 J
Iron	7439-89-6	mg/kg	5500		9500 J	23000 J	10000 J	10000 J	11000 J	16000 J	11000 J	17000 J	12000 J	12000 J
Magnesium	7439-95-4	mg/kg			2000 J	4600 J	2300 J	1400 J	2200 J	3300 J	2100 J	3700 J	4400 J	2600 J
Potassium	7440-09-7	mg/kg			< 530 U	< 530 U	450 J	< 770 U	< 520 U	< 520 U	< 660 U	< 600 U	460 J	560 J
Sodium	7440-23-5	mg/kg			< 530 U	< 530 U	< 580 U	< 770 U	< 520 U	< 520 U	< 660 U	< 600 U	< 810 U	< 690 U
Antimony	7440-36-0	mg/kg	3.1	0.27	0.11 J	0.75 J	0.32 J	1.3 J	0.41 J	0.72 J	1.2 J	0.69 J	0.69 J	0.50 J
Arsenic	7440-38-2	mg/kg	0.68	18	1.3	4.4	1.2	3.4	1.8	3.2	5.7	3.4	2.5	2.4
Barium	7440-39-3	mg/kg	1500	110	17	44	24 EB	71	29	44	63	55	39 EB	33 EB
Beryllium	7440-41-7	mg/kg	16	2.5	< 0.54 U	< 0.54 U	< 0.58 U	< 0.83 U	< 0.45 U	< 0.62 U	0.67 J+	< 0.60 U	< 0.83 U	< 0.64 U
Cadmium	7440-43-9	mg/kg	0.71	0.36	< 0.54 U	0.24 J	0.57 J-	0.54 J	0.22 J	0.47 J	0.56 J	0.35 J	0.34 J-	0.33 J-
Chromium, Total	7440-47-3	mg/kg	0.3	23	12	35	13 J	28	29	29	100	30	28 J	22 J
Cobalt	7440-48-4	mg/kg	2.3	13	5.7	4.0	3.7	3.2	4.0	6.6	5.6	5.9	4.2	4.8
Copper	7440-50-8	mg/kg	310	28	29	60	24 EB	36	17	30	110	36	38 EB	27 EB
Lead	7439-92-1	mg/kg	200	11	18	69	37	160	41	65	200	80	91	110
Manganese	7439-96-5	mg/kg	180	220	80 EB	71 EB	160 JEB	89 EB	170 EB	630 EB	190 EB	430 EB	150 JEB	150 JEB
Nickel	7440-02-0	mg/kg	140	38	6.1	6.2	7.8	11	18	9.1	12	12	9.9	8.1
Selenium	7782-49-2	mg/kg	39	0.52	< 2.7 U	< 2.7 U	< 2.9 U	< 4.2 U	< 2.3 U	1.0 J	1.3 J	< 3.0 U	< 4.2 U	1.2 J
Silver	7440-22-4	mg/kg	39	4.2	0.043 J	0.085 J	0.056 J	0.43 J	0.087 J	0.18 J	0.29 J	0.18 J	0.17 J	0.12 J
Thallium	7440-28-0	mg/kg	0.078	0.05	< 0.54 U	0.031 J	< 0.58 U	0.049 J	< 0.45 U	0.027 J	0.066 J	0.050 J	< 0.83 U	0.042 J
Vanadium	7440-62-2	mg/kg	39	7.8	16	14	10	26	15	17	20	20	17	14
Zinc	7440-66-6	mg/kg	2300	46	34 EB	78 EB	140 EB	120 EB	92 EB	120 EB	140 EB	81 EB	120 EB	80 EB
Mercury	7439-97-6	mg/kg	2.3	0.013	0.060 J	1.2	0.17	0.63	0.24	0.30	0.58	0.44	0.31	0.31

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0088-PLS1	23D-0089-PLS1	23D-0090-PLS1	23D-0091-PLS1	23D-0092-PLS1	23D-0093-PLS1	23D-0094-PLS1	23D-0095-PLS1	23D-0098-PLS1	23D-0099-PLS1
					Sample Name	23D-0088-PLS1-BS	23D-0089-PLS1-AS	23D-0090-PLS1-AS	23D-0091-PLS1-AS	23D-0092-B1S1-AS	23D-0093-PLS1-AS	23D-0094-PLS1-AS	23D-0095-PLS1-AS	23D-0098-PLS1-AS	23D-0099-PLS1-AS
					Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.6 ft	0 - 0.5 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 5.5 U	< 7.1 UJ	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 5.5 U	< 7.1 UJ	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 5.5 U	< 7.1 UJ	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 5.5 U	< 7.1 UJ	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 5.5 U	< 7.1 UJ	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 5.5 U	< 7.1 UJ	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 5.5 U	< 7.1 UJ	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 5.5 U	< 7.1 UJ	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
2-HEXANONE	591-78-6	ug/kg	20000	360	< 11 U	< 14 U	< 11 U	< 17 R	< 17 U	< 14 U	< 17 U	< 15 U	< 14 U	< 15 U
ACETONE	67-64-1	ug/kg	7000000	1200	60 EB	< 14 U	< 11 U	45 JEB	< 17 U	< 14 U	< 17 U	< 15 U	< 14 U	< 15 U
Benzene	71-43-2	ug/kg	1200	120	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
BROMOFORM	75-25-2	ug/kg	19000	70	< 5.5 U	< 7.1 UJ	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
BROMOMETHANE	74-83-9	ug/kg	680	2	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Chloroform	67-66-3	ug/kg	320	50	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Cyclohexane	110-82-7	ug/kg	650000		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Ethylbenzene	100-41-4	ug/kg	5800	270	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 5.5 U	< 7.1 UJ	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
METHYL ACETATE	79-20-9	ug/kg	7800000		17	14	< 5.7 U	9.8 J+	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	< 11 U	< 14 U	< 11 U	< 17 UJ	< 17 U	< 14 U	< 17 U	< 15 U	< 14 U	< 15 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 11 U	< 14 U	< 11 U	< 17 R	< 17 U	< 14 U	< 17 U	< 15 U	< 14 U	< 15 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Methylene Chloride	75-09-2	ug/kg	35000	210	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Styrene	100-42-5	ug/kg	600000	1200	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Toluene	108-88-3	ug/kg	490000	150	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 R	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U
Vinyl Chloride	75-01-4	ug/kg	59	30	< 5.5 U	< 7.1 U	< 5.7 U	< 8.7 UJ	< 8.4 U	< 7.0 U	< 8.5 U	< 7.7 U	< 7.2 U	< 7.3 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0088-PLS1	23D-0089-PLS1	23D-0090-PLS1	23D-0091-PLS1	23D-0092-PLS1	23D-0093-PLS1	23D-0094-PLS1	23D-0095-PLS1	23D-0098-PLS1	23D-0099-PLS1
					Sample Name	23D-0088-PLS1-BS	23D-0089-PLS1-AS	23D-0090-PLS1-AS	23D-0091-PLS1-AS	23D-0092-B1S1-AS	23D-0093-PLS1-AS	23D-0094-PLS1-AS	23D-0095-PLS1-AS	23D-0098-PLS1-AS	23D-0099-PLS1-AS
					Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.6 ft	0 - 0.5 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 81 U	< 90 U	< 85 U	< 120 U	< 92 U	< 99 U	< 100 U	< 110 U	< 100 U	< 95 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		97 JEB	150 JEB	220 J	330 JEB	270 JEB	140 JEB	120 JEB	210 JEB	130 JEB	100 JEB
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 400 U	< 450 U	< 420 U	270 JEB	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	-	-	450	510	-	290	350	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 210 U	< 230 U	< 220 U	120 J	140 J	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
Caprolactam	105-60-2	ug/kg	3100000		< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	-	-	-	240 J	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 210 U	< 230 U	< 220 U	68 J	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	-	570	810	670	-	460	480	-	-
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 400 U	< 450 U	< 420 U	< 600 U	< 450 U	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0088-PLS1	23D-0089-PLS1	23D-0090-PLS1	23D-0091-PLS1	23D-0092-PLS1	23D-0093-PLS1	23D-0094-PLS1	23D-0095-PLS1	23D-0098-PLS1	23D-0099-PLS1
					Sample Name	23D-0088-PLS1-BS	23D-0089-PLS1-AS	23D-0090-PLS1-AS	23D-0091-PLS1-AS	23D-0092-B1S1-AS	23D-0093-PLS1-AS	23D-0094-PLS1-AS	23D-0095-PLS1-AS	23D-0098-PLS1-AS	23D-0099-PLS1-AS
					Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 2 ft	0 - 1 ft	0 - 0.6 ft	0 - 0.3 ft	0 - 0.6 ft	0 - 0.5 ft	0 - 1 ft	0 - 0.3 ft	0 - 0.5 ft	0 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
Naphthalene	91-20-3	ug/kg	2000	29000	-	-	-	-	-	-	-	960	-	-
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 210 U	< 230 U	< 220 U	< 310 U	< 230 U	< 250 U	< 250 U	< 280 U	< 260 U	< 240 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	< 400 U	-	-	-	-	-	-	-	-	< 470 U
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	-	430	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	790	< 400 U	< 450 U	< 420 U	89 J	70 J	< 490 U	< 490 U	< 550 U	< 510 U	< 470 U
PYRENE	129-00-0	ug/kg	180000	1100	-	-	470	660	530	-	380	400	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	140	< 4.0 U	0.95 J	10	12	4.2 J	1.1 J	18	2.6 J	2.3 J	< 4.7 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	< 4.0 U	1.5 J	12	17	6.1	1.6 J	22	14	3.1 J	1.3 J
Acenaphthene	83-32-9	ug/kg	360000	29000	< 4.0 U	1.6 J	29 J	20	9.3	1.5 J	15	4.3 J	3.6 J	1.4 J
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	1.6 J	4.5	19	37	20	1.9 J	28	6.4	8.8	3.1 J
ANTHRACENE	120-12-7	ug/kg	1800000	29000	3.2 J	6.4	82	58	32	3.3 J	49	26	15	5.3
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	15	36	220	340	230	16	360	320	110	28
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	19	41	230	410	320	19	390	360	120	33
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	27	55	340	-	-	28	-	-	180	47
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	13	26	140	280	200	10	190	160	47	21
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	10	20	120	220	200	11	190	170	43	16
CHRYSENE	218-01-9	ug/kg	110000	1100	20	41	240	410	330	21	-	340	130	35
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	3.0 J	6.1	30	52	45	2.8 J	40	33	13	4.7
FLUORANTHENE	206-44-0	ug/kg	240000	1100	36	74	-	-	-	40	-	-	240	63
FLUORENE	86-73-7	ug/kg	240000	29000	0.87 J	2.3 J	37	21	11	1.7 J	17	5.5	4.9 J	1.7 J
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	11	22	110	250	190	9.6	180	150	44	16
Naphthalene	91-20-3	ug/kg	2000	29000	1.5 JEB	4.2 JEB	15	21 EB	10 EB	3.2 JEB	19 EB	-	5.0 JEB	2.5 JEB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	< 9.1 U	< 8.6 U	2.4 J	2.2 J	< 10 U	< 10 U	< 11 U	< 10 U	-
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	15	29	-	370	210	16	320	160	67	23
PYRENE	129-00-0	ug/kg	180000	1100	31	62	-	-	-	31	-	-	220	55 J
Asbestos														
ASBESTOS	1332-21-4	%			< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0101-PLS1	23D-0101-PLS1	23D-0102-PLS1	23D-0102-PLS1	23D-0103-B1S1	23D-0104-PLS1
				Sample Name	23D-0100-B2S1-AS	23D-0100-B2S1-BS	23D-0100-B2S1-AT	23D-0100-B2S1-BT	23D-0101-PLS1-AS	23D-0101-PLS1-BS	23D-0102-PLS1-AS	23D-0102-PLS1-BS	23D-0103-B1S1-AS	23D-0104-PLS1-AS
				Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/10/2023
				Sample Type	N	N	FD	FD	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	27.4 J	2.91 J	38.2 J	2.44 J	20.5 J	10.7 J	247 J	107 J	103 J	164
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	0.599 J	< 0.237 UJ	0.586 JN	< 0.229 UJ	< 0.217 UJ	< 0.295 UJ	4.37 J	1.32 JN	2.13 J	3.33
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	0.727 J+	0.496 JN	0.771 JN	< 0.226 U	0.567 J+	< 0.378 U	3.28 J+	1.78 J+	1.72 J+	2.28 J
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	1.38 J	0.31 J	1.81 J	< 4.9 UJ	0.904 J	0.648 JN	9.07 J	2.59 J	4.22 J	6.90 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	1.62 J	0.626 J	2.26 J	< 0.255 U	1.46 J	< 0.387 U	15.6	7.41	5.71	9.27
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	0.964 J	0.312 J	1.16 JN	0.248 JN	0.556 J	0.284 JN	4.64 J	1.70 J	2.28 J	3.63
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	0.893 JN	< 0.384 U	1.23 J	< 0.246 U	0.88 J	< 0.333 U	8.90	3.90	3.20	5.20
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 0.239 U	0.436 J	< 0.218 U	0.348 J	0.241 JN	< 0.261 U	< 0.293 U	< 0.295 U	< 0.198 U	< 0.323 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	< 0.233 UJ	< 0.265 UJ	< 0.294 UJ	< 0.239 UJ	< 0.27 UJ	< 0.323 UJ	1.55 JN	0.893 JN	0.695 JN	0.955 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	0.379 JN	0.25 JN	0.498 J	< 0.141 U	< 0.21 U	< 0.23 U	2.98	1.09 J	0.503 J	0.974 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	17.2 J	1.43 J	22.1 J	1.16 J	9.43 J	7.32 J	136 J	49.5 J	60.0 J	91.1
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	0.877 JN	< 0.284 UJ	1.26 J	< 0.256 UJ	0.509 J	< 0.218 UJ	4.72 J	1.70 J	2.27 J	3.28
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	0.868 J	0.287 JN	0.994 J	0.192 JN	1.09 J	< 0.225 UJ	8.82 J	2.84 J	1.98 J	4.09
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	< 0.227 U	< 0.367 U	< 0.347 U	< 0.381 U	< 0.332 U	< 0.49 UJ	< 0.313 U	< 0.424 U	< 0.404 U	< 0.277 U
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	0.476 JN	< 0.152 UJ	0.944 J	< 0.144 UJ	1.07 J	< 0.232 UJ	8.08 J	2.44 J	0.891 J	1.79
OCDD	3268-87-9	pg/g	16000	10500	213 J	25.6 J	300 J	23.0 J	121 J	68.7 J	1410 J	570 J	732 J	1180
OCDF	39001-02-0	pg/g	16000	10500	17.8 J	1.44 JN	23.3 J	1.4 J	7.92 J	5.98 J	122 J	44.4 J	69.3 J	99.7
Total HpCDD (a)	RA_Total_HpCDD	pg/g			27.4	2.91	38.2	2.44	20.5	10.7	247	107	103	164
Total HpCDF (a)	RA_Total_HpCDF	pg/g			17.8	1.43	22.7	1.16	9.43	7.32	140	50.8	62.1	94.4
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		3.24	1.12	4.26	< 0.255 U	2.91	< 0.387 U	27.8	13.1	10.6	16.8
Total HxCDF (a)	RA_Total_HxCDF	pg/g			3.22	1.06	4.23	0.596	2.21	0.932	18.4	5.99	8.77	13.8
Total PeCDD (a)	RA_Total_PeCDD	pg/g			< 0.233 U	< 0.265 U	< 0.294 U	< 0.239 U	< 0.27 U	< 0.323 U	1.55	0.893	0.695	0.955
Total PeCDF (a)	RA_Total_PeCDF	pg/g			1.25	0.537	1.49	0.192	1.09	< 0.23 U	11.8	3.93	2.48	5.06
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.227 U	< 0.367 U	< 0.347 U	< 0.381 U	< 0.332 U	< 0.49 U	< 0.313 U	< 0.424 U	< 0.404 U	< 0.277 U
Total TCDF (a)	RA_Total_TCDF	pg/g			0.476	< 0.152 U	0.944	< 0.144 U	1.07	< 0.232 U	8.08	2.44	0.891	1.79
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	41	< 0.0359 U	< 0.0371 U	0.151 J	0.800 J	0.411 J	0.237 J	1.59 J	0.772 J	0.600 J	1.97 J
PCB-002	2051-61-8	ng/g	230	41	< 0.0517 U	< 0.0535 U	< 0.0535 U	< 0.0530 U	< 0.0501 U	< 0.0507 U	< 0.0484 U	< 0.0531 U	< 0.0534 U	< 0.0512 U
PCB-003	2051-62-9	ng/g	230	41	< 0.0504 U	< 0.0521 U	< 0.0521 U	0.398 J	< 0.0488 U	< 0.0494 U	0.390 J	< 0.0517 U	0.241 J	0.988 J
PCB-004/010	PCB-4/10	ng/g	230	41	0.185 J	< 0.0932 U	0.546 J	2.34 J	2.32 J	0.819 J	15.7 J	3.59 J	1.96 J	6.48 J
PCB-005/008	PCB-5/8	ng/g	230	41	0.236 J	< 0.0891 U	0.727 J	1.08 J	1.93 J	0.688 J	10.4 J	5.45 J	1.87 J	15.2 J
PCB-006	25569-80-6	ng/g	230	41	< 0.0502 U	< 0.0519 U	< 0.0519 U	0.218 J	1.07 J	0.303 J	8.58 J	3.98 J	0.617 J	9.36 J
PCB-007/009	PCB-7/9	ng/g	230	41	< 0.0870 U	< 0.0901 U	< 0.0900 U	< 0.0892 U	< 0.0843 U	< 0.0853 U	1.35 J	0.949 J	< 0.0899 U	0.977 J
PCB-011	2050-67-1	ng/g	230	41	< 0.0479 U	< 0.0496 U	< 0.0495 U	< 0.0491 U	< 0.0464 U	< 0.0470 U	1.45 JEB	0.538 JEB	< 0.0495 U	2.14 JEB
PCB-012/013	PCB-12/13	ng/g	230	41	< 0.0863 U	< 0.0893 U	< 0.0892 U	< 0.0884 U	0.502 J	< 0.0846 U	3.82 J	1.33 J	< 0.0891 U	9.16 J
PCB-014	34883-41-5	ng/g	230	41	< 0.0481 U	< 0.0498 U	< 0.0497 U	< 0.0493 U	< 0.0466 U	< 0.0472 U	< 0.0450 U	< 0.0494 U	< 0.0497 U	< 0.0476 U
PCB-015	2050-68-2	ng/g	230	41	0.470 J	< 0.0456 U	1.45 J	2.23 J	2.34 J	0.955 J	13.2 J	3.61 J	2.27 J	59.8 JEB
PCB-016/032	PCB-16/32	ng/g	230	41	< 0.125 U	< 0.130 U	0.821 JEB	3.18 JEB	7.19 JEB	2.25 JEB	46.8 JEB	12.0 JEB	2.32 JEB	32.7 EB
PCB-017	37680-66-3	ng/g	230	41	< 0.0552 U	< 0.0571 U	0.758 J	2.15 J	3.85 J	1.56 J	29.7	7.72 J	3.08 J	18.3 JEB
PCB-018	37680-65-2	ng/g	230	41	< 0.0638 U	< 0.0660 U	0.769 JEB	< 0.0653 U	4.57 JEB	2.00 JEB	43.3 JEB	10.1 JEB	1.85 JEB	24.0 EB
PCB-019	38444-73-4	ng/g	230	41	< 0.0433 U	< 0.0448 U	0.176 J	2.79 J	2.17 J	0.702 J	10.6 J	3.16 J	0.672 J	4.69 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	< 0.134 U	< 0.138 U	2.23 JEB	< 0.137 U	2.26 JEB	0.704 JEB	16.2 JEB	4.60 JEB	< 0.138 U	14.1 JEB
PCB-022	38444-85-8	ng/g	230	41	< 0.0475 U	< 0.0492 U	0.459 J	< 0.0487 U	1.88 J	0.714 J	14.2 J	3.99 J	0.444 J	17.9 JEB
PCB-023/034	PCB-23/34	ng/g	230	41	< 0.0869 U	< 0.0899 U	< 0.0898 U	< 0.0890 U	< 0.0841 U	< 0.0851 U	0.959 J	< 0.0891 U	< 0.0897 U	0.902 J
PCB-024/027	PCB-24/27	ng/g	230	41	< 0.0844 U	< 0.0873 U	0.204 J	1.07 J	1.26 J	0.461 J	6.39 J	1.80 J	0.569 J	6.77 J
PCB-025	55712-37-3	ng/g	230	41	< 0.0489 U	< 0.0506 U	0.235 J	0.399 J	3.64 J	1.26 J	26.8	9.75 J	1.58 J	28.6
PCB-026	38444-81-4	ng/g	230	41	< 0.0416 U	< 0.0431 U	0.536 J	0.683 J	6.20 J	2.08 J	42.6 J	13.0 J	2.19 J	47.2 J
PCB-028	7012-37-5	ng/g	230	41	0.437 JEB	< 0.0474 U	2.36 JEB	< 0.0469 U	16.2 JEB	5.80 JEB	106 JEB	27.6 EB	6.19 JEB	99.4 JEB
PCB-029	15862-07-4	ng/g	230	41	< 0.0502 U	< 0.0519 U	< 0.0519 U	< 0.0514 U	< 0.0486 U	< 0.0492 U	< 0.0470 U	< 0.0515 U	< 0.0518 U	< 0.0497 U
PCB-030	35693-92-6	ng/g	230	41	< 0.0460 U	< 0.0476 U	< 0.0476 U	< 0.0471 U	< 0.0446 U	< 0.0451 U	< 0.0431 U	< 0.0472 U	< 0.0475 U	< 0.0455 U
PCB-031	16606-02-3	ng/g	230	41	0.410 JEB	< 0.0598 U	1.93 JEB	0.505 JEB	11.1 JEB	4.28 JEB	79.7 JEB	20.7 EB	4.65 JEB	65.5 JEB
PCB-035	37680-69-6	ng/g	230	41	< 0.0546 U	< 0.0565 U	< 0.0565 U	< 0.0559 U	< 0.0529 U	< 0.0535 U	0.460 J+	< 0.0560 U	< 0.0564 U	0.715 J+
PCB-036	38444-87-0	ng/g	230	41	< 0.0466 U	< 0.0482 U	< 0.0482 U	< 0.0477 U	< 0.0451 U	< 0.0457 U	0.673 J	< 0.0478 U	< 0.0481 U	< 0.0461 U
PCB-037	38444-90-5	ng/g	230	41	< 0.0512 U	< 0.0529 U	1.03 J	< 0.0524 U	2.82 J	0.980 J	19.0	4.14 J	1.28 J	27.3
PCB-038	53555-66-1	ng/g	230	41	< 0.0386 U	< 0.0399 U	< 0.0399 U	< 0.0395 U	< 0.0374 U	< 0.0378 U	1.99 J	< 0.0396 U	< 0.0398 U	1.74 J
PCB-039	38444-88-1	ng/g	230	41	< 0.0237 U	< 0.0245 U	< 0.0245 U	< 0.0242 U	< 0.0229 U	< 0.0232 U	< 0.0222 U	< 0.0243 U	< 0.0244 U	< 0.0234 U
PCB-040	38444-93-8	ng/g	230	41	< 0.0395 U	< 0.0409 U	0.233 J	< 0.0405 U	2.24 J	0.747 J	15.0 J	4.26 J	< 0.0408 U	10.7 JEB

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0101-PLS1	23D-0101-PLS1	23D-0102-PLS1	23D-0102-PLS1	23D-0103-B1S1	23D-0104-PLS1
				Sample Name	23D-0100-B2S1-AS	23D-0100-B2S1-BS	23D-0100-B2S1-AT	23D-0100-B2S1-BT	23D-0101-PLS1-AS	23D-0101-PLS1-BS	23D-0102-PLS1-AS	23D-0102-PLS1-BS	23D-0103-B1S1-AS	23D-0104-PLS1-AS
				Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/10/2023
				Sample Type	N	N	FD	FD	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-041/064	PCB-41/64	ng/g	230	41	0.264 J	< 0.0928 U	0.860 J	< 0.0919 U	7.28 J	2.67 J	45.1 J	9.04 J	2.21 J	30.8 EB
PCB-042	36559-22-5	ng/g	230	41	< 0.0987 U	< 0.102 U	0.624 J	< 0.101 U	5.35 J	1.79 J	34.8	9.95 J	1.67 J	31.7
PCB-043/049	PCB-43/49	ng/g	230	41	1.03 J	0.165 J	2.25 J	1.46 J	18.4 J	6.00 J	123 J	33.8	9.40 J	109 JEB
PCB-044	41464-39-5	ng/g	230	41	0.518 JEB	< 0.0543 U	1.39 JEB	< 0.0538 U	14.7 JEB	4.75 JEB	98.0 JEB	26.7 EB	3.75 JEB	78.2 JEB
PCB-045	70362-45-7	ng/g	230	41	< 0.0429 U	< 0.0444 U	< 0.0444 U	< 0.0440 U	2.41 J	0.680 J	16.3 J	4.58 J	< 0.0444 U	11.9 JEB
PCB-046	41464-47-5	ng/g	230	41	< 0.0502 U	< 0.0519 U	< 0.0519 U	< 0.0514 U	0.993 J	< 0.0492 U	5.65 J	1.92 J	< 0.0518 U	3.32 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	41	0.891 J	6.48	1.87 J	1.25 J	11.0 J	3.78 J	74.3 J	19.8	7.64 J	61.7 JEB
PCB-050	62796-65-0	ng/g	230	41	< 0.0613 U	< 0.0634 U	< 0.0634 U	< 0.0628 U	< 0.0594 U	< 0.0601 U	0.455 J	< 0.0629 U	< 0.0633 U	< 0.0606 U
PCB-051	68194-04-7	ng/g	230	41	< 0.0521 U	< 0.0539 U	< 0.0539 U	0.443 J	1.47 J	0.436 J	7.84 J	2.44 J	0.263 J	6.05 J
PCB-052/073	PCB-52/73	ng/g	230	41	1.21 JEB	0.174 JEB	2.36 JEB	1.26 JEB	20.8 EB	7.04 JEB	139 JEB	37.0 EB	8.34 JEB	111 JEB
PCB-053	41464-41-9	ng/g	230	41	< 0.0464 U	< 0.0480 U	0.313 J	0.735 J	4.43 J	1.34 J	26.9	8.02 J	1.11 J	17.2 JEB
PCB-054	15968-05-5	ng/g	230	41	< 0.0407 U	< 0.0421 U	< 0.0420 U	< 0.0417 U	< 0.0394 U	< 0.0399 U	0.624 J	0.155 J	< 0.0420 U	0.343 J
PCB-055	74338-24-2	ng/g	230	41	< 0.0529 U	< 0.0547 U	< 0.0547 U	< 0.0542 U	< 0.0512 U	< 0.0518 U	0.706 J	< 0.0542 U	< 0.0546 U	0.775 J
PCB-056/060	PCB-56/60	ng/g	230	41	0.452 JEB	< 0.107 U	1.23 JEB	< 0.106 U	5.24 JEB	2.08 JEB	35.6 EB	6.50 JEB	1.56 JEB	20.7 EB
PCB-057	70424-67-8	ng/g	230	41	< 0.0408 U	< 0.0423 U	< 0.0422 U	< 0.0419 U	< 0.0396 U	< 0.0400 U	1.25 J	< 0.0419 U	< 0.0422 U	1.37 J
PCB-058	41464-49-7	ng/g	230	41	< 0.0370 U	< 0.0383 U	< 0.0383 U	< 0.0379 U	< 0.0359 U	< 0.0363 U	0.471 J	< 0.0380 U	< 0.0382 U	< 0.0366 U
PCB-059	74472-33-6	ng/g	230	41	< 0.0725 U	< 0.0750 U	0.129 J	< 0.0743 U	0.713 J	0.317 J	4.69 J	1.44 J	0.237 J	6.08 J
PCB-061/074	PCB-61/74	ng/g	230	41	0.290 J	< 0.0985 U	0.941 J	< 0.0976 U	4.87 J	1.93 J	32.3	6.39 J	2.05 J	23.3 EB
PCB-062	54230-22-7	ng/g	230	41	< 0.0506 U	< 0.0523 U	< 0.0523 U	< 0.0518 U	< 0.0490 U	< 0.0496 U	< 0.0473 U	< 0.0519 U	< 0.0522 U	< 0.0500 U
PCB-063	74472-34-7	ng/g	230	41	< 0.0380 U	< 0.0393 U	< 0.0393 U	< 0.0389 U	0.752 J	0.283 J	4.87 J	1.24 J	0.620 J	4.24 J
PCB-065	33284-54-7	ng/g	230	41	< 0.0729 U	< 0.0754 U	< 0.0754 U	< 0.0747 U	< 0.0706 U	< 0.0715 U	< 0.0683 U	< 0.0748 U	< 0.0753 U	< 0.0721 U
PCB-066/080	PCB-66/80	ng/g	230	41	0.919 JEB	< 0.0956 U	2.15 JEB	< 0.0947 U	10.1 JEB	3.47 JEB	63.6 JEB	13.3 JEB	4.02 JEB	43.2 JEB
PCB-067	73575-53-8	ng/g	230	41	< 0.0447 U	< 0.0462 U	< 0.0462 U	< 0.0458 U	0.342 J	< 0.0438 U	2.27 J	< 0.0458 U	< 0.0461 U	2.15 J
PCB-068	73575-52-7	ng/g	230	41	< 0.0529 U	< 0.0547 U	< 0.0547 U	< 0.0542 U	< 0.0512 U	< 0.0518 U	< 0.0495 U	< 0.0542 U	< 0.0546 U	< 0.0523 U
PCB-069	60233-24-1	ng/g	230	41	< 0.0550 U	< 0.0569 U	< 0.0569 U	< 0.0563 U	< 0.0533 U	< 0.0539 U	< 0.0515 U	< 0.0564 U	< 0.0568 U	< 0.0544 U
PCB-070	32598-11-1	ng/g	230	41	0.983 JEB	< 0.0513 U	2.48 JEB	< 0.0508 U	10.6 JEB	3.51 JEB	71.4 JEB	14.6 JEB	3.68 JEB	37.5 EB
PCB-071	41464-46-4	ng/g	230	41	0.183 J	< 0.0695 U	0.449 J	0.308 J	5.14 J	1.66 J	31.0	8.32 J	0.991 J	25.5 EB
PCB-072	41464-42-0	ng/g	230	41	< 0.0596 U	< 0.0616 U	< 0.0616 U	< 0.0610 U	0.279 J	< 0.0584 U	1.98 J	0.615 J	0.301 J	1.83 J
PCB-076	70362-48-0	ng/g	230	41	< 0.0731 U	< 0.0756 U	< 0.0756 U	< 0.0749 U	< 0.0708 U	< 0.0717 U	< 0.0684 U	< 0.0750 U	< 0.0755 U	< 0.0723 U
PCB-077	32598-13-3	ng/g	38.0	41	< R	< R	0.331 J	< R	1.27 J	0.601 J	9.16 J	2.36 J	0.819 J	7.97 J+
PCB-078	70362-49-1	ng/g	230	41	< 0.0374 U	< 0.0387 U	< 0.0387 U	< 0.0383 U	< 0.0362 U	< 0.0367 U	0.320 J	< 0.0384 U	< 0.0386 U	< 0.0370 U
PCB-079	41464-48-6	ng/g	230	41	< 0.0470 U	< 0.0486 U	< 0.0486 U	< 0.0481 U	< 0.0455 U	< 0.0460 U	0.442 J	< 0.0482 U	< 0.0485 U	< 0.0464 U
PCB-081	70362-50-4	ng/g	12.0	41	< R	< R	< R	< R	< R	< R	0.958 J	< R	< R	< 0.0725 U
PCB-082	52663-62-4	ng/g	230	41	< 0.0269 U	< 0.0278 U	< 0.0278 U	< 0.0276 U	1.26 J	0.380 J	7.97 J	2.01 J	0.534 J	5.18 J
PCB-083/109	PCB-83/109	ng/g	230	41	< 0.116 U	< 0.120 U	< 0.120 U	< 0.119 U	0.656 J	< 0.113 U	4.09 J	1.18 J	0.485 J	3.09 J
PCB-084	52663-60-2	ng/g	230	41	< 0.0466 U	< 0.0482 U	0.307 J	< 0.0477 U	2.78 J	0.972 J	17.9	5.21 J	1.31 J	11.9 J
PCB-085/120	PCB-85/120	ng/g	230	41	< 0.104 U	< 0.107 U	0.466 J	< 0.106 U	2.40 J	0.937 J	16.9 J	4.24 J	1.65 J	10.8 J
PCB-086/097	PCB-86/97	ng/g	230	41	< 0.0456 U	< 0.0472 U	0.379 J	< 0.0467 U	2.44 J	0.907 J	16.3 J	4.46 J	1.41 J	10.1 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	41	< 0.0294 U	< 0.0304 U	< 0.0304 U	< 0.0301 U	< 0.0285 U	< 0.0288 U	< 0.0275 U	< 0.0302 U	< 0.0304 U	< 0.0291 U
PCB-088/121	PCB-88/121	ng/g	230	41	< 0.106 U	< 0.110 U	< 0.110 U	< 0.109 U	< 0.103 U	< 0.104 U	< 0.0995 U	< 0.109 U	< 0.110 U	< 0.105 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	41	1.17 J	< 0.119 U	1.35 J	< 0.118 U	6.32 J	2.23 J	43.2 J	11.8 J	5.04 J	27.0
PCB-091	68194-05-8	ng/g	230	41	< 0.0596 U	< 0.0616 U	0.287 J	< 0.0610 U	2.29 J	0.824 J	14.7 J	4.35 J	1.50 J	10.8 J
PCB-092	52663-61-3	ng/g	230	41	< 0.0262 U	< 0.0271 U	0.250 J	< 0.0268 U	1.57 J	0.607 J	10.7 J	3.16 J	1.56 J	8.41 J
PCB-093/095	PCB-93/95	ng/g	230	41	0.726 J	< 0.0796 UJ	0.895 J	< 0.0788 UJ	6.90 J	2.51 J	44.9 J	12.8 J	4.57 J	33.0 EB
PCB-094	73575-55-0	ng/g	230	41	< 0.0878 U	< 0.0908 U	< 0.0908 U	< 0.0900 U	< 0.0851 U	< 0.0861 U	0.991 J	< 0.0901 U	< 0.0907 U	1.00 J
PCB-096	73575-54-9	ng/g	230	41	< 0.0414 U	< 0.0429 U	< 0.0428 U	< 0.0424 U	0.209 J	< 0.0406 U	1.27 J	0.356 J	< 0.0428 U	0.789 J
PCB-098/102	PCB-98/102	ng/g	230	41	< 0.0767 U	< 0.0794 U	< 0.0794 U	< 0.0786 U	0.838 J	< 0.0752 U	4.91 J	1.45 J	< 0.0792 U	3.73 J
PCB-099	38380-01-7	ng/g	230	41	0.677 J	< 0.0438 U	0.883 J	< 0.0434 U	3.97 J	1.36 J	27.4	7.55 J	3.32 J	17.3 J
PCB-100	39485-83-1	ng/g	230	41	< 0.0468 U	< 0.0484 U	< 0.0484 U	< 0.0479 U	< 0.0453 U	< 0.0458 U	0.503 J	< 0.0480 U	< 0.0483 U	< 0.0463 U
PCB-103	60145-21-3	ng/g	230	41	< 0.0483 U	< 0.0500 U	< 0.0499 U	< 0.0495 U	< 0.0468 U	< 0.0473 U	0.812 J	< 0.0495 U	< 0.0499 U	0.797 J
PCB-104	56558-16-8	ng/g	230	41	< 0.0447 U	< 0.0462 U	< 0.0462 U	< 0.0458 U	< 0.0433 U	< 0.0438 U	< 0.0418 U	< 0.0458 U	< 0.0461 U	< 0.0442 U
PCB-105/127	PCB-105/127	ng/g	120	41	0.466 J	< 0.0784 U	0.599 J	< 0.0776 U	2.79 J	1.20 J	19.0	3.93 J	1.94 J	11.1 J
PCB-106/118	PCB-106/118	ng/g	120	41	1.23 J-	< R	1.40 J-	< R	5.64 J-	2.23 J-	38.8 J	8.94 J-	4.86 J-	25.7
PCB-107/108	PCB-107/108	ng/g	230	41	< 0.0930 U	< 0.0962 U	< 0.0961 U	< 0.0952 U	0.477 J	< 0.0911 U	3.59 J	0.823 J	0.500 J	2.53 J
PCB-110	38380-03-9	ng/g	230	41	1.67 J	< 0.0448 U	2.02 J	< 0.0444 U	11.0 J	4.05 J	72.7 J	20.2	9.00 J	54.6 JEB
PCB-111/117	PCB-111/117	ng/g	230	41	< 0.132 U	< 0.136 U	0.558 J	< 0.135 U	3.00 J	1.02 J	20.3	5.29 J	1.92 J	13.2 J
PCB-112	74472-36-9	ng/g	230	41	< 0.0460 U	< 0.0476 U	< 0.0476 U	< 0.0471 U	< 0.0446 U	< 0.0451 U	0.270 J	< 0.0472 U	< 0.0475 U	< 0.0455 U
PCB-113	68194-10-5	ng/g	230	41	< 0.0483 U	< 0.0500 U	< 0.0499 U	< 0.0495 U	< 0.0468 U	< 0.0473 U	0.504 J	< 0.0495 U	< 0.0499 U	< 0.0478 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0101-PLS1	23D-0101-PLS1	23D-0102-PLS1	23D-0102-PLS1	23D-0103-B1S1	23D-0104-PLS1
				Sample Name	23D-0100-B2S1-AS	23D-0100-B2S1-BS	23D-0100-B2S1-AT	23D-0100-B2S1-BT	23D-0101-PLS1-AS	23D-0101-PLS1-BS	23D-0102-PLS1-AS	23D-0102-PLS1-BS	23D-0103-B1S1-AS	23D-0104-PLS1-AS
				Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/10/2023
				Sample Type	N	N	FD	FD	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-114	74472-37-0	ng/g	120	41	< R	< R	< R	< R	< R	< R	1.22 J-	< R	< R	0.853 J
PCB-119	56558-17-9	ng/g	230	41	< 0.0531 U	< 0.0549 U	< 0.0549 U	< 0.0544 U	0.380 J	< 0.0520 U	2.37 J	0.666 J	0.462 J	2.00 J
PCB-122	76842-07-4	ng/g	230	41	< 0.0338 U	< 0.0350 U	< 0.0349 U	< 0.0346 U	< 0.0327 U	< 0.0331 U	0.730 J	< 0.0347 U	< 0.0349 U	< 0.0334 U
PCB-123	65510-44-3	ng/g	120	41	< R	< R	< R	< R	< R	< R	1.40 J	0.336 J	< R	0.959 J+
PCB-124	70424-70-3	ng/g	230	41	< 0.0422 U	< 0.0436 U	< 0.0436 U	< 0.0432 U	< 0.0409 U	< 0.0414 U	1.69 J	0.326 J	< 0.0436 U	< 0.0417 U
PCB-125	74472-39-2	ng/g	230	41	< 0.0462 U	< 0.0478 U	< 0.0478 U	< 0.0473 U	< 0.0448 U	< 0.0453 U	< 0.0432 U	< 0.0474 U	< 0.0477 U	< 0.0457 U
PCB-126	57465-28-8	ng/g	0.0360	41	< 0.0657 UJ	< 0.0679 UJ	< 0.0679 UJ	< 0.0673 UJ	< 0.0636 UJ	< 0.0644 UJ	< 0.0615 UJ	< 0.0674 UJ	< 0.0678 UJ	< 0.0649 U
PCB-128	38380-07-3	ng/g	230	41	< 0.0464 U	< 0.0480 U	0.227 J	< 0.0475 U	0.526 J	0.175 J	4.57 J	1.34 J	0.904 J	3.92 J
PCB-129	55215-18-4	ng/g	230	41	< 0.0510 U	< 0.0527 U	< 0.0527 U	< 0.0522 U	< 0.0494 U	< 0.0500 U	1.06 J	< 0.0523 U	< 0.0526 U	0.727 J
PCB-130	52663-66-8	ng/g	230	41	< 0.0401 U	< 0.0415 U	< 0.0415 U	< 0.0411 U	< 0.0388 U	< 0.0393 U	1.75 J	< 0.0411 U	< 0.0414 U	1.41 J
PCB-131/142	PCB-131/142	ng/g	230	41	< 0.0987 U	< 0.102 U	< 0.102 U	< 0.101 U	< 0.0956 U	< 0.0967 U	0.280 J	< 0.101 U	< 0.102 U	< 0.0976 U
PCB-132/168	PCB-132/168	ng/g	230	41	0.351 J	< 0.120 U	0.375 J	< 0.119 U	1.05 J	0.413 J	7.77 J	2.25 J	1.47 J	6.44 J
PCB-133	35694-04-3	ng/g	230	41	< 0.0359 U	< 0.0371 U	< 0.0371 U	< 0.0368 U	< 0.0348 U	< 0.0352 U	0.430 J	< 0.0368 U	< 0.0371 U	< 0.0355 U
PCB-134	52704-70-8	ng/g	230	41	< 0.0951 U	< 0.0983 U	< 0.0983 U	< 0.0974 U	< 0.0921 U	< 0.0932 U	1.15 J	< 0.0975 U	< 0.0982 U	< 0.0940 U
PCB-135/144	PCB-135/144	ng/g	230	41	< 0.0998 U	< 0.103 U	< 0.103 U	< 0.102 U	0.500 J	< 0.0979 U	3.58 J	0.998 J	0.585 J	2.87 J
PCB-136	38411-22-2	ng/g	230	41	< 0.0832 U	< 0.0861 U	< 0.0861 U	< 0.0853 U	0.354 J	0.119 J	2.54 J	0.776 J	0.434 J	2.05 J
PCB-137	35694-06-5	ng/g	230	41	< 0.0466 U	< 0.0482 U	< 0.0482 U	< 0.0477 U	< 0.0451 U	< 0.0457 U	1.32 J	< 0.0478 U	< 0.0481 U	0.987 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	1.33 J	< 0.154 UJ	1.35 J	< 0.153 UJ	2.91 J	1.20 J	22.7 J	6.35 J	5.25 J	18.9
PCB-139/149	PCB-139/149	ng/g	230	41	0.644 J	< 0.142 U	0.714 J	< 0.141 U	1.93 J	0.744 J	14.5 J	4.19 J	3.08 J	12.2 J
PCB-140	59291-64-4	ng/g	230	41	< 0.0680 U	< 0.0703 U	< 0.0703 U	< 0.0696 U	< 0.0658 U	< 0.0666 U	< 0.0636 U	< 0.0697 U	< 0.0702 U	< 0.0672 U
PCB-141	52712-04-6	ng/g	230	41	< 0.0477 U	< 0.0494 U	< 0.0494 U	< 0.0489 U	0.450 J	< 0.0468 U	3.34 J	0.926 J	0.565 J	2.28 J
PCB-143	68194-15-0	ng/g	230	41	< 0.0613 U	< 0.0634 U	< 0.0634 U	< 0.0628 U	< 0.0594 U	< 0.0601 U	< 0.0574 U	< 0.0629 U	< 0.0633 U	< 0.0606 U
PCB-145	74472-40-5	ng/g	230	41	< 0.0809 U	< 0.0837 U	< 0.0837 U	< 0.0829 U	< 0.0784 U	< 0.0793 U	< 0.0758 U	< 0.0830 U	< 0.0836 U	< 0.0801 U
PCB-146	51908-16-8	ng/g	230	41	< 0.0548 U	< 0.0567 U	< 0.0567 U	< 0.0561 U	0.288 J	< 0.0537 U	2.65 J	0.748 J	0.637 J	2.06 J
PCB-147	68194-13-8	ng/g	230	41	< 0.0714 U	< 0.0739 U	< 0.0738 U	< 0.0731 U	< 0.0692 U	< 0.0700 U	0.599 J	< 0.0732 U	< 0.0737 U	0.523 J
PCB-148	74472-41-6	ng/g	230	41	< 0.0748 U	< 0.0774 U	< 0.0774 U	< 0.0767 U	< 0.0725 U	< 0.0734 U	< 0.0700 U	< 0.0768 U	< 0.0773 U	< 0.0740 U
PCB-150	68194-08-1	ng/g	230	41	< 0.0756 U	< 0.0782 U	< 0.0782 U	< 0.0774 U	< 0.0732 U	< 0.0741 U	< 0.0708 U	< 0.0776 U	< 0.0781 U	< 0.0748 U
PCB-151	52663-63-5	ng/g	230	41	< 0.0548 U	< 0.0567 U	< 0.0567 U	< 0.0561 U	0.534 J	0.173 J	3.58 J	1.05 J	0.702 J	2.98 J
PCB-152	68194-09-2	ng/g	230	41	< 0.0884 U	< 0.0914 U	< 0.0914 U	< 0.0905 U	< 0.0856 U	< 0.0866 U	< 0.0827 U	< 0.0907 U	< 0.0913 U	< 0.0874 U
PCB-153	35065-27-1	ng/g	230	41	0.827 J	< 0.0498 U	0.817 J	< 0.0493 U	1.82 J	0.676 J	14.1 J	4.07 J	3.27 J	10.9 J
PCB-154	60145-22-4	ng/g	230	41	< 0.0527 U	< 0.0545 U	< 0.0545 U	< 0.0540 U	< 0.0510 U	< 0.0516 U	0.382 J	< 0.0541 U	< 0.0544 U	< 0.0521 U
PCB-155	33979-03-2	ng/g	230	41	< 0.0454 U	< 0.0470 U	< 0.0470 U	< 0.0465 U	< 0.0440 U	< 0.0445 U	< 0.0425 U	< 0.0466 U	< 0.0469 U	< 0.0449 U
PCB-156	38380-08-4	ng/g	120	41	< R	< R	< R	< R	0.202 J-	< R	1.90 J-	0.420 J-	0.454 J-	1.66 J
PCB-157	69782-90-7	ng/g	120	41	< R	< R	< R	< R	< R	< R	0.590 J	< R	< R	0.409 J+
PCB-158/160	PCB-158/160	ng/g	230	41	< 0.116 U	< 0.120 U	< 0.120 U	< 0.119 U	0.234 J	< 0.114 U	2.17 J	0.509 J	0.439 J	1.66 J
PCB-159	39635-35-3	ng/g	230	41	< 0.0733 U	< 0.0758 U	< 0.0758 U	< 0.0751 U	< 0.0710 U	< 0.0719 U	< 0.0686 U	< 0.0752 U	< 0.0757 U	< 0.0725 U
PCB-161	74472-43-8	ng/g	230	41	< 0.0685 U	< 0.0709 U	< 0.0709 U	< 0.0702 U	< 0.0664 U	< 0.0672 U	< 0.0641 U	< 0.0703 U	< 0.0708 U	< 0.0678 U
PCB-162	39635-34-2	ng/g	230	41	< 0.0540 U	< 0.0559 U	< 0.0559 U	< 0.0553 U	< 0.0523 U	< 0.0530 U	< 0.0506 U	< 0.0554 U	< 0.0558 U	< 0.0534 U
PCB-165	74472-46-1	ng/g	230	41	< 0.0741 U	< 0.0766 U	< 0.0766 U	< 0.0759 U	< 0.0718 U	< 0.0726 U	< 0.0693 U	< 0.0760 U	< 0.0765 U	< 0.0733 U
PCB-166	41411-63-6	ng/g	230	41	< 0.0638 U	< 0.0660 U	< 0.0659 U	< 0.0653 U	< 0.0618 U	< 0.0625 U	< 0.0597 U	< 0.0654 U	< 0.0658 U	< 0.0631 U
PCB-167	52663-72-6	ng/g	120	41	< R	< R	< R	< R	< R	< R	0.819 J-	< R	< R	0.634 J
PCB-169	32774-16-6	ng/g	0.120	41	< R	< R	< R	< R	< R	< R	< R	< R	< R	< 0.0534 U
PCB-170/190	PCB-170/190	ng/g	230	41	< 0.0890 U	< 0.0920 U	< 0.0920 U	< 0.0911 U	0.698 J	< 0.0872 U	4.59 J	1.26 J	0.929 J	3.48 J
PCB-171	52663-71-5	ng/g	230	41	< 0.0706 U	< 0.0731 U	< 0.0730 U	< 0.0724 U	< 0.0684 U	< 0.0692 U	1.15 J	0.332 J	< 0.0729 U	0.785 J
PCB-172/192	PCB-172/192	ng/g	230	41	< 0.117 U	< 0.121 U	< 0.121 U	< 0.120 U	< 0.114 U	< 0.115 U	0.666 J	< 0.120 U	< 0.121 U	0.443 J
PCB-173	68194-16-1	ng/g	230	41	< 0.0790 U	< 0.0818 U	< 0.0817 U	< 0.0810 U	< 0.0766 U	< 0.0775 U	< 0.0740 U	< 0.0811 U	< 0.0816 U	< 0.0782 U
PCB-174	38411-25-5	ng/g	230	41	< 0.0991 U	< 0.102 U	0.144 J	< 0.101 U	0.444 J	0.171 J	3.85 J	1.12 J	0.696 J	2.57 J
PCB-175	40186-70-7	ng/g	230	41	< 0.0609 U	< 0.0630 U	< 0.0630 U	< 0.0624 U	< 0.0590 U	< 0.0597 U	0.148 J	< 0.0625 U	< 0.0629 U	< 0.0602 U
PCB-176	52663-65-7	ng/g	230	41	< 0.0569 U	< 0.0589 U	< 0.0588 U	< 0.0583 U	< 0.0551 U	< 0.0558 U	0.416 J	0.133 J	< 0.0587 U	0.270 J
PCB-177	52663-70-4	ng/g	230	41	< 0.0710 U	< 0.0735 U	< 0.0734 U	< 0.0727 U	0.283 J	< 0.0696 U	2.37 J	0.778 J	0.476 J	1.74 J
PCB-178	52663-67-9	ng/g	230	41	< 0.0891 U	< 0.0922 U	< 0.0922 U	< 0.0913 U	< 0.0864 U	< 0.0874 U	0.896 J	0.237 J	0.174 J	0.631 J
PCB-179	52663-64-6	ng/g	230	41	< 0.0471 U	< 0.0488 U	< 0.0488 U	< 0.0483 U	0.190 J	< 0.0462 U	1.43 J	0.420 J	0.255 J	1.01 J
PCB-180	35065-29-3	ng/g	230	41	0.350 J	< 0.0650 U	0.342 J	< 0.0643 U	1.22 J	0.430 J	8.36 J	2.43 J	1.62 J	5.66 J
PCB-181	74472-47-2	ng/g	230	41	< 0.0540 U	< 0.0559 U	< 0.0559 U	< 0.0553 U	< 0.0523 U	< 0.0530 U	< 0.0506 U	< 0.0554 U	< 0.0558 U	< 0.0534 U
PCB-182/187	PCB-182/187	ng/g	230	41	< 0.142 U	< 0.147 U	0.192 J	< 0.145 U	0.662 J	0.237 J	4.63 J	1.34 J	0.972 J	3.30 J
PCB-183	52663-69-1	ng/g	230	41	< 0.0706 U	< 0.0731 U	< 0.0730 U	< 0.0724 U	0.222 J	< 0.0692 U	1.91 J	0.487 J	0.299 J	1.28 J
PCB-184	74472-48-3	ng/g	230	41	< 0.0512 U	< 0.0529 U	< 0.0529 U	< 0.0524 U	< 0.0496 U	< 0.0501 U	< 0.0479 U	< 0.0525 U	< 0.0528 U	< 0.0506 U
PCB-185	52712-05-7	ng/g	230	41	< 0.0708 U	< 0.0733 U	< 0.0732 U	< 0.0726 U	< 0.0686 U	< 0.0694 U	0.415 J	< 0.0727 U	< 0.0731 U	< 0.0700 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0101-PLS1	23D-0101-PLS1	23D-0102-PLS1	23D-0102-PLS1	23D-0103-B1S1	23D-0104-PLS1
				Sample Name	23D-0100-B2S1-AS	23D-0100-B2S1-BS	23D-0100-B2S1-AT	23D-0100-B2S1-BT	23D-0101-PLS1-AS	23D-0101-PLS1-BS	23D-0102-PLS1-AS	23D-0102-PLS1-BS	23D-0103-B1S1-AS	23D-0104-PLS1-AS
				Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/10/2023
				Sample Type	N	N	FD	FD	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-186	74472-49-4	ng/g	230	41	< 0.0639 U	< 0.0662 U	< 0.0661 U	< 0.0655 U	< 0.0620 U	< 0.0627 U	< 0.0599 U	< 0.0656 U	< 0.0660 U	< 0.0633 U
PCB-188	74487-85-7	ng/g	230	41	< 0.0586 U	< 0.0606 U	< 0.0606 U	< 0.0600 U	< 0.0568 U	< 0.0574 U	< 0.0549 U	< 0.0601 U	< 0.0605 U	< 0.0580 U
PCB-189	39635-31-9	ng/g	130	41	< 0.0596 U	< 0.0616 U	< 0.0616 U	< 0.0610 U	< 0.0577 U	< 0.0584 U	< 0.0557 U	< 0.0611 U	< 0.0615 U	< 0.0589 U
PCB-191	74472-50-7	ng/g	230	41	< 0.0538 U	< 0.0557 U	< 0.0557 U	< 0.0551 U	< 0.0521 U	< 0.0528 U	0.159 J	< 0.0552 U	< 0.0556 U	< 0.0532 U
PCB-193	69782-91-8	ng/g	230	41	< 0.0680 U	< 0.0703 U	< 0.0703 U	< 0.0696 U	< 0.0658 U	< 0.0666 U	0.432 J	< 0.0697 U	< 0.0702 U	0.237 J
PCB-194	35694-08-7	ng/g	230	41	< 0.0859 U	< 0.0889 U	< 0.0888 U	< 0.0880 U	< 0.0832 U	< 0.0842 U	2.54 J	0.992 J	< 0.0887 U	1.97 J
PCB-195	52663-78-2	ng/g	230	41	< 0.152 U	< 0.157 U	< 0.157 U	< 0.156 U	< 0.147 U	< 0.149 U	0.901 J	< 0.156 U	< 0.157 U	0.631 J
PCB-196/203	PCB-196/203	ng/g	230	41	< 0.144 U	< 0.149 U	< 0.149 U	< 0.148 U	< 0.140 U	< 0.141 U	2.66 J	0.896 J	< 0.149 U	2.08 J
PCB-197	33091-17-7	ng/g	230	41	< 0.0643 U	< 0.0666 U	< 0.0665 U	< 0.0659 U	< 0.0623 U	< 0.0631 U	< 0.0602 U	< 0.0660 U	< 0.0664 U	< 0.0636 U
PCB-198	68194-17-2	ng/g	230	41	< 0.104 U	< 0.108 U	< 0.108 U	< 0.107 U	< 0.101 U	< 0.102 U	< 0.0977 U	< 0.107 U	< 0.108 U	< 0.103 U
PCB-199	52663-75-9	ng/g	230	41	< 0.100 U	< 0.104 U	< 0.104 U	< 0.103 U	< 0.0973 U	< 0.0984 U	2.31 J	0.909 J	< 0.104 U	1.77 J
PCB-200	52663-73-7	ng/g	230	41	< 0.0512 U	< 0.0529 U	< 0.0529 U	< 0.0524 U	< 0.0496 U	< 0.0501 U	0.280 J	< 0.0525 U	< 0.0528 U	< 0.0506 U
PCB-201	40186-71-8	ng/g	230	41	< 0.0405 U	< 0.0419 U	< 0.0419 U	< 0.0415 U	< 0.0392 U	< 0.0397 U	0.229 J	< 0.0415 U	< 0.0418 U	< 0.0400 U
PCB-202	2136-99-4	ng/g	230	41	< 0.0691 U	< 0.0715 U	< 0.0715 U	< 0.0708 U	< 0.0669 U	< 0.0677 U	0.423 J	< 0.0709 U	< 0.0714 U	< 0.0683 U
PCB-204	74472-52-9	ng/g	230	41	< 0.0846 U	< 0.0875 U	< 0.0875 U	< 0.0866 U	< 0.0819 U	< 0.0829 U	< 0.0792 U	< 0.0868 U	< 0.0873 U	< 0.0836 U
PCB-205	74472-53-0	ng/g	230	41	< 0.0599 U	< 0.0620 U	< 0.0620 U	< 0.0614 U	< 0.0581 U	< 0.0588 U	< 0.0561 U	< 0.0615 U	< 0.0619 U	< 0.0593 U
PCB-206	40186-72-9	ng/g	230	41	< 0.0575 U	< 0.0594 U	< 0.0594 U	< 0.0589 U	< 0.0557 U	< 0.0563 U	1.37 J	0.412 J	0.218 J	0.829 J
PCB-207	52663-79-3	ng/g	230	41	< 0.0760 U	< 0.0786 U	< 0.0786 U	< 0.0778 U	< 0.0736 U	< 0.0745 U	< 0.0711 U	< 0.0779 U	< 0.0785 U	< 0.0751 U
PCB-208	52663-77-1	ng/g	230	41	< 0.0760 U	< 0.0786 U	< 0.0786 U	< 0.0778 U	< 0.0736 U	< 0.0745 U	0.371 J	< 0.0779 U	< 0.0785 U	< 0.0751 U
PCB-209	2051-24-3	ng/g	230	41	< 0.0437 U	< 0.0452 U	< 0.0452 U	< 0.0448 U	< 0.0423 U	< 0.0429 U	0.791 J	0.247 J	0.217 J	0.438 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0	< 0.0437 U	< 0.0452 U	< 0.0452 U	< 0.0448 U	< 0.0423 U	< 0.0429 U	0.791	0.247	0.217	0.438
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0	0.350	< 0.147 U	0.678	< 0.145 U	3.72	0.838	31.4	8.54	5.42	21.4
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0	3.15	< 0.154 U	3.48	< 0.153 U	10.8	3.50	91.8	23.6	17.8	72.6
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0	< 0.152 U	< 0.157 U	< 0.157 U	< 0.156 U	< 0.147 U	< 0.149 U	9.34	2.80	< 0.157 U	6.45
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14	17.9	6.82	45.5	23.3	270	92.4	1860	486	145	1500
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0	5.94	< 0.136 U	9.39	< 0.135 U	54.9	19.2	375	99.1	40.1	255
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0	0.891	< 0.0932 U	2.72	5.87	8.16	2.77	54.5	19.4	6.72	103
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0	< 0.0517 U	< 0.0535 U	0.151	1.20	0.411	0.237	1.98	0.772	0.841	2.96
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0	< 0.076 U	< 0.0786 U	< 0.0786 U	< 0.0778 U	< 0.0736 U	< 0.0745 U	1.74	0.412	0.218	0.829
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0	6.74	6.82	17.6	5.46	128	43.1	848	212	48.7	647
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0	0.847	< 0.138 U	11.5	10.8	63.1	22.8	445	119	24.8	390
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700		9500 J	4400 J	7300 J	6600 J	6400 J	4400 J	6800 J	5100 J	6200 J	< 21 U
Calcium	7440-70-2	mg/kg			2100 J	1500 J	1900 J	2300 J	1700 J	1900 J	1700 J	2000 J	1800 J	< 520 UJ
Iron	7439-89-6	mg/kg	5500		10000 J	6400 J	7600 J	11000 J	11000 J	10000 J	11000 J	12000 J	10000 J	< 10 U
Magnesium	7439-95-4	mg/kg			3600 J	1900 J	2400 J	3400 J	2400 J	2100 J	2800 J	2100 J	2900 J	< 520 UJ
Potassium	7440-09-7	mg/kg			440 J	430 J	410 J	480 J	400 J	350 J	500 J	420 J	440 J	< 520 U
Sodium	7440-23-5	mg/kg			< 630 U	< 540 U	< 580 U	< 550 U	< 580 U	< 560 U	< 540 U	< 560 U	< 540 U	< 520 U
Antimony	7440-36-0	mg/kg	3.1	0.27	0.089 J	0.045 J	0.16 J	0.040 J	0.15 J	0.048 J	0.85 J	0.20 J	0.13 J	0.33 J
Arsenic	7440-38-2	mg/kg	0.68	18	0.96	2.1	1.4	2.4	1.3	1.6	2.4	3.0	1.3	0.93
Barium	7440-39-3	mg/kg	1500	110	28 EB	13 EB	30 EB	13 EB	20 EB	14 EB	25 EB	28 EB	23 EB	45 EB
Beryllium	7440-41-7	mg/kg	16	2.5	< 0.62 U	< 0.50 U	< 0.59 U	< 0.54 U	< 0.57 U	< 0.54 U	< 0.55 U	< 0.58 U	< 0.55 U	< 0.54 U
Cadmium	7440-43-9	mg/kg	0.71	0.36	< 0.62 UJ	< 0.50 UJ	< 0.59 UJ	< 0.54 UJ	< 0.57 UJ	< 0.54 UJ	< 0.55 UJ	< 0.58 UJ	< 0.55 UJ	< 0.54 UJ
Chromium, Total	7440-47-3	mg/kg	0.3	23	21 J	9.7 J	28 J	10 J	18 J	9.5 J	23 J	16 J	10 J	13 JEB
Cobalt	7440-48-4	mg/kg	2.3	13	3.9	3.8	3.5	4.0	2.7	3.4	2.9	6.5	3.7	4.2 J
Copper	7440-50-8	mg/kg	310	28	27 EB	10 EB	38 EB	8.2 EB	11 EB	6.9 EB	24 EB	13 EB	9.8 EB	16 JEB
Lead	7439-92-1	mg/kg	200	11	15	5.3	24	4.4	22	4.1	83	22	14	38 J
Manganese	7439-96-5	mg/kg	180	220	81 JEB	73 JEB	74 JEB	79 JEB	92 JEB	190 JEB	75 JEB	320 JEB	150 JEB	140 JEB
Nickel	7440-02-0	mg/kg	140	38	6.2	6.0	6.3	6.8	4.1	5.5	5.8	6.5	5.7	8.1
Selenium	7782-49-2	mg/kg	39	0.52	0.97 J	0.84 J	0.94 J	0.69 J	1.1 J	< 2.7 U	0.70 J	0.73 J	< 2.7 U	0.91 J
Silver	7440-22-4	mg/kg	39	4.2	0.040 J	0.018 J	0.058 J	0.014 J	0.030 J	0.014 J	0.054 J	0.033 J	0.030 J	0.044 J
Thallium	7440-28-0	mg/kg	0.078	0.05	< 0.62 U	< 0.50 U	0.025 J	< 0.54 U	< 0.57 U	< 0.54 U	< 0.55 U	< 0.58 U	< 0.55 U	< 0.54 U
Vanadium	7440-62-2	mg/kg	39	7.8	17	14	17	16	11	14	13	18	13	11 J
Zinc	7440-66-6	mg/kg	2300	46	31 EB	21 EB	33 EB	21 EB	25 EB	19 EB	44 EB	43 EB	30 EB	57 JEB
Mercury	7439-97-6	mg/kg	2.3	0.013	0.060 J	< 0.10 U	0.10 J	< 0.095 U	0.21	< 0.10 U	0.39	0.11	0.046 J	0.090 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0101-PLS1	23D-0101-PLS1	23D-0102-PLS1	23D-0102-PLS1	23D-0103-B1S1	23D-0104-PLS1
					Sample Name	23D-0100-B2S1-AS	23D-0100-B2S1-BS	23D-0100-B2S1-AT	23D-0100-B2S1-BT	23D-0101-PLS1-AS	23D-0101-PLS1-BS	23D-0102-PLS1-AS	23D-0102-PLS1-BS	23D-0103-B1S1-AS	23D-0104-PLS1-AS
					Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/10/2023
					Sample Type	N	N	FD	FD	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
2-HEXANONE	591-78-6	ug/kg	20000	360	< 12 U	< 10 U	< 14 U	< 9.8 U	< 11 U	< 11 U	< 11 U	< 12 U	< 12 U	< 12 U
ACETONE	67-64-1	ug/kg	7000000	1200	15 JEB	19 EB	< 14 U	18 EB	< 11 U	< 11 U	< 11 U	< 12 U	< 12 U	< 12 U
Benzene	71-43-2	ug/kg	1200	120	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
BROMOFORM	75-25-2	ug/kg	19000	70	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
BROMOMETHANE	74-83-9	ug/kg	680	2	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Chloroform	67-66-3	ug/kg	320	50	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Cyclohexane	110-82-7	ug/kg	650000		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Ethylbenzene	100-41-4	ug/kg	5800	270	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	< 12 U	< 10 U	< 14 U	< 9.8 U	< 11 U	< 11 U	< 11 U	< 12 U	< 12 U	< 12 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 12 U	< 10 U	< 14 U	< 9.8 U	< 11 U	< 11 U	< 11 U	< 12 U	< 12 U	< 12 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Methylene Chloride	75-09-2	ug/kg	35000	210	< 6.0 U	< 5.2 U	< 6.8 U	0.89 J	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Styrene	100-42-5	ug/kg	600000	1200	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Toluene	108-88-3	ug/kg	490000	150	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U
Vinyl Chloride	75-01-4	ug/kg	59	30	< 6.0 U	< 5.2 U	< 6.8 U	< 4.9 U	< 5.4 U	< 5.3 U	< 5.5 U	< 6.0 U	< 6.0 U	< 5.8 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0101-PLS1	23D-0101-PLS1	23D-0102-PLS1	23D-0102-PLS1	23D-0103-B1S1	23D-0104-PLS1
				Sample Name	23D-0100-B2S1-AS	23D-0100-B2S1-BS	23D-0100-B2S1-AT	23D-0100-B2S1-BT	23D-0101-PLS1-AS	23D-0101-PLS1-BS	23D-0102-PLS1-AS	23D-0102-PLS1-BS	23D-0103-B1S1-AS	23D-0104-PLS1-AS
				Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/10/2023
				Sample Type	N	N	FD	FD	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 83 U	< 75 U	< 86 U	< 74 U	< 77 U	< 75 U	< 81 U	< 76 U	< 79 U	< 75 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		160 JEB	< 370 U	150 JEB	< 370 U	< 380 U	< 370 U	170 JEB	< 380 U	69 JEB	210 JEB
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	-	-	-	-	-	390	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	-	-	-	360	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	-	-	-	-	-	500	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
Caprolactam	105-60-2	ug/kg	3100000		< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	-	-	-	390	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	-	-	-	-	-	950	-	-	-
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0100-B2S1	23D-0101-PLS1	23D-0101-PLS1	23D-0102-PLS1	23D-0102-PLS1	23D-0103-B1S1	23D-0104-PLS1
				Sample Name	23D-0100-B2S1-AS	23D-0100-B2S1-BS	23D-0100-B2S1-AT	23D-0100-B2S1-BT	23D-0101-PLS1-AS	23D-0101-PLS1-BS	23D-0102-PLS1-AS	23D-0102-PLS1-BS	23D-0103-B1S1-AS	23D-0104-PLS1-AS
				Sample Date	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/9/2023	8/10/2023
				Sample Type	N	N	FD	FD	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1.2 - 2.2 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Naphthalene	91-20-3	ug/kg	2000	29000	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 210 U	< 190 U	< 220 U	< 190 U	< 200 U	< 190 U	< 210 U	< 190 U	< 200 U	< 190 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	< 410 U	-	< 430 U	-	-	-	-	-	-	< 370 U
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	-	-	-	-	-	440	-	-	-
PHENOL	108-95-2	ug/kg	1900000	790	< 410 U	< 370 U	< 430 U	< 370 U	< 380 U	< 370 U	< 400 U	< 380 U	< 390 U	< 370 U
PYRENE	129-00-0	ug/kg	180000	1100	-	-	-	-	-	-	780	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	140	< 4.1 U	< 3.7 U	< 4.3 U	< 3.7 U	1.0 J	< 3.7 U	18	3.1 J	< 3.9 U	2.5 J
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	< 4.1 U	< 3.7 U	< 4.3 U	< 3.7 U	1.4 J	< 3.7 U	22	3.9	1.1 J	3.3 J
Acenaphthene	83-32-9	ug/kg	360000	29000	< 4.1 U	< 3.7 U	< 4.3 U	< 3.7 U	1.0 J	< 3.7 U	15	1.4 J	1.4 J	3.1 J
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	1.6 J	< 3.7 U	1.7 J	< 3.7 U	4.6	< 3.7 U	45	6.3	5.6	11
ANTHRACENE	120-12-7	ug/kg	1800000	29000	1.6 J	< 3.7 U	1.8 J	< 3.7 U	8.9	< 3.7 U	130	14	7.6	13
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	8.8	0.94 J	12	3.4 J	43	2.7 J	-	60	51	74
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	9.8	< 3.7 U	14	7.2	42	2.6 J	-	52	61	90
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	15	1.3 J	23	8.3	50	3.8	-	75	98	140
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	7.3	< 3.7 U	10	4.4	20	1.8 J	210	23	36	61
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	6.0	< 3.7 U	8.1	3.2 J	19	1.5 J	240	27	33	44
CHRYSENE	218-01-9	ug/kg	110000	1100	11	0.82 J	16	3.6 J	34	2.5 J	-	48	61	100
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	< 4.1 U	< 3.7 U	2.3 J	1.1 J	5.3	< 3.7 U	50	7.1	9.1	15
FLUORANTHENE	206-44-0	ug/kg	240000	1100	22	1.5 J	28	4.0	61	4.9	-	120	110	150
FLUORENE	86-73-7	ug/kg	240000	29000	< 4.1 U	< 3.7 U	< 4.3 U	< 3.7 U	1.8 J	< 3.7 U	26	3.0 J	1.9 J	4.9
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	6.0	< 3.7 U	8.3	3.6 J	20	1.5 J	210	24	34	51
Naphthalene	91-20-3	ug/kg	2000	29000	0.94 JEB	< 3.7 U	1.2 JEB	< 3.7 U	2.5 JEB	< 3.7 U	25 EB	4.3 EB	2.2 JEB	4.3 EB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	< 7.5 U	-	< 7.5 U	< 7.7 U	< 7.5 U	< 8.1 U	< 7.6 U	< 8.0 U	-
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	6.5	< 3.7 U	9.6	1.7 J	31	2.2 J	-	46	32	81
PYRENE	129-00-0	ug/kg	180000	1100	17 J	1.2 J	23 J	3.5 J	55	4.1	-	98	97	160 J
Asbestos														
ASBESTOS	1332-21-4	%			< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0104-PLS1	23D-0105-PLS1	23D-0105-PLS1	23D-0106-B2S1	23D-0106-B2S1	23D-0107-PLS1	23D-0108-B1S1	23D-0108-B1S1	23D-0109-PLS1	23D-0109-PLS1
					Sample Name	23D-0104-PLS1-BS	23D-0105-PLS1-AS	23D-0105-PLS1-BS	23D-0106-B2S1-AS	23D-0106-B2S1-BS	23D-0107-PLS1-AS	23D-0108-B1S1-AS	23D-0108-B1S1-BS	23D-0109-PLS1-AS	23D-0109-PLS1-BS
					Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1.7 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	37.7	75.2	8.67	51.7	1.36 JN	62.7	84.4	10.2	189	41.8
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	1.04 J	1.44 J	< 0.613 U	< 1.56 U	< 0.349 U	1.17 J	1.24 JN	< 0.379 U	2.10 JN	0.586 JN
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	1.16 J	1.11 JN	0.644 JN	1.35 J	< 0.467 U	1.14 JN	1.93 J	< 0.519 U	3.52	1.08 J
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	2.31 J	2.52 J	< 9.84 UJ	2.87 J	< 9.73 UJ	4.06 J	3.61 J	< 9.10 UJ	4.39 J	1.17 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	3.03	3.98	0.905 J	3.45 JN	< 0.519 U	3.96	4.59	< 0.564 U	13.4	3.72
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	1.23 J	1.23 J	< 0.413 U	1.69 J+	< 0.233 U	2.26 JN	2.45 JN	0.361 J	3.30	0.976 JN
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	1.69 J	2.68	1.02 J	2.17 JN	< 0.496 U	1.99 JN	2.93 JN	< 0.531 U	9.28	2.28 J
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 0.442 U	< 0.233 U	< 0.496 U	< 1.06 U	< 0.311 U	< 0.373 U	< 0.593 U	< 0.412 U	< 0.504 U	< 0.32 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	0.684 JN	0.617 JN	< 0.456 UJ	< 0.808 UJ	< 0.422 UJ	0.65 JN	< 0.587 UJ	< 0.517 UJ	2.45 JN	0.804 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	0.566 J	0.531 J	< 0.239 U	< 0.513 U	< 0.257 U	1.05 J	1.38 J	< 0.338 U	1.65 J	0.468 JN
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	17.4	38.8	4.56	28.3	0.532 JN	38.8	52.9	5.72	80.0	18.9
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	1 JN	1.51 J	< 0.462 U	1.90 JN	< 0.269 U	3.01	3.02	< 0.34 U	4.09	0.973 JN
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	1.84 J	1.6 J	< 0.23 U	3.66	< 0.244 U	5.20	2.23 J	< 0.354 U	7.07	1.8 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	< 0.508 UJ	< 0.474 U	< 0.473 U	< 0.803 UJ	< 0.557 UJ	< 0.493 UJ	< 0.68 UJ	< 0.56 UJ	< 0.491 U	< 0.293 U
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	0.769 JN	0.699	< 0.193 U	1.23	< 0.295 U	1.27	0.906	< 0.236 U	4.46	0.784
OCDD	3268-87-9	pg/g	16000	10500	289	559	82.2	413 J-	11.7	451	537	63.5	881	181
OCDF	39001-02-0	pg/g	16000	10500	19.9	40.6	4.84 JN	31.6 J-	< 0.937 UJ	42.2	62.4	6.26 JN	60.0	13.8
Total HpCDD (a)	RA_Total_HpCDD	pg/g			37.7	75.2	8.67	51.7	1.36	62.7	84.4	10.2	189	41.8
Total HpCDF (a)	RA_Total_HpCDF	pg/g			18.4	40.2	4.56	28.3	0.532	40.0	54.1	5.72	82.1	19.5
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		5.88	7.77	2.57	6.97	< 0.519 U	7.09	9.45	< 0.564 U	26.2	7.08
Total HxCDF (a)	RA_Total_HxCDF	pg/g			4.54	5.26	< 9.84 U	6.46	< 9.73 U	9.33	9.08	0.361	11.8	3.12
Total PeCDD (a)	RA_Total_PeCDD	pg/g			0.684	0.617	< 0.456 U	< 0.808 U	< 0.422 U	0.65	< 0.587 U	< 0.517 U	2.45	0.804
Total PeCDF (a)	RA_Total_PeCDF	pg/g			2.41	2.13	< 0.239 U	3.66	< 0.257 U	6.25	3.61	< 0.354 U	8.72	2.27
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.508 U	< 0.474 U	< 0.473 U	< 0.803 U	< 0.557 U	< 0.493 U	< 0.68 U	< 0.56 U	< 0.491 U	< 0.293 U
Total TCDF (a)	RA_Total_TCDF	pg/g			0.769	0.699	< 0.193 U	1.23	< 0.295 U	1.27	0.906	< 0.236 U	4.46	0.784
PCB Congeners															
PCB-001	2051-60-7	ng/g	230	41	3.30 J	0.424 J	< 0.0370 U	8.29 J	0.924 J	0.464 J	0.305 J	< 0.0342 U	1.56 J	0.701 J
PCB-002	2051-61-8	ng/g	230	41	< 0.0534 U	< 0.0533 U	< 0.0533 U	0.444 JEB	< 0.0527 U	< 0.0512 U	< 0.0525 U	< 0.0493 U	< 0.0535 U	< 0.0538 U
PCB-003	2051-62-9	ng/g	230	41	1.32 J	< 0.0519 U	< 0.0519 U	11.0 J	0.901 J	0.198 J	< 0.0511 U	< 0.0480 U	0.409 J	< 0.0524 U
PCB-004/010	PCB-4/10	ng/g	230	41	6.60 J	1.46 J	< 0.0928 UJ	29.2 J	1.81 J	1.50 J	0.547 J	< 0.0859 UJ	28.3 J	11.9 J
PCB-005/008	PCB-5/8	ng/g	230	41	13.0 J	1.39 J	< 0.0887 U	66.0 J	6.13 J	1.97 J	0.780 J	< 0.0821 U	35.0	12.3 J
PCB-006	25569-80-6	ng/g	230	41	6.75 J	0.321 J	< 0.0517 U	15.4 J	1.05 J	0.803 J	0.193 J	< 0.0479 U	20.1	6.91 J
PCB-007/009	PCB-7/9	ng/g	230	41	0.858 J	< 0.0897 U	< 0.0897 U	1.55 J	< 0.0887 U	< 0.0861 U	< 0.0883 U	< 0.0830 U	3.43 J	1.36 J
PCB-011	2050-67-1	ng/g	230	41	1.63 JEB	< 0.0494 U	< 0.0494 U	3.49 JEB	< 0.0488 U	< 0.0474 U	< 0.0486 U	< 0.0457 U	0.939 JEB	< 0.0498 U
PCB-012/013	PCB-12/13	ng/g	230	41	7.20 J	< 0.0889 U	< 0.0889 U	12.4 J	< 0.0880 U	1.35 J	< 0.0875 U	< 0.0823 U	3.59 J	0.882 J
PCB-014	34883-41-5	ng/g	230	41	< 0.0496 U	< 0.0496 U	< 0.0496 U	< 0.0484 U	< 0.0490 U	< 0.0476 U	< 0.0488 U	< 0.0459 U	< 0.0497 U	< 0.0500 U
PCB-015	2050-68-2	ng/g	230	41	59.9 JEB	5.39 JEB	0.783 JEB	81.9 JEB	3.12 JEB	12.0 JEB	0.954 JEB	< 0.0420 U	10.9 JEB	2.29 JEB
PCB-016/032	PCB-16/32	ng/g	230	41	31.9 EB	4.42 JEB	0.608 JEB	93.2 JEB	1.91 JEB	7.49 JEB	0.504 JEB	< 0.119 U	68.1 JEB	17.8 JEB
PCB-017	37680-66-3	ng/g	230	41	19.1 JEB	2.19 JEB	0.306 JEB	56.2 JEB	1.13 JEB	3.62 JEB	0.362 JEB	< 0.0526 U	44.8 JEB	13.1 JEB
PCB-018	37680-65-2	ng/g	230	41	22.6 EB	1.90 JEB	0.266 JEB	23.2 EB	0.366 JEB	5.69 JEB	0.406 JEB	< 0.0608 U	78.4 JEB	22.9 EB
PCB-019	38444-73-4	ng/g	230	41	7.62 J	1.07 J	< 0.0447 U	13.2 J	< 0.0442 U	1.00 J	0.219 J	< 0.0413 U	16.7 J	4.52 J
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	7.48 JEB	1.08 JEB	< 0.138 U	6.66 JEB	< 0.136 U	3.99 JEB	< 0.135 U	< 0.127 U	34.1 EB	8.91 JEB
PCB-022	38444-85-8	ng/g	230	41	10.0 JEB	1.92 JEB	< 0.0490 U	13.2 JEB	< 0.0485 U	9.60 JEB	< 0.0482 U	< 0.0453 U	16.9 JEB	4.40 JEB
PCB-023/034	PCB-23/34	ng/g	230	41	0.635 J	< 0.0895 U	< 0.0895 U	1.46 J	< 0.0885 U	< 0.0859 U	< 0.0881 U	< 0.0828 U	1.13 J	< 0.0903 U
PCB-024/027	PCB-24/27	ng/g	230	41	6.29 J	0.890 J	< 0.0869 U	14.7 J	0.246 J	1.12 J	< 0.0856 U	< 0.0804 U	7.71 J	2.03 J
PCB-025	55712-37-3	ng/g	230	41	21.7	2.15 J	0.262 J	26.7	0.423 J	2.85 J	0.322 J	< 0.0466 U	26.4	6.43 J
PCB-026	38444-81-4	ng/g	230	41	37.3	3.75 J	0.434 J	40.0 J	0.789 J	6.81 J	0.441 J	< 0.0397 U	39.3	9.60 J
PCB-028	7012-37-5	ng/g	230	41	65.7 JEB	13.9 JEB	1.95 JEB	38.0 EB	0.770 JEB	42.9 JEB	1.44 JEB	< 0.0437 U	102 JEB	25.0 EB
PCB-029	15862-07-4	ng/g	230	41	< 0.0518 U	< 0.0517 U	< 0.0517 U	< 0.0505 U	< 0.0512 U	< 0.0497 U	< 0.0509 U	< 0.0479 U	< 0.0519 U	< 0.0522 U
PCB-030	35693-92-6	ng/g	230	41	< 0.0475 U	< 0.0474 U	< 0.0474 U	< 0.0463 U	< 0.0469 U	< 0.0455 U	< 0.0466 U	< 0.0439 U	< 0.0476 U	< 0.0478 U
PCB-031	16606-02-3	ng/g	230	41	48.7 JEB	5.97 JEB	0.863 JEB	78.1 JEB	1.49 JEB	25.1 EB	1.03 JEB	< 0.0551 U	95.9 JEB	24.6 EB
PCB-035	37680-69-6	ng/g	230	41	< 0.0563 U	< 0.0563 U	< 0.0563 U	< 0.0549 U	< 0.0557 U	1.08 J+	< 0.0554 U	< 0.0521 U	< 0.0564 U	< 0.0567 U
PCB-036	38444-87-0	ng/g	230	41	< 0.0481 U	< 0.0480 U	< 0.0480 U	< 0.0468 U	< 0.0475 U	< 0.0461 U	< 0.0472 U	< 0.0444 U	< 0.0482 U	< 0.0484 U
PCB-037	38444-90-5	ng/g	230	41	16.9 J	4.12 J	0.401 J	17.4 J	0.240 J	28.8	0.534 J	< 0.0488 U	15.0 J	3.21 J
PCB-038	53555-66-1	ng/g	230	41	1.09 J	< 0.0397 U	< 0.0397 U	3.18 J	< 0.0393 U	< 0.0381 U	< 0.0391 U	< 0.0368 U	< 0.0399 U	< 0.0401 U
PCB-039	38444-88-1	ng/g	230	41	< 0.0244 U	< 0.0244 U	< 0.0244 U	0.685 J	< 0.0241 U	< 0.0234 U	< 0.0240 U	< 0.0226 U	< 0.0245 U	< 0.0246 U
PCB-040	38444-93-8	ng/g	230	41	7.33 JEB	1.02 JEB	< 0.0407 U	2.69 JEB	< 0.0403 U	1.95 JEB	< 0.0401 U	< 0.0377 U	13.1 JEB	2.11 JEB

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0104-PLS1	23D-0105-PLS1	23D-0105-PLS1	23D-0106-B2S1	23D-0106-B2S1	23D-0107-PLS1	23D-0108-B1S1	23D-0108-B1S1	23D-0109-PLS1	23D-0109-PLS1
				Sample Name	23D-0104-PLS1-BS	23D-0105-PLS1-AS	23D-0105-PLS1-BS	23D-0106-B2S1-AS	23D-0106-B2S1-BS	23D-0107-PLS1-AS	23D-0108-B1S1-AS	23D-0108-B1S1-BS	23D-0109-PLS1-AS	23D-0109-PLS1-BS
				Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 1.7 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-041/064	PCB-41/64	ng/g	230	41	23.1 EB	4.27 JEB	0.492 JEB	15.0 JEB	< 0.0915 U	25.0 EB	0.519 JEB	< 0.0855 U	33.6 EB	6.52 JEB
PCB-042	36559-22-5	ng/g	230	41	21.4	3.57 J	< 0.102 U	18.8 J	< 0.101 U	9.24 J	0.502 J	< 0.0941 U	30.6	5.60 J
PCB-043/049	PCB-43/49	ng/g	230	41	73.0 JEB	12.9 JEB	1.38 JEB	130 JEB	2.21 JEB	42.6 JEB	3.01 JEB	0.384 JEB	100 JEB	19.8 EB
PCB-044	41464-39-5	ng/g	230	41	54.3 JEB	6.90 JEB	0.758 JEB	19.1 JEB	0.227 JEB	19.2 EB	1.22 JEB	< 0.0501 U	85.4 JEB	15.9 JEB
PCB-045	70362-45-7	ng/g	230	41	8.82 JEB	1.27 JEB	< 0.0443 U	3.34 JEB	< 0.0438 U	2.92 JEB	< 0.0435 U	< 0.0410 U	14.3 JEB	2.41 JEB
PCB-046	41464-47-5	ng/g	230	41	2.68 J	< 0.0517 U	< 0.0517 U	2.72 J	< 0.0512 U	< 0.0497 U	< 0.0509 U	< 0.0479 U	7.47 J	1.51 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	41	39.4 JEB	9.51 JEB	0.924 JEB	111 JEB	1.69 JEB	19.4 EB	2.13 JEB	< 0.157 U	57.0 JEB	11.9 JEB
PCB-050	62796-65-0	ng/g	230	41	< 0.0632 U	< 0.0632 U	< 0.0631 U	1.05 J	< 0.0625 U	< 0.0606 U	< 0.0621 U	< 0.0584 U	< 0.0634 U	< 0.0637 U
PCB-051	68194-04-7	ng/g	230	41	4.59 J	0.963 J	< 0.0537 U	23.8	0.401 J	0.950 J	< 0.0528 U	< 0.0497 U	8.22 J	1.82 J
PCB-052/073	PCB-52/73	ng/g	230	41	80.5 JEB	12.2 JEB	1.31 JEB	90.9 JEB	1.53 JEB	43.9 JEB	2.72 JEB	0.316 JEB	111 JEB	21.7 EB
PCB-053	41464-41-9	ng/g	230	41	12.9 JEB	2.03 JEB	< 0.0478 U	28.9 EB	0.460 JEB	3.16 JEB	0.194 JEB	< 0.0442 U	23.6 EB	4.88 JEB
PCB-054	15968-05-5	ng/g	230	41	0.283 J	< 0.0419 U	< 0.0419 U	1.35 J	< 0.0415 U	< 0.0402 U	< 0.0412 U	< 0.0388 U	0.615 J	< 0.0423 U
PCB-055	74338-24-2	ng/g	230	41	< 0.0546 U	< 0.0545 U	< 0.0545 U	< 0.0532 U	< 0.0539 U	0.645 J	< 0.0536 U	< 0.0504 U	< 0.0547 U	< 0.0549 U
PCB-056/060	PCB-56/60	ng/g	230	41	11.3 JEB	4.07 JEB	0.412 JEB	6.25 JEB	< 0.105 U	40.5 JEB	0.989 JEB	< 0.0985 U	22.8 EB	5.19 JEB
PCB-057	70424-67-8	ng/g	230	41	0.961 J	< 0.0421 U	< 0.0421 U	0.995 J	< 0.0416 U	< 0.0404 U	< 0.0414 U	< 0.0389 U	< 0.0422 U	< 0.0425 U
PCB-058	41464-49-7	ng/g	230	41	< 0.0382 U	< 0.0382 U	< 0.0382 U	< 0.0372 U	< 0.0378 U	< 0.0366 U	< 0.0375 U	< 0.0353 U	< 0.0383 U	< 0.0385 U
PCB-059	74472-33-6	ng/g	230	41	4.59 J	0.968 J	< 0.0747 U	1.85 J	< 0.0740 U	2.07 J	< 0.0736 U	< 0.0692 U	4.52 J	0.852 J
PCB-061/074	PCB-61/74	ng/g	230	41	14.7 JEB	4.26 JEB	0.567 JEB	13.3 JEB	0.166 JEB	26.8 EB	0.711 JEB	< 0.0908 U	35.4 EB	8.57 JEB
PCB-062	54230-22-7	ng/g	230	41	< 0.0522 U	< 0.0521 U	< 0.0521 U	< 0.0509 U	< 0.0516 U	< 0.0500 U	< 0.0513 U	< 0.0482 U	< 0.0523 U	< 0.0526 U
PCB-063	74472-34-7	ng/g	230	41	2.79 J	0.833 J	< 0.0391 U	4.84 J	< 0.0387 U	2.23 J	< 0.0385 U	< 0.0362 U	3.49 J	0.882 J
PCB-065	33284-54-7	ng/g	230	41	< 0.0753 U	< 0.0752 U	< 0.0751 U	< 0.0733 U	< 0.0743 U	< 0.0721 U	< 0.0739 U	< 0.0695 U	< 0.0754 U	< 0.0758 U
PCB-066/080	PCB-66/80	ng/g	230	41	25.2 EB	8.36 JEB	0.869 JEB	19.2 EB	0.228 JEB	70.8 JEB	2.31 JEB	0.261 JEB	58.3 JEB	12.7 JEB
PCB-067	73575-53-8	ng/g	230	41	1.40 J	< 0.0460 U	< 0.0460 U	0.678 J	< 0.0455 U	1.77 J	< 0.0453 U	< 0.0426 U	2.35 J	< 0.0464 U
PCB-068	73575-52-7	ng/g	230	41	< 0.0546 U	< 0.0545 U	< 0.0545 U	3.08 J	< 0.0539 U	< 0.0523 U	< 0.0536 U	< 0.0504 U	< 0.0547 U	< 0.0549 U
PCB-069	60233-24-1	ng/g	230	41	< 0.0567 U	< 0.0567 U	< 0.0567 U	0.458 J	< 0.0560 U	< 0.0544 U	< 0.0557 U	< 0.0524 U	< 0.0568 U	< 0.0571 U
PCB-070	32598-11-1	ng/g	230	41	25.7 EB	7.60 JEB	0.879 JEB	13.3 JEB	0.165 JEB	66.9 JEB	2.61 JEB	0.257 JEB	66.2 JEB	14.2 JEB
PCB-071	41464-46-4	ng/g	230	41	19.2 JEB	3.43 JEB	0.388 JEB	32.5 EB	0.460 JEB	5.27 JEB	0.329 JEB	< 0.0641 U	31.7 EB	6.87 JEB
PCB-072	41464-42-0	ng/g	230	41	1.21 J	0.300 J	< 0.0614 U	3.49 J	< 0.0607 U	< 0.0589 U	< 0.0604 U	< 0.0568 U	0.960 J	< 0.0619 U
PCB-076	70362-48-0	ng/g	230	41	< 0.0754 U	< 0.0754 U	< 0.0753 U	< 0.0735 U	< 0.0745 U	< 0.0723 U	< 0.0741 U	< 0.0697 U	< 0.0756 U	< 0.0760 U
PCB-077	32598-13-3	ng/g	38.0	41	4.50 J+	1.51 J+	< 0.0445 U	5.07 J+	< 0.0440 U	10.3 J+	0.771 J+	< 0.0411 U	5.83 J+	1.23 J+
PCB-078	70362-49-1	ng/g	230	41	< 0.0386 U	< 0.0386 U	< 0.0386 U	< 0.0376 U	< 0.0381 U	< 0.0370 U	< 0.0379 U	< 0.0357 U	< 0.0387 U	< 0.0389 U
PCB-079	41464-48-6	ng/g	230	41	< 0.0485 U	< 0.0484 U	< 0.0484 U	< 0.0472 U	< 0.0479 U	< 0.0464 U	< 0.0476 U	< 0.0448 U	< 0.0486 U	< 0.0488 U
PCB-081	70362-50-4	ng/g	12.0	41	< 0.0756 U	< 0.0756 U	< 0.0755 U	< 0.0737 U	< 0.0747 U	< 0.0725 U	< 0.0743 U	< 0.0699 U	< 0.0758 U	< 0.0762 U
PCB-082	52663-62-4	ng/g	230	41	4.17 J	0.802 J	< 0.0277 U	1.51 J	< 0.0274 U	2.71 J	0.382 J	< 0.0257 U	5.40 J	0.824 J
PCB-083/109	PCB-83/109	ng/g	230	41	2.46 J	0.482 J	< 0.119 U	1.37 J	< 0.118 U	1.16 J	< 0.117 U	< 0.110 U	2.58 J	< 0.120 U
PCB-084	52663-60-2	ng/g	230	41	10.7 J	1.75 J	< 0.0480 U	4.00 J	< 0.0475 U	3.24 J	0.707 J	< 0.0444 U	12.8 J	2.22 J
PCB-085/120	PCB-85/120	ng/g	230	41	7.74 J	1.94 J	< 0.107 U	3.76 J	< 0.106 U	7.58 J	1.44 J	< 0.0990 U	10.2 J	1.81 J
PCB-086/097	PCB-86/97	ng/g	230	41	10.1 J	1.99 J	< 0.0470 U	3.37 J	< 0.0465 U	6.65 J	1.08 J	< 0.0435 U	12.4 J	2.33 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	41	< 0.0303 U	< 0.0303 U	< 0.0303 U	< 0.0296 U	< 0.0300 U	< 0.0291 U	< 0.0298 U	< 0.0280 U	< 0.0304 U	< 0.0305 U
PCB-088/121	PCB-88/121	ng/g	230	41	< 0.110 U	< 0.110 U	< 0.110 U	< 0.107 U	< 0.108 U	< 0.105 U	< 0.108 U	< 0.101 U	< 0.110 U	< 0.110 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	41	31.5	5.69 J	0.685 J	12.9 J	< 0.117 U	17.4 J	4.03 J	< 0.110 U	31.8	6.08 J
PCB-091	68194-05-8	ng/g	230	41	7.93 J	1.91 J	< 0.0614 U	7.80 J	< 0.0607 U	4.13 J	0.726 J	< 0.0568 U	9.39 J	1.68 J
PCB-092	52663-61-3	ng/g	230	41	7.42 J	1.56 J	< 0.0269 U	6.95 J	< 0.0267 U	3.03 J	0.828 J	< 0.0249 U	5.96 J	1.12 J
PCB-093/095	PCB-93/95	ng/g	230	41	30.7 EB	5.17 JEB	0.472 JEB	9.13 JEB	< 0.0784 U	11.2 JEB	2.41 JEB	< 0.0733 U	30.7 EB	5.49 JEB
PCB-094	73575-55-0	ng/g	230	41	< 0.0906 U	< 0.0905 U	< 0.0905 U	0.919 J	< 0.0895 U	< 0.0868 U	< 0.0890 U	< 0.0837 U	< 0.0908 U	< 0.0913 U
PCB-096	73575-54-9	ng/g	230	41	0.590 J	< 0.0427 U	< 0.0427 U	0.232 J	< 0.0422 U	< 0.0410 U	< 0.0420 U	< 0.0395 U	1.09 J	< 0.0430 U
PCB-098/102	PCB-98/102	ng/g	230	41	2.66 J	0.499 J	< 0.0791 U	2.19 J	< 0.0782 U	0.858 J	< 0.0778 U	< 0.0732 U	4.17 J	0.719 J
PCB-099	38380-01-7	ng/g	230	41	15.5 J	3.70 J	0.453 J	9.17 J	< 0.0432 U	11.6 J	2.85 J	< 0.0404 U	19.7	3.87 J
PCB-100	39485-83-1	ng/g	230	41	< 0.0483 U	< 0.0482 U	< 0.0482 U	1.53 J	< 0.0477 U	< 0.0463 U	< 0.0474 U	< 0.0446 U	< 0.0484 U	< 0.0486 U
PCB-103	60145-21-3	ng/g	230	41	< 0.0498 U	< 0.0498 U	< 0.0498 U	1.38 J	< 0.0492 U	< 0.0478 U	< 0.0490 U	< 0.0460 U	< 0.0499 U	< 0.0502 U
PCB-104	56558-16-8	ng/g	230	41	< 0.0461 U	< 0.0460 U	< 0.0460 U	< 0.0449 U	< 0.0455 U	< 0.0442 U	< 0.0453 U	< 0.0426 U	< 0.0462 U	< 0.0464 U
PCB-105/127	PCB-105/127	ng/g	120	41	12.0 J	2.00 J	< 0.0781 U	4.06 J	< 0.0773 U	12.6 J	2.02 J	< 0.0723 U	11.2 J	2.04 J
PCB-106/118	PCB-106/118	ng/g	120	41	31.9	5.70 J	0.674 J	12.2 J	< 0.0922 U	22.1	4.55 J	0.464 J	27.0	5.49 J
PCB-107/108	PCB-107/108	ng/g	230	41	2.31 J	0.636 J	< 0.0958 U	1.40 J	< 0.0948 U	1.97 J	0.418 J	< 0.0886 U	2.20 J	< 0.0966 U
PCB-110	38380-03-9	ng/g	230	41	52.4 JEB	9.90 JEB	1.02 JEB	22.9 EB	< 0.0442 U	23.7 EB	5.70 JEB	0.700 JEB	43.2 JEB	7.73 JEB
PCB-111/117	PCB-111/117	ng/g	230	41	13.8 J	2.52 J	< 0.136 U	7.06 J	< 0.134 U	8.79 J	1.54 J	< 0.126 U	12.9 J	2.32 J
PCB-112	74472-36-9	ng/g	230	41	< 0.0475 U	< 0.0474 U	< 0.0474 U	< 0.0463 U	< 0.0469 U	< 0.0455 U	< 0.0466 U	< 0.0439 U	< 0.0476 U	< 0.0478 U
PCB-113	68194-10-5	ng/g	230	41	< 0.0498 U	< 0.0498 U	< 0.0498 U	< 0.0486 U	< 0.0492 U	< 0.0478 U	< 0.0490 U	< 0.0460 U	< 0.0499 U	< 0.0502 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0104-PLS1	23D-0105-PLS1	23D-0105-PLS1	23D-0106-B2S1	23D-0106-B2S1	23D-0107-PLS1	23D-0108-B1S1	23D-0108-B1S1	23D-0109-PLS1	23D-0109-PLS1
				Sample Name	23D-0104-PLS1-BS	23D-0105-PLS1-AS	23D-0105-PLS1-BS	23D-0106-B2S1-AS	23D-0106-B2S1-BS	23D-0107-PLS1-AS	23D-0108-B1S1-AS	23D-0108-B1S1-BS	23D-0109-PLS1-AS	23D-0109-PLS1-BS
				Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 1.7 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-114	74472-37-0	ng/g	120	41	0.764 J	< 0.0413 U	< 0.0413 U	< 0.0403 U	< 0.0409 U	0.975 J	< 0.0406 U	< 0.0382 U	0.860 J	< 0.0417 U
PCB-119	56558-17-9	ng/g	230	41	1.38 J	0.367 J	< 0.0547 U	2.24 J	< 0.0541 U	0.780 J	< 0.0538 U	< 0.0506 U	1.34 J	< 0.0551 U
PCB-122	76842-07-4	ng/g	230	41	< 0.0349 U	< 0.0348 U	< 0.0348 U	< 0.0340 U	< 0.0344 U	0.510 J	< 0.0343 U	< 0.0322 U	< 0.0349 U	< 0.0351 U
PCB-123	65510-44-3	ng/g	120	41	0.811 J+	< 0.0323 U	< 0.0323 U	0.557 J+	< 0.0319 U	0.908 J+	< 0.0317 U	< 0.0298 U	1.07 J+	< 0.0325 U
PCB-124	70424-70-3	ng/g	230	41	1.13 J	< 0.0435 U	< 0.0435 U	< 0.0424 U	< 0.0430 U	0.975 J	< 0.0428 U	< 0.0402 U	< 0.0436 U	< 0.0438 U
PCB-125	74472-39-2	ng/g	230	41	< 0.0477 U	< 0.0476 U	< 0.0476 U	< 0.0465 U	< 0.0471 U	< 0.0457 U	< 0.0468 U	< 0.0440 U	< 0.0478 U	< 0.0480 U
PCB-126	57465-28-8	ng/g	0.0360	41	< 0.0678 U	< 0.0677 U	< 0.0677 U	< 0.0660 U	< 0.0669 U	< 0.0649 U	< 0.0666 U	< 0.0626 U	< 0.0679 U	< 0.0682 U
PCB-128	38380-07-3	ng/g	230	41	6.88 J	0.906 J	< 0.0478 U	2.14 J	< 0.0473 U	1.76 J	0.840 J	< 0.0442 U	2.12 J	< 0.0482 U
PCB-129	55215-18-4	ng/g	230	41	1.60 J	< 0.0525 U	< 0.0525 U	< 0.0513 U	< 0.0520 U	< 0.0504 U	< 0.0517 U	< 0.0486 U	< 0.0527 U	< 0.0530 U
PCB-130	52663-66-8	ng/g	230	41	2.15 J	< 0.0413 U	< 0.0413 U	0.917 J	< 0.0409 U	0.551 J	< 0.0406 U	< 0.0382 U	0.881 J	< 0.0417 U
PCB-131/142	PCB-131/142	ng/g	230	41	< 0.102 U	< 0.102 U	< 0.102 U	< 0.0992 U	< 0.101 U	< 0.0976 U	< 0.100 U	< 0.0941 U	< 0.102 U	< 0.103 U
PCB-132/168	PCB-132/168	ng/g	230	41	10.1 J	1.49 J	< 0.119 U	3.35 J	< 0.118 U	2.50 J	1.17 J	< 0.110 U	4.15 J	0.713 J
PCB-133	35694-04-3	ng/g	230	41	< 0.0370 U	< 0.0370 U	< 0.0370 U	0.318 J	< 0.0366 U	< 0.0355 U	< 0.0364 U	< 0.0342 U	< 0.0371 U	< 0.0373 U
PCB-134	52704-70-8	ng/g	230	41	1.32 J	< 0.0980 U	< 0.0980 U	0.496 J	< 0.0969 U	< 0.0940 U	< 0.0964 U	< 0.0906 U	< 0.0983 U	< 0.0988 U
PCB-135/144	PCB-135/144	ng/g	230	41	3.70 J	0.612 J	< 0.103 U	1.59 J	< 0.102 U	0.915 J	0.426 J	< 0.0952 U	1.65 J	0.354 J
PCB-136	38411-22-2	ng/g	230	41	2.84 J	0.454 J	< 0.0858 U	1.03 J	< 0.0848 U	0.739 J	0.272 J	< 0.0794 U	1.56 J	0.245 J
PCB-137	35694-06-5	ng/g	230	41	2.28 J	< 0.0480 U	< 0.0480 U	0.692 J	< 0.0475 U	0.572 J	< 0.0472 U	< 0.0444 U	0.730 J	< 0.0484 U
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	33.8	5.12 J	0.537 J	11.7 J	< 0.152 U	9.00 J	4.81 J	0.467 J	11.0 J	2.24 J
PCB-139/149	PCB-139/149	ng/g	230	41	17.0 J	3.02 J	0.285 J	6.96 J	< 0.140 U	4.75 J	2.28 J	0.217 J	7.84 J	1.49 J
PCB-140	59291-64-4	ng/g	230	41	< 0.0701 U	< 0.0700 U	< 0.0700 U	< 0.0683 U	< 0.0693 U	< 0.0672 U	< 0.0689 U	< 0.0648 U	< 0.0703 U	< 0.0706 U
PCB-141	52712-04-6	ng/g	230	41	4.78 J	< 0.0492 U	< 0.0492 U	1.20 J	< 0.0487 U	1.35 J	0.455 J	< 0.0455 U	1.74 J	< 0.0496 U
PCB-143	68194-15-0	ng/g	230	41	< 0.0632 U	< 0.0632 U	< 0.0631 U	< 0.0616 U	< 0.0625 U	< 0.0606 U	< 0.0621 U	< 0.0584 U	< 0.0634 U	< 0.0637 U
PCB-145	74472-40-5	ng/g	230	41	< 0.0835 U	< 0.0834 U	< 0.0834 U	< 0.0814 U	< 0.0825 U	< 0.0800 U	< 0.0821 U	< 0.0772 U	< 0.0837 U	< 0.0841 U
PCB-146	51908-16-8	ng/g	230	41	2.99 J	0.534 J	< 0.0565 U	1.52 J	< 0.0559 U	0.871 J	0.465 J	< 0.0522 U	1.49 J	< 0.0569 U
PCB-147	68194-13-8	ng/g	230	41	< 0.0737 U	< 0.0736 U	< 0.0736 U	1.02 J	< 0.0728 U	< 0.0706 U	< 0.0724 U	< 0.0681 U	< 0.0738 U	< 0.0742 U
PCB-148	74472-41-6	ng/g	230	41	< 0.0772 U	< 0.0771 U	< 0.0771 U	< 0.0753 U	< 0.0763 U	< 0.0740 U	< 0.0759 U	< 0.0713 U	< 0.0774 U	< 0.0778 U
PCB-150	68194-08-1	ng/g	230	41	< 0.0780 U	< 0.0779 U	< 0.0779 U	< 0.0760 U	< 0.0771 U	< 0.0748 U	< 0.0766 U	< 0.0721 U	< 0.0782 U	< 0.0786 U
PCB-151	52663-63-5	ng/g	230	41	3.50 J	0.762 J	< 0.0565 U	1.96 J	< 0.0559 U	1.10 J	0.444 J	< 0.0522 U	1.99 J	0.350 J
PCB-152	68194-09-2	ng/g	230	41	< 0.0912 U	< 0.0911 U	< 0.0911 U	< 0.0889 U	< 0.0901 U	< 0.0874 U	< 0.0896 U	< 0.0843 U	< 0.0914 U	< 0.0918 U
PCB-153	35065-27-1	ng/g	230	41	18.9 J	3.08 J	0.316 J	6.92 J	< 0.0490 U	5.69 J	2.83 J	0.298 J	7.41 J	1.53 J
PCB-154	60145-22-4	ng/g	230	41	< 0.0544 U	< 0.0543 U	< 0.0543 U	0.346 J	< 0.0537 U	< 0.0521 U	< 0.0534 U	< 0.0502 U	< 0.0545 U	< 0.0548 U
PCB-155	33979-03-2	ng/g	230	41	< 0.0469 U	< 0.0468 U	< 0.0468 U	< 0.0457 U	< 0.0463 U	< 0.0449 U	< 0.0461 U	< 0.0433 U	< 0.0470 U	< 0.0472 U
PCB-156	38380-08-4	ng/g	120	41	4.12 J	0.345 J	< 0.0393 U	1.10 J	< 0.0389 U	0.858 J	0.373 J	< 0.0364 U	0.893 J	< 0.0397 U
PCB-157	69782-90-7	ng/g	120	41	0.940 J+	< 0.0547 U	< 0.0547 U	0.268 J+	< 0.0541 U	0.286 J+	< 0.0538 U	< 0.0506 U	< 0.0549 U	< 0.0551 U
PCB-158/160	PCB-158/160	ng/g	230	41	3.61 J	0.427 J	< 0.120 U	1.06 J	< 0.119 U	0.860 J	0.349 J	< 0.111 U	0.965 J	< 0.121 U
PCB-159	39635-35-3	ng/g	230	41	< 0.0756 U	< 0.0756 U	< 0.0755 U	< 0.0737 U	< 0.0747 U	< 0.0725 U	< 0.0743 U	< 0.0699 U	< 0.0758 U	< 0.0762 U
PCB-161	74472-43-8	ng/g	230	41	< 0.0707 U	< 0.0706 U	< 0.0706 U	< 0.0689 U	< 0.0699 U	< 0.0678 U	< 0.0695 U	< 0.0653 U	< 0.0709 U	< 0.0712 U
PCB-162	39635-34-2	ng/g	230	41	< 0.0557 U	< 0.0557 U	< 0.0557 U	< 0.0543 U	< 0.0551 U	< 0.0534 U	< 0.0548 U	< 0.0515 U	< 0.0559 U	< 0.0561 U
PCB-165	74472-46-1	ng/g	230	41	< 0.0764 U	< 0.0763 U	< 0.0763 U	< 0.0745 U	< 0.0755 U	< 0.0732 U	< 0.0751 U	< 0.0706 U	< 0.0766 U	< 0.0770 U
PCB-166	41411-63-6	ng/g	230	41	< 0.0658 U	< 0.0657 U	< 0.0657 U	< 0.0641 U	< 0.0650 U	< 0.0631 U	< 0.0646 U	< 0.0608 U	< 0.0659 U	< 0.0663 U
PCB-167	52663-72-6	ng/g	120	41	1.49 J	< 0.0506 U	< 0.0506 U	0.403 J	< 0.0500 U	0.320 J	< 0.0497 U	< 0.0468 U	< 0.0507 U	< 0.0510 U
PCB-169	32774-16-6	ng/g	0.120	41	< 0.0557 U	< 0.0557 U	< 0.0557 U	< 0.0543 U	< 0.0551 U	< 0.0534 U	< 0.0548 U	< 0.0515 U	< 0.0559 U	< 0.0561 U
PCB-170/190	PCB-170/190	ng/g	230	41	3.88 J	0.783 J	< 0.0917 U	3.02 J	< 0.0907 U	1.51 J	0.838 J	< 0.0848 U	2.34 J	0.474 J
PCB-171	52663-71-5	ng/g	230	41	1.12 J	< 0.0728 U	< 0.0728 U	0.709 J	< 0.0720 U	0.362 J	< 0.0716 U	< 0.0673 U	< 0.0730 U	< 0.0734 U
PCB-172/192	PCB-172/192	ng/g	230	41	0.413 J	< 0.121 U	< 0.121 U	0.366 J	< 0.119 U	0.192 J	< 0.119 U	< 0.112 U	< 0.121 U	< 0.122 U
PCB-173	68194-16-1	ng/g	230	41	< 0.0816 U	< 0.0815 U	< 0.0814 U	< 0.0795 U	< 0.0806 U	< 0.0782 U	< 0.0801 U	< 0.0754 U	< 0.0817 U	< 0.0821 U
PCB-174	38411-25-5	ng/g	230	41	2.57 J	0.575 J	< 0.102 U	2.06 J	< 0.101 U	1.27 J	0.563 J	< 0.0945 U	2.07 J	0.412 J
PCB-175	40186-70-7	ng/g	230	41	< 0.0628 U	< 0.0628 U	< 0.0627 U	< 0.0612 U	< 0.0621 U	< 0.0602 U	< 0.0617 U	< 0.0581 U	< 0.0630 U	< 0.0633 U
PCB-176	52663-65-7	ng/g	230	41	0.282 J	< 0.0586 U	< 0.0586 U	0.266 J	< 0.0580 U	< 0.0563 U	< 0.0577 U	< 0.0542 U	0.238 J	< 0.0591 U
PCB-177	52663-70-4	ng/g	230	41	1.68 J	0.333 J	< 0.0732 U	1.57 J	< 0.0724 U	0.675 J	0.386 J	< 0.0677 U	1.21 J	< 0.0738 U
PCB-178	52663-67-9	ng/g	230	41	0.444 J	< 0.0919 U	< 0.0919 U	0.559 J	< 0.0909 U	0.204 J	< 0.0904 U	< 0.0850 U	0.370 J	< 0.0926 U
PCB-179	52663-64-6	ng/g	230	41	0.854 J	0.212 J	< 0.0486 U	0.907 J	< 0.0481 U	0.414 J	0.188 J	< 0.0450 U	0.785 J	0.171 J
PCB-180	35065-29-3	ng/g	230	41	5.51 J	1.35 J	< 0.0647 U	5.26 J	< 0.0640 U	2.70 J	1.28 J	< 0.0599 U	4.59 J	0.912 J
PCB-181	74472-47-2	ng/g	230	41	< 0.0557 U	< 0.0557 U	< 0.0557 U	< 0.0543 U	< 0.0551 U	< 0.0534 U	< 0.0548 U	< 0.0515 U	< 0.0559 U	< 0.0561 U
PCB-182/187	PCB-182/187	ng/g	230	41	2.63 J	0.744 J	< 0.146 U	3.28 J	< 0.145 U	1.54 J	0.763 J	< 0.135 U	2.30 J	0.485 J
PCB-183	52663-69-1	ng/g	230	41	1.46 J	0.273 J	< 0.0728 U	1.26 J	< 0.0720 U	0.512 J	0.224 J	< 0.0673 U	1.10 J	0.160 J
PCB-184	74472-48-3	ng/g	230	41	< 0.0528 U	< 0.0527 U	< 0.0527 U	< 0.0514 U	< 0.0522 U	< 0.0506 U	< 0.0519 U	< 0.0488 U	< 0.0529 U	< 0.0532 U
PCB-185	52712-05-7	ng/g	230	41	< 0.0731 U	< 0.0730 U	< 0.0730 U	< 0.0712 U	< 0.0722 U	< 0.0700 U	< 0.0718 U	< 0.0675 U	< 0.0732 U	< 0.0736 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0104-PLS1	23D-0105-PLS1	23D-0105-PLS1	23D-0106-B2S1	23D-0106-B2S1	23D-0107-PLS1	23D-0108-B1S1	23D-0108-B1S1	23D-0109-PLS1	23D-0109-PLS1
				Sample Name	23D-0104-PLS1-BS	23D-0105-PLS1-AS	23D-0105-PLS1-BS	23D-0106-B2S1-AS	23D-0106-B2S1-BS	23D-0107-PLS1-AS	23D-0108-B1S1-AS	23D-0108-B1S1-BS	23D-0109-PLS1-AS	23D-0109-PLS1-BS
				Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 1.7 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-186	74472-49-4	ng/g	230	41	< 0.0660 U	< 0.0659 U	< 0.0659 U	< 0.0643 U	< 0.0652 U	< 0.0632 U	< 0.0648 U	< 0.0610 U	< 0.0661 U	< 0.0665 U
PCB-188	74487-85-7	ng/g	230	41	< 0.0605 U	< 0.0604 U	< 0.0604 U	< 0.0589 U	< 0.0597 U	< 0.0580 U	< 0.0594 U	< 0.0559 U	< 0.0606 U	< 0.0609 U
PCB-189	39635-31-9	ng/g	130	41	< 0.0615 U	< 0.0614 U	< 0.0614 U	0.144 J	< 0.0607 U	< 0.0589 U	< 0.0604 U	< 0.0568 U	< 0.0616 U	< 0.0619 U
PCB-191	74472-50-7	ng/g	230	41	< 0.0556 U	< 0.0555 U	< 0.0555 U	< 0.0541 U	< 0.0549 U	< 0.0532 U	< 0.0546 U	< 0.0513 U	< 0.0557 U	< 0.0559 U
PCB-193	69782-91-8	ng/g	230	41	0.221 J	< 0.0700 U	< 0.0700 U	0.275 J	< 0.0693 U	0.181 J	< 0.0689 U	< 0.0648 U	0.199 J	< 0.0706 U
PCB-194	35694-08-7	ng/g	230	41	1.18 J	1.08 J	< 0.0885 U	2.34 J	< 0.0876 U	1.21 J	< 0.0871 U	< 0.0819 U	1.68 J	< 0.0893 U
PCB-195	52663-78-2	ng/g	230	41	< 0.157 U	< 0.157 U	< 0.157 U	0.739 J	< 0.155 U	< 0.150 U	< 0.154 U	< 0.145 U	< 0.157 U	< 0.158 U
PCB-196/203	PCB-196/203	ng/g	230	41	0.880 J	0.318 J	< 0.149 U	2.36 J	< 0.147 U	0.759 J	0.440 J	< 0.138 U	1.65 J	< 0.150 U
PCB-197	33091-17-7	ng/g	230	41	< 0.0664 U	< 0.0663 U	< 0.0663 U	< 0.0647 U	< 0.0656 U	< 0.0636 U	< 0.0652 U	< 0.0613 U	< 0.0665 U	< 0.0669 U
PCB-198	68194-17-2	ng/g	230	41	< 0.108 U	< 0.108 U	< 0.108 U	< 0.105 U	< 0.106 U	< 0.103 U	< 0.106 U	< 0.0996 U	< 0.108 U	< 0.109 U
PCB-199	52663-75-9	ng/g	230	41	0.715 J	0.295 J	< 0.103 U	1.93 J	< 0.102 U	0.734 J	0.475 J	< 0.0957 U	1.27 J	< 0.104 U
PCB-200	52663-73-7	ng/g	230	41	< 0.0528 U	< 0.0527 U	< 0.0527 U	< 0.0514 U	< 0.0522 U	< 0.0506 U	< 0.0519 U	< 0.0488 U	< 0.0529 U	< 0.0532 U
PCB-201	40186-71-8	ng/g	230	41	< 0.0418 U	< 0.0417 U	< 0.0417 U	< 0.0407 U	< 0.0413 U	< 0.0400 U	< 0.0410 U	< 0.0386 U	< 0.0418 U	< 0.0421 U
PCB-202	2136-99-4	ng/g	230	41	< 0.0713 U	< 0.0712 U	< 0.0712 U	< 0.0695 U	< 0.0704 U	< 0.0683 U	< 0.0701 U	< 0.0659 U	< 0.0714 U	< 0.0718 U
PCB-204	74472-52-9	ng/g	230	41	< 0.0873 U	< 0.0872 U	< 0.0871 U	< 0.0850 U	< 0.0862 U	< 0.0836 U	< 0.0857 U	< 0.0806 U	< 0.0874 U	< 0.0879 U
PCB-205	74472-53-0	ng/g	230	41	< 0.0619 U	< 0.0618 U	< 0.0618 U	< 0.0603 U	< 0.0611 U	< 0.0593 U	< 0.0608 U	< 0.0571 U	< 0.0620 U	< 0.0623 U
PCB-206	40186-72-9	ng/g	230	41	< 0.0593 U	0.514 J	< 0.0592 U	0.883 J	< 0.0586 U	0.383 J	< 0.0583 U	< 0.0548 U	0.728 J	< 0.0597 U
PCB-207	52663-79-3	ng/g	230	41	< 0.0784 U	< 0.0783 U	< 0.0783 U	< 0.0764 U	< 0.0775 U	< 0.0751 U	< 0.0770 U	< 0.0724 U	< 0.0786 U	< 0.0790 U
PCB-208	52663-77-1	ng/g	230	41	< 0.0784 U	< 0.0783 U	< 0.0783 U	0.188 J	< 0.0775 U	< 0.0751 U	< 0.0770 U	< 0.0724 U	0.215 J	< 0.0790 U
PCB-209	2051-24-3	ng/g	230	41	< 0.0451 U	0.737 J	< 0.0450 U	0.192 J	< 0.0446 U	0.201 J	< 0.0443 U	< 0.0417 U	0.455 J	< 0.0454 U
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0	< 0.0451 U	0.737	< 0.045 U	0.192	< 0.0446 U	0.201	< 0.0443 U	< 0.0417 U	0.455	< 0.0454 U
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0	21.1	4.27	< 0.146 U	19.7	< 0.145 U	9.56	4.24	< 0.135 U	15.2	2.61
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0	122	16.8	1.14	45.0	< 0.152 U	32.1	14.7	0.982	44.4	6.92
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0	2.78	1.69	< 0.157 U	7.37	< 0.155 U	2.70	0.915	< 0.145 U	4.60	< 0.158 U
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14	1230	209	18.3	1400	28.8	742	74.6	3.36	1680	377
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0	248	46.6	3.30	117	< 0.134 U	143	28.7	1.16	246	43.7
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0	95.9	8.56	0.783	210	12.1	17.6	2.47	< 0.0859 U	102	35.6
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0	4.62	0.424	< 0.0533 U	19.7	1.83	0.662	0.305	< 0.0493 U	1.97	0.701
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0	< 0.0784 U	0.514	< 0.0783 U	1.07	< 0.0775 U	0.383	< 0.077 U	< 0.0724 U	0.943	< 0.079 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0	440	86.0	7.98	554	7.54	396	18.0	1.22	716	145
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0	297	43.4	5.09	426	7.36	140	5.26	< 0.127 U	546	143
TAL Metals and Mercury														
Aluminum	7429-90-5	mg/kg	7700		6300	7800	7600	4200	5800	6800	7600	4700	5700	7000
Calcium	7440-70-2	mg/kg			3500 J	2200 J	2500 J	1300 J	1400 J	2400 J	2700 J	1700 J	1600 J	1200 J
Iron	7439-89-6	mg/kg	5500		12000 EB	14000 EB	13000 EB	5800 EB	3600 EB	11000 EB	15000 EB	9000 EB	7100 EB	3000 EB
Magnesium	7439-95-4	mg/kg			4100 J	3300 J	2800 J	1800 J	1000 J	3500 J	3400 J	2100 J	1600 J	1100 J
Potassium	7440-09-7	mg/kg			< 550 U	600	670	< 580 U	< 640 U	< 520 U	560	< 550 U	< 730 U	< 860 U
Sodium	7440-23-5	mg/kg			85 J	170 J	160 J	94 J	140 J	130 J	94 J	55 J	100 J	210 J
Antimony	7440-36-0	mg/kg	3.1	0.27	0.081 J	0.069 J	< 1.1 U	0.068 J	< 1.4 U	0.16 J	0.13 J	0.049 J	0.26 J	< 1.6 U
Arsenic	7440-38-2	mg/kg	0.68	18	0.68	1.0	1.3	1.3	0.50 J	1.6	2.2	1.8	3.9	1.2
Barium	7440-39-3	mg/kg	1500	110	14 EB	15 EB	21 EB	21 EB	32 EB	20 EB	26 EB	17 EB	28 EB	27 EB
Beryllium	7440-41-7	mg/kg	16	2.5	< 0.54 U	< 0.51 U	< 0.55 U	< 0.57 U	< 0.68 U	< 0.48 U	< 0.53 U	< 0.50 U	< 0.72 U	< 0.79 U
Cadmium	7440-43-9	mg/kg	0.71	0.36	< 0.54 UJ	< 0.51 UJ	< 0.55 UJ	< 0.57 UJ	< 0.68 UJ	< 0.48 UJ	< 0.53 UJ	< 0.50 UJ	0.12 J-	0.21 J-
Chromium, Total	7440-47-3	mg/kg	0.3	23	7.4 JEB	9.4 JEB	8.8 JEB	7.0 JEB	9.3 JEB	8.5 JEB	8.0 JEB	6.6 JEB	18 JEB	19 JEB
Cobalt	7440-48-4	mg/kg	2.3	13	2.8 J	3.2 J	4.5 J	2.0 J	2.0 J	2.7 J	4.1 J	3.6 J	3.3 J	1.4 J
Copper	7440-50-8	mg/kg	310	28	10 JEB	7.9 JEB	9.1 JEB	7.5 JEB	1.4 JEB	14 JEB	15 JEB	13 JEB	20 JEB	13 JEB
Lead	7439-92-1	mg/kg	200	11	19 J	7.4 J	4.2 J	8.6 J	3.2 J	43 J	13 J	6.3 J	38 J	8.8 J
Manganese	7439-96-5	mg/kg	180	220	76 JEB	120 JEB	190 JEB	54 JEB	45 JEB	110 JEB	150 JEB	180 JEB	76 JEB	73 JEB
Nickel	7440-02-0	mg/kg	140	38	6.1	6.1	7.7	3.8	3.5	6.5	10	8.4	4.7	4.1
Selenium	7782-49-2	mg/kg	39	0.52	< 2.7 U	< 2.5 U	1.2 J	0.91 J	1.4 J	< 2.4 U	0.90 J	< 2.5 U	1.3 J	3.2 J
Silver	7440-22-4	mg/kg	39	4.2	0.036 J	0.020 J	< 0.55 U	0.026 J	0.024 J	0.042 J	0.031 J	0.014 J	0.065 J	0.065 J
Thallium	7440-28-0	mg/kg	0.078	0.05	< 0.54 U	< 0.51 U	< 0.55 U	< 0.57 U	< 0.68 U	< 0.48 U	< 0.53 U	< 0.50 U	< 0.72 U	0.033 J
Vanadium	7440-62-2	mg/kg	39	7.8	7.1 J	12 J	15 J	7.3 J	7.1 J	12 J	15 J	13 J	9.8 J	6.6 J
Zinc	7440-66-6	mg/kg	2300	46	30 JEB	20 JEB	19 JEB	16 JEB	22 JEB	43 JEB	36 JEB	27 JEB	47 JEB	17 JEB
Mercury	7439-97-6	mg/kg	2.3	0.013	0.032 J	0.036 J	< 0.11 U	0.046 J	0.026 J	0.065 J	0.030 J	< 0.11 U	0.24	0.097 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0104-PLS1	23D-0105-PLS1	23D-0105-PLS1	23D-0106-B2S1	23D-0106-B2S1	23D-0107-PLS1	23D-0108-B1S1	23D-0108-B1S1	23D-0109-PLS1	23D-0109-PLS1
					Sample Name	23D-0104-PLS1-BS	23D-0105-PLS1-AS	23D-0105-PLS1-BS	23D-0106-B2S1-AS	23D-0106-B2S1-BS	23D-0107-PLS1-AS	23D-0108-B1S1-AS	23D-0108-B1S1-BS	23D-0109-PLS1-AS	23D-0109-PLS1-BS
					Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1.7 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 6.1 U	< 6.4 UJ	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 UJ	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 6.1 U	< 6.4 UJ	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 UJ	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 6.1 U	< 6.4 UJ	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 UJ	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 6.1 U	< 6.4 UJ	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 UJ	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 6.1 U	< 6.4 UJ	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 UJ	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 6.1 U	< 6.4 UJ	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 UJ	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 6.1 U	< 6.4 UJ	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 UJ	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 6.1 U	< 6.4 UJ	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 UJ	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
2-HEXANONE	591-78-6	ug/kg	20000	360	< 12 U	< 13 U	< 11 U	< 15 U	< 15 U	< 11 U	< 12 U	< 9.7 U	< 12 U	< 16 U
ACETONE	67-64-1	ug/kg	7000000	1200	< 12 U	11 JEB	< 11 U	< 15 U	< 15 U	14 EB	6.2 JEB	< 9.7 U	< 12 U	91 EB
Benzene	71-43-2	ug/kg	1200	120	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
BROMOFORM	75-25-2	ug/kg	19000	70	< 6.1 U	< 6.4 UJ	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 UJ	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
BROMOMETHANE	74-83-9	ug/kg	680	2	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Chloroform	67-66-3	ug/kg	320	50	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Cyclohexane	110-82-7	ug/kg	650000		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Ethylbenzene	100-41-4	ug/kg	5800	270	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 6.1 U	< 6.4 UJ	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 UJ	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 6.1 U	2.4 J	< 5.5 U	< 7.5 U	< 7.6 U	2.5 J	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	< 12 U	< 13 U	< 11 U	< 15 U	< 15 U	< 11 U	< 12 U	< 9.7 U	< 12 U	25
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 12 U	< 13 U	< 11 U	< 15 U	< 15 U	< 11 U	< 12 U	< 9.7 U	< 12 U	< 16 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Methylene Chloride	75-09-2	ug/kg	35000	210	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Styrene	100-42-5	ug/kg	600000	1200	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Toluene	108-88-3	ug/kg	490000	150	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U
Vinyl Chloride	75-01-4	ug/kg	59	30	< 6.1 U	< 6.4 U	< 5.5 U	< 7.5 U	< 7.6 U	< 5.3 U	< 5.8 U	< 4.8 U	< 6.0 U	< 7.8 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0104-PLS1	23D-0105-PLS1	23D-0105-PLS1	23D-0106-B2S1	23D-0106-B2S1	23D-0107-PLS1	23D-0108-B1S1	23D-0108-B1S1	23D-0109-PLS1	23D-0109-PLS1
				Sample Name	23D-0104-PLS1-BS	23D-0105-PLS1-AS	23D-0105-PLS1-BS	23D-0106-B2S1-AS	23D-0106-B2S1-BS	23D-0107-PLS1-AS	23D-0108-B1S1-AS	23D-0108-B1S1-BS	23D-0109-PLS1-AS	23D-0109-PLS1-BS
				Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 1.7 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 73 U	< 76 U	< 73 U	< 86 U	< 93 U	< 70 U	< 79 U	< 73 U	< 88 U	< 110 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 UJ	< 190 UJ	< 220 UJ	< 280 UJ
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 360 U	73 JEB	< 360 U	96 JEB	< 460 U	120 JEB	110 JEB	< 360 U	95 JEB	< 550 U
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
Caprolactam	105-60-2	ug/kg	3100000		< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	-	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	-	-	-	-	240	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0104-PLS1	23D-0105-PLS1	23D-0105-PLS1	23D-0106-B2S1	23D-0106-B2S1	23D-0107-PLS1	23D-0108-B1S1	23D-0108-B1S1	23D-0109-PLS1	23D-0109-PLS1
				Sample Name	23D-0104-PLS1-BS	23D-0105-PLS1-AS	23D-0105-PLS1-BS	23D-0106-B2S1-AS	23D-0106-B2S1-BS	23D-0107-PLS1-AS	23D-0108-B1S1-AS	23D-0108-B1S1-BS	23D-0109-PLS1-AS	23D-0109-PLS1-BS
				Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 1.7 ft	0 - 1 ft	2 - 3 ft	0 - 1 ft	1 - 1.5 ft	0 - 1 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Naphthalene	91-20-3	ug/kg	2000	29000	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 190 U	< 190 U	< 190 U	< 220 U	< 240 U	< 180 U	< 200 U	< 190 U	< 220 U	< 280 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	790	< 360 U	< 380 U	< 360 U	< 430 U	< 460 U	< 350 U	< 390 U	< 360 U	< 440 U	< 550 U
PYRENE	129-00-0	ug/kg	180000	1100	-	-	-	-	-	200	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	140	< 3.6 U	0.86 J	< 3.6 U	1.0 J	< 4.6 U	5.7	0.87 J	< 3.6 U	2.7 J	< 5.5 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	0.88 J	1.3 J	< 3.6 U	1.5 J	< 4.6 U	5.9	1.3 J	< 3.6 U	4.3 J	< 5.5 U
Acenaphthene	83-32-9	ug/kg	360000	29000	0.75 J	1.3 J	< 3.6 U	1.5 J	< 4.6 U	7.9 J	0.99 J	< 3.6 U	3.7 J	5.7 J
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	2.8 J	2.9 J	< 3.6 U	2.8 J	< 4.6 U	29	2.5 J	< 3.6 U	7.1	3.0 J
ANTHRACENE	120-12-7	ug/kg	1800000	29000	3.2 J	3.8	< 3.6 U	4.1 J	< 4.6 U	35	3.2 J	< 3.6 U	7.6	11
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	16	28	2.6 J	26	< 4.6 U	150	22	1.8 J	34	19
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	19	38	3.3 J	30	< 4.6 U	160	26	1.6 J	35	12
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	25	72	5.5	44	< 4.6 U	240	45	2.3 J	48	17
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	11	26	2.4 J	19	< 4.6 U	93	19	1.0 J	19	4.8 J
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	10	22	1.9 J	16	< 4.6 U	83	17	0.95 J	18	6.6
CHRYSENE	218-01-9	ug/kg	110000	1100	18	42	4.2	32	< 4.6 U	160	32	1.7 J	40	17
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	2.5 J	5.9	< 3.6 U	4.6	< 4.6 U	19	4.8	< 3.6 U	5.1	1.9 J
FLUORANTHENE	206-44-0	ug/kg	240000	1100	30	77	7.0	55	1.2 J	-	55	3.6	110	39
FLUORENE	86-73-7	ug/kg	240000	29000	1.1 J	1.4 J	< 3.6 U	1.7 J	< 4.6 U	16	1.1 J	< 3.6 U	5.0	9.1
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	9.1	22	1.9 J	16	< 4.6 U	80	16	< 3.6 U	17	4.3 J
Naphthalene	91-20-3	ug/kg	2000	29000	1.7 JEB	2.4 JEB	0.86 JEB	2.4 JEB	< 4.6 U	5.0 EB	1.8 JEB	< 3.6 U	6.7 EB	2.4 JEB
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	-	-	-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	11	24	2.4 J	20	1.2 J	210	18	1.4 J	31	34
PYRENE	129-00-0	ug/kg	180000	1100	27 J	58 J	6.1 J	46 J	< 4.6 U	-	43 J	3.1 J	64 J	28 J
Asbestos														
ASBESTOS	1332-21-4	%			< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0110-B1S1	23D-0111-B1S1	23D-0112-PLS1	23D-0113-B1S1	23D-0114-B2S1	23D-0115-PLS1	23D-0116-PLS1	23D-0117-B1S1	23D-0117-B1S1	23D-0118-PLS1
					Sample Name	23D-0110-B1S1-AS	23D-0111-B1S1-AS	23D-0112-PLS1-AS	23D-0113-B1S1-AS	23D-0114-B2S1-AS	23D-0115-PLS1-AS	23D-0116-PLS1-AS	23D-0117-B1S1-AS	23D-0117-B1S1-BS	23D-0118-PLS1-AS
					Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 0.3 ft	0 - 1 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCDD/F														
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	124	217	432	367	1960	14.5	301	150	57.7	181
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	1.46 J	3.71	7.61	5.49	42.4	0.214 JN	2.99	2.43 J	0.862 JN	3.06
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	1.88 JN	2.66	5.43	5.06	14.0	0.485 JN	4.36	2.25 J	0.889 JN	2.3 J
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	2.53 J	8.09 J	16.2	7.89	85.6	0.448 JN	4.76	3.51 JN	1.7 J	6.44
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	8.51	11.2	30.3	23.1	87.7	0.97 JN	17.8	7.72	3.11	10.1 JN
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	1.3 JN	4.31	10.0	5.38	42.7	0.368 J+	2.85 J+	2.46 J+	0.805 JN	3.33 J+
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	4.74	6.32	16.2	14.5	43.8	0.849 J	10.4	4.10	2.01 J	5.96 JN
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 0.374 U	< 0.52 U	< 0.568 U	< 0.622 U	< 1.08 U	< 0.174 U	< 0.41 U	< 0.414 U	< 0.218 U	< 0.462 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	< 0.916 UJ	< 1.7 UJ	2.49 JN	2.44 JN	6.80 JN	< 0.192 UJ	1.33 JN	0.552 JN	0.319 J	0.712 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	0.701 J	2.91	5.79	2.73	15.1	0.23 JN	1.08 J+	1.02 J+	0.409 JN	0.79 JN
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	38.1	90.4	283	210	795	6.40	120	67.5	29.8	142
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	1.54 J	4.07	11.2	7.14	40.1	0.377 JN	3.99	2.41 J	1.05 J	3.99
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	2.54	8.69	22.6	8.37	109	0.604 J	5.43 J	3.85 J	1.44 J	3.59 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	< 0.571 UJ	< 0.856 UJ	0.551 JN	< 0.992 UJ	5.45 J	< 0.952 UJ	0.0973 JN	< 0.978 UJ	0.232 JN	0.251 JN
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	2.14	3.86	7.45	4.28	33.0	0.311 JN	2.38	1.96	0.883 JN	1.66
OCDD	3268-87-9	pg/g	16000	10500	613	1980	2150	1680	17100 J	80.2	1680	1020	410	1180
OCDF	39001-02-0	pg/g	16000	10500	33.2	103	192	233	881	4.21 JN	95.1	74.0	29.6	119
Total HpCDD (a)	RA_Total_HpCDD	pg/g			124	217	432	367	1960	14.5	301	150	57.7	181
Total HpCDF (a)	RA_Total_HpCDF	pg/g			39.6	94.1	291	215	837	6.61	123	69.9	30.7	145
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		15.1	20.2	51.9	42.7	146	2.30	32.6	14.1	6.01	18.4
Total HxCDF (a)	RA_Total_HxCDF	pg/g			5.37	16.5	37.4	20.4	168	1.19	11.6	8.38	3.56	13.8
Total PeCDD (a)	RA_Total_PeCDD	pg/g			< 0.916 U	< 1.7 U	2.49	2.44	6.80	< 0.192 U	1.33	0.552	0.319	0.712
Total PeCDF (a)	RA_Total_PeCDF	pg/g			3.24	11.6	28.4	11.1	124	0.834	6.51	4.87	1.85	4.38
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.571 U	< 0.856 U	0.551	< 0.992 U	5.45	< 0.952 U	0.0973	< 0.978 U	0.232	0.251
Total TCDF (a)	RA_Total_TCDF	pg/g			2.14	3.86	7.45	4.28	33.0	0.311	2.38	1.96	0.883	1.66
PCB Congeners														
PCB-001	2051-60-7	ng/g	230	41	1.99 J	1.32 J	0.859 J	0.229 J	4140 J	< 0.0358 U	< 0.0373 U	1.07 J	0.444 J	2.08 J
PCB-002	2051-61-8	ng/g	230	41	< 0.0529 U	< 0.0538 U	< 0.0527 U	< 0.0538 U	37.6 EB	< 0.0516 U	< 0.0538 U	< 0.0530 U	< 0.0501 U	< 0.0513 U
PCB-003	2051-62-9	ng/g	230	41	0.612 J	0.468 J	< 0.0513 U	< 0.0524 U	1070 J	< 0.0503 U	< 0.0524 U	0.449 J	< 0.0488 U	1.04 J
PCB-004/010	PCB-4/10	ng/g	230	41	14.0 J	5.84 J	11.1 J	1.31 J	21500 J	< 0.0899 U	0.361 J	2.68 J	1.93 J	4.06 J
PCB-005/008	PCB-5/8	ng/g	230	41	7.87 J	6.38 J	13.3 J	0.935 J	3770 J	< 0.0859 U	0.734 JEB	3.48 JEB	2.12 JEB	7.88 JEB
PCB-006	25569-80-6	ng/g	230	41	7.67 J	2.35 J	4.86 J	0.359 J	1190 J	< 0.0501 U	< 0.0522 U	1.18 J	0.944 J	3.64 J
PCB-007/009	PCB-7/9	ng/g	230	41	0.477 J	0.453 J	1.19 J	< 0.0905 U	96.4 J	< 0.0868 U	< 0.0905 U	< 0.0892 U	< 0.0842 U	0.721 J
PCB-011	2050-67-1	ng/g	230	41	1.25 JEB	0.725 JEB	1.68 JEB	< 0.0498 U	194 JEB	< 0.0478 U	< 0.0498 U	0.458 JEB	< 0.0464 U	0.793 JEB
PCB-012/013	PCB-12/13	ng/g	230	41	5.77 J	2.83 J	6.11 J	< 0.0897 U	373 J	< 0.0861 U	< 0.0897 U	1.44 J	0.724 J	2.71 J
PCB-014	34883-41-5	ng/g	230	41	< 0.0492 U	< 0.0500 U	< 0.0490 U	< 0.0500 U	< 0.0500 U	< 0.0480 U	< 0.0500 U	< 0.0493 U	< 0.0465 U	< 0.0477 U
PCB-015	2050-68-2	ng/g	230	41	52.4 JEB	20.1 EB	30.4 EB	1.68 JEB	4150 JEB	< 0.0440 U	1.73 JEB	9.10 JEB	4.06 JEB	11.8 JEB
PCB-016/032	PCB-16/32	ng/g	230	41	48.3 JEB	17.7 JEB	22.6 EB	1.88 JEB	10000 JEB	< 0.125 U	1.80 JEB	6.89 JEB	4.13 JEB	11.6 JEB
PCB-017	37680-66-3	ng/g	230	41	28.2 EB	12.6 JEB	17.0 JEB	1.41 JEB	5440 JEB	< 0.0550 U	0.952 JEB	3.97 JEB	2.57 JEB	7.76 JEB
PCB-018	37680-65-2	ng/g	230	41	40.7 JEB	17.9 JEB	19.9 EB	1.79 JEB	2060 JEB	< 0.0636 U	0.546 JEB	5.03 JEB	3.26 JEB	6.07 JEB
PCB-019	38444-73-4	ng/g	230	41	14.2 J	3.32 J	4.15 J	0.784 J	11300 J	< 0.0432 U	0.571 JEB	1.69 JEB	0.816 JEB	3.95 JEB
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	6.58 JEB	11.6 JEB	7.36 JEB	0.777 JEB	211 JEB	< 0.133 U	0.440 JEB	2.14 JEB	1.48 JEB	2.92 JEB
PCB-022	38444-85-8	ng/g	230	41	8.76 JEB	13.7 JEB	8.93 JEB	0.656 JEB	564 JEB	< 0.0474 U	0.335 JEB	2.44 JEB	1.69 JEB	3.00 JEB
PCB-023/034	PCB-23/34	ng/g	230	41	0.750 J	< 0.0903 U	< 0.0885 U	< 0.0903 U	205 J	< 0.0867 U	< 0.0903 U	< 0.0890 U	< 0.0840 U	< 0.0861 U
PCB-024/027	PCB-24/27	ng/g	230	41	6.37 J	3.29 J	3.70 J	0.412 J	4890 J	< 0.0842 U	0.397 J	1.41 J	0.722 J	2.21 J
PCB-025	55712-37-3	ng/g	230	41	21.7	13.1 J	18.4 J	0.814 J	2200 J	< 0.0488 U	0.551 J	4.20 J	2.21 J	8.04 J
PCB-026	38444-81-4	ng/g	230	41	35.7	23.0	23.4	1.28 J	3770 J	< 0.0415 U	0.764 JEB	8.27 JEB	4.31 JEB	12.6 JEB
PCB-028	7012-37-5	ng/g	230	41	21.0 EB	95.5 JEB	153 JEB	5.97 JEB	1870 JEB	0.311 JEB	2.00 JEB	19.6 EB	10.5 JEB	22.4 EB
PCB-029	15862-07-4	ng/g	230	41	< 0.0514 U	< 0.0522 U	< 0.0512 U	< 0.0522 U	5.64 J	< 0.0501 U	< 0.0522 U	< 0.0514 U	< 0.0486 U	< 0.0497 U
PCB-030	35693-92-6	ng/g	230	41	< 0.0471 U	< 0.0478 U	< 0.0469 U	< 0.0478 U	12.3 J	< 0.0459 U	< 0.0479 U	< 0.0471 U	< 0.0445 U	< 0.0456 U
PCB-031	16606-02-3	ng/g	230	41	54.0 JEB	69.7 JEB	73.9 JEB	4.29 JEB	4760 JEB	0.249 JEB	1.59 JEB	17.7 JEB	8.33 JEB	19.7 EB
PCB-035	37680-69-6	ng/g	230	41	< 0.0558 U	0.791 J+	0.810 J+	< 0.0567 U	15.3 J+	< 0.0545 U	< 0.0568 U	< 0.0559 U	< 0.0528 U	< 0.0541 U
PCB-036	38444-87-0	ng/g	230	41	< 0.0476 U	< 0.0484 U	< 0.0475 U	< 0.0484 U	15.6 J	< 0.0465 U	< 0.0484 U	< 0.0477 U	< 0.0451 U	< 0.0462 U
PCB-037	38444-90-5	ng/g	230	41	12.8 J	30.4	36.8	2.69 J	383 J	< 0.0510 U	1.06 J	6.35 J	2.59 J	4.80 J
PCB-038	53555-66-1	ng/g	230	41	1.06 J	1.95 J	3.55 J	0.246 J	144 J	< 0.0385 U	< 0.0401 U	0.715 J	< 0.0373 U	0.636 J
PCB-039	38444-88-1	ng/g	230	41	< 0.0242 U	< 0.0246 U	< 0.0241 U	< 0.0246 U	63.1 J	< 0.0236 U	< 0.0246 U	< 0.0243 U	< 0.0229 U	< 0.0235 U
PCB-040	38444-93-8	ng/g	230	41	6.96 JEB	8.89 JEB	10.1 JEB	0.786 JEB	144 JEB	< 0.0394 U	0.299 JEB	2.74 JEB	1.14 JEB	2.50 JEB

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0110-B1S1	23D-0111-B1S1	23D-0112-PLS1	23D-0113-B1S1	23D-0114-B2S1	23D-0115-PLS1	23D-0116-PLS1	23D-0117-B1S1	23D-0117-B1S1	23D-0118-PLS1
				Sample Name	23D-0110-B1S1-AS	23D-0111-B1S1-AS	23D-0112-PLS1-AS	23D-0113-B1S1-AS	23D-0114-B2S1-AS	23D-0115-PLS1-AS	23D-0116-PLS1-AS	23D-0117-B1S1-AS	23D-0117-B1S1-BS	23D-0118-PLS1-AS
				Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 0.3 ft	0 - 1 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-041/064	PCB-41/64	ng/g	230	41	21.3 EB	47.8 JEB	52.0 JEB	2.83 JEB	772 JEB	0.112 JEB	0.850 JEB	16.1 JEB	5.83 JEB	9.49 JEB
PCB-042	36559-22-5	ng/g	230	41	22.9	27.3	27.6	2.29 J	1030 J	< 0.0985 U	0.869 J	9.71 J	3.84 J	7.77 J
PCB-043/049	PCB-43/49	ng/g	230	41	77.0 JEB	99.1 JEB	109 JEB	11.5 JEB	6470 JEB	0.433 JEB	3.68 JEB	35.9 JEB	13.2 JEB	30.0 JEB
PCB-044	41464-39-5	ng/g	230	41	51.1 JEB	61.9 JEB	58.0 JEB	6.01 JEB	1240 JEB	0.255 JEB	2.03 JEB	22.9 EB	8.79 JEB	17.6 JEB
PCB-045	70362-45-7	ng/g	230	41	8.70 JEB	7.30 JEB	5.96 JEB	0.898 JEB	271 JEB	< 0.0429 U	0.262 JEB	3.97 JEB	1.52 JEB	3.59 JEB
PCB-046	41464-47-5	ng/g	230	41	5.68 J	1.76 J	1.88 J	< 0.0522 U	225 J	< 0.0501 U	< 0.0522 U	1.09 J	0.436 J	1.26 J
PCB-047/048/075	PCB-47/48/75	ng/g	230	41	40.6 JEB	68.6 JEB	125 JEB	10.0 JEB	5470 JEB	0.265 JEB	2.40 JEB	26.8 EB	9.75 JEB	22.0 EB
PCB-050	62796-65-0	ng/g	230	41	< 0.0627 U	< 0.0637 U	< 0.0624 U	< 0.0637 U	92.8 J	< 0.0611 U	< 0.0637 U	< 0.0628 U	< 0.0593 U	< 0.0607 U
PCB-051	68194-04-7	ng/g	230	41	8.11 J	2.37 J	3.64 J	0.328 J	1490 J	< 0.0520 U	0.300 J	1.84 J	0.696 J	2.54 J
PCB-052/073	PCB-52/73	ng/g	230	41	82.6 JEB	112 JEB	118 JEB	12.5 JEB	5180 JEB	0.473 JEB	3.46 JEB	40.3 JEB	14.9 JEB	31.6 EB
PCB-053	41464-41-9	ng/g	230	41	22.3 EB	9.15 JEB	12.3 JEB	1.45 JEB	3040 JEB	< 0.0463 U	0.525 JEB	5.40 JEB	2.07 JEB	6.79 JEB
PCB-054	15968-05-5	ng/g	230	41	0.756 J	0.187 J	< 0.0414 U	< 0.0423 U	259 J	< 0.0406 U	< 0.0423 U	< 0.0417 U	< 0.0393 U	< 0.0403 U
PCB-055	74338-24-2	ng/g	230	41	< 0.0541 U	0.876 J	< 0.0539 U	< 0.0549 U	2.88 J+	< 0.0528 U	< 0.0550 U	< 0.0542 U	< 0.0512 U	< 0.0524 U
PCB-056/060	PCB-56/60	ng/g	230	41	5.99 JEB	49.5 JEB	72.5 JEB	4.63 JEB	32.7 J+EB	0.184 JEB	1.65 JEB	12.1 JEB	4.67 JEB	4.39 JEB
PCB-057	70424-67-8	ng/g	230	41	< 0.0418 U	0.999 J	1.09 J	< 0.0424 U	132 J	< 0.0408 U	< 0.0425 U	< 0.0419 U	< 0.0395 U	< 0.0405 U
PCB-058	41464-49-7	ng/g	230	41	< 0.0379 U	< 0.0385 U	0.651 J	< 0.0385 U	3.76 J+	< 0.0369 U	< 0.0385 U	< 0.0379 U	< 0.0358 U	< 0.0367 U
PCB-059	74472-33-6	ng/g	230	41	3.29 J	5.05 J	5.04 J	0.327 J	84.1 J	< 0.0724 U	0.175 J	1.76 J	0.593 J	1.30 J
PCB-061/074	PCB-61/74	ng/g	230	41	9.64 JEB	51.3 JEB	67.0 JEB	4.46 JEB	220 JEB	0.162 JEB	1.15 JEB	13.2 JEB	5.34 JEB	5.78 JEB
PCB-062	54230-22-7	ng/g	230	41	< 0.0517 U	< 0.0526 U	< 0.0515 U	< 0.0526 U	< 0.0526 U	< 0.0505 U	< 0.0526 U	< 0.0518 U	< 0.0489 U	< 0.0501 U
PCB-063	74472-34-7	ng/g	230	41	1.14 J	6.45 J	8.94 J	< 0.0395 U	390 J	< 0.0379 U	< 0.0395 U	1.89 J	0.744 J	1.34 J
PCB-065	33284-54-7	ng/g	230	41	< 0.0746 U	< 0.0758 U	< 0.0743 U	< 0.0758 U	6.78 J+	< 0.0728 U	< 0.0758 U	< 0.0747 U	< 0.0706 U	< 0.0723 U
PCB-066/080	PCB-66/80	ng/g	230	41	20.0 EB	111 JEB	166 JEB	13.1 JEB	238 JEB	0.353 JEB	3.19 JEB	30.7 EB	11.2 JEB	9.88 JEB
PCB-067	73575-53-8	ng/g	230	41	0.823 J	3.05 J	4.20 J	< 0.0464 U	16.6 J+	< 0.0446 U	< 0.0465 U	0.624 J	< 0.0432 U	< 0.0443 U
PCB-068	73575-52-7	ng/g	230	41	< 0.0541 U	< 0.0550 U	1.90 J	0.355 J	124 J	< 0.0528 U	< 0.0550 U	< 0.0542 U	< 0.0512 U	< 0.0524 U
PCB-069	60233-24-1	ng/g	230	41	< 0.0562 U	< 0.0572 U	< 0.0560 U	< 0.0571 U	41.8 J	< 0.0549 U	< 0.0572 U	< 0.0563 U	< 0.0532 U	< 0.0545 U
PCB-070	32598-11-1	ng/g	230	41	23.1 EB	103 JEB	161 JEB	13.7 JEB	71.7 JEB	0.454 JEB	3.54 JEB	27.2 EB	10.0 JEB	9.20 JEB
PCB-071	41464-46-4	ng/g	230	41	23.7 EB	13.1 JEB	24.9 EB	1.63 JEB	1230 JEB	0.0899 JEB	0.732 JEB	5.84 JEB	2.32 JEB	6.11 JEB
PCB-072	41464-42-0	ng/g	230	41	1.21 J	1.73 J	3.07 J	0.559 J	160 J	< 0.0594 U	0.165 J	0.724 J	< 0.0576 U	0.612 J
PCB-076	70362-48-0	ng/g	230	41	< 0.0748 U	< 0.0760 U	< 0.0745 U	< 0.0760 U	< 0.0760 U	< 0.0729 U	< 0.0760 U	< 0.0749 U	< 0.0707 U	< 0.0724 U
PCB-077	32598-13-3	ng/g	38.0	41	3.58 J+	16.1 J+	25.5 J+	4.00 J+	94.2 J	< 0.0430 U	0.993 J+EB	4.41 J+EB	1.45 J+EB	1.71 J+EB
PCB-078	70362-49-1	ng/g	230	41	< 0.0383 U	< 0.0389 U	0.578 J	< 0.0389 U	4.99 J+	< 0.0373 U	< 0.0389 U	< 0.0383 U	< 0.0362 U	< 0.0371 U
PCB-079	41464-48-6	ng/g	230	41	< 0.0480 U	< 0.0488 U	< 0.0478 U	< 0.0488 U	< 0.0488 U	< 0.0469 U	< 0.0488 U	< 0.0481 U	< 0.0454 U	< 0.0465 U
PCB-081	70362-50-4	ng/g	12.0	41	< 0.0750 U	1.28 J+	2.40 J	< R	6.94 J	< 0.0731 U	< 0.0762 U	< 0.0751 U	< 0.0709 U	< 0.0726 U
PCB-082	52663-62-4	ng/g	230	41	2.91 J	7.55 J	15.1 J	1.68 J	62.4 J	< 0.0269 U	0.901 J	2.90 J	0.990 J	1.35 J
PCB-083/109	PCB-83/109	ng/g	230	41	1.62 J	4.10 J	8.65 J	1.19 J	106 J	< 0.115 U	< 0.120 U	1.52 J	0.527 J	1.13 J
PCB-084	52663-60-2	ng/g	230	41	7.70 J	14.3 J	23.5	2.45 J	291 J	< 0.0465 U	1.01 J	5.76 J	2.09 J	3.88 J
PCB-085/120	PCB-85/120	ng/g	230	41	5.85 J	20.6	42.4 J	8.49 J	112 J	< 0.104 U	3.98 J	7.67 J	2.72 J	3.11 J
PCB-086/097	PCB-86/97	ng/g	230	41	6.60 J	19.2 J	39.9 J	5.39 J	100 J	< 0.0455 U	2.03 J	7.44 J	2.50 J	3.15 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	41	< 0.0301 U	< 0.0306 U	< 0.0300 U	< 0.0305 U	< 0.0305 U	< 0.0293 U	< 0.0306 U	< 0.0301 U	< 0.0284 U	< 0.0291 U
PCB-088/121	PCB-88/121	ng/g	230	41	< 0.109 U	< 0.111 U	< 0.108 U	< 0.110 U	5.40 J	< 0.106 U	< 0.111 U	< 0.109 U	< 0.103 U	< 0.105 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	41	17.2 J	50.5 J	112 J	17.5 J	597 J	0.416 JEB	6.82 JEB	20.0 EB	6.87 JEB	9.22 JEB
PCB-091	68194-05-8	ng/g	230	41	6.59 J	13.4 J	26.4	3.16 J	540 J	< 0.0594 U	1.35 J	5.71 J	1.97 J	3.81 J
PCB-092	52663-61-3	ng/g	230	41	4.23 J	11.0 J	20.4	3.51 J	569 J	< 0.0261 U	1.70 J	4.42 J	1.58 J	2.93 J
PCB-093/095	PCB-93/95	ng/g	230	41	18.0 JEB	40.6 JEB	62.6 JEB	8.41 JEB	759 JEB	< 0.0768 U	3.94 J	17.5 J	6.09 J	10.5 J
PCB-094	73575-55-0	ng/g	230	41	< 0.0898 U	0.756 J	1.47 J	< 0.0912 U	89.3 J	< 0.0876 U	< 0.0913 U	< 0.0900 U	< 0.0850 U	< 0.0870 U
PCB-096	73575-54-9	ng/g	230	41	0.619 J	0.647 J	0.936 J	< 0.0430 U	35.6	< 0.0413 U	< 0.0431 U	0.365 J	< 0.0401 U	< 0.0410 U
PCB-098/102	PCB-98/102	ng/g	230	41	2.51 J	3.34 J	6.46 J	0.426 J	176 J	< 0.0766 U	< 0.0798 U	1.51 J	0.507 J	1.09 J
PCB-099	38380-01-7	ng/g	230	41	11.0 J	36.2	80.6 J	15.7 J	405 J	0.321 JEB	5.93 JEB	14.0 JEB	4.71 JEB	5.83 JEB
PCB-100	39485-83-1	ng/g	230	41	< 0.0478 U	< 0.0486 U	0.975 J	< 0.0486 U	88.0 J	< 0.0467 U	< 0.0486 U	< 0.0479 U	< 0.0453 U	< 0.0463 U
PCB-103	60145-21-3	ng/g	230	41	0.398 J	0.621 J	1.35 J	< 0.0502 U	79.2 J	< 0.0482 U	< 0.0502 U	0.310 J	< 0.0467 U	< 0.0479 U
PCB-104	56558-16-8	ng/g	230	41	< 0.0457 U	< 0.0464 U	< 0.0455 U	< 0.0464 U	7.25 J	< 0.0446 U	< 0.0465 U	< 0.0458 U	< 0.0432 U	< 0.0443 U
PCB-105/127	PCB-105/127	ng/g	120	41	4.30 J	31.7	69.3 J	10.8 J	99.5 J	< 0.0756 U	2.97 J	9.50 J	3.26 J	3.14 J
PCB-106/118	PCB-106/118	ng/g	120	41	13.9 J	62.6 J	134 J	23.0	325 J	0.459 J	5.74 J	22.1	7.58 J	7.64 J
PCB-107/108	PCB-107/108	ng/g	230	41	1.10 J	5.38 J	11.5 J	2.29 J	56.5 J	< 0.0928 U	0.667 J	1.96 J	0.763 J	0.702 J
PCB-110	38380-03-9	ng/g	230	41	28.1 EB	77.1 JEB	168 JEB	24.4 EB	1380 JEB	0.703 JEB	10.4 JEB	31.8 JEB	10.9 JEB	18.4 JEB
PCB-111/117	PCB-111/117	ng/g	230	41	7.31 J	23.2	46.1 J	6.40 J	284 J	< 0.132 U	2.61 J	8.79 J	3.05 J	3.76 J
PCB-112	74472-36-9	ng/g	230	41	< 0.0471 U	0.322 J	0.698 J	< 0.0478 U	16.1 J	< 0.0459 U	< 0.0479 U	< 0.0471 U	< 0.0445 U	< 0.0456 U
PCB-113	68194-10-5	ng/g	230	41	< 0.0494 U	< 0.0502 U	< 0.0492 U	< 0.0502 U	21.2	< 0.0482 U	< 0.0502 U	< 0.0495 U	< 0.0467 U	< 0.0479 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0110-B1S1	23D-0111-B1S1	23D-0112-PLS1	23D-0113-B1S1	23D-0114-B2S1	23D-0115-PLS1	23D-0116-PLS1	23D-0117-B1S1	23D-0117-B1S1	23D-0118-PLS1
				Sample Name	23D-0110-B1S1-AS	23D-0111-B1S1-AS	23D-0112-PLS1-AS	23D-0113-B1S1-AS	23D-0114-B2S1-AS	23D-0115-PLS1-AS	23D-0116-PLS1-AS	23D-0117-B1S1-AS	23D-0117-B1S1-BS	23D-0118-PLS1-AS
				Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 0.3 ft	0 - 1 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
PCB-114	74472-37-0	ng/g	120	41	< 0.0410 U	2.27 J	4.62 J	0.598 J	11.8 J	< 0.0400 U	< 0.0417 U	0.752 J	< 0.0388 U	< 0.0397 U
PCB-119	56558-17-9	ng/g	230	41	1.01 J	2.50 J	5.40 J	0.757 J	135 J	< 0.0529 U	< 0.0552 U	1.09 J	0.347 J	0.701 J
PCB-122	76842-07-4	ng/g	230	41	< 0.0346 U	1.01 J	2.28 J	< 0.0351 U	2.78 J	< 0.0337 U	< 0.0351 U	< 0.0346 U	< 0.0327 U	< 0.0335 U
PCB-123	65510-44-3	ng/g	120	41	< 0.0320 U	2.10 J+	4.56 J+	1.12 J+	18.1 J+	< 0.0312 U	0.460 J+	0.873 J+	< 0.0303 U	< 0.0310 U
PCB-124	70424-70-3	ng/g	230	41	< 0.0432 U	2.46 J	5.18 J	1.06 J	7.75 J	< 0.0421 U	0.504 J	0.840 J	< 0.0408 U	< 0.0418 U
PCB-125	74472-39-2	ng/g	230	41	< 0.0473 U	< 0.0480 U	< 0.0471 U	< 0.0480 U	5.51 J	< 0.0461 U	< 0.0480 U	< 0.0473 U	< 0.0447 U	< 0.0458 U
PCB-126	57465-28-8	ng/g	0.0360	41	< 0.0672 U	0.504 J+	1.02 J+	< 0.0682 U	11.4 J+	< 0.0655 U	< 0.0683 U	< 0.0673 U	< 0.0635 U	< 0.0651 U
PCB-128	38380-07-3	ng/g	230	41	1.72 J	5.03 J	12.3 J	3.22 J	102 J	< 0.0463 U	2.03 J	2.76 J	0.886 J	1.49 J
PCB-129	55215-18-4	ng/g	230	41	< 0.0521 U	1.07 J	3.03 J	< 0.0530 U	15.7 J	< 0.0509 U	< 0.0530 U	< 0.0522 U	< 0.0493 U	< 0.0505 U
PCB-130	52663-66-8	ng/g	230	41	0.635 J	1.76 J	4.37 J	1.21 J	55.1 J	< 0.0400 U	0.663 J	0.900 J	0.322 J	< 0.0397 U
PCB-131/142	PCB-131/142	ng/g	230	41	< 0.101 U	< 0.103 U	0.618 J	< 0.103 U	6.68 J	< 0.0985 U	< 0.103 U	< 0.101 U	< 0.0955 U	< 0.0978 U
PCB-132/168	PCB-132/168	ng/g	230	41	3.16 J	7.67 J	18.5 J	3.59 J	211 J	< 0.115 U	2.26 J	4.27 J	1.37 J	2.53 J
PCB-133	35694-04-3	ng/g	230	41	< 0.0367 U	< 0.0373 U	0.982 J	< 0.0373 U	29.1	< 0.0358 U	< 0.0373 U	< 0.0368 U	< 0.0347 U	< 0.0356 U
PCB-134	52704-70-8	ng/g	230	41	0.412 J	1.17 J	2.88 J	0.538 J	40.6 J	< 0.0948 U	< 0.0989 U	0.572 J	< 0.0920 U	< 0.0942 U
PCB-135/144	PCB-135/144	ng/g	230	41	1.39 J	3.41 J	8.33 J	1.67 J	116 J	< 0.0996 U	1.02 J	1.83 J	0.540 J	1.04 J
PCB-136	38411-22-2	ng/g	230	41	1.10 J	2.31 J	5.03 J	0.953 J	74.0 J	< 0.0830 U	0.494 J	1.34 J	0.439 J	0.767 J
PCB-137	35694-06-5	ng/g	230	41	0.519 J	1.54 J	3.83 J	0.900 J	34.3	< 0.0465 U	0.600 J	0.805 J	0.274 J	< 0.0462 U
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	8.93 J	27.4	64.1 J	17.9 J	575 J	0.621 J	11.2 J	14.3 J	5.12 J	7.92 J
PCB-139/149	PCB-139/149	ng/g	230	41	5.72 J	15.2 J	36.7	8.26 J	438 J	0.286 J	4.86 J	8.37 J	2.86 J	5.20 J
PCB-140	59291-64-4	ng/g	230	41	< 0.0695 U	< 0.0707 U	< 0.0692 U	< 0.0706 U	8.59 J	< 0.0678 U	< 0.0707 U	< 0.0696 U	< 0.0658 U	< 0.0673 U
PCB-141	52712-04-6	ng/g	230	41	1.18 J	3.67 J	9.13 J	1.92 J	48.0 J	< 0.0476 U	1.42 J	2.06 J	0.659 J	0.792 J
PCB-143	68194-15-0	ng/g	230	41	< 0.0627 U	< 0.0637 U	< 0.0624 U	< 0.0637 U	2.92 J	< 0.0611 U	< 0.0637 U	< 0.0628 U	< 0.0593 U	< 0.0607 U
PCB-145	74472-40-5	ng/g	230	41	< 0.0828 U	< 0.0842 U	< 0.0825 U	< 0.0841 U	0.919 J	< 0.0808 U	< 0.0842 U	< 0.0829 U	< 0.0783 U	< 0.0802 U
PCB-146	51908-16-8	ng/g	230	41	1.05 J	2.90 J	6.62 J	2.05 J	101 J	< 0.0547 U	1.07 J	1.48 J	0.486 J	0.956 J
PCB-147	68194-13-8	ng/g	230	41	0.216 J	0.665 J	1.32 J	0.355 J	67.8 J	< 0.0712 U	0.233 J	0.423 J	< 0.0691 U	0.238 J
PCB-148	74472-41-6	ng/g	230	41	< 0.0765 U	< 0.0778 U	< 0.0762 U	< 0.0778 U	6.08 J	< 0.0747 U	< 0.0778 U	< 0.0767 U	< 0.0724 U	< 0.0741 U
PCB-150	68194-08-1	ng/g	230	41	< 0.0773 U	< 0.0786 U	< 0.0770 U	< 0.0785 U	4.99 J	< 0.0754 U	< 0.0786 U	< 0.0775 U	< 0.0731 U	< 0.0749 U
PCB-151	52663-63-5	ng/g	230	41	1.47 J	3.66 J	7.74 J	1.53 J	143 J	< 0.0547 U	1.23 J	1.90 J	0.588 J	1.23 J
PCB-152	68194-09-2	ng/g	230	41	< 0.0904 U	< 0.0919 U	< 0.0901 U	< 0.0918 U	6.53 J	< 0.0882 U	< 0.0919 U	< 0.0906 U	< 0.0855 U	< 0.0876 U
PCB-153	35065-27-1	ng/g	230	41	5.61 J	17.2 J	41.3 J	11.5 J	342 J	0.482 J	7.23 J	8.71 J	2.95 J	4.77 J
PCB-154	60145-22-4	ng/g	230	41	< 0.0539 U	0.304 J	0.665 J	< 0.0547 U	33.5	< 0.0526 U	< 0.0548 U	< 0.0540 U	< 0.0510 U	< 0.0522 U
PCB-155	33979-03-2	ng/g	230	41	< 0.0465 U	< 0.0472 U	< 0.0463 U	< 0.0472 U	0.319 J	< 0.0453 U	< 0.0473 U	< 0.0466 U	< 0.0440 U	< 0.0450 U
PCB-156	38380-08-4	ng/g	120	41	0.747 J	2.84 J	6.75 J	1.55 J	53.1 J	< 0.0381 R	0.775 J-	1.18 J-	0.393 J-	0.477 J-
PCB-157	69782-90-7	ng/g	120	41	< 0.0543 U	0.741 J+	1.83 J+	0.458 J+	16.6 J+	< 0.0529 UJ	0.277 J	< 0.0544 UJ	< 0.0514 UJ	< 0.0526 UJ
PCB-158/160	PCB-158/160	ng/g	230	41	0.699 J	2.40 J	5.89 J	1.36 J	52.2 J	< 0.116 U	0.857 J	1.18 J	0.355 J	0.610 J
PCB-159	39635-35-3	ng/g	230	41	< 0.0750 U	< 0.0762 U	< 0.0747 U	< 0.0762 U	5.31 J	< 0.0731 U	< 0.0762 U	< 0.0751 U	< 0.0709 U	< 0.0726 U
PCB-161	74472-43-8	ng/g	230	41	< 0.0701 U	< 0.0713 U	< 0.0698 U	< 0.0712 U	< 0.0712 U	< 0.0684 U	< 0.0713 U	< 0.0702 U	< 0.0663 U	< 0.0679 U
PCB-162	39635-34-2	ng/g	230	41	< 0.0553 U	< 0.0562 U	< 0.0550 U	< 0.0561 U	3.97 J	< 0.0539 U	< 0.0562 U	< 0.0554 U	< 0.0523 U	< 0.0535 U
PCB-165	74472-46-1	ng/g	230	41	< 0.0758 U	< 0.0770 U	< 0.0755 U	< 0.0770 U	4.09 J	< 0.0739 U	< 0.0770 U	< 0.0759 U	< 0.0717 U	< 0.0734 U
PCB-166	41411-63-6	ng/g	230	41	< 0.0652 U	< 0.0663 U	< 0.0650 U	< 0.0663 U	3.32 J	< 0.0636 U	< 0.0663 U	< 0.0653 U	< 0.0617 U	< 0.0632 U
PCB-167	52663-72-6	ng/g	120	41	0.321 J	1.04 J	2.47 J	0.727 J	21.6	< 0.0489 U	0.421 J	0.441 J	< 0.0475 U	< 0.0486 U
PCB-169	32774-16-6	ng/g	0.120	41	< 0.0553 U	< 0.0562 U	< 0.0550 U	< 0.0561 U	< 0.0561 U	< 0.0539 U	< 0.0562 U	< 0.0554 U	< 0.0523 U	< 0.0535 U
PCB-170/190	PCB-170/190	ng/g	230	41	1.79 J	6.25 J	12.8 J	3.28 J	161 J	0.189 J	2.58 J	2.36 J	0.827 J	1.29 J
PCB-171	52663-71-5	ng/g	230	41	0.426 J	1.25 J	2.69 J	0.636 J	41.7 J	< 0.0705 U	0.466 J	0.543 J	< 0.0683 U	< 0.0700 U
PCB-172/192	PCB-172/192	ng/g	230	41	< 0.120 U	0.768 J	1.53 J	0.416 J	22.4	< 0.117 U	0.349 J	< 0.120 U	< 0.113 U	< 0.116 U
PCB-173	68194-16-1	ng/g	230	41	< 0.0808 U	< 0.0822 U	< 0.0805 U	< 0.0821 U	3.03 J	< 0.0788 U	< 0.0822 U	< 0.0810 U	< 0.0765 U	< 0.0783 U
PCB-174	38411-25-5	ng/g	230	41	1.42 J	4.64 J	10.4 J	2.44 J	115 J	< 0.0988 U	1.80 J	1.92 J	0.623 J	0.989 J
PCB-175	40186-70-7	ng/g	230	41	< 0.0623 U	< 0.0633 U	0.291 J	< 0.0633 U	6.40 J	< 0.0608 U	< 0.0633 U	< 0.0624 U	< 0.0589 U	< 0.0603 U
PCB-176	52663-65-7	ng/g	230	41	0.140 J	0.356 J	0.950 J	0.162 J	16.0 J	< 0.0568 U	< 0.0592 U	< 0.0583 U	< 0.0550 U	< 0.0564 U
PCB-177	52663-70-4	ng/g	230	41	0.869 J	2.92 J	6.52 J	1.69 J	90.2 J	< 0.0708 U	1.10 J	1.07 J	0.337 J	0.563 J
PCB-178	52663-67-9	ng/g	230	41	0.248 J	0.989 J	2.40 J	0.715 J	39.9 J	< 0.0889 U	0.345 J	0.389 J	< 0.0863 U	0.272 J
PCB-179	52663-64-6	ng/g	230	41	0.507 J	1.50 J	3.70 J	0.882 J	54.7 J	< 0.0470 U	0.581 J	0.637 J	0.224 J	0.375 J
PCB-180	35065-29-3	ng/g	230	41	3.23 J	10.6 J	22.0	5.32 J	281 J	0.268 J	4.47 J	4.04 J	1.50 J	2.35 J
PCB-181	74472-47-2	ng/g	230	41	< 0.0553 U	< 0.0562 U	< 0.0550 U	< 0.0561 U	< 0.0561 U	< 0.0539 U	< 0.0562 U	< 0.0554 U	< 0.0523 U	< 0.0535 U
PCB-182/187	PCB-182/187	ng/g	230	41	1.65 J	5.54 J	12.4 J	3.67 J	183 J	0.223 J	2.41 J	2.40 J	0.940 J	1.60 J
PCB-183	52663-69-1	ng/g	230	41	0.666 J	1.91 J	4.36 J	1.13 J	70.6 J	< 0.0705 U	0.684 J	0.770 J	0.269 J	0.473 J
PCB-184	74472-48-3	ng/g	230	41	< 0.0523 U	< 0.0532 U	< 0.0521 U	< 0.0532 U	< 0.0532 U	< 0.0510 U	< 0.0532 U	< 0.0524 U	< 0.0495 U	< 0.0507 U
PCB-185	52712-05-7	ng/g	230	41	< 0.0724 U	0.526 J	1.18 J	0.232 J	12.4 J	< 0.0707 U	< 0.0737 U	< 0.0726 U	< 0.0685 U	< 0.0702 U

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0110-B1S1	23D-0111-B1S1	23D-0112-PLS1	23D-0113-B1S1	23D-0114-B2S1	23D-0115-PLS1	23D-0116-PLS1	23D-0117-B1S1	23D-0117-B1S1	23D-0118-PLS1
					Sample Name	23D-0110-B1S1-AS	23D-0111-B1S1-AS	23D-0112-PLS1-AS	23D-0113-B1S1-AS	23D-0114-B2S1-AS	23D-0115-PLS1-AS	23D-0116-PLS1-AS	23D-0117-B1S1-AS	23D-0117-B1S1-BS	23D-0118-PLS1-AS
					Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 0.3 ft	0 - 1 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-186	74472-49-4	ng/g	230	41		< 0.0654 U	< 0.0665 U	< 0.0652 U	< 0.0664 U	< 0.0664 U	< 0.0638 U	< 0.0665 U	< 0.0655 U	< 0.0619 U	< 0.0634 U
PCB-188	74487-85-7	ng/g	230	41		< 0.0599 U	< 0.0609 U	< 0.0597 U	< 0.0609 U	0.916 J	< 0.0585 U	< 0.0610 U	< 0.0601 U	< 0.0567 U	< 0.0581 U
PCB-189	39635-31-9	ng/g	130	41		< 0.0609 U	0.282 J	0.525 J	0.184 J	7.62 J	< 0.0594 U	< 0.0619 U	< 0.0610 U	< 0.0576 U	< 0.0590 U
PCB-191	74472-50-7	ng/g	230	41		< 0.0551 U	0.174 J	0.377 J	< 0.0559 U	5.14 J	< 0.0537 U	< 0.0560 U	< 0.0552 U	< 0.0521 U	< 0.0533 U
PCB-193	69782-91-8	ng/g	230	41		< 0.0695 U	0.665 J	1.24 J	0.330 J	15.0 J	< 0.0678 U	0.240 J	0.236 J	< 0.0658 U	< 0.0673 U
PCB-194	35694-08-7	ng/g	230	41		1.28 J	4.83 J	7.65 J	2.53 J	119 J	< 0.0857 U	1.90 J	1.41 J	< 0.0831 U	0.690 J
PCB-195	52663-78-2	ng/g	230	41		< 0.156 U	1.65 J	2.83 J	1.11 J	38.5	< 0.152 U	0.525 J	< 0.156 U	< 0.147 U	< 0.151 U
PCB-196/203	PCB-196/203	ng/g	230	41		1.14 J	4.00 J	7.19 J	2.11 J	117 J	< 0.144 U	1.63 J	1.11 J	< 0.140 U	0.578 J
PCB-197	33091-17-7	ng/g	230	41		< 0.0658 U	< 0.0669 U	< 0.0655 U	< 0.0668 U	3.55 J	< 0.0642 U	< 0.0669 U	< 0.0659 U	< 0.0622 U	< 0.0637 U
PCB-198	68194-17-2	ng/g	230	41		< 0.107 U	< 0.109 U	< 0.106 U	< 0.109 U	5.32 J	< 0.104 U	< 0.109 U	< 0.107 U	< 0.101 U	< 0.103 U
PCB-199	52663-75-9	ng/g	230	41		0.727 J	3.39 J	6.70 J	2.11 J	97.5 J	< 0.100 U	1.69 J	0.981 J	< 0.0972 U	0.617 J
PCB-200	52663-73-7	ng/g	230	41		< 0.0523 U	0.320 J	0.762 J	0.259 J	11.3 J	< 0.0510 U	< 0.0532 U	< 0.0524 U	< 0.0495 U	< 0.0507 U
PCB-201	40186-71-8	ng/g	230	41		< 0.0414 U	< 0.0421 U	0.569 J	< 0.0421 U	11.4 J	< 0.0404 U	< 0.0421 U	< 0.0415 U	< 0.0392 U	< 0.0401 U
PCB-202	2136-99-4	ng/g	230	41		< 0.0707 U	0.442 J	1.28 J	0.383 J	17.4 J	< 0.0689 U	< 0.0719 U	< 0.0708 U	< 0.0669 U	< 0.0685 U
PCB-204	74472-52-9	ng/g	230	41		< 0.0865 U	< 0.0879 U	< 0.0862 U	< 0.0879 U	< 0.0879 U	< 0.0844 U	< 0.0880 U	< 0.0867 U	< 0.0818 U	< 0.0838 U
PCB-205	74472-53-0	ng/g	230	41		< 0.0613 U	< 0.0623 U	< 0.0611 U	< 0.0623 U	5.72 J	< 0.0598 U	< 0.0623 U	< 0.0614 U	< 0.0580 U	< 0.0594 U
PCB-206	40186-72-9	ng/g	230	41		< 0.0588 U	1.99 J	5.49 J	1.23 J	46.5 J	< 0.0573 U	0.967 J	0.601 J	0.220 J	0.463 J
PCB-207	52663-79-3	ng/g	230	41		< 0.0777 U	< 0.0790 U	0.470 J	< 0.0789 U	4.91 J	< 0.0758 U	< 0.0790 U	< 0.0779 U	< 0.0735 U	< 0.0753 U
PCB-208	52663-77-1	ng/g	230	41		< 0.0777 U	0.442 J	2.01 J	0.431 J	11.0 J	< 0.0758 U	0.280 J	< 0.0779 U	< 0.0735 U	< 0.0753 U
PCB-209	2051-24-3	ng/g	230	41		< 0.0447 U	0.499 J	7.37 J	0.652 J	10.4 J	< 0.0436 U	1.25 J	0.277 J	< 0.0423 U	0.381 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0		< 0.0447 U	0.499	7.37	0.652	10.4	< 0.0436 U	1.25	0.277	< 0.0423 U	0.381
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0		10.9	38.4	83.4	21.1	1130	0.680	15.0	14.4	4.72	7.91
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0		34.9	102	244	59.7	2620	1.39	36.6	52.5	17.2	28.0
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0		3.15	14.6	27.0	8.50	427	< 0.152 U	5.74	3.50	< 0.147 U	1.89
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14		1020	1760	2800	349	124000	7.31	151	604	230	435
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0		141	434	895	138	6400	1.90	51.0	167	56.5	80.3
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0		89.4	38.7	68.6	4.28	31300	< 0.0899 U	2.83	18.3	9.78	31.6
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0		2.60	1.79	0.859	0.229	5250	< 0.0516 U	< 0.0538 U	1.52	0.444	3.12
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0		< 0.0777 U	2.43	7.97	1.66	62.4	< 0.0758 U	1.25	0.601	0.220	0.463
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0		440	810	1070	91.4	28500	2.78	26.3	265	98.5	175
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0		300	315	393	23.0	47900	0.560	11.0	80.4	42.6	106
TAL Metals and Mercury															
Aluminum	7429-90-5	mg/kg	7700			5300	6200	6600	5800	9700	8200	12000	11000	6600	5000
Calcium	7440-70-2	mg/kg				1600 J	2600 J	2100 J	1900 J	1900 J	2100	4900	3000	1200	1900
Iron	7439-89-6	mg/kg	5500			5800 EB	8900 EB	11000 EB	9700 EB	14000 EB	12000	24000	18000	5600	7000
Magnesium	7439-95-4	mg/kg				1500 J	3900 J	2600 J	2400 J	2900 J	5900 J	5400 J	12000 J	3200 J	2700 J
Potassium	7440-09-7	mg/kg				< 700 U	< 560 U	< 540 U	< 570 U	< 760 U	530	840	320 J	210 J	340 J
Sodium	7440-23-5	mg/kg				91 J	52 J	58 J	52 J	140 J	< 530 U	< 530 U	< 580 U	< 580 U	< 610 U
Antimony	7440-36-0	mg/kg	3.1	0.27		0.18 J	0.26 J	0.61 J	0.38 J	1.2 J	0.083 J	0.48 J	0.18 J	0.11 J	0.21 J
Arsenic	7440-38-2	mg/kg	0.68	18		1.0	2.2	3.5	2.5	5.5	1.9	3.2	1.2	0.93	1.2
Barium	7440-39-3	mg/kg	1500	110		22 EB	37 EB	170 EB	35 EB	96 EB	22 J	47 J	24 J	26 J	19 J
Beryllium	7440-41-7	mg/kg	16	2.5		< 0.66 U	< 0.58 U	< 0.54 U	< 0.52 U	< 0.79 U	0.26 J	0.36 J	0.21 J	0.16 J	0.20 J
Cadmium	7440-43-9	mg/kg	0.71	0.36		0.15 J-	0.12 J-	0.15 J-	< 0.52 UJ	1.1 J-	< 0.52 UJ	0.18 J-	< 0.54 UJ	< 0.57 UJ	< 0.57 UJ
Chromium, Total	7440-47-3	mg/kg	0.3	23		23 JEB	13 JEB	25 JEB	25 JEB	65 JEB	11 J	19 J	13 J	11 J	16 J
Cobalt	7440-48-4	mg/kg	2.3	13		1.7 J	3.9 J	5.4 J	4.5 J	5.7 J	5.6	6.5	2.8	2.2	2.2
Copper	7440-50-8	mg/kg	310	28		18 JEB	18 JEB	21 JEB	23 JEB	88 JEB	13 EB	27 EB	15 EB	9.0 EB	20 EB
Lead	7439-92-1	mg/kg	200	11		40 J	40 J	510 J	52 J	190 J	11	54	24	13	22
Manganese	7439-96-5	mg/kg	180	220		66 JEB	210 JEB	250 JEB	240 JEB	150 JEB	320 EB	320 EB	130 EB	150 EB	77 EB
Nickel	7440-02-0	mg/kg	140	38		3.0	6.9	8.6	8.3	14	10 J	11 J	4.3 J	3.9 J	4.6 J
Selenium	7782-49-2	mg/kg	39	0.52		< 3.3 U	0.82 J	< 2.7 U	0.77 J	1.5 J	< 2.6 U	1.0 J	0.71 J	< 2.8 U	< 2.9 U
Silver	7440-22-4	mg/kg	39	4.2		0.059 J	0.069 J	0.097 J	0.071 J	0.64 J	0.026 J	0.084 J	0.044 J	0.035 J	0.062 J
Thallium	7440-28-0	mg/kg	0.078	0.05		< 0.66 U	< 0.58 U	0.025 J	0.026 J	0.081 J	0.026 J	0.041 J	< 0.54 U	< 0.57 U	0.026 J
Vanadium	7440-62-2	mg/kg	39	7.8		5.5 J	13 J	25 J	19 J	33 J	16 J	25 J	9.4 J	10 J	8.6 J
Zinc	7440-66-6	mg/kg	2300	46		46 JEB	50 JEB	150 JEB	48 JEB	170 JEB	35 EB	83 EB	40 EB	37 EB	20 EB
Mercury	7439-97-6	mg/kg	2.3	0.013		0.13	0.13	0.31	0.33	1.1	0.035 J	0.19	0.16	0.072 J	0.14

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0110-B1S1	23D-0111-B1S1	23D-0112-PLS1	23D-0113-B1S1	23D-0114-B2S1	23D-0115-PLS1	23D-0116-PLS1	23D-0117-B1S1	23D-0117-B1S1	23D-0118-PLS1
					Sample Name	23D-0110-B1S1-AS	23D-0111-B1S1-AS	23D-0112-PLS1-AS	23D-0113-B1S1-AS	23D-0114-B2S1-AS	23D-0115-PLS1-AS	23D-0116-PLS1-AS	23D-0117-B1S1-AS	23D-0117-B1S1-BS	23D-0118-PLS1-AS
					Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 0.3 ft	0 - 1 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
2-HEXANONE	591-78-6	ug/kg	20000	360	< 12 U	< 13 U	< 11 U	< 11 U	< 15 U	< 10 U	< 12 U	< 14 U	< 10 U	< 12 U
ACETONE	67-64-1	ug/kg	7000000	1200	15 EB	< 13 U	6.9 JEB	< 11 U	< 15 U	< 10 U	69 EB	< 14 U	5.6 JEB	8.6 JEB
Benzene	71-43-2	ug/kg	1200	120	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
BROMOFORM	75-25-2	ug/kg	19000	70	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
BROMOMETHANE	74-83-9	ug/kg	680	2	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Chloroform	67-66-3	ug/kg	320	50	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Cyclohexane	110-82-7	ug/kg	650000		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Ethylbenzene	100-41-4	ug/kg	5800	270	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	< 12 U	< 13 U	< 11 U	< 11 U	< 15 U	< 10 U	< 12 U	< 14 U	< 10 U	< 12 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 12 U	< 13 U	< 11 U	< 11 U	< 15 U	< 10 U	< 12 U	< 14 U	< 10 U	< 12 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Methylene Chloride	75-09-2	ug/kg	35000	210	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Styrene	100-42-5	ug/kg	600000	1200	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Toluene	108-88-3	ug/kg	490000	150	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U
Vinyl Chloride	75-01-4	ug/kg	59	30	< 6.2 U	< 6.6 U	< 5.7 U	< 5.7 U	< 7.6 U	< 5.2 U	< 6.2 U	< 6.8 U	< 5.2 U	< 6.2 U

Table 15
Floodplain Soil Analytical Results
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				Location	23D-0110-B1S1	23D-0111-B1S1	23D-0112-PLS1	23D-0113-B1S1	23D-0114-B2S1	23D-0115-PLS1	23D-0116-PLS1	23D-0117-B1S1	23D-0117-B1S1	23D-0118-PLS1
				Sample Name	23D-0110-B1S1-AS	23D-0111-B1S1-AS	23D-0112-PLS1-AS	23D-0113-B1S1-AS	23D-0114-B2S1-AS	23D-0115-PLS1-AS	23D-0116-PLS1-AS	23D-0117-B1S1-AS	23D-0117-B1S1-BS	23D-0118-PLS1-AS
				Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0 - 1 ft	0 - 0.3 ft	0 - 1 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 97 U	< 79 U	< 75 U	< 76 U	< 110 U	< 71 U	< 74 U	< 82 U	< 76 U	< 80 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 250 UJ	< 200 UJ	< 190 UJ	< 190 UJ	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 480 U	< 390 U	< 370 U	< 380 UJ	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
Acenaphthene	83-32-9	ug/kg	360000	29000	-	-	-	-	-	< 180 U	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		87 JEB	160 JEB	170 JEB	110 JEB	82 J	64 J	150 J	100 J	69 J	84 J
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	70 J	< 400 U	< 380 U	< 400 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	-	-	300	-	-	-	-	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	210	-	-	-	-	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	-	-	570	-	-	-	-	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	-	-	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
Caprolactam	105-60-2	ug/kg	3100000		< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	340	-	-	-	-	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	-	-	360	-	-	-	-	-	-
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	-	-	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U

Table 15
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					Location	23D-0110-B1S1	23D-0111-B1S1	23D-0112-PLS1	23D-0113-B1S1	23D-0114-B2S1	23D-0115-PLS1	23D-0116-PLS1	23D-0117-B1S1	23D-0117-B1S1	23D-0118-PLS1
					Sample Name	23D-0110-B1S1-AS	23D-0111-B1S1-AS	23D-0112-PLS1-AS	23D-0113-B1S1-AS	23D-0114-B2S1-AS	23D-0115-PLS1-AS	23D-0116-PLS1-AS	23D-0117-B1S1-AS	23D-0117-B1S1-BS	23D-0118-PLS1-AS
					Sample Date	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0 - 1 ft	0 - 0.3 ft	0 - 1 ft	0 - 0.7 ft	0 - 0.8 ft	0 - 1 ft	0 - 1 ft	0 - 1 ft	1 - 1.9 ft	0 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
Naphthalene	91-20-3	ug/kg	2000	29000	-	-	-	-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	2200	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	< 250 U	< 200 U	< 190 U	< 190 U	< 270 U	< 180 U	< 190 U	< 210 U	< 190 U	< 200 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	< 480 U	< 390 U	-	< 380 U	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	-	-	-	-	-	-	-	-	-	-
PHENOL	108-95-2	ug/kg	1900000	790	< 480 U	< 390 U	< 370 U	< 380 U	< 520 U	< 350 U	< 370 U	< 400 U	< 380 U	< 400 U
PYRENE	129-00-0	ug/kg	180000	1100	-	-	-	310	-	-	-	-	-	-
1-Methylnaphthalene	90-12-0	ug/kg	18	140	< 4.8 U	2.6 J	6.2	2.1 J	1.2 J	< 3.5 U	3.3 J	1.5 J	< 3.8 U	< 4.0 U
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	< 4.8 U	4.2	9.6	3.7 J	2.0 J	< 3.5 U	5.4	2.1 J	< 3.8 U	< 4.0 U
Acenaphthene	83-32-9	ug/kg	360000	29000	1.4 J	4.0 J	6.4 J	2.8 J	2.2 J	-	5.3 J	3.5 J	0.76 J	0.88 J
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	1.9 J	17	19	120	3.8 J	1.0 J	20	4.9	1.6 J	3.1 J
ANTHRACENE	120-12-7	ug/kg	1800000	29000	3.1 J	19	24	86	5.3	1.7 J	19	12	3.1 J	4.4
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	16	130	110	-	32	10	98	53	15	28
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	17	160	130	-	34	12	110	59	16	33
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	21	250	220	-	50	16	160	81	24	50
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	8.4	95	88	210	20	7.2	60	33	9.0	20
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	7.7	87	62	300	18	5.9	53	29	9.3	16
CHRYSENE	218-01-9	ug/kg	110000	1100	17	150	150	-	38	12	100	61	17	33
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	2.2 J	20	27	78	5.6	1.9 J	18	8.4	2.5 J	4.6
FLUORANTHENE	206-44-0	ug/kg	240000	1100	33	290	250	-	68	25	180	100	33	64
FLUORENE	86-73-7	ug/kg	240000	29000	1.3 J	5.4	7.1	5.6	2.7 J	< 3.5 U	5.1	4.2	1.1 J	1.0 J
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	7.3	80	67	220	18	6.5	50	30	8.1	17
Naphthalene	91-20-3	ug/kg	2000	29000	1.8 JEB	6.9 EB	12 EB	5.6 EB	3.8 J	< 3.5 U	7.6	4.1	1.3 J	1.1 J
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	-	-	4.1 J	-	< 11 U	< 7.2 U	< 7.5 U	< 8.2 U	< 7.7 U	< 8.0 U
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	14	97	120	47	22	7.1	71	54	13	18
PYRENE	129-00-0	ug/kg	180000	1100	27 J	250 J	220 J	-	57	23	170	89	27	55
Asbestos														
ASBESTOS	1332-21-4	%			< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U

Table 15
Floodplain Soil Analytical Results
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					Location	23D-0118-PLS1	23D-0119-PLS1	23D-0119-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1
					Sample Name	23D-0118-PLS1-BS	23D-0119-PLS1-AS	23D-0119-PLS1-BS	23D-0120-PLS1-AS	23D-0120-PLS1-BS	23D-0120-PLS1-AT	23D-0120-PLS1-BT
					Sample Date	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
					Sample Type	N	N	N	N	N	FD	FD
					Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.8 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL								
PCDD/F												
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	2.74	118	130	1440 J	2730 J	2510 J	1110 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	< 0.115 U	1.55 J	2.32 J	22.3 J	21.9 J	43.3 J	11.7 J
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	< 0.338 U	1.9 J	2.01 J	12.1 J	24.6 J+	28.0 J	15.5 J+
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	< 0.143 U	2.26 J	3.75	32.6 J	26.0 J	88.9 J	20.6 J
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	0.325 J	7.12	7.80	70.7 J	142 J	132 J	72.6 J
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	< 0.139 U	1.33 J+	3.04 J+	20.3 J	14.9 J	44.1 J	12.2 J
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	< 0.218 U	3.69	3.83 JN	38.7 J	79.1 J	77.2 J	44.0 J
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	< 0.192 U	< 0.335 U	< 0.295 U	< 0.995 U	< 0.745 U	< 0.891 U	< 0.507 U
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	< 0.167 UJ	0.783 J	1.56 J	4.77 JN	11.7 J	12.2 JN	7.09 JN
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	< 0.124 U	0.405 JN	3.04 J+	6.32 J	3.52	14.3 J	3.44
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	2.09 J	45.4	46.7	565	555 J	865 J	393 J
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	0.113 JN	1.75 J	2.98	21.1 J	19.4 J	42.1 J	15.7 J
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	< 0.117 U	2.93 J	6.72 J	41.4 J	29.5 J	111 J	28.5 J
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	< 0.958 UJ	< 0.982 UJ	0.679 JN	2.33 J	1.67	5.98 J	1.60
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	0.136 JN	1.33	5.87	14.1 J	8.14 J	33.9 J	8.73 J
OCDD	3268-87-9	pg/g	16000	10500	13.4 JN	744	857	9540 J	13200 J	18200 J	5600 J
OCDF	39001-02-0	pg/g	16000	10500	1 JN	41.7	41.4	573	684 J	906 J	352 J
Total HpCDD (a)	RA_Total_HpCDD	pg/g			2.74	118	130	1440	2730	2510	1110
Total HpCDF (a)	RA_Total_HpCDF	pg/g			2.09	47.0	49.0	587	577	908	405
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		0.325	12.7	13.6	122	246	237	132
Total HxCDF (a)	RA_Total_HxCDF	pg/g			0.113	5.34	9.77	74.0	60.3	175	48.5
Total PeCDD (a)	RA_Total_PeCDD	pg/g			< 0.167 U	0.783	1.56	4.77	11.7	12.2	7.09
Total PeCDF (a)	RA_Total_PeCDF	pg/g			< 0.124 U	3.34	9.76	47.7	33.0	125	31.9
Total TCDD (a)	RA_Total_TCDD	pg/g			< 0.958 U	< 0.982 U	0.679	2.33	1.67	5.98	1.60
Total TCDF (a)	RA_Total_TCDF	pg/g			0.136	1.33	5.87	14.1	8.14	33.9	8.73
PCB Congeners											
PCB-001	2051-60-7	ng/g	230	41	< 0.0360 U	0.748 J	251 J	413 J	186 J	813 J	192 J
PCB-002	2051-61-8	ng/g	230	41	< 0.0520 U	< 0.0532 U	5.48 J	5.81 J	1.22 J	13.9 J	1.61 J
PCB-003	2051-62-9	ng/g	230	41	< 0.0506 U	0.308 J	167 J	152 J	38.6	434 J	45.3 J
PCB-004/010	PCB-4/10	ng/g	230	41	< 0.0905 U	2.22 J	177 J	1360 J	546 J	3020 J	536 J
PCB-005/008	PCB-5/8	ng/g	230	41	< 0.0865 U	5.08 JEB	274 JEB	551 JEB	120 JEB	1120 JEB	146 JEB
PCB-006	25569-80-6	ng/g	230	41	< 0.0504 U	4.15 J	59.8 J	122 J	29.2	232 J	34.5
PCB-007/009	PCB-7/9	ng/g	230	41	< 0.0874 U	0.359 J	9.11 J	18.4 J	4.40 J	36.0	5.55 J
PCB-011	2050-67-1	ng/g	230	41	< 0.0481 U	0.510 JEB	18.8 JEB	30.6 EB	8.35 JEB	101 JEB	10.1 JEB
PCB-012/013	PCB-12/13	ng/g	230	41	< 0.0866 U	1.34 J	79.2 J	98.2 J	19.6	264 J	24.7
PCB-014	34883-41-5	ng/g	230	41	< 0.0483 U	< 0.0495 U	< 0.0493 U	< 0.0499 U	< 0.0490 U	< 0.0488 U	< 0.0476 U
PCB-015	2050-68-2	ng/g	230	41	< 0.0443 U	7.74 JEB	728 JEB	1920 JEB	340 JEB	4170 JEB	309 JEB
PCB-016/032	PCB-16/32	ng/g	230	41	< 0.126 U	4.31 JEB	133 JEB	3070 JEB	659 JEB	6710 JEB	689 JEB
PCB-017	37680-66-3	ng/g	230	41	< 0.0554 U	2.53 JEB	63.3 JEB	1020 JEB	215 JEB	1900 JEB	231 JEB
PCB-018	37680-65-2	ng/g	230	41	< 0.0640 U	4.11 JEB	33.4 EB	422 JEB	94.8 JEB	581 JEB	94.0 JEB
PCB-019	38444-73-4	ng/g	230	41	< 0.0435 U	0.588 JEB	71.0 JEB	2180 JEB	612 JEB	5580 JEB	618 JEB
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	< 0.134 U	2.75 JEB	10.8 JEB	65.0 JEB	23.2 EB	140 JEB	23.6 EB
PCB-022	38444-85-8	ng/g	230	41	< 0.0477 U	3.00 JEB	26.4 EB	204 JEB	31.9 EB	362 JEB	32.2 EB
PCB-023/034	PCB-23/34	ng/g	230	41	< 0.0872 U	< 0.0894 U	1.90 J	21.9	7.46 J	74.5 J	6.68 J
PCB-024/027	PCB-24/27	ng/g	230	41	< 0.0847 U	0.588 J	31.4	738 J	213 J	2210 J	208 J
PCB-025	55712-37-3	ng/g	230	41	< 0.0491 U	5.09 J	74.4 J	552 J	101 J	1150 J	106 J
PCB-026	38444-81-4	ng/g	230	41	< 0.0418 U	6.79 JEB	84.2 JEB	810 JEB	161 JEB	1780 JEB	167 JEB
PCB-028	7012-37-5	ng/g	230	41	< 0.0460 U	13.9 JEB	65.8 JEB	387 JEB	91.2 JEB	687 JEB	101 JEB
PCB-029	15862-07-4	ng/g	230	41	< 0.0504 U	< 0.0517 U	< 0.0515 U	< 0.0521 U	< 0.0511 U	3.74 J	< 0.0497 U
PCB-030	35693-92-6	ng/g	230	41	< 0.0462 U	< 0.0473 U	< 0.0472 U	2.34 J	0.607 J	6.23 J	0.483 J
PCB-031	16606-02-3	ng/g	230	41	< 0.0581 U	11.0 JEB	125 JEB	670 JEB	158 JEB	1230 JEB	166 JEB
PCB-035	37680-69-6	ng/g	230	41	< 0.0548 U	< 0.0562 U	1.45 J+	7.25 J+	< 0.0556 U	12.9 J+	1.10 J+
PCB-036	38444-87-0	ng/g	230	41	< 0.0468 U	< 0.0479 U	< 0.0478 U	< 0.0483 U	< 0.0474 U	12.4 J	< 0.0461 U
PCB-037	38444-90-5	ng/g	230	41	< 0.0514 U	3.46 J	59.3 J	257 J	37.6	379 J	38.9 J
PCB-038	53555-66-1	ng/g	230	41	< 0.0387 U	0.341 J	1.46 J	37.8	8.83 J	100 J	9.39 J
PCB-039	38444-88-1	ng/g	230	41	< 0.0238 U	< 0.0244 U	1.15 J	8.43 J	2.71 J	31.8	2.77 J
PCB-040	38444-93-8	ng/g	230	41	< 0.0397 U	2.32 JEB	3.14 JEB	17.6 JEB	6.65 JEB	31.8 EB	8.07 JEB

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23D-0118-PLS1	23D-0119-PLS1	23D-0119-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1
					Sample Name	23D-0118-PLS1-BS	23D-0119-PLS1-AS	23D-0119-PLS1-BS	23D-0120-PLS1-AS	23D-0120-PLS1-BS	23D-0120-PLS1-AT	23D-0120-PLS1-BT
					Sample Date	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
					Sample Type	N	N	N	N	N	FD	FD
					Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.8 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL								
PCB-041/064	PCB-41/64	ng/g	230	41		< 0.0901 U	6.27 JEB	14.4 JEB	157 JEB	54.2 JEB	326 JEB	53.0 JEB
PCB-042	36559-22-5	ng/g	230	41		< 0.0991 U	4.96 J	17.5 J	319 J	62.4 J	581 J	66.3 J
PCB-043/049	PCB-43/49	ng/g	230	41		< 0.105 UJ	20.3 JEB	80.9 JEB	1980 JEB	422 JEB	4260 JEB	445 JEB
PCB-044	41464-39-5	ng/g	230	41		< 0.0527 U	14.3 JEB	24.9 EB	268 JEB	66.6 JEB	423 JEB	75.0 JEB
PCB-045	70362-45-7	ng/g	230	41		< 0.0431 U	2.25 JEB	3.15 JEB	22.7 EB	10.2 JEB	61.0 JEB	11.8 JEB
PCB-046	41464-47-5	ng/g	230	41		< 0.0504 U	0.611 J	3.57 J	90.5 J	20.1	182 J	21.4
PCB-047/048/075	PCB-47/48/75	ng/g	230	41		< 0.165 U	13.4 JEB	54.9 JEB	1450 JEB	341 JEB	3740 JEB	365 JEB
PCB-050	62796-65-0	ng/g	230	41		< 0.0615 U	< 0.0631 U	0.759 J	22.5	5.78 J	63.7 J	5.82 J
PCB-051	68194-04-7	ng/g	230	41		< 0.0523 U	0.962 J	13.1 J	440 J	101 J	1200 J	106 J
PCB-052/073	PCB-52/73	ng/g	230	41		< 0.120 U	22.2 EB	70.0 JEB	1600 JEB	340 JEB	3380 JEB	353 JEB
PCB-053	41464-41-9	ng/g	230	41		< 0.0466 U	3.08 JEB	22.4 EB	667 JEB	170 JEB	1790 JEB	177 JEB
PCB-054	15968-05-5	ng/g	230	41		< 0.0408 U	< 0.0418 U	1.41 J	50.1 J	14.3 J	171 J	14.9 J
PCB-055	74338-24-2	ng/g	230	41		< 0.0531 U	< 0.0544 U	< 0.0542 U	< 0.0548 U	1.08 J	1.22 J+	< 0.0524 U
PCB-056/060	PCB-56/60	ng/g	230	41		< 0.104 U	2.93 JEB	6.91 JEB	36.7 EB	16.3 JEB	45.5 JEB	17.9 JEB
PCB-057	70424-67-8	ng/g	230	41		< 0.0410 U	< 0.0420 U	0.526 J	10.9 J	3.82 J	34.1 J+	3.56 J
PCB-058	41464-49-7	ng/g	230	41		< 0.0372 U	< 0.0381 U	< 0.0380 U	1.42 J	< 0.0377 U	1.66 J+	< 0.0367 U
PCB-059	74472-33-6	ng/g	230	41		< 0.0728 U	0.888 J	1.41 J	10.0 J	3.01 J	21.2 J+	3.66 J
PCB-061/074	PCB-61/74	ng/g	230	41		< 0.0957 U	3.86 JEB	14.3 JEB	149 JEB	34.9 EB	166 JEB	33.1 EB
PCB-062	54230-22-7	ng/g	230	41		< 0.0508 U	< 0.0521 U	< 0.0519 U	< 0.0525 U	< 0.0515 U	< 0.0513 U	< 0.0501 U
PCB-063	74472-34-7	ng/g	230	41		< 0.0381 U	0.662 J	2.67 J	44.8 J	14.2 J	120 J	14.3 J
PCB-065	33284-54-7	ng/g	230	41		< 0.0732 U	< 0.0751 U	< 0.0748 U	< 0.0756 U	< 0.0742 U	2.25 J+	< 0.0722 U
PCB-066/080	PCB-66/80	ng/g	230	41		< 0.0928 U	8.57 JEB	24.0 EB	239 JEB	65.7 JEB	249 JEB	66.7 JEB
PCB-067	73575-53-8	ng/g	230	41		< 0.0449 U	< 0.0460 U	0.791 J	5.61 J	1.94 J	8.52 J+	1.87 J
PCB-068	73575-52-7	ng/g	230	41		< 0.0531 U	< 0.0544 U	1.33 J	35.5	11.4 J	96.5 J	12.1 J
PCB-069	60233-24-1	ng/g	230	41		< 0.0552 U	< 0.0566 U	0.362 J	9.74 J	2.91 J	27.8 J+	2.76 J
PCB-070	32598-11-1	ng/g	230	41		< 0.0498 U	8.29 JEB	16.1 JEB	125 JEB	52.5 JEB	126 JEB	53.2 JEB
PCB-071	41464-46-4	ng/g	230	41		< 0.0675 U	4.34 JEB	21.6 EB	517 JEB	117 JEB	977 JEB	116 JEB
PCB-072	41464-42-0	ng/g	230	41		< 0.0598 U	0.476 J	1.87 J	40.6 J	12.4 J	118 J	12.3 J
PCB-076	70362-48-0	ng/g	230	41		< 0.0734 U	< 0.0752 U	< 0.0750 U	< 0.0758 U	< 0.0744 U	< 0.0741 U	< 0.0724 U
PCB-077	32598-13-3	ng/g	38.0	41		< 0.0433 U	2.06 J+EB	8.24 J+EB	49.6 JEB	9.72 JEB	84.8 JEB	11.1 JEB
PCB-078	70362-49-1	ng/g	230	41		< 0.0376 U	< 0.0385 U	< 0.0384 U	< 0.0388 U	< 0.0381 U	2.19 J+	< 0.0370 U
PCB-079	41464-48-6	ng/g	230	41		< 0.0472 U	< 0.0483 U	< 0.0482 U	< 0.0487 U	< 0.0478 U	1.43 J+	< 0.0465 U
PCB-081	70362-50-4	ng/g	12.0	41		< 0.0736 U	< 0.0754 U	< 0.0752 U	1.85 J+	< R	3.92 J	< R
PCB-082	52663-62-4	ng/g	230	41		< 0.0270 U	1.93 J	1.98 J	15.2 J	6.31 J	22.4	4.57 J
PCB-083/109	PCB-83/109	ng/g	230	41		< 0.116 U	1.16 J	1.49 J	15.0 J	5.63 J	40.6 J	5.22 J
PCB-084	52663-60-2	ng/g	230	41		< 0.0468 U	5.15 J	5.92 J	45.4 J	20.4	115 J	17.8 J
PCB-085/120	PCB-85/120	ng/g	230	41		< 0.104 U	4.66 J	4.72 J	38.9	13.5 J	56.1 J	11.1 J
PCB-086/097	PCB-86/97	ng/g	230	41		< 0.0458 U	4.54 J	4.65 J	38.1	17.9 J	49.1 J	13.6 J
PCB-087/115/116	PCB-87/115/116	ng/g	230	41		< 0.0295 U	< 0.0303 U	< 0.0302 U	< 0.0305 U	< 0.0299 U	< 0.0298 U	< 0.0291 U
PCB-088/121	PCB-88/121	ng/g	230	41		< 0.107 U	< 0.109 U	< 0.109 U	< 0.110 U	< 0.108 U	3.47 J	< 0.105 U
PCB-089/090/101	PCB-89/90/101	ng/g	230	41		< 0.116 U	13.1 JEB	14.0 JEB	150 JEB	72.2 JEB	338 JEB	57.1 JEB
PCB-091	68194-05-8	ng/g	230	41		< 0.0598 U	4.59 J	6.55 J	110 J	33.6	330 J	34.8
PCB-092	52663-61-3	ng/g	230	41		< 0.0263 U	3.49 J	5.08 J	90.4 J	31.4	305 J	30.4
PCB-093/095	PCB-93/95	ng/g	230	41		< 0.0773 U	12.8 J	13.5 J	90.0 J	50.4 J	225 J	40.4 J
PCB-094	73575-55-0	ng/g	230	41		< 0.0882 U	< 0.0904 U	0.664 J	13.5 J	4.43 J	49.0 J	4.90 J
PCB-096	73575-54-9	ng/g	230	41		< 0.0416 U	0.312 J	0.361 J	5.20 J	1.88 J	16.0 J	1.88 J
PCB-098/102	PCB-98/102	ng/g	230	41		< 0.0771 U	1.27 J	2.01 J	32.9	9.16 J	90.1 J	9.43 J
PCB-099	38380-01-7	ng/g	230	41		< 0.0426 U	8.84 JEB	9.93 JEB	122 JEB	39.9 JEB	222 JEB	35.0 EB
PCB-100	39485-83-1	ng/g	230	41		< 0.0470 U	< 0.0481 U	0.576 J	17.0 J	5.69 J	66.0 J	6.24 J
PCB-103	60145-21-3	ng/g	230	41		< 0.0485 U	< 0.0497 U	0.610 J	16.0 J	4.70 J	50.8 J	4.91 J
PCB-104	56558-16-8	ng/g	230	41		< 0.0449 U	< 0.0460 U	< 0.0458 U	1.59 J	0.546 J	5.97 J	0.534 J
PCB-105/127	PCB-105/127	ng/g	120	41		< 0.0761 U	2.86 J	3.54 J	40.4 J	16.5 J	56.6 J	10.4 J
PCB-106/118	PCB-106/118	ng/g	120	41		< 0.0909 U	10.6 J	12.6 J	136 J	56.4 J	192 J	40.7 J
PCB-107/108	PCB-107/108	ng/g	230	41		< 0.0934 U	1.11 J	1.37 J	14.6 J	5.35 J	28.2	4.63 J
PCB-110	38380-03-9	ng/g	230	41		< 0.0435 UJ	23.9 JEB	27.1 JEB	254 JEB	103 JEB	667 JEB	86.8 JEB
PCB-111/117	PCB-111/117	ng/g	230	41		< 0.132 U	5.22 J	5.70 J	66.6 J	27.9	169 J	22.7
PCB-112	74472-36-9	ng/g	230	41		< 0.0462 U	< 0.0473 U	< 0.0472 U	2.03 J	0.709 J	7.16 J	0.672 J
PCB-113	68194-10-5	ng/g	230	41		< 0.0485 U	< 0.0497 U	< 0.0495 U	2.12 J	0.707 J	8.14 J	< 0.0478 U

Table 15
Floodplain Soil Analytical Results
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					Location	23D-0118-PLS1	23D-0119-PLS1	23D-0119-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1
					Sample Name	23D-0118-PLS1-BS	23D-0119-PLS1-AS	23D-0119-PLS1-BS	23D-0120-PLS1-AS	23D-0120-PLS1-BS	23D-0120-PLS1-AT	23D-0120-PLS1-BT
					Sample Date	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
					Sample Type	N	N	N	N	N	FD	FD
					Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.8 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL								
PCB-114	74472-37-0	ng/g	120	41	< 0.0403 U	< 0.0413 U	< 0.0411 U	3.51 J	1.08 J-	5.56 J-	< R
PCB-119	56558-17-9	ng/g	230	41	< 0.0533 U	0.882 J	1.39 J	27.0	7.24 J	81.9 J	7.44 J
PCB-122	76842-07-4	ng/g	230	41	< 0.0339 U	< 0.0348 U	< 0.0347 U	1.50 J	< 0.0344 U	1.98 J	< 0.0335 U
PCB-123	65510-44-3	ng/g	120	41	< 0.0314 U	0.387 J+	< 0.0321 U	5.55 J+	2.01 J	11.2 J	1.81 J
PCB-124	70424-70-3	ng/g	230	41	< 0.0424 U	< 0.0434 U	< 0.0433 U	3.85 J	1.81 J	5.26 J	0.896 J
PCB-125	74472-39-2	ng/g	230	41	< 0.0464 U	< 0.0475 U	< 0.0474 U	2.10 J	< 0.0470 U	4.22 J	< 0.0457 U
PCB-126	57465-28-8	ng/g	0.0360	41	< 0.0659 U	< 0.0676 U	< 0.0674 U	3.15 J+	< 0.0669 UJ	8.33 J	< 0.0650 UJ
PCB-128	38380-07-3	ng/g	230	41	< 0.0466 U	2.23 J	1.97 J	24.4	12.7 J	58.6 J	8.51 J
PCB-129	55215-18-4	ng/g	230	41	< 0.0512 U	< 0.0525 U	< 0.0523 U	4.21 J	2.40 J	8.07 J	1.28 J
PCB-130	52663-66-8	ng/g	230	41	< 0.0403 U	0.960 J	0.898 J	11.4 J	5.13 J	31.1	3.79 J
PCB-131/142	PCB-131/142	ng/g	230	41	< 0.0991 U	< 0.102 U	< 0.101 U	1.52 J	0.844 J	3.68 J	0.495 J
PCB-132/168	PCB-132/168	ng/g	230	41	< 0.116 U	3.85 J	4.10 J	43.3 J	21.4	115 J	15.2 J
PCB-133	35694-04-3	ng/g	230	41	< 0.0360 U	< 0.0369 U	< 0.0368 U	4.83 J	2.00 J	18.2 J	2.04 J
PCB-134	52704-70-8	ng/g	230	41	< 0.0955 U	0.548 J	0.484 J	7.18 J	3.50 J	22.0	2.79 J
PCB-135/144	PCB-135/144	ng/g	230	41	< 0.100 U	1.61 J	1.78 J	21.4	10.1 J	63.7 J	7.97 J
PCB-136	38411-22-2	ng/g	230	41	< 0.0836 U	1.21 J	1.38 J	13.9 J	7.39 J	40.7 J	5.71 J
PCB-137	35694-06-5	ng/g	230	41	< 0.0468 U	0.601 J	0.493 J	8.45 J	4.50 J	19.3 J	2.71 J
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	< 0.150 U	11.1 J	10.5 J	141 J	67.4 J	341 J	48.7 J
PCB-139/149	PCB-139/149	ng/g	230	41	< 0.138 U	7.58 J	8.00 J	91.4 J	42.8 J	257 J	33.4
PCB-140	59291-64-4	ng/g	230	41	< 0.0682 U	< 0.0699 U	< 0.0697 U	1.39 J	< 0.0692 U	4.59 J	0.500 J
PCB-141	52712-04-6	ng/g	230	41	< 0.0479 U	1.40 J	1.14 J	14.3 J	8.77 J	24.9	5.26 J
PCB-143	68194-15-0	ng/g	230	41	< 0.0615 U	< 0.0631 U	< 0.0628 U	0.955 J	< 0.0624 U	1.75 J	< 0.0607 U
PCB-145	74472-40-5	ng/g	230	41	< 0.0813 U	< 0.0833 U	< 0.0830 U	< 0.0839 U	< 0.0824 U	0.616 J	< 0.0801 U
PCB-146	51908-16-8	ng/g	230	41	< 0.0550 U	1.45 J	1.65 J	21.4	9.53 J	60.4 J	8.11 J
PCB-147	68194-13-8	ng/g	230	41	< 0.0717 U	0.285 J	0.492 J	11.7 J	4.83 J	46.8 J	4.83 J
PCB-148	74472-41-6	ng/g	230	41	< 0.0751 U	< 0.0770 U	< 0.0767 U	1.00 J	0.367 J	4.27 J	0.449 J
PCB-150	68194-08-1	ng/g	230	41	< 0.0759 U	< 0.0778 U	< 0.0775 U	0.784 J	0.286 J	3.25 J	0.318 J
PCB-151	52663-63-5	ng/g	230	41	< 0.0550 U	1.79 J	2.03 J	27.4	12.1 J	85.7 J	10.7 J
PCB-152	68194-09-2	ng/g	230	41	< 0.0888 U	< 0.0910 U	< 0.0906 U	1.16 J	0.389 J	4.26 J	0.411 J
PCB-153	35065-27-1	ng/g	230	41	< 0.0483 U	7.07 J	7.14 J	87.8 J	42.6 J	195 J	30.9
PCB-154	60145-22-4	ng/g	230	41	< 0.0529 U	< 0.0542 U	0.274 J	5.58 J	2.38 J	21.3	2.47 J
PCB-155	33979-03-2	ng/g	230	41	< 0.0456 U	< 0.0468 U	< 0.0466 U	< 0.0471 U	< 0.0463 U	0.258 J	< 0.0450 U
PCB-156	38380-08-4	ng/g	120	41	< 0.0383 R	0.779 J-	0.599 J-	11.9 J-	6.35 J-	27.5 J-	3.56 J-
PCB-157	69782-90-7	ng/g	120	41	< 0.0533 UJ	< 0.0546 UJ	< 0.0544 UJ	3.90 J	1.94 J	9.51 J	0.946 J
PCB-158/160	PCB-158/160	ng/g	230	41	< 0.117 U	0.985 J	0.862 J	12.4 J	6.03 J	27.8	3.91 J
PCB-159	39635-35-3	ng/g	230	41	< 0.0736 U	< 0.0754 U	< 0.0752 U	1.40 J	< 0.0746 U	3.80 J	< 0.0726 U
PCB-161	74472-43-8	ng/g	230	41	< 0.0688 U	< 0.0705 U	< 0.0703 U	< 0.0711 U	< 0.0698 U	< 0.0695 U	< 0.0679 U
PCB-162	39635-34-2	ng/g	230	41	< 0.0543 U	< 0.0556 U	< 0.0554 U	< 0.0560 U	< 0.0550 U	2.54 J	< 0.0535 U
PCB-165	74472-46-1	ng/g	230	41	< 0.0744 U	< 0.0762 U	< 0.0760 U	0.665 J	< 0.0754 U	2.76 J	< 0.0733 U
PCB-166	41411-63-6	ng/g	230	41	< 0.0640 U	< 0.0656 U	< 0.0654 U	< 0.0661 U	< 0.0649 U	1.93 J	< 0.0631 U
PCB-167	52663-72-6	ng/g	120	41	< 0.0493 U	0.317 J	0.352 J	5.17 J	2.57 J-	12.1 J-	1.42 J-
PCB-169	32774-16-6	ng/g	0.120	41	< 0.0543 U	< 0.0556 U	< 0.0554 U	< 0.0560 U	< R	< R	< R
PCB-170/190	PCB-170/190	ng/g	230	41	< 0.0893 U	1.79 J	1.98 J	37.4	13.7 J	108 J	12.5 J
PCB-171	52663-71-5	ng/g	230	41	< 0.0709 U	0.419 J	0.517 J	10.1 J	3.67 J	28.9	3.30 J
PCB-172/192	PCB-172/192	ng/g	230	41	< 0.118 U	< 0.121 U	0.254 J	5.26 J	2.00 J	15.5 J	1.84 J
PCB-173	68194-16-1	ng/g	230	41	< 0.0794 U	< 0.0813 U	< 0.0811 U	< 0.0820 U	< 0.0805 U	1.86 J	< 0.0782 U
PCB-174	38411-25-5	ng/g	230	41	< 0.0995 U	1.56 J	2.01 J	30.1	10.9 J	78.8 J	10.2 J
PCB-175	40186-70-7	ng/g	230	41	< 0.0612 U	< 0.0627 U	< 0.0625 U	1.51 J	0.443 J	4.52 J	0.447 J
PCB-176	52663-65-7	ng/g	230	41	< 0.0571 U	0.156 J	0.257 J	4.07 J	1.50 J	11.3 J	1.36 J
PCB-177	52663-70-4	ng/g	230	41	< 0.0713 U	0.954 J	1.34 J	21.3	7.86 J	64.0 J	7.47 J
PCB-178	52663-67-9	ng/g	230	41	< 0.0895 U	0.331 J	0.484 J	8.34 J	3.15 J	28.0	3.13 J
PCB-179	52663-64-6	ng/g	230	41	< 0.0473 U	0.594 J	0.835 J	13.1 J	4.78 J	38.7 J	4.66 J
PCB-180	35065-29-3	ng/g	230	41	< 0.0631 U	3.26 J	3.97 J	70.4 J	23.8	189 J	23.1
PCB-181	74472-47-2	ng/g	230	41	< 0.0543 U	< 0.0556 U	< 0.0554 U	< 0.0560 U	< 0.0550 U	< 0.0548 U	< 0.0535 U
PCB-182/187	PCB-182/187	ng/g	230	41	< 0.143 U	2.29 J	2.84 J	43.6 J	15.4 J	130 J	15.4 J
PCB-183	52663-69-1	ng/g	230	41	< 0.0709 U	0.671 J	1.05 J	17.8 J	6.05 J	49.5 J	5.67 J
PCB-184	74472-48-3	ng/g	230	41	< 0.0514 U	< 0.0527 U	< 0.0525 U	< 0.0531 U	< 0.0521 U	0.128 J	< 0.0507 U
PCB-185	52712-05-7	ng/g	230	41	< 0.0711 U	< 0.0729 U	< 0.0726 U	3.45 J	1.08 J	8.19 J	1.10 J

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
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					Location	23D-0118-PLS1	23D-0119-PLS1	23D-0119-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1
					Sample Name	23D-0118-PLS1-BS	23D-0119-PLS1-AS	23D-0119-PLS1-BS	23D-0120-PLS1-AS	23D-0120-PLS1-BS	23D-0120-PLS1-AT	23D-0120-PLS1-BT
					Sample Date	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
					Sample Type	N	N	N	N	N	FD	FD
					Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.8 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL								
PCB-186	74472-49-4	ng/g	230	41		< 0.0642 U	< 0.0658 U	< 0.0656 U	< 0.0663 U	< 0.0651 U	< 0.0649 U	< 0.0633 U
PCB-188	74487-85-7	ng/g	230	41		< 0.0589 U	< 0.0603 U	< 0.0601 U	< 0.0608 U	< 0.0597 U	0.566 J	< 0.0580 U
PCB-189	39635-31-9	ng/g	130	41		< 0.0598 U	< 0.0613 U	< 0.0611 U	1.88 J	0.764 J	4.94 J	0.717 J
PCB-191	74472-50-7	ng/g	230	41		< 0.0541 U	< 0.0554 U	< 0.0552 U	1.36 J	0.473 J	3.45 J	0.382 J
PCB-193	69782-91-8	ng/g	230	41		< 0.0682 U	0.152 J	0.193 J	3.80 J	1.42 J	10.7 J	1.32 J
PCB-194	35694-08-7	ng/g	230	41		< 0.0863 U	1.17 J	2.26 J	27.9	8.61 J	80.5 J	9.06 J
PCB-195	52663-78-2	ng/g	230	41		< 0.153 U	< 0.157 U	< 0.156 U	9.57 J	3.00 J	26.8	3.15 J
PCB-196/203	PCB-196/203	ng/g	230	41		< 0.145 U	1.10 J	1.39 J	28.2	9.13 J	78.8 J	9.58 J
PCB-197	33091-17-7	ng/g	230	41		< 0.0646 U	< 0.0662 U	< 0.0660 U	0.752 J	< 0.0655 U	2.41 J	< 0.0637 U
PCB-198	68194-17-2	ng/g	230	41		< 0.105 U	< 0.107 U	< 0.107 U	1.26 J	< 0.106 U	3.66 J	< 0.103 U
PCB-199	52663-75-9	ng/g	230	41		< 0.101 U	0.768 J	1.17 J	23.9	7.98 J	67.1 J	8.23 J
PCB-200	52663-73-7	ng/g	230	41		< 0.0514 U	< 0.0527 U	< 0.0525 U	2.98 J	1.04 J	7.88 J	1.09 J
PCB-201	40186-71-8	ng/g	230	41		< 0.0406 U	< 0.0417 U	< 0.0415 U	2.83 J	0.922 J	7.65 J	1.04 J
PCB-202	2136-99-4	ng/g	230	41		< 0.0694 U	< 0.0711 U	< 0.0709 U	4.39 J	1.41 J	11.6 J	1.57 J
PCB-204	74472-52-9	ng/g	230	41		< 0.0849 U	< 0.0870 U	< 0.0867 U	< 0.0877 U	< 0.0861 U	< 0.0858 U	< 0.0837 U
PCB-205	74472-53-0	ng/g	230	41		< 0.0602 U	< 0.0617 U	< 0.0615 U	1.55 J	< 0.0610 U	3.85 J	< 0.0593 U
PCB-206	40186-72-9	ng/g	230	41		< 0.0577 U	0.459 J	0.540 J	13.0 J	5.13 J	32.0	5.66 J
PCB-207	52663-79-3	ng/g	230	41		< 0.0763 U	< 0.0782 U	< 0.0779 U	1.40 J	0.463 J	3.43 J	0.448 J
PCB-208	52663-77-1	ng/g	230	41		< 0.0763 U	< 0.0782 U	0.145 J	3.55 J	1.43 J	7.50 J	1.72 J
PCB-209	2051-24-3	ng/g	230	41		< 0.0439 U	0.199 J	0.237 J	4.09 J	2.87 J	8.85 J	3.49 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0		< 0.0439 U	0.199	0.237	4.09	2.87	8.85	3.49
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0		< 0.143 U	12.2	15.7	273	97.0	776	92.6
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0		< 0.15 U	43.8	44.1	582	278	1520	206
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0		< 0.153 U	3.04	4.82	103	32.1	290	33.7
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14		< 0.165 U	370	3150	25800	6630	57300	6650
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0		< 0.132 U	107	124	1360	540	3230	454
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0		< 0.0905 U	21.4	1350	4100	1070	8940	1070
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0		< 0.052 U	1.06	423	571	226	1260	239
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0		< 0.0763 U	0.459	0.685	18.0	7.02	42.9	7.83
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0		< 0.165 U	123	410	8360	1960	18300	2050
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0		< 0.134 U	58.5	784	10500	2420	23000	2500
TAL Metals and Mercury												
Aluminum	7429-90-5	mg/kg	7700			3400	3400	7100	6900	6800	6100	9200
Calcium	7440-70-2	mg/kg				820	790	1600	1500	1800	1300	2100
Iron	7439-89-6	mg/kg	5500			3100	4200	8600	10000	9200	10000	11000
Magnesium	7439-95-4	mg/kg				1100 J	1200 J	8500 J	2500 J	4700 J	1900 J	9500 J
Potassium	7440-09-7	mg/kg				200 J	310 J	270 J	460 J	370 J	480 J	360 J
Sodium	7440-23-5	mg/kg				< 600 U	< 510 U	< 550 U	< 770 U	< 590 U	< 660 U	< 690 U
Antimony	7440-36-0	mg/kg	3.1	0.27		< 1.2 U	0.17 J	0.27 J	1.4	0.73 J	1.4	0.83 J
Arsenic	7440-38-2	mg/kg	0.68	18		0.24 J	0.67	1.3	3.2	3.7	4.0	4.6
Barium	7440-39-3	mg/kg	1500	110		9.5 J	6.9 J	9.9 J	49 J	27 J	53 J	29 J
Beryllium	7440-41-7	mg/kg	16	2.5		0.076 J	0.13 J	0.17 J	0.41 J	0.14 J	0.31 J	0.20 J
Cadmium	7440-43-9	mg/kg	0.71	0.36		< 0.60 UJ	0.10 J-	< 0.54 UJ	0.65 J-	0.21 J-	0.41 J-	0.24 J-
Chromium, Total	7440-47-3	mg/kg	0.3	23		2.8 J	7.4 J	12 J	51 J	18 J	37 J	23 J
Cobalt	7440-48-4	mg/kg	2.3	13		0.88	2.0	2.6	3.1	1.7	2.6	2.2
Copper	7440-50-8	mg/kg	310	28		0.61 JEB	14 EB	11 EB	75 EB	27 EB	61 EB	31 EB
Lead	7439-92-1	mg/kg	200	11		1.8	21	28	240 J	61	130 J	69
Manganese	7439-96-5	mg/kg	180	220		43 EB	51 EB	65 EB	100 EB	46 EB	89 EB	59 EB
Nickel	7440-02-0	mg/kg	140	38		1.6 J	5.9 J	7.5 J	8.9 J	3.9 J	6.8 J	5.3 J
Selenium	7782-49-2	mg/kg	39	0.52		< 3.0 U	< 2.4 U	< 2.7 U	< 3.6 U	< 3.2 U	0.76 J	1.0 J
Silver	7440-22-4	mg/kg	39	4.2		< 0.60 U	0.021 J	0.037 J	0.57 J	0.088 J	0.35 J	0.14 J
Thallium	7440-28-0	mg/kg	0.078	0.05		< 0.60 U	< 0.48 U	< 0.54 U	0.052 J	0.027 J	0.045 J	0.033 J
Vanadium	7440-62-2	mg/kg	39	7.8		4.1 J	5.3 J	9.1 J	22 J	9.9 J	21 J	14 J
Zinc	7440-66-6	mg/kg	2300	46		5.5 EB	38 EB	49 EB	110 EB	42 EB	78 EB	53 EB
Mercury	7439-97-6	mg/kg	2.3	0.013		< 0.11 U	0.055 J	0.050 J	0.75	0.27	0.46	0.32

Table 15
Floodplain Soil Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23D-0118-PLS1	23D-0119-PLS1	23D-0119-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1
				Sample Name	23D-0118-PLS1-BS	23D-0119-PLS1-AS	23D-0119-PLS1-BS	23D-0120-PLS1-AS	23D-0120-PLS1-BS	23D-0120-PLS1-AT	23D-0120-PLS1-BT
				Sample Date	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
				Sample Type	N	N	N	N	N	FD	FD
				Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.8 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL							
TCL VOCs											
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,2-Dichloroethane	107-06-2	ug/kg	460	400	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
2-HEXANONE	591-78-6	ug/kg	20000	360	< 12 U	< 11 U	< 10 U	< 16 U	< 12 U	< 12 U	< 11 U
ACETONE	67-64-1	ug/kg	7000000	1200	44 EB	< 11 U	< 10 U	< 16 U	< 12 U	< 12 U	< 11 U
Benzene	71-43-2	ug/kg	1200	120	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
BROMOFORM	75-25-2	ug/kg	19000	70	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
BROMOMETHANE	74-83-9	ug/kg	680	2	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Chlorobenzene	108-90-7	ug/kg	28000	2400	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
CHLOROETHANE	75-00-3	ug/kg	540000		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Chloroform	67-66-3	ug/kg	320	50	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
CHLOROMETHANE	74-87-3	ug/kg	11000		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Cyclohexane	110-82-7	ug/kg	650000		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Dichlorodifluoromethane	75-71-8	ug/kg	8700		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Ethylbenzene	100-41-4	ug/kg	5800	270	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
m,p-Xylene	179601-23-1	ug/kg	55000		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
METHYL ACETATE	79-20-9	ug/kg	7800000		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	9.9 J	< 11 U	< 10 U	< 16 U	< 12 U	< 12 U	< 11 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		< 12 U	< 11 U	< 10 U	< 16 U	< 12 U	< 12 U	< 11 U
Methylcyclohexane	108-87-2	ug/kg	9800		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Methylene Chloride	75-09-2	ug/kg	35000	210	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Styrene	100-42-5	ug/kg	600000	1200	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Toluene	108-88-3	ug/kg	490000	150	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U
Vinyl Chloride	75-01-4	ug/kg	59	30	< 5.8 U	< 5.4 U	< 5.2 U	< 7.9 U	< 6.0 U	< 6.2 U	< 5.4 U

Table 15
Floodplain Soil Analytical Results
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				Location	23D-0118-PLS1	23D-0119-PLS1	23D-0119-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1
				Sample Name	23D-0118-PLS1-BS	23D-0119-PLS1-AS	23D-0119-PLS1-BS	23D-0120-PLS1-AS	23D-0120-PLS1-BS	23D-0120-PLS1-AT	23D-0120-PLS1-BT
				Sample Date	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
				Sample Type	N	N	N	N	N	FD	FD
				Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.8 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL							
TCL SVOCs											
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		< 80 U	< 77 U	< 78 U	< 97 U	< 84 U	< 89 U	< 82 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
2-NITROANILINE	88-74-4	ug/kg	63000	20	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
2-NITROPHENOL	88-75-5	ug/kg	1900000		< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
3-NITROANILINE	99-09-2	ug/kg	25000		< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
4-Nitroaniline	100-01-6	ug/kg	25000		< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
Acenaphthene	83-32-9	ug/kg	360000	29000	< 210 U	-	< 200 U	-	-	-	-
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	-	-	-	-	-	-	-
Acetophenone	98-86-2	ug/kg	780000		< 400 U	160 J	72 J	240 J	150 J	350 J	120 J
ANTHRACENE	120-12-7	ug/kg	1800000	29000	-	-	-	-	390 J	-	-
ATRAZINE	1912-24-9	ug/kg	2400	0.05	< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
BENZALDEHYDE	100-52-7	ug/kg	170000		< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	-	-	-	-	590 J	-	-
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	-	-	-	-	490 J	-	-
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	-	-	-	-	570 J	-	-
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	-	-	-	-	-	-	-
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	-	-	-	-	-	-	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	< 210 U	< 200 U	< 200 U	< 250 U	68 J	< 230 U	< 210 U
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	54 J	< 200 U	< 200 U	64 J	75 J	60 J	< 210 U
Caprolactam	105-60-2	ug/kg	3100000		< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
CARBAZOLE	86-74-8	ug/kg	240000	70	< 400 U	< 380 U	< 380 U	< 480 U	220 J	< 440 U	< 410 U
CHRYSENE	218-01-9	ug/kg	110000	1100	-	-	-	-	590 J	-	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	-	-	-	-	-	-	-
Dibenzofuran	132-64-9	ug/kg	7800	150	< 210 U	< 200 U	< 200 U	< 250 U	160 J	< 230 U	< 210 U
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	< 210 U	< 200 U	< 200 U	< 250 U	75 J	< 230 U	< 210 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	< 400 U	< 380 U	< 380 U	< 480 U	79 J	< 440 U	< 410 U
FLUORANTHENE	206-44-0	ug/kg	240000	1100	-	-	-	-	1300 J	-	580 J
FLUORENE	86-73-7	ug/kg	240000	29000	-	-	-	-	-	-	-
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	< 210 U	< 200 U	< 200 U	< 250 U	57 J	< 230 U	< 210 U
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	< 440 U	< 410 U
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	< 210 U	< 200 U	< 200 U	< 250 U	64 J	< 230 U	< 210 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	-	-	-	-	-	-	-
ISOPHORONE	78-59-1	ug/kg	570000		< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U

Table 15
Floodplain Soil Analytical Results
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					Location	23D-0118-PLS1	23D-0119-PLS1	23D-0119-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1	23D-0120-PLS1
					Sample Name	23D-0118-PLS1-BS	23D-0119-PLS1-AS	23D-0119-PLS1-BS	23D-0120-PLS1-AS	23D-0120-PLS1-BS	23D-0120-PLS1-AT	23D-0120-PLS1-BT
					Sample Date	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
					Sample Type	N	N	N	N	N	FD	FD
					Depth Interval	1 - 2 ft	0 - 1 ft	1 - 1.8 ft	0 - 1 ft	1 - 2 ft	0 - 1 ft	1 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL								
Naphthalene	91-20-3	ug/kg	2000	29000		-	-	-	-	-	-	-
NITROBENZENE	98-95-3	ug/kg	5100	2200		< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78			< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545		< 210 U	< 200 U	< 200 U	< 250 U	< 210 U	< 230 U	< 210 U
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100		-	-	-	-	-	-	-
PHENANTHRENE	85-01-8	ug/kg	1800000	29000		-	-	-	-	1500 J	-	440 J
PHENOL	108-95-2	ug/kg	1900000	790		< 400 U	< 380 U	< 380 U	< 480 U	< 420 U	74 J	< 410 U
PYRENE	129-00-0	ug/kg	180000	1100		-	-	-	-	1100 J	-	520 J
1-Methylnaphthalene	90-12-0	ug/kg	18	140		< 4.0 U	1.7 J	< 3.8 U	2.9 J-	64 J	4.8	8.8 J
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000		< 4.0 U	2.5 J	< 3.8 U	3.5 J-	100 J	6.1	11 J
Acenaphthene	83-32-9	ug/kg	360000	29000		-	2.6 J	-	9.6 J	300 J	17 J	29 J
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000		< 4.0 U	9.8	3.1 J	6.2	10 J	12	22 J
ANTHRACENE	120-12-7	ug/kg	1800000	29000		< 4.0 U	9.5	3.5 J	22 J-	-	32	86 J
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100		< 4.0 U	58	21	130	-	120	220 J
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100		< 4.0 U	69	25	120	-	130	220 J
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100		< 4.0 U	91	32	150	-	150	260 J
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100		< 4.0 U	36	13	40 J	210 J	70 J	91 J
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100		< 4.0 U	33	11	37	280 J	60	97 J
CHRYSENE	218-01-9	ug/kg	110000	1100		< 4.0 U	63	22	100	-	130	220 J
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100		< 4.0 U	9.7	3.4 J	11	58 J	19	26 J
FLUORANTHENE	206-44-0	ug/kg	240000	1100		< 4.0 U	110	36	230	-	230	-
FLUORENE	86-73-7	ug/kg	240000	29000		< 4.0 U	3.3 J	0.87 J	10	280 J	15	35 J
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100		< 4.0 U	32	11	35 J	190 J	62 J	84 J
Naphthalene	91-20-3	ug/kg	2000	29000		< 4.0 U	3.4 J	1.1 J	4.4 J-	140 J	7.0	15 J
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100		< 8.1 U	< 7.8 U	< 7.8 U	< 9.7 U	< 8.4 U	< 9.0 U	< 8.2 U
PHENANTHRENE	85-01-8	ug/kg	1800000	29000		< 4.0 U	42	12	140	-	150	-
PYRENE	129-00-0	ug/kg	180000	1100		< 4.0 U	98	31	220	-	240	-
Asbestos												
ASBESTOS	1332-21-4	%				< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U	< 0.25 U

Table 15
Floodplain Soil Analytical Results
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Notes:
(a) Totals for PCDD/DF and PCB homolog groups were calculated by summing the detected congeners in each group after data validation was completed; if no congeners in a homolog group were detected, the maximum reporting detection limit of any member congener in that group was used.
(b) Sum of detected congeners.
Analytes:
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxins/furans
SVOCs - semi-volatile organic compounds
TAL - target analyte list
TCL - target compound list
VOCs - volatile organic compounds
Units:
% - percent
mg/kg - miligram per kilogram
ng/g - nanogram per gram
pg/g - picogram per gram
ug/kg - microgram per kilogram
Project Action Limits (PALs):
The human health PALs are the USEPA regional screening levels for residential soil based on a target hazard quotient of 0.1 and a target risk level of 1E-06 (USEPA, 2024a).
The ecological PALs are the lowest of the ecological soil screening levels for soil invertebrates, plants, birds, and mammals derived in accordance with USEPA guidance (USEPA, 2005) and the USEPA Region 4 soil screening values for soil invertebrates, plants, birds, and mammals (USEPA, 2018).
Yellow highlighted values represent detection of the compound at a concentration above the human health PAL; underlined values represent detection of the compound at a concentration above the ecological PAL.
Comparison of the data to the PALs is for informational purposes only and is not an indication of risk.
Qualifiers:
B - Indicates the analyte is detected in the associated blank as well as in the sample.
E - Indicates compounds whose concentrations exceed the calibration range of the instrument.
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J- -The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a potential low bias.
J+ - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a potential high bias.
JN - The analyte was tentatively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U - The analyte was analyzed for but was not detected above the reported sample quantitation limit.
R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
Sample Type:
N - normal
FD - field duplicate

Table 16
Floodplain Soil Analytical Results Statistics
Phase 1 Data Evaluation Summary Memorandum
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCDD/F													
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/g	480	315	147	147	0.562	9150	564	47	60	23D-0060-PLS1	0 - 1 ft
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/g	480	315	147	124	0.214	175	13.2	0	0	23D-0060-PLS1	0 - 1 ft
1,2,3,4,7,8-HxCDD	39227-28-6	pg/g	48	31.5	147	133	0.33	85.8	6.98	1	1	23D-0060-PLS1	0 - 1 ft
1,2,3,4,7,8-HxCDF	70648-26-9	pg/g	48	31.5	147	136	0.147	425	28.2	24	38	23D-0060-PLS1	0 - 1 ft
1,2,3,6,7,8-HxCDD	57653-85-7	pg/g	48	31.5	147	136	0.159	512	33.3	26	44	23D-0060-PLS1	0 - 1 ft
1,2,3,6,7,8-HxCDF	57117-44-9	pg/g	48	31.5	147	137	0.193	171	13.7	7	14	23D-0060-PLS1	0 - 1 ft
1,2,3,7,8,9-HxCDD	19408-74-3	pg/g	48	31.5	147	131	0.32	276	18.8	14	20	23D-0060-PLS1	0 - 1 ft
1,2,3,7,8,9-HxCDF	72918-21-9	pg/g	48	31.5	147	4	0.241	0.73	0.439	0	0	23D-0028-PLS1	0 - 0.8 ft
1,2,3,7,8-PeCDD	40321-76-4	pg/g	4.8	3.15	147	112	0.319	35.3	3.69	25	44	23D-0060-PLS1	0 - 1 ft
1,2,3,7,8-PeCDF	57117-41-6	pg/g	160	105	147	126	0.23	122	7.34	0	1	23D-0053-PLS1	1 - 2 ft
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/g	480	315	147	146	0.336	2860	298	31	47	23D-0060-PLS1	0 - 1 ft
2,3,4,6,7,8-HxCDF	60851-34-5	pg/g	48	31.5	147	134	0.113	162	13.7	7	14	23D-0060-PLS1	0 - 1 ft
2,3,4,7,8-PeCDF	57117-31-4	pg/g	16	10.5	147	133	0.192	454	30.7	54	65	23D-0060-PLS1	0 - 1 ft
2,3,7,8-TCDD	1746-01-6	pg/g	4.8	3.15	147	57	0.0973	11.2	2.02	7	10	23D-0060-PLS1	0 - 1 ft
2,3,7,8-TCDF	51207-31-9	pg/g	48	31.5	147	131	0.136	384	17	11	19	23D-0053-PLS1	1 - 2 ft
OCDD	3268-87-9	pg/g	16000	10500	147	147	3.47	56400	3950	8	13	23D-0060-PLS1	0 - 1 ft
OCDF	39001-02-0	pg/g	16000	10500	147	142	1	3330	317	0	0	23D-0060-PLS1	0 - 1 ft
Total HpCDD (a)	RA_Total_HpCDD	pg/g			147	147	0.562	9150	564	0	0	23D-0060-PLS1	0 - 1 ft
Total HpCDF (a)	RA_Total_HpCDF	pg/g			147	146	0.336	3040	310	0	0	23D-0060-PLS1	0 - 1 ft
Total HxCDD (a)	RA_Total_HxCDD	pg/g	100		147	143	0.159	874	57.8	20	0	23D-0060-PLS1	0 - 1 ft
Total HxCDF (a)	RA_Total_HxCDF	pg/g			147	144	0.113	758	54.2	0	0	23D-0060-PLS1	0 - 1 ft
Total PeCDD (a)	RA_Total_PeCDD	pg/g			147	125	0.319	35.3	3.69	0	0	23D-0060-PLS1	0 - 1 ft
Total PeCDF (a)	RA_Total_PeCDF	pg/g			147	139	0.192	506	37.7	0	0	23D-0060-PLS1	0 - 1 ft
Total TCDD (a)	RA_Total_TCDD	pg/g			147	119	0.0973	11.2	2.02	0	0	23D-0060-PLS1	0 - 1 ft
Total TCDF (a)	RA_Total_TCDF	pg/g			147	144	0.136	384	17	0	0	23D-0053-PLS1	1 - 2 ft
TAL Metals and Mercury													
Aluminum	7429-90-5	mg/kg	7700		147	146	2600	18000	6300	27	0	23D-0078-PLS1	0 - 0.6 ft
Antimony	7440-36-0	mg/kg	3.1	0.27	147	99	0.04	11	0.91	4	65	23D-0065-B1S1	0 - 1 ft
Arsenic	7440-38-2	mg/kg	0.68	18	147	146	0.24	57	3.5	133	3	23D-0053-PLS1	1 - 2 ft
Barium	7440-39-3	mg/kg	1500	110	147	146	6.7	640	43	0	6	23D-0053-PLS1	1 - 2 ft
Beryllium	7440-41-7	mg/kg	16	2.5	147	30	0.076	1.1	0.34	0	0	23D-0013-PLS1	0 - 0.3 ft
Cadmium	7440-43-9	mg/kg	0.71	0.36	147	102	0.058	4.2	0.55	21	47	23D-0013-PLS1	0 - 0.3 ft
Calcium	7440-70-2	mg/kg			147	146	780	7900	2300	0	0	23D-0071-PLS1	0 - 0.2 ft
Chromium, Total	7440-47-3	mg/kg	0.3	23	147	146	2.8	660	36	146	57	23D-0053-PLS1	1 - 2 ft
Cobalt	7440-48-4	mg/kg	2.3	13	147	145	0.65	9.4	3.7	116	0	23D-0054-PLS1	0 - 1 ft
Copper	7440-50-8	mg/kg	310	28	147	146	0.15	870	50	2	67	23D-0074-B1S1	0 - 0.6 ft
Iron	7439-89-6	mg/kg	5500		147	146	1700	46000	11000	124	0	23D-0078-PLS1	0 - 0.6 ft
Lead	7439-92-1	mg/kg	200	11	147	147	0.13	1100	90	15	119	23D-0053-PLS1	1 - 2 ft
Magnesium	7439-95-4	mg/kg			147	143	360	12000	2500	0	0	23D-0117-B1S1	0 - 1 ft
Manganese	7439-96-5	mg/kg	180	220	147	146	8.3	1100	170	40	30	23D-0001-PLS1	0 - 1 ft
Mercury	7439-97-6	mg/kg	2.3	0.013	147	134	0.021	4.6	0.42	2	134	23D-0053-PLS1	1 - 2 ft
Nickel	7440-02-0	mg/kg	140	38	147	146	0.43	74	8.5	0	1	23D-0056-PLS1	0 - 1 ft
Potassium	7440-09-7	mg/kg			147	111	71	1100	440	0	0	23D-0052-PLS1	0 - 1 ft
Selenium	7782-49-2	mg/kg	39	0.52	147	92	0.61	6.9	1.2	0	92	23D-0077-PLS1	0 - 0.4 ft
Silver	7440-22-4	mg/kg	39	4.2	147	144	0.014	1.2	0.17	0	0	23D-0053-PLS1	1 - 2 ft
Sodium	7440-23-5	mg/kg			147	103	27	960	180	0	0	23D-0065-B1S1	0 - 1 ft
Thallium	7440-28-0	mg/kg	0.078	0.05	147	92	0.017	0.5	0.052	11	24	23D-0053-PLS1	1 - 2 ft
Vanadium	7440-62-2	mg/kg	39	7.8	147	146	3.5	49	14	1	126	23D-0052-PLS1	0 - 1 ft
Zinc	7440-66-6	mg/kg	2300	46	147	146	1.4	1100	110	0	94	23D-0069-PLS1	0 - 0.3 ft
PCB Congeners													
PCB-001	2051-60-7	ng/g	230	41	147	118	0.151	4140	88.4	8	16	23D-0114-B2S1	0 - 0.8 ft
PCB-002	2051-61-8	ng/g	230	41	147	38	0.307	53.9	6.92	0	1	23D-0052-PLS1	0 - 1 ft
PCB-003	2051-62-9	ng/g	230	41	147	99	0.149	1070	50.3	6	15	23D-0114-B2S1	0 - 0.8 ft
PCB-004/010	PCB-4/10	ng/g	230	41	147	131	0.185	21500	321	16	40	23D-0114-B2S1	0 - 0.8 ft
PCB-005/008	PCB-5/8	ng/g	230	41	147	133	0.201	3770	151	17	43	23D-0114-B2S1	0 - 0.8 ft
PCB-006	25569-80-6	ng/g	230	41	147	125	0.172	1190	49.3	7	20	23D-0114-B2S1	0 - 0.8 ft
PCB-007/009	PCB-7/9	ng/g	230	41	147	83	0.359	96.4	8.72	0	5	23D-0114-B2S1	0 - 0.8 ft
PCB-011	2050-67-1	ng/g	230	41	147	88	0.215	208	18.6	0	8	23D-0052-PLS1	0 - 1 ft
PCB-012/013	PCB-12/13	ng/g	230	41	147	105	0.355	588	44.7	7	21	23D-0052-PLS1	0 - 1 ft
PCB-014	34883-41-5	ng/g	230	41	147	0				0	0		
PCB-015	2050-68-2	ng/g	230	41	147	134	0.245	5500	402	31	59	23D-0054-PLS1	0 - 1 ft
PCB-016/032	PCB-16/32	ng/g	230	41	147	134	0.356	23600	942	29	61	23D-0052-PLS1	0 - 1 ft
PCB-017	37680-66-3	ng/g	230	41	147	133	0.306	5780	259	21	45	23D-0052-PLS1	0 - 1 ft
PCB-018	37680-65-2	ng/g	230	41	147	132	0.238	4020	143	16	41	23D-0052-PLS1	0 - 1 ft
PCB-019	38444-73-4	ng/g	230	41	147	129	0.176	11300	486	22	34	23D-0114-B2S1	0 - 0.8 ft
PCB-020/021/033	PCB-20/21/33	ng/g	230	41	147	116	0.265	981	66.5	12	20	23D-0054-PLS1	0 - 1 ft
PCB-022	38444-85-8	ng/g	230	41	147	124	0.238	2490	130	14	32	23D-0054-PLS1	0 - 1 ft

Table 16
Floodplain Soil Analytical Results Statistics
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-023/034	PCB-23/34	ng/g	230	41	147	64	0.428	205	15.5	0	7	23D-0114-B2S1	0 - 0.8 ft
PCB-024/027	PCB-24/27	ng/g	230	41	147	129	0.183	4890	231	18	35	23D-0114-B2S1	0 - 0.8 ft
PCB-025	55712-37-3	ng/g	230	41	147	129	0.235	2670	171	21	41	23D-0052-PLS1	0 - 1 ft
PCB-026	38444-81-4	ng/g	230	41	147	130	0.265	6140	332	24	54	23D-0052-PLS1	0 - 1 ft
PCB-028	7012-37-5	ng/g	230	41	147	138	0.311	15500	639	39	77	23D-0014-PLS1	0 - 1.1 ft
PCB-029	15862-07-4	ng/g	230	41	147	17	0.663	11.9	3.95	0	0	23D-0060-PLS1	0 - 1 ft
PCB-030	35693-92-6	ng/g	230	41	147	21	0.464	17.5	4.84	0	0	23D-0014-PLS1	0 - 1.1 ft
PCB-031	16606-02-3	ng/g	230	41	147	139	0.249	4760	259	30	76	23D-0114-B2S1	0 - 0.8 ft
PCB-035	37680-69-6	ng/g	230	41	147	66	0.389	133	11.8	0	5	23D-0053-PLS1	1 - 2 ft
PCB-036	38444-87-0	ng/g	230	41	147	51	0.604	91.5	11.5	0	3	23D-0054-PLS1	0 - 1 ft
PCB-037	38444-90-5	ng/g	230	41	147	131	0.24	2190	129	18	43	23D-0074-B1S1	0 - 0.6 ft
PCB-038	53555-66-1	ng/g	230	41	147	90	0.246	566	38.9	5	15	23D-0052-PLS1	0 - 1 ft
PCB-039	38444-88-1	ng/g	230	41	147	49	0.322	82.6	12.6	0	6	23D-0060-PLS1	0 - 1 ft
PCB-040	38444-93-8	ng/g	230	41	147	114	0.233	1370	65.1	10	20	23D-0054-PLS1	0 - 1 ft
PCB-041/064	PCB-41/64	ng/g	230	41	147	137	0.112	3960	201	20	63	23D-0054-PLS1	0 - 1 ft
PCB-042	36559-22-5	ng/g	230	41	147	128	0.219	4230	250	20	50	23D-0054-PLS1	0 - 1 ft
PCB-043/049	PCB-43/49	ng/g	230	41	147	142	0.165	19700	1030	43	90	23D-0052-PLS1	0 - 1 ft
PCB-044	41464-39-5	ng/g	230	41	147	137	0.227	9320	402	29	73	23D-0054-PLS1	0 - 1 ft
PCB-045	70362-45-7	ng/g	230	41	147	119	0.154	1600	82.2	12	28	23D-0054-PLS1	0 - 1 ft
PCB-046	41464-47-5	ng/g	230	41	147	103	0.249	933	55.1	6	18	23D-0052-PLS1	0 - 1 ft
PCB-047/048/075	PCB-47/48/75	ng/g	230	41	147	140	0.164	12500	735	37	80	23D-0060-PLS1	0 - 1 ft
PCB-050	62796-65-0	ng/g	230	41	147	65	0.205	170	19.3	0	9	23D-0060-PLS1	0 - 1 ft
PCB-051	68194-04-7	ng/g	230	41	147	122	0.203	4140	179	16	28	23D-0052-PLS1	0 - 1 ft
PCB-052/073	PCB-52/73	ng/g	230	41	147	142	0.174	15300	851	42	90	23D-0052-PLS1	0 - 1 ft
PCB-053	41464-41-9	ng/g	230	41	147	132	0.194	7010	302	21	44	23D-0052-PLS1	0 - 1 ft
PCB-054	15968-05-5	ng/g	230	41	147	86	0.13	555	29.9	4	12	23D-0060-PLS1	0 - 1 ft
PCB-055	74338-24-2	ng/g	230	41	147	63	0.452	178	8.87	0	3	23D-0074-B1S1	0 - 0.6 ft
PCB-056/060	PCB-56/60	ng/g	230	41	147	134	0.184	4990	155	14	53	23D-0074-B1S1	0 - 0.6 ft
PCB-057	70424-67-8	ng/g	230	41	147	80	0.273	145	18.3	0	12	23D-0052-PLS1 23D-0069-PLS1	0 - 1 ft 0 - 0.3 ft
PCB-058	41464-49-7	ng/g	230	41	147	62	0.212	20	3.45	0	0	23D-0054-PLS1	0 - 1 ft
PCB-059	74472-33-6	ng/g	230	41	147	121	0.129	517	30	4	18	23D-0074-B1S1	0 - 0.6 ft
PCB-061/074	PCB-61/74	ng/g	230	41	147	137	0.162	4810	178	18	59	23D-0074-B1S1	0 - 0.6 ft
PCB-062	54230-22-7	ng/g	230	41	147	1	3.44	3.44	3.44	0	0	23D-0074-B1S1	0 - 0.6 ft
PCB-063	74472-34-7	ng/g	230	41	147	115	0.168	534	50.5	9	26	23D-0069-PLS1	0 - 0.3 ft
PCB-065	33284-54-7	ng/g	230	41	147	17	0.317	10.7	2.85	0	0	23D-0060-PLS1	0 - 1 ft
PCB-066/080	PCB-66/80	ng/g	230	41	147	140	0.228	7300	299	25	78	23D-0074-B1S1	0 - 0.6 ft
PCB-067	73575-53-8	ng/g	230	41	147	95	0.333	502	20.7	1	12	23D-0074-B1S1	0 - 0.6 ft
PCB-068	73575-52-7	ng/g	230	41	147	53	0.123	232	21.6	1	6	23D-0060-PLS1	0 - 1 ft
PCB-069	60233-24-1	ng/g	230	41	147	56	0.196	57.7	8.22	0	3	23D-0060-PLS1	0 - 1 ft
PCB-070	32598-11-1	ng/g	230	41	147	140	0.165	5320	243	21	75	23D-0074-B1S1	0 - 0.6 ft
PCB-071	41464-46-4	ng/g	230	41	147	136	0.0899	3340	210	21	45	23D-0052-PLS1	0 - 1 ft
PCB-072	41464-42-0	ng/g	230	41	147	106	0.112	249	20	1	13	23D-0060-PLS1	0 - 1 ft
PCB-076	70362-48-0	ng/g	230	41	147	0				0	0		
PCB-077	32598-13-3	ng/g	38.0	41	147	128	0.132	1850	61.6	23	21	23D-0074-B1S1	0 - 0.6 ft
PCB-078	70362-49-1	ng/g	230	41	147	50	0.164	13.7	2.54	0	0	23D-0054-PLS1	0 - 1 ft
PCB-079	41464-48-6	ng/g	230	41	147	44	0.341	24.3	3.8	0	0	23D-0021-PLS1	0 - 1 ft
PCB-081	70362-50-4	ng/g	12.0	41	147	78	0.345	157	7.77	13	3	23D-0074-B1S1	0 - 0.6 ft
PCB-082	52663-62-4	ng/g	230	41	147	121	0.288	549	33.5	3	19	23D-0074-B1S1	0 - 0.6 ft
PCB-083/109	PCB-83/109	ng/g	230	41	147	113	0.229	294	23	1	16	23D-0054-PLS1	0 - 1 ft
PCB-084	52663-60-2	ng/g	230	41	147	127	0.283	1290	73	14	32	23D-0054-PLS1	0 - 1 ft
PCB-085/120	PCB-85/120	ng/g	230	41	147	130	0.354	664	54.6	10	27	23D-0021-PLS1	0 - 1 ft
PCB-086/097	PCB-86/97	ng/g	230	41	147	129	0.373	1150	68.2	12	28	23D-0074-B1S1	0 - 0.6 ft
PCB-087/115/116	PCB-87/115/116	ng/g	230	41	147	1	1.67	1.67	1.67	0	0	23D-0089-PLS1	0 - 1 ft
PCB-088/121	PCB-88/121	ng/g	230	41	147	31	0.458	26.9	5.06	0	0	23D-0074-B1S1	0 - 0.6 ft
PCB-089/090/101	PCB-89/90/101	ng/g	230	41	147	136	0.387	2670	192	20	71	23D-0074-B1S1	0 - 0.6 ft
PCB-091	68194-05-8	ng/g	230	41	147	127	0.287	1220	90.8	13	33	23D-0060-PLS1	0 - 1 ft
PCB-092	52663-61-3	ng/g	230	41	147	127	0.25	1380	73.7	10	28	23D-0060-PLS1	0 - 1 ft
PCB-093/095	PCB-93/95	ng/g	230	41	147	135	0.329	3160	174	19	63	23D-0054-PLS1	0 - 1 ft
PCB-094	73575-55-0	ng/g	230	41	147	82	0.269	177	13.4	0	9	23D-0060-PLS1	0 - 1 ft
PCB-096	73575-54-9	ng/g	230	41	147	96	0.0728	101	8.7	0	6	23D-0054-PLS1	0 - 1 ft
PCB-098/102	PCB-98/102	ng/g	230	41	147	111	0.191	433	32.6	4	18	23D-0054-PLS1	0 - 1 ft
PCB-099	38380-01-7	ng/g	230	41	147	136	0.293	1750	132	18	54	23D-0074-B1S1	0 - 0.6 ft
PCB-100	39485-83-1	ng/g	230	41	147	74	0.252	276	15.1	1	8	23D-0060-PLS1	0 - 1 ft
PCB-103	60145-21-3	ng/g	230	41	147	90	0.298	205	12.7	0	8	23D-0060-PLS1	0 - 1 ft
PCB-104	56558-16-8	ng/g	230	41	147	27	0.253	22.4	3	0	0	23D-0060-PLS1	0 - 1 ft
PCB-105/127	PCB-105/127	ng/g	120	41	147	131	0.203	1910	90.7	18	39	23D-0074-B1S1	0 - 0.6 ft
PCB-106/118	PCB-106/118	ng/g	120	41	147	138	0.317	2970	185	31	67	23D-0074-B1S1	0 - 0.6 ft

Table 16
Floodplain Soil Analytical Results Statistics
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-107/108	PCB-107/108	ng/g	230	41	147	115	0.309	264	23.5	2	17	23D-0074-B1S1	0 - 0.6 ft
PCB-110	38380-03-9	ng/g	230	41	147	139	0.312	4930	294	27	83	23D-0054-PLS1	0 - 1 ft
PCB-111/117	PCB-111/117	ng/g	230	41	147	130	0.373	1340	91.5	16	40	23D-0074-B1S1	0 - 0.6 ft
PCB-112	74472-36-9	ng/g	230	41	147	58	0.26	38.6	4.69	0	0	23D-0060-PLS1	0 - 1 ft
PCB-113	68194-10-5	ng/g	230	41	147	53	0.265	49.4	5.46	0	1	23D-0054-PLS1	0 - 1 ft
PCB-114	74472-37-0	ng/g	120	41	147	88	0.417	153	10.6	1	4	23D-0074-B1S1	0 - 0.6 ft
PCB-119	56558-17-9	ng/g	230	41	147	113	0.17	308	20.5	2	13	23D-0060-PLS1	0 - 1 ft
PCB-122	76842-07-4	ng/g	230	41	147	69	0.51	68.9	5.91	0	2	23D-0074-B1S1	0 - 0.6 ft
PCB-123	65510-44-3	ng/g	120	41	147	102	0.285	107	9.02	0	5	23D-0074-B1S1	0 - 0.6 ft
PCB-124	70424-70-3	ng/g	230	41	147	96	0.326	129	9.53	0	4	23D-0074-B1S1	0 - 0.6 ft
PCB-125	74472-39-2	ng/g	230	41	147	45	0.174	26.6	5.29	0	0	23D-0060-PLS1	0 - 1 ft
PCB-126	57465-28-8	ng/g	0.0360	41	147	47	0.342	39.5	5.99	47	0	23D-0060-PLS1	0 - 1 ft
PCB-128	38380-07-3	ng/g	230	41	147	124	0.175	222	22.2	0	18	23D-0054-PLS1	0 - 1 ft
PCB-129	55215-18-4	ng/g	230	41	147	89	0.403	62.9	6.99	0	3	23D-0021-PLS1	0 - 1 ft
PCB-130	52663-66-8	ng/g	230	41	147	107	0.133	122	10.5	0	8	23D-0060-PLS1	0 - 1 ft
PCB-131/142	PCB-131/142	ng/g	230	41	147	64	0.135	18.8	2.93	0	0	23D-0054-PLS1	0 - 1 ft
PCB-132/168	PCB-132/168	ng/g	230	41	147	130	0.227	461	37.6	5	26	23D-0054-PLS1	0 - 1 ft
PCB-133	35694-04-3	ng/g	230	41	147	66	0.119	98.4	5.92	0	1	23D-0060-PLS1	0 - 1 ft
PCB-134	52704-70-8	ng/g	230	41	147	98	0.231	91.3	8.41	0	5	23D-0060-PLS1	0 - 1 ft
PCB-135/144	PCB-135/144	ng/g	230	41	147	123	0.174	260	18.9	1	16	23D-0060-PLS1	0 - 1 ft
PCB-136	38411-22-2	ng/g	230	41	147	125	0.104	187	13.7	0	12	23D-0060-PLS1	0 - 1 ft
PCB-137	35694-06-5	ng/g	230	41	147	108	0.125	77.6	8.98	0	7	23D-0021-PLS1	0 - 1 ft
PCB-138/163/164	PCB-138/163/164	ng/g	230	41	147	138	0.192	1400	109	18	58	23D-0060-PLS1	0 - 1 ft
PCB-139/149	PCB-139/149	ng/g	230	41	147	136	0.195	1040	72.8	13	39	23D-0060-PLS1	0 - 1 ft
PCB-140	59291-64-4	ng/g	230	41	147	36	0.174	24.4	3.19	0	0	23D-0060-PLS1	0 - 1 ft
PCB-141	52712-04-6	ng/g	230	41	147	117	0.215	179	17	0	16	23D-0021-PLS1	0 - 1 ft
PCB-143	68194-15-0	ng/g	230	41	147	29	0.237	7.05	2.32	0	0	23D-0060-PLS1	0 - 1 ft
PCB-145	74472-40-5	ng/g	230	41	147	21	0.2	4.21	1.01	0	0	23D-0076-PLS1	0 - 0.6 ft
PCB-146	51908-16-8	ng/g	230	41	147	122	0.19	350	16.3	1	11	23D-0060-PLS1	0 - 1 ft
PCB-147	68194-13-8	ng/g	230	41	147	99	0.173	225	9.75	0	7	23D-0060-PLS1	0 - 1 ft
PCB-148	74472-41-6	ng/g	230	41	147	28	0.109	24	2.49	0	0	23D-0060-PLS1	0 - 1 ft
PCB-150	68194-08-1	ng/g	230	41	147	44	0.0898	18.5	1.61	0	0	23D-0060-PLS1	0 - 1 ft
PCB-151	52663-63-5	ng/g	230	41	147	125	0.16	427	22.2	2	16	23D-0060-PLS1	0 - 1 ft
PCB-152	68194-09-2	ng/g	230	41	147	43	0.0939	23.4	2.07	0	0	23D-0060-PLS1	0 - 1 ft
PCB-153	35065-27-1	ng/g	230	41	147	136	0.184	1090	70.4	11	41	23D-0060-PLS1	0 - 1 ft
PCB-154	60145-22-4	ng/g	230	41	147	75	0.136	117	5.96	0	2	23D-0060-PLS1	0 - 1 ft
PCB-155	33979-03-2	ng/g	230	41	147	6	0.25	1.28	0.527	0	0	23D-0060-PLS1	0 - 1 ft
PCB-156	38380-08-4	ng/g	120	41	147	118	0.115	133	13.2	1	12	23D-0021-PLS1	0 - 1 ft
PCB-157	69782-90-7	ng/g	120	41	147	90	0.227	36	4.83	0	0	23D-0060-PLS1	0 - 1 ft
PCB-158/160	PCB-158/160	ng/g	230	41	147	121	0.124	122	12.1	0	10	23D-0021-PLS1	0 - 1 ft
PCB-159	39635-35-3	ng/g	230	41	147	39	0.181	18.4	2.34	0	0	23D-0060-PLS1	0 - 1 ft
PCB-161	74472-43-8	ng/g	230	41	147	1	0.753	0.753	0.753	0	0	23D-0054-PLS1	0 - 1 ft
PCB-162	39635-34-2	ng/g	230	41	147	36	0.203	10.2	2.19	0	0	23D-0060-PLS1	0 - 1 ft
PCB-165	74472-46-1	ng/g	230	41	147	15	0.451	10.1	2.28	0	0	23D-0060-PLS1	0 - 1 ft
PCB-166	41411-63-6	ng/g	230	41	147	37	0.192	6.76	1.94	0	0	23D-0021-PLS1	0 - 1 ft
PCB-167	52663-72-6	ng/g	120	41	147	102	0.159	45.9	5.8	0	2	23D-0060-PLS1	0 - 1 ft
PCB-169	32774-16-6	ng/g	0.120	41	147	0				0	0		
PCB-170/190	PCB-170/190	ng/g	230	41	147	124	0.189	472	27.5	3	20	23D-0060-PLS1	0 - 1 ft
PCB-171	52663-71-5	ng/g	230	41	147	105	0.2	112	7.85	0	5	23D-0060-PLS1	0 - 1 ft
PCB-172/192	PCB-172/192	ng/g	230	41	147	94	0.192	71.6	4.76	0	1	23D-0060-PLS1	0 - 1 ft
PCB-173	68194-16-1	ng/g	230	41	147	19	0.15	7.16	2.39	0	0	23D-0060-PLS1	0 - 1 ft
PCB-174	38411-25-5	ng/g	230	41	147	126	0.144	384	21.3	1	16	23D-0060-PLS1	0 - 1 ft
PCB-175	40186-70-7	ng/g	230	41	147	58	0.139	15.4	1.82	0	0	23D-0060-PLS1	0 - 1 ft
PCB-176	52663-65-7	ng/g	230	41	147	99	0.0898	54.3	3.24	0	1	23D-0060-PLS1	0 - 1 ft
PCB-177	52663-70-4	ng/g	230	41	147	118	0.148	292	14.8	1	10	23D-0060-PLS1	0 - 1 ft
PCB-178	52663-67-9	ng/g	230	41	147	106	0.174	135	6.56	0	3	23D-0060-PLS1	0 - 1 ft
PCB-179	52663-64-6	ng/g	230	41	147	118	0.123	201	9.31	0	8	23D-0060-PLS1	0 - 1 ft
PCB-180	35065-29-3	ng/g	230	41	147	134	0.108	915	45.5	8	27	23D-0060-PLS1	0 - 1 ft
PCB-181	74472-47-2	ng/g	230	41	147	2	1.59	4.88	3.24	0	0	23D-0072-B1S1	0 - 0.9 ft
PCB-182/187	PCB-182/187	ng/g	230	41	147	128	0.192	632	27.7	3	20	23D-0060-PLS1	0 - 1 ft
PCB-183	52663-69-1	ng/g	230	41	147	118	0.152	198	12	0	10	23D-0060-PLS1	0 - 1 ft
PCB-184	74472-48-3	ng/g	230	41	147	2	0.128	0.204	0.166	0	0	23D-0069-PLS1	0 - 0.3 ft
PCB-185	52712-05-7	ng/g	230	41	147	84	0.124	37.1	3.54	0	0	23D-0060-PLS1	0 - 1 ft
PCB-186	74472-49-4	ng/g	230	41	147	0				0	0		
PCB-188	74487-85-7	ng/g	230	41	147	11	0.104	3.62	0.873	0	0	23D-0060-PLS1	0 - 1 ft
PCB-189	39635-31-9	ng/g	130	41	147	67	0.132	24.3	2.24	0	0	23D-0060-PLS1	0 - 1 ft
PCB-191	74472-50-7	ng/g	230	41	147	65	0.147	17	1.66	0	0	23D-0060-PLS1	0 - 1 ft
PCB-193	69782-91-8	ng/g	230	41	147	96	0.0922	66	3.45	0	1	23D-0060-PLS1	0 - 1 ft

Table 16
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-194	35694-08-7	ng/g	230	41	147	105	0.497	492	21.6	1	11	23D-0060-PLS1	0 - 1 ft
PCB-195	52663-78-2	ng/g	230	41	147	86	0.353	152	8.69	0	3	23D-0060-PLS1	0 - 1 ft
PCB-196/203	PCB-196/203	ng/g	230	41	147	112	0.318	450	20.2	1	11	23D-0060-PLS1	0 - 1 ft
PCB-197	33091-17-7	ng/g	230	41	147	30	0.211	12.7	1.87	0	0	23D-0060-PLS1	0 - 1 ft
PCB-198	68194-17-2	ng/g	230	41	147	25	0.517	18.4	3.39	0	0	23D-0060-PLS1	0 - 1 ft
PCB-199	52663-75-9	ng/g	230	41	147	112	0.254	388	17.2	1	10	23D-0060-PLS1	0 - 1 ft
PCB-200	52663-73-7	ng/g	230	41	147	69	0.236	40.7	3.09	0	0	23D-0060-PLS1	0 - 1 ft
PCB-201	40186-71-8	ng/g	230	41	147	65	0.212	42.2	3.11	0	1	23D-0060-PLS1	0 - 1 ft
PCB-202	2136-99-4	ng/g	230	41	147	77	0.268	64.4	4.12	0	1	23D-0060-PLS1	0 - 1 ft
PCB-204	74472-52-9	ng/g	230	41	147	0				0	0		
PCB-205	74472-53-0	ng/g	230	41	147	31	0.473	21.3	3.11	0	0	23D-0060-PLS1	0 - 1 ft
PCB-206	40186-72-9	ng/g	230	41	147	109	0.218	181	8.49	0	5	23D-0060-PLS1	0 - 1 ft
PCB-207	52663-79-3	ng/g	230	41	147	50	0.164	18.7	1.79	0	0	23D-0060-PLS1	0 - 1 ft
PCB-208	52663-77-1	ng/g	230	41	147	90	0.113	39.3	2.58	0	0	23D-0060-PLS1	0 - 1 ft
PCB-209	2051-24-3	ng/g	230	41	147	103	0.175	26.5	2.79	0	0	23D-0060-PLS1	0 - 1 ft
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	ng/g	230	41.0	147	103	0.175	26.5	2.79	0	0	23D-0060-PLS1	0 - 1 ft
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	ng/g	230	41.0	147	134	0.108	3640	174	22	65	23D-0060-PLS1	0 - 1 ft
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	ng/g	230	41.0	147	138	0.192	6710	459	44	97	23D-0060-PLS1	0 - 1 ft
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	ng/g	230	41.0	147	112	0.583	1680	72.9	10	28	23D-0060-PLS1	0 - 1 ft
Total PCB Congeners (b)	RA_Tot_PCB_Cong	ng/g	120	14	147	143	0.605	173000	12100	119	136	23D-0052-PLS1	0 - 1 ft
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	ng/g	230	41.0	147	139	0.318	22700	1640	83	111	23D-0054-PLS1	0 - 1 ft
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	ng/g	230	41.0	147	138	0.201	31300	936	41	80	23D-0114-B2S1	0 - 0.8 ft
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	ng/g	230	41.0	147	119	0.149	5250	132	13	23	23D-0114-B2S1	0 - 0.8 ft
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	ng/g	230	41.0	147	109	0.218	239	11.4	1	9	23D-0060-PLS1	0 - 1 ft
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	ng/g	230	41.0	147	142	1.12	74700	5270	91	120	23D-0052-PLS1	0 - 1 ft
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	ng/g	230	41.0	147	139	0.56	66600	3660	74	108	23D-0052-PLS1	0 - 1 ft

Table 16
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
TCL SVOCs													
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/kg	230	180	147	0				0	0		
1,4-Dioxane (P-Dioxane)	123-91-1	ug/kg	5300		147	0				0	0		
1-Methylnaphthalene	90-12-0	ug/kg	18	140	147	72	0.86	64	7	3	0	23D-0120-PLS1	1 - 2 ft
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/kg	190000	40	147	0				0	0		
2,4,5-TRICHLOROPHENOL	95-95-4	ug/kg	630000	4000	147	0				0	0		
2,4,6-TRICHLOROPHENOL	88-06-2	ug/kg	6300	9940	147	0				0	0		
2,4-DICHLOROPHENOL	120-83-2	ug/kg	19000	50	147	0				0	0		
2,4-DIMETHYLPHENOL	105-67-9	ug/kg	130000	40	147	0				0	0		
2,4-DINITROPHENOL	51-28-5	ug/kg	13000	61	147	0				0	0		
2,4-DINITROTOLUENE	121-14-2	ug/kg	1700	6000	147	1	370	370	370	0	0	23D-0041-PLS1	0 - 1 ft
2,6-DINITROTOLUENE	606-20-2	ug/kg	360	4000	147	0				0	0		
2-CHLORONAPHTHALENE	91-58-7	ug/kg	480000		147	0				0	0		
2-CHLOROPHENOL	95-57-8	ug/kg	39000	60	147	0				0	0		
2-Methylnaphthalene	91-57-6	ug/kg	24000	29000	147	82	0.88	100	8.7	0	0	23D-0120-PLS1	1 - 2 ft
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/kg	320000	100	147	0				0	0		
2-NITROANILINE	88-74-4	ug/kg	63000	20	147	0				0	0		
2-NITROPHENOL	88-75-5	ug/kg	1900000		147	0				0	0		
3,3'-DICHLOROBENZIDINE	91-94-1	ug/kg	1200	30	147	0				0	0		
3-NITROANILINE	99-09-2	ug/kg	25000		147	0				0	0		
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/kg	510		147	0				0	0		
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/kg			147	0				0	0		
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/kg	630000		147	0				0	0		
4-CHLOROANILINE	106-47-8	ug/kg	2700	1000	147	0				0	0		
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/kg			147	0				0	0		
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/kg	130000	80	147	1	450	450	450	0	1	23D-0063-PLS1	0 - 0.5 ft
4-Nitroaniline	100-01-6	ug/kg	25000		147	0				0	0		
4-NITROPHENOL	100-02-7	ug/kg	1900000	5120	147	0				0	0		
Acenaphthene	83-32-9	ug/kg	360000	29000	147	100	0.75	300	19	0	0	23D-0120-PLS1	1 - 2 ft
ACENAPHTHYLENE	208-96-8	ug/kg	360000	29000	147	123	1	310	23	0	0	23D-0065-B1S1	0 - 1 ft
Acetophenone	98-86-2	ug/kg	780000		147	37	64	350	150	0	0	23D-0120-PLS1	0 - 1 ft
ANTHRACENE	120-12-7	ug/kg	1800000	29000	147	127	1.6	1100	85	0	0	23D-0065-B1S1 23D-0084-PLS1	0 - 1 ft 0 - 1 ft
ATRAZINE	1912-24-9	ug/kg	2400	0.05	147	0				0	0		
BENZALDEHYDE	100-52-7	ug/kg	170000		147	2	70	270	170	0	0	23D-0091-PLS1	0 - 0.3 ft
BENZO(A)ANTHRACENE	56-55-3	ug/kg	1100	1100	147	140	0.94	3300	240	5	5	23D-0065-B1S1	0 - 1 ft
BENZO(A)PYRENE	50-32-8	ug/kg	110	1100	147	138	1.6	2700	240	70	5	23D-0065-B1S1	0 - 1 ft
Benzo(B)Fluoranthene	205-99-2	ug/kg	1100	1100	147	141	1.3	2900	290	5	5	23D-0077-PLS1	0 - 0.4 ft
Benzo(G,H,I)Perylene	191-24-2	ug/kg	180000	1100	147	139	1	1200	130	0	2	23D-0077-PLS1 23D-0084-PLS1	0 - 0.4 ft 0 - 1 ft
Benzo(K)Fluoranthene	207-08-9	ug/kg	11000	1100	147	136	0.95	1300	120	0	1	23D-0065-B1S1	0 - 1 ft
BENZYL BUTYL PHTHALATE	85-68-7	ug/kg	290000	590	147	1	68	68	68	0	0	23D-0120-PLS1	1 - 2 ft
BIPHENYL (DIPHENYL)	92-52-4	ug/kg	4700	200	147	0				0	0		
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/kg	230		147	0				0	0		
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/kg	310000		147	0				0	0		
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/kg	39000	20	147	14	54	1600	360	0	14	23D-0022-PLS1	0 - 1 ft
Caprolactam	105-60-2	ug/kg	3100000		147	0				0	0		
CARBAZOLE	86-74-8	ug/kg	240000	70	147	4	140	220	180	0	4	23D-0120-PLS1	1 - 2 ft
CHRYSENE	218-01-9	ug/kg	110000	1100	147	140	0.82	2500	240	0	5	23D-0065-B1S1	0 - 1 ft
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/kg	110	1100	147	128	1.1	300	32	5	0	23D-0084-PLS1	0 - 1 ft
Dibenzofuran	132-64-9	ug/kg	7800	150	147	2	120	160	140	0	1	23D-0120-PLS1	1 - 2 ft
Diethyl Phthalate	84-66-2	ug/kg	5100000	250	147	0				0	0		
DIMETHYL PHTHALATE	131-11-3	ug/kg	5100000	350	147	0				0	0		
Di-N-Butyl Phthalate	84-74-2	ug/kg	630000	11	147	2	68	75	72	0	2	23D-0120-PLS1	1 - 2 ft
DI-N-OCTYLPHTHALATE	117-84-0	ug/kg	63000	910	147	1	79	79	79	0	0	23D-0120-PLS1	1 - 2 ft
FLUORANTHENE	206-44-0	ug/kg	240000	1100	147	143	1.2	9300	520	0	14	23D-0084-PLS1	0 - 1 ft
FLUORENE	86-73-7	ug/kg	240000	29000	147	114	0.87	280	23	0	0	23D-0120-PLS1	1 - 2 ft
HEXACHLOROBENZENE	118-74-1	ug/kg	78	79	147	1	57	57	57	0	0	23D-0120-PLS1	1 - 2 ft
Hexachlorobutadiene	87-68-3	ug/kg	1200	9	147	0				0	0		
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/kg	180	1	147	0				0	0		
HEXACHLOROETHANE	67-72-1	ug/kg	1800	24	147	1	64	64	64	0	1	23D-0120-PLS1	1 - 2 ft
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/kg	1100	1100	147	137	1.5	1500	160	3	3	23D-0065-B1S1 23D-0077-PLS1	0 - 1 ft 0 - 0.4 ft
ISOPHORONE	78-59-1	ug/kg	570000		147	0				0	0		
Naphthalene	91-20-3	ug/kg	2000	29000	147	102	0.86	960	21	0	0	23D-0095-PLS1	0 - 0.3 ft
NITROBENZENE	98-95-3	ug/kg	5100	2200	147	0				0	0		
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/kg	78		147	0				0	0		
N-NITROSODIPHENYLAMINE	86-30-6	ug/kg	110000	545	147	0				0	0		

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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PENTACHLOROPHENOL	87-86-5	ug/kg	1000	2100	147	4	2.2	12	5.2	0	0	23D-0065-B1S1	0 - 1 ft
PHENANTHRENE	85-01-8	ug/kg	1800000	29000	147	140	1.2	5400	260	0	0	23D-0084-PLS1	0 - 1 ft
PHENOL	108-95-2	ug/kg	1900000	790	147	4	67	89	75	0	0	23D-0091-PLS1	0 - 0.3 ft
PYRENE	129-00-0	ug/kg	180000	1100	147	141	1.2	7500	370	0	6	23D-0084-PLS1	0 - 1 ft
TCL VOCs													
1,1,1-Trichloroethane (TCA)	71-55-6	ug/kg	810000	40	143	2	9.3	35	22	0	0	23D-0014-PLS1	0 - 1.1 ft
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/kg	600	127	143	0				0	0		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/kg	670000		143	0				0	0		
1,1,2-Trichloroethane	79-00-5	ug/kg	150	320	143	0				0	0		
1,1-Dichloroethane	75-34-3	ug/kg	3600	140	143	3	5.5	27	16	0	0	23D-0011-PLS1	0 - 1 ft
1,1-Dichloroethene	75-35-4	ug/kg	23000	40	143	0				0	0		
1,2,3-Trichlorobenzene	87-61-6	ug/kg	6300	20000	143	0				0	0		
1,2,3-TRICHLOROPROPANE	96-18-4	ug/kg	5.1		143	0				0	0		
1,2,4-TRICHLOROBENZENE	120-82-1	ug/kg	5800	270	143	0				0	0		
1,2,4-Trimethylbenzene	95-63-6	ug/kg	30000	90	143	0				0	0		
1,2-Dibromo-3-Chloropropane	96-12-8	ug/kg	5.3		143	0				0	0		
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/kg	36		143	0				0	0		
1,2-Dichlorobenzene	95-50-1	ug/kg	180000	90	143	0				0	0		
1,2-Dichloroethane	107-06-2	ug/kg	460	400	143	0				0	0		
1,2-DICHLOROPROPANE	78-87-5	ug/kg	1600	280	143	0				0	0		
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/kg	27000	160	143	0				0	0		
1,3-DICHLOROBENZENE	541-73-1	ug/kg	2600	80	143	0				0	0		
1,4-DICHLOROBENZENE	106-46-7	ug/kg	2600	880	143	0				0	0		
2-HEXANONE	591-78-6	ug/kg	20000	360	143	0				0	0		
ACETONE	67-64-1	ug/kg	7000000	1200	143	46	5.6	470	65	0	0	23D-0001-PLS1	0 - 1 ft
Benzene	71-43-2	ug/kg	1200	120	143	0				0	0		
BROMOCHLOROMETHANE	74-97-5	ug/kg	15000		143	0				0	0		
BROMODICHLOROMETHANE	75-27-4	ug/kg	290		143	0				0	0		
BROMOFORM	75-25-2	ug/kg	19000	70	143	0				0	0		
BROMOMETHANE	74-83-9	ug/kg	680	2	143	0				0	0		
CARBON DISULFIDE	75-15-0	ug/kg	77000	5	143	0				0	0		
CARBON TETRACHLORIDE	56-23-5	ug/kg	650	50	143	0				0	0		
Chlorobenzene	108-90-7	ug/kg	28000	2400	143	0				0	0		
CHLOROETHANE	75-00-3	ug/kg	540000		143	1	9.4	9.4	9.4	0	0	23D-0012-PLS1	1 - 2 ft
Chloroform	67-66-3	ug/kg	320	50	143	3	4.9	30	14	0	0	23D-0067-PLS1	0 - 1 ft
CHLOROMETHANE	74-87-3	ug/kg	11000		143	0				0	0		
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/kg	6300	40	143	4	5.6	33	18	0	0	23D-0011-PLS1	0 - 1 ft
cis-1,3-Dichloropropene	10061-01-5	ug/kg	1800		143	0				0	0		
Cyclohexane	110-82-7	ug/kg	650000		143	0				0	0		
DIBROMOCHLOROMETHANE	124-48-1	ug/kg	8300		143	0				0	0		
Dichlorodifluoromethane	75-71-8	ug/kg	8700		143	0				0	0		
Ethylbenzene	100-41-4	ug/kg	5800	270	143	0				0	0		
Isopropylbenzene (Cumene)	98-82-8	ug/kg	190000	40	143	0				0	0		
m,p-Xylene	179601-23-1	ug/kg	55000		143	0				0	0		
METHYL ACETATE	79-20-9	ug/kg	7800000		143	18	2.4	23	11	0	0	23D-0077-PLS1	0 - 0.4 ft
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	2700000	1000	143	13	5.3	100	25	0	0	23D-0087-PLS1	3 - 4 ft
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/kg	3300000		143	0				0	0		
Methylcyclohexane	108-87-2	ug/kg	9800		143	0				0	0		
Methylene Chloride	75-09-2	ug/kg	35000	210	143	6	0.89	17	6.6	0	0	23D-0026-PLS1	0 - 1 ft
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/kg	64000		143	0				0	0		
Styrene	100-42-5	ug/kg	600000	1200	143	0				0	0		
TERT-BUTYL METHYL ETHER	1634-04-4	ug/kg	47000		143	0				0	0		
Tetrachloroethylene (PCE)	127-18-4	ug/kg	8100	60	143	1	34	34	34	0	0	23D-0017-PLS1	0 - 0.7 ft
Toluene	108-88-3	ug/kg	490000	150	143	1	4	4	4	0	0	23D-0066-PLS1	0 - 1 ft
Trans-1,2-Dichloroethylene	156-60-5	ug/kg	7000	40	143	0				0	0		
Trans-1,3-Dichloropropene	10061-02-6	ug/kg	1800		143	0				0	0		
Trichloroethylene (TCE)	79-01-6	ug/kg	410	60	143	1	4.9	4.9	4.9	0	0	23D-0017-PLS1	0 - 0.7 ft
Trichlorofluoromethane	75-69-4	ug/kg	2300000	16400	143	0				0	0		
Vinyl Chloride	75-01-4	ug/kg	59	30	143	0				0	0		

Table 16
Floodplain Soil Analytical Results Statistics
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Asbestos													
ASBESTOS	1332-21-4	%			147	3	0.25	0.5	0.42	0	0	23D-0018-PLS1 23D-0065-B1S1	0 - 0.8 ft 1 - 2 ft

Notes:
(a) Totals for PCDD/DF and PCB homolog groups were calculated by summing the detected congeners in each group after data validation was completed; if no congeners in a homolog group were detected, the maximum reporting detection limit of any member congener in that group was used.
(b) Sum of detected congeners.
(c) The number of samples shown and the calculation of summary statistics treated the parent and field duplicate as individual samples.
Analytes:
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxins/furans
TAL - target analyte list
TCL - target compound list
SVOCs - semi-volatile organic compounds
VOCs - volatile organic compounds
Units:
% - percent
mg/kg - miligram per kilogram
ng/g - nanogram per gram
pg/g - picogram per gram
ug/kg - microgram per kilogram
Project Action Limits (PALs):
The human health PALs are the USEPA regional screening levels for residential soil based on a target hazard quotient of 0.1 and a target risk level of 1E-06 (USEPA, 2024a).
The ecological PALs are the lowest of the ecological soil screening levels for soil invertebrates, plants, birds, and mammals derived in accordance with USEPA guidance (USEPA, 2005) and the USEPA Region 4 soil screening values for soil invertebrates, plants, birds, and mammals (USEPA, 2018).
Comparison of the data to the PALs is for informational purposes only and is not an indication of risk.

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0001-PLW	23B-0001-PLW	23B-0002-PLW	23B-0002-PLW	23B-0003-PLW	23B-0003-PLW	23B-0004-PLW	23B-0004-PLW	23B-0005-PLW	23B-0005-PLW
					Sample Name	23B-0001-PLW-AS-F	23B-0001-PLW-AS-T	23B-0002-PLW-AS-F	23B-0002-PLW-AS-T	23B-0003-PLW-AS-F	23B-0003-PLW-AS-T	23B-0004-PLW-AS-F	23B-0004-PLW-AS-T	23B-0005-PLW-AS-F	23B-0005-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	2.35 - 2.35 ft	2.35 - 2.35 ft	1 - 1 ft	1 - 1 ft	1.25 - 1.25 ft	1.25 - 1.25 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.51 U	-	< 0.51 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.44 U	-	3.77 JN	-	< 1.71 U	-	5.95 J+	-	< 10 U
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.14 U	-	< 1.94 U	-	< 1.73 U	-	< 1.3 U	-	< 4.42 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.64 U	-	< 1.84 U	-	< 1.89 U	-	< 1.52 U	-	< 5.42 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.32 UJ	-	< 1.13 UJ	-	< 1.38 UJ	-	< 1.22 UJ	-	< 3.37 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.56 U	-	< 1.91 U	-	< 1.91 U	-	< 1.75 U	-	< 6.33 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.26 U	-	< 1.21 U	-	< 1.34 U	-	< 1.2 U	-	< 4.27 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.58 U	-	< 1.77 U	-	< 1.84 U	-	< 1.58 U	-	< 13.4 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.55 U	-	< 1.44 U	-	< 1.6 U	-	< 1.5 U	-	< 7.08 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.75 UJ	-	< 1.8 UJ	-	< 1.72 UJ	-	< 1.54 UJ	-	< 4.32 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.09 U	-	< 1.55 U	-	< 1.78 U	-	< 0.951 U	-	< 2.32 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	4.04 JN	-	< 1.47 U	-	< 1.35 U	-	3.28 JN	-	< 5.74 U
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.5 U	-	< 1.3 U	-	< 1.38 U	-	< 1.34 U	-	< 6.58 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1 R	-	< 1.62 U	-	< 1.44 U	-	< 0.987 R	-	< 2.08 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 10 UJ	-	< 10.1 UJ	-	< 10.1 UJ	-	< 10.3 UJ	-	< 9.72 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 0.774 U	-	< 0.924 U	-	< 1.05 U	-	< 0.926 U	-	< 1.45 U
OCDD	3268-87-9	pg/L	400	31	-	13.6 J	-	17.2 J	-	13.5 JN	-	18.7 JN	-	< 72.3 UJ
OCDF	39001-02-0	pg/L	400	31	-	< 2.72 U	-	< 2.89 U	-	< 2.9 U	-	3.75 JN	-	< 30.9 UJ
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.44 U	-	3.77	-	< 1.71 U	-	5.95	-	< 10 U
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	4.04 U	-	< 1.94 U	-	< 1.73 U	-	3.28	-	< 5.74 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 1.64 U	-	< 1.91 U	-	< 1.91 U	-	< 1.75 U	-	< 13.4 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.55 U	-	< 1.44 U	-	< 1.6 U	-	< 1.5 U	-	< 7.08 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.75 U	-	< 1.8 U	-	< 1.72 U	-	< 1.54 U	-	< 4.32 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.09 U	-	< 1.62 U	-	< 1.78 U	-	< 0.951 U	-	< 2.32 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 10 U	-	< 10.1 U	-	< 10.1 U	-	< 10.3 U	-	< 9.72 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 0.774 U	-	< 0.924 U	-	< 1.05 U	-	< 0.926 U	-	< 1.45 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	12.8	-	9.7 J	-	9.81 J	-	18.5 JN	-	6.16 JN
PCB-002	2051-61-8	pg/L	64	14000	-	< 3.11 U	-	< 3.26 U	-	< 3.99 U	-	6.22 J	-	< 3.84 U
PCB-003	2051-62-9	pg/L	64	14000	-	9.84 J+	-	7.15 J+	-	< 4.14 U	-	10.4 JN	-	6.37 J
PCB-004	13029-08-8	pg/L	64	14000	-	973 J	-	210 J	-	614 J	-	795 J	-	1050 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 4.48 U	-	< 3.38 U	-	< 5.08 U	-	< 9.19 U	-	< 9.02 U
PCB-006	25569-80-6	pg/L	64	14000	-	17.9 JN	-	12 JN	-	13.9 JN	-	22.8 JN	-	7.31 JN
PCB-007	33284-50-3	pg/L	64	14000	-	2.98 JN	-	< 3.19 U	-	< 4.83 U	-	< 8.62 U	-	< 8.64 U
PCB-008	34883-43-7	pg/L	64	14000	-	84.2	-	50.7 JN	-	72.4 JN	-	85.2	-	27.7 JN
PCB-009	34883-39-1	pg/L	64	14000	-	< 3.84 U	-	< 2.9 U	-	< 4.37 U	-	< 7.74 U	-	< 7.89 U
PCB-010	33146-45-1	pg/L	64	14000	-	122	-	73.5	-	87.9	-	117	-	199

Table 17
Surface Water Analytical Results
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Lower Neponset River
Boston, Massachusetts

					Location	23B-0001-PLW	23B-0001-PLW	23B-0002-PLW	23B-0002-PLW	23B-0003-PLW	23B-0003-PLW	23B-0004-PLW	23B-0004-PLW	23B-0005-PLW	23B-0005-PLW
					Sample Name	23B-0001-PLW-AS-F	23B-0001-PLW-AS-T	23B-0002-PLW-AS-F	23B-0002-PLW-AS-T	23B-0003-PLW-AS-F	23B-0003-PLW-AS-T	23B-0004-PLW-AS-F	23B-0004-PLW-AS-T	23B-0005-PLW-AS-F	23B-0005-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	2.35 - 2.35 ft	2.35 - 2.35 ft	1 - 1 ft	1 - 1 ft	1.25 - 1.25 ft	1.25 - 1.25 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	243 J+	-	206 J+	-	261 J+	-	296 J+	-	221 J+
PCB-012/013	PCB-12/13	pg/L			-	12.1 JN	-	9.38 JN	-	9.61 JN	-	12.8 JN	-	9.28 JN
PCB-014	34883-41-5	pg/L	64	14000	-	< 4.24 U	-	< 3.2 U	-	< 4.75 U	-	< 8.53 U	-	< 8.8 U
PCB-015	2050-68-2	pg/L	64	14000	-	379 J	-	220 J	-	223 J	-	202 J	-	499 J
PCB-016	38444-78-9	pg/L	64	14000	-	73.8	-	50.6	-	77.7	-	76.6 JN	-	70.9
PCB-017	37680-66-3	pg/L	64	14000	-	279	-	123	-	210	-	279	-	371
PCB-018/030	PCB-18/30	pg/L			-	244	-	144 J+	-	201	-	238	-	239
PCB-019	38444-73-4	pg/L	64	14000	-	546 J	-	339 J	-	328 J	-	416 J	-	754 J
PCB-020/028	PCB-20/28	pg/L			-	310	-	217	-	221	-	285	-	289
PCB-021/033	PCB-21/33	pg/L			-	87.8 J+	-	73.5 J+	-	90.9 J+	-	98.4	-	< 11.5 U
PCB-022	38444-85-8	pg/L	64	14000	-	49.5	-	43.9	-	48.3	-	52.9	-	13.3 JN
PCB-023	55720-44-0	pg/L	64	14000	-	< 12.5 U	-	< 11.2 U	-	< 14.5 U	-	< 16 U	-	< 11.7 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 8.32 U	-	< 5.87 U	-	< 11.6 U	-	< 10.4 U	-	16.5
PCB-025	55712-37-3	pg/L	64	14000	-	73.4 J	-	30.9 J	-	46.7 J	-	71.2 J	-	62.4 JN
PCB-026/029	PCB-26/29	pg/L			-	149	-	66	-	113	-	149	-	137
PCB-027	38444-76-7	pg/L	64	14000	-	252	-	174	-	163	-	218	-	375
PCB-031	16606-02-3	pg/L	64	14000	-	215	-	139	-	193	-	209	-	128
PCB-032	38444-77-8	pg/L	64	14000	-	229	-	149	-	137	-	166	-	219
PCB-034	37680-68-5	pg/L	64	14000	-	< 13.3 U	-	< 11.9 U	-	< 14.6 U	-	< 16.3 U	-	< 12.9 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 12 U	-	< 10.7 U	-	< 13.4 U	-	< 14.9 U	-	< 12.1 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 10.7 U	-	< 9.61 U	-	< 11.8 U	-	< 13 U	-	< 10.8 U
PCB-037	38444-90-5	pg/L	64	14000	-	44.2	-	41.7	-	38.4	-	39.7	-	37.5 JN
PCB-038	53555-66-1	pg/L	64	14000	-	< 11.8 U	-	< 10.6 U	-	< 13 U	-	< 14.2 U	-	< 11.6 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 11.8 U	-	< 10.5 U	-	< 13 U	-	< 14.4 U	-	< 11.7 U
PCB-040/071	PCB-40/71	pg/L			-	98.9	-	92	-	81.7 JN	-	98.9	-	113
PCB-041	52663-59-9	pg/L	64	14000	-	15.4 J	-	11.5 JN	-	14.1 J	-	12.2 JN	-	< 6.52 U
PCB-042	36559-22-5	pg/L	64	14000	-	73.3	-	66.2	-	59.6	-	71.1	-	75.4
PCB-043	70362-46-8	pg/L	64	14000	-	12.7	-	7.38 JN	-	8.83 J	-	11.7	-	12.4 JN
PCB-044/047/065	PCB-44/47/65	pg/L			-	363	-	336	-	272	-	343	-	442
PCB-045	70362-45-7	pg/L	64	14000	-	52	-	46.3	-	31.1	-	44.3	-	57.9 J
PCB-046	41464-47-5	pg/L	64	14000	-	32.3	-	23.7	-	27.2	-	33	-	38.9
PCB-048	70362-47-9	pg/L	64	14000	-	35.5	-	29.9	-	30.9	-	33.6	-	22.9
PCB-049/069	PCB-49/69	pg/L			-	224	-	196	-	187	-	234	-	268
PCB-050/053	PCB-50/53	pg/L			-	171	-	151	-	148	-	191	-	252
PCB-051	68194-04-7	pg/L	64	14000	-	28.2 J	-	15.5 JN	-	29 J	-	28.9 J	-	34.7
PCB-052	35693-99-3	pg/L	64	14000	-	335	-	331	-	301	-	364	-	403
PCB-054	15968-05-5	pg/L	64	14000	-	11.6 JN	-	11.6 JN	-	15.1	-	15	-	18.7
PCB-055	74338-24-2	pg/L	64	14000	-	< 5.37 U	-	< 5.06 U	-	< 6.28 U	-	< 6.72 U	-	< 6.48 U
PCB-056	41464-43-1	pg/L	64	14000	-	41.4	-	30.5	-	31.7	-	36.9	-	29.2 JN
PCB-057	70424-67-8	pg/L	64	14000	-	< 5.89 U	-	< 5.55 U	-	< 6.93 U	-	< 7.3 U	-	< 7.15 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 5.18 U	-	< 4.88 U	-	< 6.11 U	-	< 6.48 U	-	< 6.43 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	30 JN	-	28.3 J	-	21.8 J	-	26.3 J	-	39.2
PCB-060	33025-41-1	pg/L	64	14000	-	22.1 J	-	18.6 JN	-	16.7 JN	-	24 J	-	13.1
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	205	-	175	-	151	-	191	-	151
PCB-063	74472-34-7	pg/L	64	14000	-	8.29 JN	-	8.14 JN	-	< 7.38 U	-	11.3	-	11
PCB-064	52663-58-8	pg/L	64	14000	-	96.8	-	91.5	-	71.5	-	88.5	-	117
PCB-066	32598-10-0	pg/L	64	14000	-	114 J	-	122 J	-	94.1 J	-	115 J	-	118
PCB-067	73575-53-8	pg/L	64	14000	-	5.13 JN	-	3.95 JN	-	< 6.08 U	-	< 6.42 U	-	< 6.11 U
PCB-068	73575-52-7	pg/L	64	14000	-	< 5.8 U	-	< 5.46 U	-	< 6.97 U	-	6.15 JN	-	< 7.06 U
PCB-072	41464-42-0	pg/L	64	14000	-	< 5.66 U	-	5.72 JN	-	< 6.72 U	-	6.32 JN	-	< 7.17 U
PCB-073	74338-23-1	pg/L	64	14000	-	7.52 JN	-	5.8 JN	-	7.4 J	-	6.74 J	-	10.4 J
PCB-077	32598-13-3	pg/L	64	14000	-	6.95 JN	-	13.3 JN	-	< 7.34 U	-	9.04 J	-	11.8
PCB-078	70362-49-1	pg/L	64	14000	-	< 5.85 U	-	< 5.51 U	-	< 6.86 U	-	< 7.33 U	-	< 7.02 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 4.95 U	-	< 4.66 U	-	< 5.8 U	-	< 6.15 U	-	< 6.14 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 5.37 U	-	< 5.06 U	-	< 6.51 U	-	< 6.8 U	-	< 6.65 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 5.54 U	-	< 5.22 U	-	< 6.71 U	-	< 7.1 U	-	< 6.72 U
PCB-082	52663-62-4	pg/L	64	14000	-	11.9 JN	-	15.9	-	12.8 JN	-	17.5	-	18.2 J
PCB-083	60145-20-2	pg/L	64	14000	-	12.2 J	-	< 10.7 UJ	-	13.2 JN	-	< 11.4 UJ	-	18.7 JN
PCB-084	52663-60-2	pg/L	64	14000	-	56.8 J	-	55.4 J	-	55.8 J	-	81.3 J	-	61.5 JN

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0001-PLW	23B-0001-PLW	23B-0002-PLW	23B-0002-PLW	23B-0003-PLW	23B-0003-PLW	23B-0004-PLW	23B-0004-PLW	23B-0005-PLW	23B-0005-PLW
					Sample Name	23B-0001-PLW-AS-F	23B-0001-PLW-AS-T	23B-0002-PLW-AS-F	23B-0002-PLW-AS-T	23B-0003-PLW-AS-F	23B-0003-PLW-AS-T	23B-0004-PLW-AS-F	23B-0004-PLW-AS-T	23B-0005-PLW-AS-F	23B-0005-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	2.35 - 2.35 ft	2.35 - 2.35 ft	1 - 1 ft	1 - 1 ft	1.25 - 1.25 ft	1.25 - 1.25 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	21.7 JN	-	30.5	-	19.6 JN	-	33.2 JN	-	26.3 JN
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	93.6	-	110	-	99	-	131	-	102 JN
PCB-088	55215-17-3	pg/L	64	14000	-	< 7.36 U	-	< 9.16 U	-	< 7.2 U	-	< 11.3 U	-	< 8.05 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 6.89 U	-	< 8.56 U	-	< 6.35 U	-	< 9.82 U	-	< 7.44 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	163	-	176	-	160	-	244	-	196
PCB-091	68194-05-8	pg/L	64	14000	-	43.1 J	-	45.1 J	-	42.3 J	-	42.3 JN	-	49.6
PCB-092	52663-61-3	pg/L	64	14000	-	42.9 J	-	54.1 J	-	47.8 J	-	69.4 J	-	50.4 JN
PCB-093/100	PCB-93/100	pg/L			-	< 7.64 U	-	< 9.5 U	-	< 6.83 U	-	< 10.4 U	-	< 7.8 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 8.15 U	-	< 10.1 U	-	< 7.44 U	-	< 11.3 U	-	< 8.45 U
PCB-095	38379-99-6	pg/L	64	14000	-	151 J	-	178 J	-	168 J	-	243 J	-	184
PCB-096	73575-54-9	pg/L	64	14000	-	3.07 JN	-	< 2.73 U	-	< 4.35 U	-	< 5.44 U	-	< 2.05 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 6.78 U	-	< 8.43 U	-	< 5.85 U	-	< 8.57 U	-	< 6.33 U
PCB-099	38380-01-7	pg/L	64	14000	-	65.7 J	-	75.8 J	-	65.9 J	-	89.4 J	-	78.1
PCB-102	68194-06-9	pg/L	64	14000	-	7.67 JN	-	< 6.93 UJ	-	7.99 JN	-	11.8 JN	-	12.9
PCB-103	60145-21-3	pg/L	64	14000	-	< 6.96 U	-	< 8.65 U	-	< 6.44 U	-	< 9.76 U	-	< 7.2 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 2.24 U	-	< 2.29 U	-	< 3.91 U	-	< 4.8 U	-	< 1.77 U
PCB-105	32598-14-4	pg/L	64	14000	-	27.2 J	-	35.4 J	-	25.2 J	-	35.7 JN	-	31.5 J
PCB-106	70424-69-0	pg/L	64	14000	-	< 4.77 U	-	< 5.93 U	-	< 4.41 U	-	< 6.71 U	-	< 4.96 U
PCB-107	70424-68-9	pg/L	64	14000	-	7.12 JN	-	< 5.83 U	-	< 4.47 U	-	9.22 JN	-	9.63 JN
PCB-108/124	PCB-108/124	pg/L			-	< 5.21 U	-	< 6.48 U	-	< 4.81 U	-	< 7.34 U	-	5.26 JN
PCB-110	38380-03-9	pg/L	64	14000	-	145 J	-	173 J	-	168 J	-	269 J	-	231
PCB-111	39635-32-0	pg/L	64	14000	-	< 5.13 U	-	< 6.37 U	-	< 4.71 U	-	< 7.21 U	-	< 5.46 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 4.33 U	-	< 5.38 U	-	< 4.15 U	-	< 6.2 U	-	< 4.56 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 4.88 U	-	< 6.07 U	-	< 4.43 U	-	< 7.32 U	-	< 5.23 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 4.78 U	-	< 5.94 U	-	< 3.89 U	-	< 5.76 U	-	6.38 J
PCB-117	68194-11-6	pg/L	64	14000	-	6.01 JN	-	< 7.3 U	-	3.2 JN	-	< 7.86 U	-	6.05 JN
PCB-118	31508-00-6	pg/L	64	14000	-	81.9 J	-	107 J	-	77.3 J	-	128 J	-	106
PCB-120	68194-12-7	pg/L	64	14000	-	< 4.25 U	-	< 5.28 U	-	< 3.88 U	-	< 5.98 U	-	< 4.45 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 4.68 U	-	< 5.82 U	-	< 4.32 U	-	< 6.62 U	-	< 4.89 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 6.36 U	-	< 7.92 U	-	< 5.53 U	-	< 9.31 U	-	< 6.77 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 4.76 U	-	< 5.92 U	-	< 4.37 U	-	< 6.79 U	-	< 5.09 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 4.69 U	-	< 3.75 U	-	< 4.07 U	-	< 8.12 U	-	< 4.19 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 5.04 U	-	< 5.74 U	-	< 4.49 U	-	< 7.87 U	-	< 5.61 U
PCB-128/166	PCB-128/166	pg/L			-	22.5 J	-	27.6 J	-	16.2 JN	-	27.5 JN	-	24.7
PCB-129/138/163	PCB-129/138/163	pg/L			-	127 J	-	168 J	-	132 J	-	189 J	-	192
PCB-130	52663-66-8	pg/L	64	14000	-	14 J	-	12.9 J	-	7.72 J	-	11.1 JN	-	11.1
PCB-131	61798-70-7	pg/L	64	14000	-	< 3.18 U	-	< 3.9 U	-	< 3.58 U	-	< 4.8 U	-	< 2.71 U
PCB-132	38380-05-1	pg/L	64	14000	-	38.9 J	-	48.2 J	-	43.1 J	-	59.7 J	-	58.1
PCB-133	35694-04-3	pg/L	64	14000	-	< 2.76 U	-	< 3.39 U	-	< 3.17 U	-	< 4.19 U	-	2.46 JN
PCB-134	52704-70-8	pg/L	64	14000	-	< 3.74 UJ	-	10 J	-	< 3.95 UJ	-	10.7 JN	-	8.6 JN
PCB-135/151	PCB-135/151	pg/L			-	26.1 JN	-	28 JN	-	34.4 J	-	53.1 J	-	37.7 JN
PCB-136	38411-22-2	pg/L	64	14000	-	15.7 JN	-	15.1 JN	-	12 JN	-	21.3 JN	-	15.1 JN
PCB-137	35694-06-5	pg/L	64	14000	-	6.09 JN	-	10.4	-	< 3.44 U	-	8.03 JN	-	8.19 J
PCB-139/140	PCB-139/140	pg/L			-	< 2.75 U	-	< 3.37 U	-	< 3.21 U	-	< 4.24 U	-	< 2.48 U
PCB-141	52712-04-6	pg/L	64	14000	-	16.4 JN	-	20.4 J	-	17.5 JN	-	28.9 J	-	20.6
PCB-142	41411-61-4	pg/L	64	14000	-	< 3.14 U	-	< 3.85 U	-	< 3.62 U	-	< 4.84 U	-	< 2.77 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 2.83 U	-	< 3.47 U	-	< 3.46 U	-	< 4.51 U	-	< 2.65 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 2.94 U	-	< 3.61 U	-	< 3.35 U	-	5.89 JN	-	5.49 JN
PCB-145	74472-40-5	pg/L	64	14000	-	< 2 U	-	< 2.79 U	-	< 2.37 U	-	< 3.52 U	-	< 1.82 U
PCB-146	51908-16-8	pg/L	64	14000	-	12.1 JN	-	16.7 J	-	13 J	-	20.1 JN	-	21.6
PCB-147/149	PCB-147/149	pg/L			-	69.1 JN	-	97.6 J	-	79.7 J	-	130 J	-	108
PCB-148	74472-41-6	pg/L	64	14000	-	< 2.81 U	-	< 3.44 U	-	< 3.32 U	-	< 4.37 U	-	< 2.56 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 2.14 U	-	< 2.99 U	-	< 2.46 U	-	< 3.64 U	-	< 1.88 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 1.91 U	-	< 2.66 U	-	< 2.24 U	-	< 3.4 U	-	< 1.78 U
PCB-153/168	PCB-153/168	pg/L			-	83.3 J	-	104 JN	-	92.6 J	-	125 J	-	120
PCB-154	60145-22-4	pg/L	64	14000	-	< 2.62 U	-	< 3.22 U	-	< 3.05 U	-	3.65 J	-	2.23 JN

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0001-PLW	23B-0001-PLW	23B-0002-PLW	23B-0002-PLW	23B-0003-PLW	23B-0003-PLW	23B-0004-PLW	23B-0004-PLW	23B-0005-PLW	23B-0005-PLW
					Sample Name	23B-0001-PLW-AS-F	23B-0001-PLW-AS-T	23B-0002-PLW-AS-F	23B-0002-PLW-AS-T	23B-0003-PLW-AS-F	23B-0003-PLW-AS-T	23B-0004-PLW-AS-F	23B-0004-PLW-AS-T	23B-0005-PLW-AS-F	23B-0005-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	2.35 - 2.35 ft	2.35 - 2.35 ft	1 - 1 ft	1 - 1 ft	1.25 - 1.25 ft	1.25 - 1.25 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 1.74 U	-	< 2.44 U	-	< 2.14 U	-	< 3.2 U	-	< 1.62 U
PCB-156/157	PCB-156/157	pg/L			-	11.7 J	-	14.8 J	-	14.2 J	-	17.1 J	-	15.4 J
PCB-158	74472-42-7	pg/L	64	14000	-	10.5 JN	-	12.8 J	-	12.4 J	-	19.7 JN	-	11.1 JN
PCB-159	39635-35-3	pg/L	64	14000	-	< 3.54 U	-	< 2.88 U	-	< 4.42 U	-	< 5.82 U	-	< 4.29 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 2.29 U	-	< 2.81 U	-	< 2.71 U	-	< 3.58 U	-	< 2.02 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 2.02 U	-	< 2.48 U	-	< 2.38 U	-	< 3.15 U	-	< 1.76 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 4.1 U	-	< 3.34 U	-	< 5.26 U	-	< 6.97 U	-	< 5 U
PCB-164	74472-45-0	pg/L	64	14000	-	8.53 J	-	6.66 JN	-	7.77 JN	-	9.15 JN	-	9.43 J
PCB-165	74472-46-1	pg/L	64	14000	-	< 2.4 U	-	< 2.94 U	-	< 2.76 U	-	< 3.68 U	-	< 2.15 U
PCB-167	52663-72-6	pg/L	64	14000	-	< 4.04 U	-	7.48 JN	-	< 5.15 U	-	8.18 J	-	6.65 JN
PCB-169	32774-16-6	pg/L	4	14000	-	< 5.94 U	-	< 5 U	-	< 7.15 U	-	< 9.81 U	-	< 5.52 U
PCB-170	35065-30-6	pg/L	64	14000	-	15 J	-	16.7 J	-	13.4 JN	-	24 J	-	17.2 JN
PCB-171/173	PCB-171/173	pg/L			-	< 9.16 U	-	< 6.28 U	-	< 8.13 U	-	< 9.63 U	-	< 11.2 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 8.61 U	-	< 5.9 U	-	< 7.63 U	-	< 9.19 U	-	< 10.6 U
PCB-174	38411-25-5	pg/L	64	14000	-	10.9 JN	-	16.1	-	11 JN	-	16.5 JN	-	16.3 J
PCB-175	40186-70-7	pg/L	64	14000	-	< 8.91 U	-	< 6.11 U	-	< 7.87 U	-	< 9.33 U	-	< 10.9 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 4.65 U	-	< 3.36 U	-	< 4.42 U	-	< 5.11 U	-	< 3.33 U
PCB-177	52663-70-4	pg/L	64	14000	-	7.15 JN	-	9.5 J	-	< 7.27 UJ	-	15.7 J	-	< 10 U
PCB-178	52663-67-9	pg/L	64	14000	-	< 5.79 U	-	< 4.19 U	-	< 5.45 U	-	7.59 JN	-	< 4.3 U
PCB-179	52663-64-6	pg/L	64	14000	-	5.86 JN	-	4.05 JN	-	< 3.82 U	-	11.9	-	7.44 J
PCB-180/193	PCB-180/193	pg/L			-	32.9 JN	-	32.8 JN	-	30.9 J	-	53.8 J	-	40.9 JN
PCB-181	74472-47-2	pg/L	64	14000	-	< 7.7 U	-	< 5.28 U	-	< 6.87 U	-	< 8.2 U	-	< 9.65 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 7.34 U	-	< 5.03 U	-	< 6.56 U	-	< 7.73 U	-	< 8.93 U
PCB-183	52663-69-1	pg/L	64	14000	-	< 7.89 UJ	-	11 J	-	< 7.36 UJ	-	12.1 JN	-	< 10 UJ
PCB-184	74472-48-3	pg/L	64	14000	-	< 4.35 U	-	< 3.15 U	-	< 4.14 U	-	< 4.83 U	-	< 3.09 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 9.77 U	-	< 6.7 U	-	< 7.93 U	-	< 10.3 U	-	< 10.9 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 3.87 U	-	< 2.79 U	-	< 3.67 U	-	< 4.32 U	-	< 2.83 U
PCB-187	52663-68-0	pg/L	64	14000	-	15.1	-	15.4 JN	-	12.1 JN	-	28	-	13.8 JN
PCB-188	74487-85-7	pg/L	64	14000	-	< 3.81 U	-	< 2.75 U	-	< 3.78 U	-	< 4.62 U	-	< 3.11 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 4.31 U	-	< 3.36 U	-	< 5.72 U	-	< 6.32 U	-	< 3.05 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 6.44 U	-	< 5.06 U	-	< 5.81 U	-	< 8.84 U	-	< 8.99 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 6.95 U	-	< 4.76 U	-	< 6.13 U	-	< 7.35 U	-	< 8.15 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 6.09 U	-	< 4.17 U	-	< 5.37 U	-	< 6.48 U	-	< 7.24 U
PCB-194	35694-08-7	pg/L	64	14000	-	6.42 JN	-	6.16 J	-	< 5.68 U	-	8.37 JN	-	7.96 JN
PCB-195	52663-78-2	pg/L	64	14000	-	< 4.88 U	-	3.19 JN	-	< 6.08 U	-	< 5.52 U	-	< 4.82 U
PCB-196	42740-50-1	pg/L	64	14000	-	5.61 J	-	5.26 J	-	< 4.89 U	-	< 4.31 U	-	2.8 JN
PCB-197	33091-17-7	pg/L	64	14000	-	< 1.66 U	-	< 1.83 U	-	< 3.84 U	-	< 3.3 U	-	< 2.47 U
PCB-198/199	PCB-198/199	pg/L			-	7.73 JN	-	10.9 JN	-	11.2 J	-	9.19 JN	-	11.7 J
PCB-200	52663-73-7	pg/L	64	14000	-	< 1.65 U	-	< 1.82 U	-	< 3.9 U	-	< 3.37 U	-	< 2.57 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 1.79 U	-	< 1.97 U	-	< 4.11 U	-	< 3.51 U	-	< 2.74 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 1.41 U	-	2.04 JN	-	< 3.37 U	-	3.95 JN	-	3.31 J
PCB-203	52663-76-0	pg/L	64	14000	-	4.04 JN	-	4.32 JN	-	< 4.02 U	-	5.7 JN	-	3.62 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 1.56 U	-	< 1.72 U	-	< 3.58 U	-	< 3.09 U	-	< 2.38 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 4.07 U	-	< 2.61 U	-	< 4.97 U	-	< 4.44 U	-	< 3.84 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 20 UJ	-	< 20.2 UJ	-	< 20.2 UJ	-	< 20.6 UJ	-	< 21 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 6.16 U	-	< 6.09 U	-	< 9.85 U	-	< 8.34 U	-	< 6.21 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 5.48 U	-	< 5.42 U	-	< 8.75 U	-	< 7.38 U	-	< 5.37 U
PCB-209	2051-24-3	pg/L	64	14000	-	8.65 JN	-	12.3	-	< 1.96 U	-	12.5	-	9.68 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	8.65	-	12.3	-	< 1.96 U	-	12.5	-	9.68
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	86.9	-	106	-	67.4	-	170	-	95.6
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	462	-	601	-	483	-	748	-	678
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	23.8	-	31.9	-	11.2	-	27.2	-	29.4
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	7920	-	6020	-	6290	-	8230	-	8980
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	940	-	1060	-	966	-	1400	-	1190
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	1830	-	782	-	1280	-	1530	-	2010
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	22.6	-	16.9	-	9.81	-	35.1	-	12.5
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 20 U	-	< 20.2 U	-	< 20.2 U	-	< 20.6 U	-	< 21 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1990	-	1820	-	1600	-	2000	-	2240
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	2550	-	1590	-	1870	-	2300	-	2710

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0001-PLW	23B-0001-PLW	23B-0002-PLW	23B-0002-PLW	23B-0003-PLW	23B-0003-PLW	23B-0004-PLW	23B-0004-PLW	23B-0005-PLW	23B-0005-PLW
				Sample Name	23B-0001-PLW-AS-F	23B-0001-PLW-AS-T	23B-0002-PLW-AS-F	23B-0002-PLW-AS-T	23B-0003-PLW-AS-F	23B-0003-PLW-AS-T	23B-0004-PLW-AS-F	23B-0004-PLW-AS-T	23B-0005-PLW-AS-F	23B-0005-PLW-AS-T
				Sample Date	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	2.35 - 2.35 ft	2.35 - 2.35 ft	1 - 1 ft	1 - 1 ft	1.25 - 1.25 ft	1.25 - 1.25 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	ug/L	2000	87	66 J	42	58 J	47	85 J	43	37 J	95	62 J+	45
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	< 2.0 U	0.20 J	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.16 J	0.16 J
Arsenic	7440-38-2	ug/L	0.018	150	0.30 J	0.46 J	0.41 J	0.42 J	0.47 J	0.35 J	0.42 J	0.38 J	0.25 J	0.34 J
Barium	7440-39-3	ug/L	380	220	31	33	33	36	33	33	32	35	31	35
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	13000	13000	13000	15000	13000	13000	13000	14000	13000	14000
Chromium, Total	7440-47-3	ug/L	100	44	0.60 J	0.66 J	0.70 J	1.8 J	0.73 J	0.85 J	0.67 J	1.2 J	0.80 J	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.14 J	0.20 J	0.17 J	0.25 J	0.16 J	0.20 J	0.13 J	0.20 J	0.18 J	0.19 J
Copper	7440-50-8	ug/L	80	5	1.5 J	1.5 J	1.7 J	2.0	1.6 J	1.6 J	1.6 J	1.7 J	1.9 J	1.7 J
Iron	7439-89-6	ug/L	1400	1000	500	810	650	850	500	830	610	880	510	850
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	1.2	1.1	1.6	< 1.0 U	1.2	< 1.0 U	1.2	< 1.0 U	1.3
Magnesium	7439-95-4	ug/L		82000	3100	3400	3200	3400	3200	3300	3100	3500	3300	3400
Manganese	7439-96-5	ug/L	43	93	75	96	81	99	78	93	73	96	78	95
Nickel	7440-02-0	ug/L	39	27	0.77 J	0.75 J	0.82 J	1.0	0.91 J	0.79 J	0.76 J	1.5	1.0 J	1.0 J+
Potassium	7440-09-7	ug/L		53000	2600	2800	2700	2900	2700	2700	2600	2900	2700	2900
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	50000	58000	52000	57000	53000	56000	51000	58000	56000	56000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.39 J	0.59 J	0.54 J	0.65 J	0.46 J	0.65 J	0.50 J	0.70 J	0.49 J	0.65 J
Zinc	7440-66-6	ug/L	600	11.8	5.9 J+	5.6 J+	14	7.8	5.8 J+	5.5 J+	5.4 J+	5.1 J+	6.7 J+	11 J+
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide														
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
Hexavalent Chromium														
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	2.2
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.49 J
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.57
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	0.18 J	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0001-PLW	23B-0001-PLW	23B-0002-PLW	23B-0002-PLW	23B-0003-PLW	23B-0003-PLW	23B-0004-PLW	23B-0004-PLW	23B-0005-PLW	23B-0005-PLW
					Sample Name	23B-0001-PLW-AS-F	23B-0001-PLW-AS-T	23B-0002-PLW-AS-F	23B-0002-PLW-AS-T	23B-0003-PLW-AS-F	23B-0003-PLW-AS-T	23B-0004-PLW-AS-F	23B-0004-PLW-AS-T	23B-0005-PLW-AS-F	23B-0005-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	2.35 - 2.35 ft	2.35 - 2.35 ft	1 - 1 ft	1 - 1 ft	1.25 - 1.25 ft	1.25 - 1.25 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	0.75 J+	-	< 0.50 U	-	< 0.50 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	5.0
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	0.17 J	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	0.47 J	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	0.20 J	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Styrene	100-42-5	ug/L	100	32	-	< 0.50 R	-	< 0.50 R	-	< 0.50 R	-	< 0.50 R	-	< 0.50 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	0.76	-	0.11 J	-	< 0.50 U	-	0.40 J
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.17 J
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.71
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.1 U	-	< 5.1 UJ	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.1 UJ	-	< 5.1 UJ	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.1 UJ	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0001-PLW	23B-0001-PLW	23B-0002-PLW	23B-0002-PLW	23B-0003-PLW	23B-0003-PLW	23B-0004-PLW	23B-0004-PLW	23B-0005-PLW	23B-0005-PLW
					Sample Name	23B-0001-PLW-AS-F	23B-0001-PLW-AS-T	23B-0002-PLW-AS-F	23B-0002-PLW-AS-T	23B-0003-PLW-AS-F	23B-0003-PLW-AS-T	23B-0004-PLW-AS-F	23B-0004-PLW-AS-T	23B-0005-PLW-AS-F	23B-0005-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	2.35 - 2.35 ft	2.35 - 2.35 ft	1 - 1 ft	1 - 1 ft	1.25 - 1.25 ft	1.25 - 1.25 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.1 U	-	< 5.1 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.1 U	-	< 5.1 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U	-	< 1.6 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U	-	< 1.6 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U	-	< 1.6 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U	-	< 1.6 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U	-	< 1.6 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	2.1 J+	-	2.5	-	2.5 J+	-	2.5	-	2.7
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	3.1	-	6.3	-	6.5	-	6.0	-	8.9 J-
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U	-	< 1.6 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.32 J	-	< 1.8 U	-	0.27 J	-	0.28 J	-	0.26 J
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U	-	< 1.6 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U	-	< 1.6 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	1.5 J-	-	1.9	-	2.1	-	2.0	-	2.2
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	1.6 J	-	2.0	-	2.1	-	2.0	-	2.3
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.4	-	3.1	-	3.3	-	2.9	-	4.2
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U	-	< 1.6 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.58 J	-	0.73 J	-	0.68 J	-	0.70 J	-	0.79 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	0.38 J	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U	-	< 1.6 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	3.7	-	4.5	-	4.5	-	4.6	-	5.1
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	4.3	-	4.6	-	5.0	-	4.4	-	5.7
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	< 1.8 U	-	0.29 J	-	0.31 J+	-	0.33 J	-	0.32 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	3.0	-	4.2	-	4.4 J+	-	4.3	-	4.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U	-	< 1.6 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U	-	< 1.6 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0001-PLW	23B-0001-PLW	23B-0002-PLW	23B-0002-PLW	23B-0003-PLW	23B-0003-PLW	23B-0004-PLW	23B-0004-PLW	23B-0005-PLW	23B-0005-PLW
				Sample Name	23B-0001-PLW-AS-F	23B-0001-PLW-AS-T	23B-0002-PLW-AS-F	23B-0002-PLW-AS-T	23B-0003-PLW-AS-F	23B-0003-PLW-AS-T	23B-0004-PLW-AS-F	23B-0004-PLW-AS-T	23B-0005-PLW-AS-F	23B-0005-PLW-AS-T
				Sample Date	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	2.35 - 2.35 ft	2.35 - 2.35 ft	1 - 1 ft	1 - 1 ft	1.25 - 1.25 ft	1.25 - 1.25 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U	-	< 1.6 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	9.18	-	9.25	-	8.9	-	8.67	-	9.19
Oxidation-Reduction Potential	ORP	mv			-	123	-	128.5	-	136.3	-	129.7	-	151.1
pH	PH	su			-	6.75	-	6.86	-	6.68	-	6.64	-	6.88
Specific Conductance	SC	us/cm			-	420.5	-	411.4	-	410.7	-	410	-	411.5
Temperature	TEMP	deg c			-	12.3	-	12.9	-	12.5	-	12.2	-	13.1
Turbidity	TURB	NTU			-	0.84	-	0.79	-	0.74	-	0.81	-	0.76

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0006-PLW	23B-0006-PLW	23B-0007-PLW	23B-0007-PLW	23B-0008-PLW	23B-0008-PLW	23B-0009-PLW	23B-0009-PLW	23B-0010-PLW	23B-0010-PLW
					Sample Name	23B-0006-PLW-AS-F	23B-0006-PLW-AS-T	23B-0007-PLW-AS-F	23B-0007-PLW-AS-T	23B-0008-PLW-AS-F	23B-0008-PLW-AS-T	23B-0009-PLW-AS-F	23B-0009-PLW-AS-T	23B-0010-PLW-AS-F	23B-0010-PLW-AS-T
					Sample Date	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.2 - 2.2 ft	2.2 - 2.2 ft	1.85 - 1.85 ft	1.85 - 1.85 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.65 - 1.65 ft	1.65 - 1.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.51 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	4.42 JN	-	4.67 JN	-	< 1.69 U	-	< 2.27 U	-	< 1.93 U
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.15 U	-	< 1.55 U	-	< 1.08 U	-	< 1.07 U	-	< 1.52 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.42 U	-	< 2.29 U	-	< 1.96 U	-	< 2.25 U	-	< 2.09 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.28 U	-	< 1.52 U	-	< 0.92 U	-	< 1.09 U	-	< 1.6 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.63 U	-	< 2.39 U	-	< 1.99 U	-	< 2.15 U	-	< 2.17 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.27 U	-	< 1.53 U	-	< 0.969 U	-	< 1.08 U	-	< 1.56 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.47 U	-	< 2.5 U	-	< 1.89 U	-	< 2.32 U	-	< 2.02 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.61 U	-	< 1.86 U	-	< 1.17 U	-	< 1.29 U	-	< 1.92 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.45 U	-	< 2.3 UJ	-	< 1.24 U	-	< 1.19 U	-	< 2.59 U
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.35 U	-	< 1.05 U	-	< 0.979 U	-	< 1.2 U	-	< 2.02 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	13.2 J+	-	3.91 J+	-	< 0.928 U	-	< 0.931 U	-	< 1.28 U
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.45 U	-	< 1.77 U	-	< 1.01 U	-	< 1.24 U	-	< 1.74 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.33 U	-	< 0.946 U	-	< 0.929 U	-	< 1.11 U	-	< 2.02 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 10 UJ	-	< 9.75 UJ	-	< 9.87 UJ	-	< 10 UJ	-	< 9.81 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 1.15 U	-	< 1.17 U	-	< 0.995 U	-	< 1.04 U	-	< 1.69 U
OCDD	3268-87-9	pg/L	400	31	-	26.4 J	-	23.8 J	-	7.2 J	-	4.95 JN	-	8.96 JN
OCDF	39001-02-0	pg/L	400	31	-	7.51 JN	-	< 3.95 U	-	< 1.38 U	-	< 1.48 U	-	< 3.62 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	4.42	-	4.67	-	< 1.69 U	-	< 2.27 U	-	< 1.93 U
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	13.2	-	3.91 U	-	< 1.08 U	-	< 1.07 U	-	< 1.52 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 1.63 U	-	< 2.5 U	-	< 1.99 U	-	< 2.32 U	-	< 2.17 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.61 U	-	< 1.86 U	-	< 1.17 U	-	< 1.29 U	-	< 1.92 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.45 U	-	< 2.3 U	-	< 1.24 U	-	< 1.19 U	-	< 2.59 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.35 U	-	< 1.05 U	-	< 0.979 U	-	< 1.2 U	-	< 2.02 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 10 U	-	< 9.75 U	-	< 9.87 U	-	< 10 U	-	< 9.81 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 1.15 U	-	< 1.17 U	-	< 0.995 U	-	< 1.04 U	-	< 1.69 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	8.51 J	-	19.4 JN	-	24.9 J	-	16.8 JN	-	173 J
PCB-002	2051-61-8	pg/L	64	14000	-	< 2.65 U	-	< 3.25 U	-	< 3.33 U	-	< 3.78 U	-	< 6.03 U
PCB-003	2051-62-9	pg/L	64	14000	-	< 2.72 UJ	-	10.2 J	-	9.85 J	-	10.5 J	-	73.4
PCB-004	13029-08-8	pg/L	64	14000	-	507 J	-	805 J	-	1650 J	-	1740 J	-	1460 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 6.59 U	-	< 11.2 U	-	< 6.1 U	-	< 10.7 U	-	< 12.2 U
PCB-006	25569-80-6	pg/L	64	14000	-	6.48 JN	-	11.8 JN	-	28.1 JN	-	< 8.77 UJ	-	14.1 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 6.28 U	-	< 10.7 U	-	< 5.83 U	-	< 9.96 U	-	< 11.3 U
PCB-008	34883-43-7	pg/L	64	14000	-	28.3 J+	-	48.9 JN	-	73.2 J	-	32.8 JN	-	98.4
PCB-009	34883-39-1	pg/L	64	14000	-	< 5.84 U	-	< 9.79 U	-	< 5.28 U	-	< 8.99 U	-	< 10.2 U
PCB-010	33146-45-1	pg/L	64	14000	-	106	-	190	-	411	-	326 JN	-	1120

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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Boston, Massachusetts

					Location	23B-0006-PLW	23B-0006-PLW	23B-0007-PLW	23B-0007-PLW	23B-0008-PLW	23B-0008-PLW	23B-0009-PLW	23B-0009-PLW	23B-0010-PLW	23B-0010-PLW
					Sample Name	23B-0006-PLW-AS-F	23B-0006-PLW-AS-T	23B-0007-PLW-AS-F	23B-0007-PLW-AS-T	23B-0008-PLW-AS-F	23B-0008-PLW-AS-T	23B-0009-PLW-AS-F	23B-0009-PLW-AS-T	23B-0010-PLW-AS-F	23B-0010-PLW-AS-T
					Sample Date	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.2 - 2.2 ft	2.2 - 2.2 ft	1.85 - 1.85 ft	1.85 - 1.85 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.65 - 1.65 ft	1.65 - 1.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	351 J+	-	< 167 U	-	170 J	-	169 J	-	73 JN
PCB-012/013	PCB-12/13	pg/L			-	11.8 JN	-	16.2 JN	-	14.1 JN	-	< 10.2 UJ	-	18.3 JN
PCB-014	34883-41-5	pg/L	64	14000	-	< 6.35 U	-	< 10.9 U	-	< 5.82 U	-	< 10.1 U	-	< 11.5 U
PCB-015	2050-68-2	pg/L	64	14000	-	235 J	-	318 J	-	467 J	-	301 J	-	380 J
PCB-016	38444-78-9	pg/L	64	14000	-	26.5 JN	-	26.9 JN	-	52.6	-	47.5	-	< 21.6 U
PCB-017	37680-66-3	pg/L	64	14000	-	161	-	214	-	378 J	-	342 J	-	283
PCB-018/030	PCB-18/30	pg/L			-	120	-	143	-	259 J	-	229 J	-	196
PCB-019	38444-73-4	pg/L	64	14000	-	406 J	-	537 J	-	754 J	-	642 J	-	1380 J
PCB-020/028	PCB-20/28	pg/L			-	132	-	287	-	272 J	-	155 J	-	151
PCB-021/033	PCB-21/33	pg/L			-	< 8.19 U	-	< 11.5 U	-	23.1 J	-	19.5 J	-	< 18 U
PCB-022	38444-85-8	pg/L	64	14000	-	< 7.67 U	-	< 10.7 U	-	22.5 J	-	< 12.1 UJ	-	< 16.6 UJ
PCB-023	55720-44-0	pg/L	64	14000	-	< 8.71 U	-	< 11.8 U	-	< 12.5 U	-	< 14 U	-	< 19.1 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 4.96 U	-	< 6.78 U	-	10.8	-	3.58 JN	-	< 15.7 U
PCB-025	55712-37-3	pg/L	64	14000	-	41.3	-	65.4	-	84.3 J	-	64.1 J	-	46.3
PCB-026/029	PCB-26/29	pg/L			-	95.5	-	145	-	215 J	-	157 J	-	125
PCB-027	38444-76-7	pg/L	64	14000	-	209	-	284	-	340 J	-	295 J	-	646
PCB-031	16606-02-3	pg/L	64	14000	-	77.7	-	112	-	178 J	-	134 J	-	112
PCB-032	38444-77-8	pg/L	64	14000	-	111	-	219	-	392 J	-	256 J	-	396
PCB-034	37680-68-5	pg/L	64	14000	-	< 9.22 U	-	< 13 U	-	< 12.7 U	-	< 14.5 U	-	< 19.8 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 8.43 U	-	< 12.1 U	-	< 11.4 U	-	< 12.8 U	-	< 17.5 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 7.49 U	-	< 10.8 U	-	< 10.1 U	-	< 11.4 U	-	< 15.6 U
PCB-037	38444-90-5	pg/L	64	14000	-	19.4 J	-	42.1 J	-	44.2 J	-	22.9 JN	-	25.5 JN
PCB-038	53555-66-1	pg/L	64	14000	-	< 8.25 U	-	< 11.6 U	-	< 11 U	-	< 12.6 U	-	< 17.3 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 8.19 U	-	< 11.7 U	-	< 11.1 U	-	< 12.8 U	-	< 17.4 U
PCB-040/071	PCB-40/71	pg/L			-	74.5	-	146	-	168 J	-	89.9 J	-	112
PCB-041	52663-59-9	pg/L	64	14000	-	< 5.17 U	-	9.04 J	-	10 J	-	7.81 JN	-	< 9.82 U
PCB-042	36559-22-5	pg/L	64	14000	-	42.9 JN	-	91.9	-	133 J	-	61.8 J	-	80.9
PCB-043	70362-46-8	pg/L	64	14000	-	10.3	-	20.8	-	18.6	-	7.44 JN	-	24.1
PCB-044/047/065	PCB-44/47/65	pg/L			-	293	-	540	-	575 J	-	328 J	-	515
PCB-045	70362-45-7	pg/L	64	14000	-	36.8 J	-	63.6 J	-	62.9	-	29.2 JN	-	48.8
PCB-046	41464-47-5	pg/L	64	14000	-	23.9	-	32.6 JN	-	47.8 J	-	29.1 JN	-	34.1 JN
PCB-048	70362-47-9	pg/L	64	14000	-	9.01 JN	-	21.8	-	26 J	-	20.4 J	-	15.8
PCB-049/069	PCB-49/69	pg/L			-	177	-	337	-	381 J	-	228 J	-	327
PCB-050/053	PCB-50/53	pg/L			-	166	-	268	-	283	-	212	-	296
PCB-051	68194-04-7	pg/L	64	14000	-	15.3	-	41.1	-	78.4	-	51.1	-	55.2
PCB-052	35693-99-3	pg/L	64	14000	-	288	-	475	-	534 J	-	354 J	-	402
PCB-054	15968-05-5	pg/L	64	14000	-	16.4	-	18.4	-	17.6 JN	-	16.6 J	-	34.4
PCB-055	74338-24-2	pg/L	64	14000	-	< 4.01 U	-	< 5.25 U	-	< 4.3 U	-	< 6.39 U	-	< 6.49 U
PCB-056	41464-43-1	pg/L	64	14000	-	19.7	-	37.8	-	31.6 J	-	23 J	-	23.2
PCB-057	70424-67-8	pg/L	64	14000	-	< 4.49 U	-	< 5.79 U	-	< 4.75 U	-	< 7.16 U	-	< 7.27 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 4.05 U	-	< 5.21 U	-	< 4.18 U	-	< 6.24 U	-	< 6.33 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	21.9 J	-	41.8 JN	-	55.3 J	-	21.6 JN	-	33.6
PCB-060	33025-41-1	pg/L	64	14000	-	< 4.83 U	-	19.9	-	11.3 J	-	4.44 JN	-	9.63 JN
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	104	-	187	-	176 J	-	125 J	-	150
PCB-063	74472-34-7	pg/L	64	14000	-	4.18 JN	-	9.92 JN	-	12.6 JN	-	< 7.68 UJ	-	26.7
PCB-064	52663-58-8	pg/L	64	14000	-	58.9	-	131	-	170 J	-	73.4 J	-	90.2
PCB-066	32598-10-0	pg/L	64	14000	-	72	-	133	-	119 J	-	78.9 J	-	115
PCB-067	73575-53-8	pg/L	64	14000	-	< 3.69 U	-	< 4.95 U	-	4.66 JN	-	< 6.04 U	-	< 6.14 U
PCB-068	73575-52-7	pg/L	64	14000	-	4.33 JN	-	10.6	-	6.83 JN	-	< 7.24 UJ	-	< 7.35 U
PCB-072	41464-42-0	pg/L	64	14000	-	5.31 JN	-	8.72 JN	-	7.55 JN	-	8.64 J	-	11.6
PCB-073	74338-23-1	pg/L	64	14000	-	8.11 JN	-	11.4	-	10.8 JN	-	6.92 J	-	12.3 J
PCB-077	32598-13-3	pg/L	64	14000	-	6.43 JN	-	11.6	-	12.6 J	-	6 JN	-	< 7.74 U
PCB-078	70362-49-1	pg/L	64	14000	-	< 4.39 U	-	< 5.69 U	-	< 4.65 U	-	< 7.01 U	-	< 7.12 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 3.9 U	-	< 4.98 U	-	< 3.89 U	-	< 5.85 U	-	< 5.94 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 4.12 U	-	< 5.39 U	-	< 4.34 U	-	< 6.51 U	-	< 6.61 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 4.36 U	-	< 5.45 U	-	< 4.35 U	-	< 6.49 U	-	< 6.59 U
PCB-082	52663-62-4	pg/L	64	14000	-	16.8 J	-	26.2 J	-	20.2 J	-	10.4 JN	-	15.9 J
PCB-083	60145-20-2	pg/L	64	14000	-	8.93 JN	-	22.3 JN	-	17.5 J	-	17.9 JN	-	15.8 JN
PCB-084	52663-60-2	pg/L	64	14000	-	62.9	-	77.4	-	79.6 J	-	49.8 JN	-	57.7

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0006-PLW	23B-0006-PLW	23B-0007-PLW	23B-0007-PLW	23B-0008-PLW	23B-0008-PLW	23B-0009-PLW	23B-0009-PLW	23B-0010-PLW	23B-0010-PLW
					Sample Name	23B-0006-PLW-AS-F	23B-0006-PLW-AS-T	23B-0007-PLW-AS-F	23B-0007-PLW-AS-T	23B-0008-PLW-AS-F	23B-0008-PLW-AS-T	23B-0009-PLW-AS-F	23B-0009-PLW-AS-T	23B-0010-PLW-AS-F	23B-0010-PLW-AS-T
					Sample Date	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.2 - 2.2 ft	2.2 - 2.2 ft	1.85 - 1.85 ft	1.85 - 1.85 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.65 - 1.65 ft	1.65 - 1.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	25.6	-	39.5	-	35.4 J	-	18.9 J	-	27.5 JN
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	116	-	156	-	110 J	-	82.1 J	-	114
PCB-088	55215-17-3	pg/L	64	14000	-	< 6.15 U	-	< 8.91 U	-	< 10.1 U	-	< 8.52 U	-	< 14.4 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 5.21 U	-	< 8.23 U	-	< 8.08 U	-	< 7.86 U	-	< 13.2 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	194	-	256	-	184 J	-	142 J	-	180
PCB-091	68194-05-8	pg/L	64	14000	-	41.7	-	56.5	-	54.6 J	-	42 J	-	56.2
PCB-092	52663-61-3	pg/L	64	14000	-	59.4	-	77	-	64.3 J	-	44.4 J	-	77.8
PCB-093/100	PCB-93/100	pg/L			-	< 5.67 U	-	< 8.63 U	-	< 8.8 U	-	< 8.18 U	-	< 13.8 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 5.99 U	-	< 9.35 U	-	< 9.43 UJ	-	< 9.12 UJ	-	< 15.4 U
PCB-095	38379-99-6	pg/L	64	14000	-	184	-	234	-	213 J	-	153 J	-	174
PCB-096	73575-54-9	pg/L	64	14000	-	5.11 J	-	< 2.4 U	-	5.09 JN	-	3.5 J	-	< 4.56 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 4.24 U	-	< 7 U	-	< 8.1 U	-	< 7.31 U	-	< 12.3 U
PCB-099	38380-01-7	pg/L	64	14000	-	82.7	-	102	-	72.3 JN	-	51.1 J	-	83.3
PCB-102	68194-06-9	pg/L	64	14000	-	9.86	-	< 7.33 U	-	9.64 JN	-	< 6.92 UJ	-	< 11.7 U
PCB-103	60145-21-3	pg/L	64	14000	-	< 5.13 U	-	< 7.96 U	-	< 8.16 UJ	-	7.2 J	-	< 13.4 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 1.87 U	-	< 2.08 U	-	< 2.31 U	-	< 2.57 U	-	< 3.95 U
PCB-105	32598-14-4	pg/L	64	14000	-	29.6 JN	-	42.3 J	-	33.9 J	-	15.9 JN	-	32.5
PCB-106	70424-69-0	pg/L	64	14000	-	< 3.41 U	-	< 5.49 U	-	< 5.8 U	-	< 5.52 U	-	< 9.3 U
PCB-107	70424-68-9	pg/L	64	14000	-	9.47 J	-	< 5.43 U	-	10.7 J	-	< 5.41 UJ	-	9.97 JN
PCB-108/124	PCB-108/124	pg/L			-	8.33 J	-	< 6.14 U	-	< 6.2 U	-	< 5.96 U	-	< 10 U
PCB-110	38380-03-9	pg/L	64	14000	-	248	-	316	-	209 J	-	144 J	-	197
PCB-111	39635-32-0	pg/L	64	14000	-	< 3.82 U	-	< 6.04 U	-	< 5.92 U	-	< 5.7 U	-	< 9.6 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 3.16 U	-	< 5.05 U	-	< 4.95 U	-	< 4.8 U	-	< 8.09 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 3.85 U	-	< 5.6 U	-	< 5.07 U	-	< 4.59 U	-	< 8.57 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 2.8 U	-	< 4.71 U	-	< 5.22 U	-	< 4.88 U	-	< 8.21 U
PCB-117	68194-11-6	pg/L	64	14000	-	7.28 JN	-	11	-	6.53 JN	-	< 5.98 UJ	-	12.4
PCB-118	31508-00-6	pg/L	64	14000	-	102	-	146	-	86 J	-	64 J	-	105
PCB-120	68194-12-7	pg/L	64	14000	-	< 3.12 U	-	< 4.93 U	-	< 4.87 U	-	< 4.79 U	-	< 8.07 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 3.4 U	-	< 5.41 U	-	< 5.39 U	-	< 5.29 U	-	< 8.92 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 4.97 U	-	< 7.24 U	-	< 6.67 U	-	< 5.87 U	-	< 11 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 3.63 U	-	< 5.63 U	-	< 5.37 U	-	< 5.23 U	-	< 8.81 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 3.54 U	-	< 2.71 U	-	< 4.65 U	-	< 4.8 U	-	< 4.32 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 4.11 U	-	< 5.74 U	-	< 5.26 U	-	< 5.07 U	-	< 8.96 U
PCB-128/166	PCB-128/166	pg/L			-	28.2	-	43.5	-	15.9 JN	-	17.3 J	-	15.3 JN
PCB-129/138/163	PCB-129/138/163	pg/L			-	190	-	277	-	120 J	-	89 J	-	140
PCB-130	52663-66-8	pg/L	64	14000	-	14.3	-	14.2 JN	-	8.53 JN	-	6.82 JN	-	< 4.39 U
PCB-131	61798-70-7	pg/L	64	14000	-	< 2.34 U	-	< 4.41 U	-	< 3.84 U	-	< 4.08 U	-	< 3.88 U
PCB-132	38380-05-1	pg/L	64	14000	-	48.5 JN	-	89.5	-	37.5 J	-	32 J	-	39.7
PCB-133	35694-04-3	pg/L	64	14000	-	< 2.07 U	-	< 4.04 U	-	< 3.3 U	-	< 3.65 U	-	< 3.46 U
PCB-134	52704-70-8	pg/L	64	14000	-	13.2	-	13.6 JN	-	< 4.77 UJ	-	< 5.37 UJ	-	< 5.11 U
PCB-135/151	PCB-135/151	pg/L			-	43.8	-	61.4	-	30.5 JN	-	25.9 J	-	28.3 JN
PCB-136	38411-22-2	pg/L	64	14000	-	21.6 J	-	26.4 JN	-	13 JN	-	12.8 J	-	17.4 JN
PCB-137	35694-06-5	pg/L	64	14000	-	9.92	-	13.4	-	6.57 JN	-	< 3.89 UJ	-	< 3.7 U
PCB-139/140	PCB-139/140	pg/L			-	< 2.09 U	-	< 4.03 U	-	< 3.33 U	-	< 3.63 U	-	< 3.45 U
PCB-141	52712-04-6	pg/L	64	14000	-	22.2	-	29.2	-	16.4 J	-	13.7 J	-	15.5
PCB-142	41411-61-4	pg/L	64	14000	-	< 2.31 U	-	< 4.49 U	-	< 3.75 U	-	< 4.19 U	-	< 3.98 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 2.16 U	-	< 4.3 U	-	< 3.27 U	-	< 3.52 U	-	< 3.35 U
PCB-144	68194-14-9	pg/L	64	14000	-	5.36 JN	-	5.35 JN	-	< 3.52 UJ	-	< 3.84 UJ	-	5.2 JN
PCB-145	74472-40-5	pg/L	64	14000	-	< 1.66 U	-	< 3.05 U	-	< 2.78 U	-	< 2.77 U	-	< 2.82 U
PCB-146	51908-16-8	pg/L	64	14000	-	17.7	-	24.6	-	14.3 J	-	11 JN	-	13.8 JN
PCB-147/149	PCB-147/149	pg/L			-	108	-	164	-	81.4 J	-	55.1 J	-	82.8
PCB-148	74472-41-6	pg/L	64	14000	-	< 2.18 U	-	< 4.17 U	-	< 3.44 U	-	< 3.76 U	-	< 3.57 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 1.76 U	-	< 3.16 U	-	< 2.94 U	-	< 2.86 U	-	< 2.92 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 1.6 U	-	< 2.98 U	-	< 2.61 U	-	< 2.6 U	-	< 2.65 U
PCB-153/168	PCB-153/168	pg/L			-	120	-	163	-	85 J	-	61.3 J	-	84.5
PCB-154	60145-22-4	pg/L	64	14000	-	< 1.93 U	-	< 3.71 U	-	< 3.2 U	-	< 3.5 U	-	< 3.33 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0006-PLW	23B-0006-PLW	23B-0007-PLW	23B-0007-PLW	23B-0008-PLW	23B-0008-PLW	23B-0009-PLW	23B-0009-PLW	23B-0010-PLW	23B-0010-PLW
					Sample Name	23B-0006-PLW-AS-F	23B-0006-PLW-AS-T	23B-0007-PLW-AS-F	23B-0007-PLW-AS-T	23B-0008-PLW-AS-F	23B-0008-PLW-AS-T	23B-0009-PLW-AS-F	23B-0009-PLW-AS-T	23B-0010-PLW-AS-F	23B-0010-PLW-AS-T
					Sample Date	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.2 - 2.2 ft	2.2 - 2.2 ft	1.85 - 1.85 ft	1.85 - 1.85 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.65 - 1.65 ft	1.65 - 1.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 1.49 U	-	< 2.73 U	-	< 2.41 U	-	< 2.39 U	-	< 2.44 U
PCB-156/157	PCB-156/157	pg/L			-	14.6 JN	-	21.7	-	13.7 J	-	8.64 J	-	16 J
PCB-158	74472-42-7	pg/L	64	14000	-	16.1 JN	-	24.8 J	-	11.6 J	-	8.37 J	-	13.2 JN
PCB-159	39635-35-3	pg/L	64	14000	-	< 2.01 U	-	< 3.01 U	-	< 3.82 U	-	< 3.97 U	-	< 4.08 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 1.65 U	-	< 3.29 U	-	< 2.98 U	-	< 3.26 U	-	< 3.1 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 1.49 U	-	< 2.87 U	-	< 2.53 U	-	< 2.79 U	-	< 2.65 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 2.36 U	-	< 3.51 U	-	< 4.56 U	-	< 4.7 U	-	< 4.84 U
PCB-164	74472-45-0	pg/L	64	14000	-	8.04 JN	-	13.9 JN	-	5.42 JN	-	4.74 JN	-	< 2.74 U
PCB-165	74472-46-1	pg/L	64	14000	-	< 1.78 U	-	< 3.49 U	-	< 2.9 U	-	< 3.21 U	-	< 3.05 U
PCB-167	52663-72-6	pg/L	64	14000	-	5.31 JN	-	12	-	5.42 J	-	< 4.4 UJ	-	5.53 JN
PCB-169	32774-16-6	pg/L	4	14000	-	< 2.78 U	-	< 3.43 U	-	< 7.7 U	-	< 7.12 U	-	< 5.98 U
PCB-170	35065-30-6	pg/L	64	14000	-	20	-	34.1	-	17.7 J	-	< 8.47 UJ	-	22.9
PCB-171/173	PCB-171/173	pg/L			-	< 7.26 U	-	< 9.83 U	-	< 6.79 U	-	< 7.96 U	-	< 10.2 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 7 U	-	< 9.26 U	-	< 6.45 U	-	< 7.64 U	-	< 9.74 U
PCB-174	38411-25-5	pg/L	64	14000	-	18.3 JN	-	23.3 J	-	8.99 JN	-	< 7.01 UJ	-	13.2 JN
PCB-175	40186-70-7	pg/L	64	14000	-	< 7.14 U	-	< 9.55 U	-	< 6.6 U	-	< 7.74 U	-	< 9.88 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 2.61 U	-	3.58 JN	-	< 3.88 U	-	< 4.55 U	-	< 3.86 U
PCB-177	52663-70-4	pg/L	64	14000	-	12	-	12.1	-	< 6.09 UJ	-	< 7.29 UJ	-	6.77 JN
PCB-178	52663-67-9	pg/L	64	14000	-	5.45 JN	-	< 3.07 U	-	< 4.9 U	-	< 5.64 U	-	6.75 JN
PCB-179	52663-64-6	pg/L	64	14000	-	5.83 JN	-	10.1	-	5.27 J	-	< 3.94 UJ	-	6 JN
PCB-180/193	PCB-180/193	pg/L			-	47.8 J	-	60 J	-	28.2 J	-	18.6 JN	-	37.6
PCB-181	74472-47-2	pg/L	64	14000	-	< 6.11 U	-	< 8.45 U	-	< 5.77 U	-	< 6.83 U	-	< 8.71 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 5.81 U	-	< 7.82 U	-	< 5.41 U	-	< 6.39 U	-	< 8.15 U
PCB-183	52663-69-1	pg/L	64	14000	-	10.5 JN	-	8.81 JN	-	7.31 JN	-	< 7.25 UJ	-	< 9.24 U
PCB-184	74472-48-3	pg/L	64	14000	-	< 2.38 U	-	< 2.21 U	-	< 3.65 U	-	< 4.22 U	-	< 3.58 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 7.1 U	-	< 9.51 U	-	< 6.74 U	-	< 7.95 U	-	< 10.1 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 2.13 U	-	< 2.02 U	-	< 3.25 U	-	< 3.79 U	-	< 3.22 U
PCB-187	52663-68-0	pg/L	64	14000	-	19 JN	-	30.7 J	-	12.2 J	-	12 J	-	17.6 J
PCB-188	74487-85-7	pg/L	64	14000	-	< 2.26 U	-	< 2.23 U	-	< 3.31 U	-	< 3.71 U	-	< 3.15 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 2.78 U	-	< 3.16 U	-	< 3.6 U	-	< 5.13 U	-	< 5.7 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 5.08 U	-	< 6.74 U	-	< 4.76 U	-	< 6.2 U	-	< 8.09 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 5.36 U	-	< 7.14 U	-	< 5.21 U	-	< 6.14 U	-	< 7.83 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 4.88 U	-	< 6.35 U	-	< 4.57 U	-	< 5.37 U	-	< 6.86 U
PCB-194	35694-08-7	pg/L	64	14000	-	13.4	-	7.29 JN	-	4.47 JN	-	< 4.71 UJ	-	6.76 JN
PCB-195	52663-78-2	pg/L	64	14000	-	< 1.37 U	-	< 3.08 U	-	< 3.79 U	-	4 J	-	5.51 JN
PCB-196	42740-50-1	pg/L	64	14000	-	5.04 JN	-	6.88 JN	-	3.05 JN	-	< 3.38 UJ	-	3.93 JN
PCB-197	33091-17-7	pg/L	64	14000	-	< 1.6 U	-	< 2.41 U	-	< 2.14 U	-	< 2.57 U	-	< 1.83 U
PCB-198/199	PCB-198/199	pg/L			-	10.2 J	-	10.1 J	-	5.61 JN	-	6.42 JN	-	5.93 JN
PCB-200	52663-73-7	pg/L	64	14000	-	< 1.8 U	-	< 2.5 U	-	< 2.23 U	-	< 2.72 U	-	< 1.94 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 1.8 U	-	< 2.67 U	-	< 2.29 U	-	< 2.79 U	-	< 1.99 U
PCB-202	2136-99-4	pg/L	64	14000	-	1.44 JN	-	< 2.11 U	-	< 1.84 U	-	< 2.22 U	-	< 1.59 U
PCB-203	52663-76-0	pg/L	64	14000	-	4.01 JN	-	10.4	-	2.97 J	-	3.81 JN	-	4.47 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 1.56 U	-	< 2.32 U	-	< 2.02 U	-	< 2.42 U	-	< 1.73 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 1.08 U	-	< 2.46 U	-	< 3.05 U	-	< 4.05 U	-	< 4.54 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 19.24 UJ	-	< 19.6 UJ	-	< 19.8 UJ	-	< 20 UJ	-	5.63 JN
PCB-207	52663-79-3	pg/L	64	14000	-	< 4.83 U	-	< 5.83 U	-	< 5.1 U	-	< 6.58 U	-	< 6.94 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 4.24 U	-	< 5.04 U	-	< 4.35 U	-	< 5.69 U	-	< 6 U
PCB-209	2051-24-3	pg/L	64	14000	-	10.6	-	10.3 JN	-	< 1.93 UJ	-	< 2.39 UJ	-	< 6.26 U
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	10.6	-	10.3	-	< 1.93 U	-	< 2.39 U	-	< 6.26 U
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	139	-	183	-	79.7	-	30.6	-	111
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	687	-	998	-	465	-	347	-	477
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	34.1	-	34.7	-	16.1	-	14.2	-	26.6
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	6190	-	8950	-	10600	-	7980	-	11000
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	1210	-	1560	-	1210	-	846	-	1160
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	1250	-	1390	-	2810	-	2570	-	3160
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	8.51	-	29.6	-	34.8	-	27.3	-	246
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 19.24 U	-	< 19.6 U	-	< 19.8 U	-	< 20 U	-	5.63
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1460	-	2670	-	2950	-	1780	-	2420
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	1400	-	2080	-	3030	-	2370	-	3360

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0006-PLW	23B-0006-PLW	23B-0007-PLW	23B-0007-PLW	23B-0008-PLW	23B-0008-PLW	23B-0009-PLW	23B-0009-PLW	23B-0010-PLW	23B-0010-PLW
				Sample Name	23B-0006-PLW-AS-F	23B-0006-PLW-AS-T	23B-0007-PLW-AS-F	23B-0007-PLW-AS-T	23B-0008-PLW-AS-F	23B-0008-PLW-AS-T	23B-0009-PLW-AS-F	23B-0009-PLW-AS-T	23B-0010-PLW-AS-F	23B-0010-PLW-AS-T
				Sample Date	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.2 - 2.2 ft	2.2 - 2.2 ft	1.85 - 1.85 ft	1.85 - 1.85 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.65 - 1.65 ft	1.65 - 1.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	ug/L	2000	87	32 J+	50	30 J+	66	22 J+	63	< 20 U	36	23 J+	47
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	0.16 J	0.23 J	0.18 J	0.17 J	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150	0.33 J	0.36 J	0.42 J	0.50 J	0.48 J	0.49 J	0.33 J	0.37 J	0.32 J	0.36 J
Barium	7440-39-3	ug/L	380	220	33	35	35	35	41	44	40	42	39	37
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	0.090 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	13000	13000	13000	13000	16000	17000	16000	17000	16000	14000
Chromium, Total	7440-47-3	ug/L	100	44	0.75 J	< 2.0 U	0.88 J	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.19 J	0.21 J	0.52 J	0.27 J	0.53 J	0.28 J	0.19 J	0.21 J	0.19 J	0.21 J
Copper	7440-50-8	ug/L	80	5	1.8 J	1.8 J	1.8 J	1.9 J	1.5 J	1.9 J	1.1 J	1.6 J	1.2 J	1.5 J
Iron	7439-89-6	ug/L	1400	1000	520	870	400	930	650	1300	670	1200	700	1200
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	1.4	< 1.0 U	1.6	< 1.0 U	1.7	< 1.0 U	1.4	< 1.0 U	1.9
Magnesium	7439-95-4	ug/L		82000	3400	3400	3400	3400	4000	4100	4000	4000	3900	3500
Manganese	7439-96-5	ug/L	43	93	80	100	82	110	130	140	120	130	120	130
Nickel	7440-02-0	ug/L	39	27	0.86 J	1.1 J+	1.2 J	1.1 J+	1.3 J+	1.0	< 1.0 U	1.1	< 1.0 U	0.77 J
Potassium	7440-09-7	ug/L		53000	2900	2800	2800	2900	2800	2900	2800	2900	2700	2500
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	57000	55000	58000	56000	69000	71000	70000	70000	67000	61000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.48 J	0.67 J	0.73 J	0.77 J	0.63 J	0.79 J	0.46 J	0.70 J	0.47 J	0.67 J
Zinc	7440-66-6	ug/L	600	11.8	6.0 J+	8.5 J+	6.2 J+	8.9 J+	6.7 J+	6.6 J+	< 5.0 U	5.4 J+	5.7 J+	6.2 J+
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 R	< 0.20 UJ	< 0.20 R	< 0.20 UJ	< 0.20 R	< 0.20 UJ
Total Cyanide														
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	4.3 J	-	6.7 J	-	< 10 U	-	2.8 J
Hexavalent Chromium														
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 R	-	< 10 R	-	< 10 R	-
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	0.26 J	-	0.14 J	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	0.15 J	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	< 0.50 U	-	0.090 J	-	< 0.50 U	-	0.20 J
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0006-PLW	23B-0006-PLW	23B-0007-PLW	23B-0007-PLW	23B-0008-PLW	23B-0008-PLW	23B-0009-PLW	23B-0009-PLW	23B-0010-PLW	23B-0010-PLW
					Sample Name	23B-0006-PLW-AS-F	23B-0006-PLW-AS-T	23B-0007-PLW-AS-F	23B-0007-PLW-AS-T	23B-0008-PLW-AS-F	23B-0008-PLW-AS-T	23B-0009-PLW-AS-F	23B-0009-PLW-AS-T	23B-0010-PLW-AS-F	23B-0010-PLW-AS-T
					Sample Date	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.2 - 2.2 ft	2.2 - 2.2 ft	1.85 - 1.85 ft	1.85 - 1.85 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.65 - 1.65 ft	1.65 - 1.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	0.56	-	0.30 J	-	0.14 J	-	< 0.50 U	-	0.19 J	
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	0.11 J	-	< 0.50 U	-	0.37 J	
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.17 J	
Styrene	100-42-5	ug/L	100	32	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	0.12 J	-	0.11 J	-	< 0.50 U	-	0.46 J	
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 UJ	-	< 5.0 UJ	
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 U	
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
Acetophenone	98-86-2	ug/L	190		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 U	
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0006-PLW	23B-0006-PLW	23B-0007-PLW	23B-0007-PLW	23B-0008-PLW	23B-0008-PLW	23B-0009-PLW	23B-0009-PLW	23B-0010-PLW	23B-0010-PLW
					Sample Name	23B-0006-PLW-AS-F	23B-0006-PLW-AS-T	23B-0007-PLW-AS-F	23B-0007-PLW-AS-T	23B-0008-PLW-AS-F	23B-0008-PLW-AS-T	23B-0009-PLW-AS-F	23B-0009-PLW-AS-T	23B-0010-PLW-AS-F	23B-0010-PLW-AS-T
					Sample Date	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.2 - 2.2 ft	2.2 - 2.2 ft	1.85 - 1.85 ft	1.85 - 1.85 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.65 - 1.65 ft	1.65 - 1.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.1 U	-	< 5.0 U
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.1 U	-	< 5.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.1 U	-	< 5.0 U
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.9 U	-	< 1.9 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.9 U	-	< 1.9 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.9 U	-	< 1.9 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.9 U	-	< 1.9 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.9 U	-	< 1.9 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.2	-	2.5	-	2.7	-	3.0	-	2.8 J
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	5.0 J-	-	3.8	-	3.7	-	5.2	-	4.2 J
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.9 U	-	< 1.9 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.40 J	-	0.32 J	-	< 1.7 U	-	0.30 J	-	< 1.9 U
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.9 U	-	< 1.9 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.9 U	-	< 1.9 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.4	-	1.9	-	1.8	-	2.4	-	2.3
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.1	-	1.9	-	2.4	-	2.6	-	2.5
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	4.3	-	3.8	-	3.8	-	4.1	-	3.6
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.9 U	-	< 1.9 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.74 J	-	0.75 J	-	0.72 J	-	0.80 J	-	0.84 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	0.30 J	-	< 1.8 U	-	< 1.7 U	-	< 1.9 U	-	< 1.9 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	4.9	-	5.1	-	5.5	-	5.3	-	5.7
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.5	-	4.9	-	5.3	-	6.1	-	5.3
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.30 J	-	< 1.8 U	-	0.30 J	-	0.32 J	-	0.38 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.2	-	3.6	-	3.6	-	4.3	-	5.1 J
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.9 U	-	< 1.9 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.9 U	-	< 1.9 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0006-PLW	23B-0006-PLW	23B-0007-PLW	23B-0007-PLW	23B-0008-PLW	23B-0008-PLW	23B-0009-PLW	23B-0009-PLW	23B-0010-PLW	23B-0010-PLW
				Sample Name	23B-0006-PLW-AS-F	23B-0006-PLW-AS-T	23B-0007-PLW-AS-F	23B-0007-PLW-AS-T	23B-0008-PLW-AS-F	23B-0008-PLW-AS-T	23B-0009-PLW-AS-F	23B-0009-PLW-AS-T	23B-0010-PLW-AS-F	23B-0010-PLW-AS-T
				Sample Date	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.2 - 2.2 ft	2.2 - 2.2 ft	1.85 - 1.85 ft	1.85 - 1.85 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.65 - 1.65 ft	1.65 - 1.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.9 U	-	< 1.9 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.77	-	8.45	-	8.63	-	8.47	-	8.44
Oxidation-Reduction Potential	ORP	mv			-	141.2	-	183.4	-	161.8	-	181.5	-	143.6
pH	PH	su			-	6.91	-	6.66	-	6.96	-	6.91	-	6.85
Specific Conductance	SC	us/cm			-	407.3	-	404.7	-	494.5	-	492.7	-	491.8
Temperature	TEMP	deg c			-	12.6	-	12.6	-	13.7	-	13.4	-	13.2
Turbidity	TURB	NTU			-	1.09	-	1.34	-	1.82	-	1.81	-	2.87

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0011-PLW	23B-0011-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW
					Sample Name	23B-0011-PLW-AS-F	23B-0011-PLW-AS-T	23B-0012-PLW-AS-F	23B-0012-PLW-AS-T	23B-0012-PLW-AT-F	23B-0012-PLW-AT-T	23B-0013-PLW-AS-F	23B-0013-PLW-AS-T	23B-0013-PLW-BS-F	23B-0013-PLW-BS-T
					Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
					Sample Type	N	N	N	N	FD	FD	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.50 U	-	< 0.50 U	-	< 0.51 U	-	< 0.51 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.93 U	-	< 1.58 UJ	-	< 2.56 UJ	-	< 1.42 U	-	< 2.7 U
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.48 U	-	< 1.26 UJ	-	< 2.07 UJ	-	< 1.36 U	-	< 1.68 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.9 U	-	< 1.57 UJ	-	< 2.08 UJ	-	< 2 U	-	< 2.19 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.61 U	-	< 1.26 UJ	-	< 1.39 UJ	-	< 0.976 U	-	< 1.34 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 2.04 U	-	< 1.61 UJ	-	< 2.25 UJ	-	< 2.07 U	-	< 2.29 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.54 U	-	< 1.16 UJ	-	< 1.45 UJ	-	< 0.982 U	-	< 1.41 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.87 U	-	< 1.55 UJ	-	< 2.86 UJ	-	< 1.92 U	-	< 2.98 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.89 U	-	< 1.34 UJ	-	< 2.12 UJ	-	< 1.1 U	-	< 2.06 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 2.08 U	-	< 2.14 UJ	-	< 1.87 UJ	-	< 2.07 UJ	-	< 2 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.75 U	-	< 1.31 UJ	-	< 1.41 UJ	-	< 1.3 U	-	< 1.46 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 1.18 U	-	< 0.937 UJ	-	< 2.06 UJ	-	< 1.12 U	-	< 1.61 U
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.67 U	-	< 1.3 UJ	-	< 1.88 UJ	-	< 1.07 U	-	< 1.72 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.8 U	-	< 1.34 UJ	-	< 1.35 UJ	-	< 1.33 U	-	< 1.34 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.75 UJ	-	< 9.74 UJ	-	< 9.84 UJ	-	< 10.1 UJ	-	< 9.61 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 1.54 U	-	< 0.988 UJ	-	< 1.05 UJ	-	< 1.12 U	-	< 1.19 U
OCDD	3268-87-9	pg/L	400	31	-	< 4.01 U	-	9.73 J	-	< 7.71 UJ	-	< 6.63 U	-	< 8.78 U
OCDF	39001-02-0	pg/L	400	31	-	< 2.67 U	-	< 2.54 UJ	-	< 5.13 UJ	-	< 2.74 U	-	< 7.26 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.93 U	-	< 1.58 U	-	< 2.56 U	-	< 1.42 U	-	< 2.7 U
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 1.48 U	-	< 1.26 U	-	< 2.07 U	-	< 1.36 U	-	< 1.68 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 2.04 U	-	< 1.61 U	-	< 2.86 U	-	< 2.07 U	-	< 2.98 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.89 U	-	< 1.34 U	-	< 2.12 U	-	< 1.1 U	-	< 2.06 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 2.08 U	-	< 2.14 U	-	< 1.87 U	-	< 2.07 U	-	< 2 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.8 U	-	< 1.34 U	-	< 1.41 U	-	< 1.33 U	-	< 1.46 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.75 U	-	< 9.74 U	-	< 9.84 U	-	< 10.1 U	-	< 9.61 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 1.54 U	-	< 0.988 U	-	< 1.05 U	-	< 1.12 U	-	< 1.19 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	15.5 JN	-	15.7 JN	-	30.9 J	-	54.2 J	-	22.3 JN
PCB-002	2051-61-8	pg/L	64	14000	-	< 4.71 U	-	< 3.37 UJ	-	2.21 JN	-	< 2.78 U	-	< 3.2 U
PCB-003	2051-62-9	pg/L	64	14000	-	< 4.87 U	-	6.01 J	-	6.45 J	-	13 J	-	12 JN
PCB-004	13029-08-8	pg/L	64	14000	-	2990 J	-	1480 J	-	1960 J	-	1550 J	-	1550 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 7.72 U	-	< 4.34 UJ	-	< 5.98 UJ	-	< 6.15 U	-	< 5.22 U
PCB-006	25569-80-6	pg/L	64	14000	-	11.2 JN	-	5.79 JN	-	8.3 JN	-	10.3 JN	-	7.95 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 7.47 U	-	< 4.13 UJ	-	< 5.7 UJ	-	< 5.86 U	-	< 4.98 U
PCB-008	34883-43-7	pg/L	64	14000	-	37.9 JN	-	33.9 JN	-	32.5 JN	-	47.1 J+	-	30.2 JN
PCB-009	34883-39-1	pg/L	64	14000	-	< 6.7 U	-	< 3.85 UJ	-	< 5.3 UJ	-	< 5.45 U	-	< 4.63 U
PCB-010	33146-45-1	pg/L	64	14000	-	588	-	306 J	-	416 J	-	353	-	341

Table 17
Surface Water Analytical Results
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					Location	23B-0011-PLW	23B-0011-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW
					Sample Name	23B-0011-PLW-AS-F	23B-0011-PLW-AS-T	23B-0012-PLW-AS-F	23B-0012-PLW-AS-T	23B-0012-PLW-AT-F	23B-0012-PLW-AT-T	23B-0013-PLW-AS-F	23B-0013-PLW-AS-T	23B-0013-PLW-BS-F	23B-0013-PLW-BS-T
					Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
					Sample Type	N	N	N	N	FD	FD	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	101 J+	-	451 J	-	389 J	-	463 J+	-	426 J+
PCB-012/013	PCB-12/13	pg/L			-	11 JN	-	22.5 JN	-	14.5 JN	-	14.8 JN	-	< 5.17 U
PCB-014	34883-41-5	pg/L	64	14000	-	< 7.28 U	-	< 4.18 UJ	-	< 5.76 UJ	-	< 5.92 U	-	< 5.03 U
PCB-015	2050-68-2	pg/L	64	14000	-	299 J	-	260 J	-	273 J	-	293 J	-	292 J
PCB-016	38444-78-9	pg/L	64	14000	-	34.9 JN	-	34.1 J	-	39.7 JN	-	38.5	-	37.8
PCB-017	37680-66-3	pg/L	64	14000	-	355	-	248 J	-	284 J	-	281	-	272
PCB-018/030	PCB-18/30	pg/L			-	242	-	208 J	-	224 J	-	212	-	200
PCB-019	38444-73-4	pg/L	64	14000	-	741 J	-	634 J	-	670 J	-	674 J	-	650 J
PCB-020/028	PCB-20/28	pg/L			-	186	-	148 J	-	152 J	-	134 JN	-	164
PCB-021/033	PCB-21/33	pg/L			-	21.3 J+	-	13.4 J	-	10.5 JN	-	< 9.56 U	-	12.1 JN
PCB-022	38444-85-8	pg/L	64	14000	-	< 17 UJ	-	< 9.4 UJ	-	7.89 JN	-	8.01 JN	-	< 10.4 U
PCB-023	55720-44-0	pg/L	64	14000	-	< 19.8 U	-	< 10.7 UJ	-	< 7.62 UJ	-	< 10.2 U	-	< 11.8 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 13.4 U	-	< 8.43 UJ	-	< 5.87 UJ	-	< 6.87 U	-	< 7.15 U
PCB-025	55712-37-3	pg/L	64	14000	-	78.4	-	62.5 J	-	67.2 J	-	61.6	-	65.1
PCB-026/029	PCB-26/29	pg/L			-	188	-	151 J	-	168 J	-	158	-	159
PCB-027	38444-76-7	pg/L	64	14000	-	293	-	257 J	-	287 J	-	287	-	282
PCB-031	16606-02-3	pg/L	64	14000	-	185	-	119 J	-	129 J	-	123	-	129
PCB-032	38444-77-8	pg/L	64	14000	-	282	-	236 J	-	260 J	-	259	-	263
PCB-034	37680-68-5	pg/L	64	14000	-	< 20 U	-	< 11.3 UJ	-	< 8.07 UJ	-	< 10.8 U	-	< 12.5 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 17.8 U	-	< 10.3 UJ	-	< 7.37 UJ	-	< 9.84 U	-	< 11.4 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 15.9 U	-	< 9.18 UJ	-	< 6.55 UJ	-	< 8.74 U	-	< 10.2 U
PCB-037	38444-90-5	pg/L	64	14000	-	26.5 JN	-	19.8 JN	-	22.3 J	-	21.4 J	-	20.8 J
PCB-038	53555-66-1	pg/L	64	14000	-	< 17.5 U	-	< 10.1 UJ	-	< 7.22 UJ	-	< 9.63 U	-	< 11.2 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 17.7 U	-	< 10 UJ	-	< 7.17 UJ	-	< 9.56 U	-	< 11.1 U
PCB-040/071	PCB-40/71	pg/L			-	87	-	81.8 J	-	77.9 J	-	66.3	-	86.4
PCB-041	52663-59-9	pg/L	64	14000	-	< 10.6 U	-	< 5.75 UJ	-	6.15 JN	-	< 6.31 U	-	< 6.44 U
PCB-042	36559-22-5	pg/L	64	14000	-	60.9	-	60 J	-	56.8 J	-	52	-	59.4
PCB-043	70362-46-8	pg/L	64	14000	-	13.1	-	9.67 JN	-	11.2 JN	-	13	-	11.9
PCB-044/047/065	PCB-44/47/65	pg/L			-	345	-	327 J	-	332 J	-	325	-	358
PCB-045	70362-45-7	pg/L	64	14000	-	19.5 JN	-	30.4 JN	-	47.9 J	-	38.4 J	-	35 J
PCB-046	41464-47-5	pg/L	64	14000	-	31.5	-	33.2 J	-	32.8 J	-	28.4	-	30.5
PCB-048	70362-47-9	pg/L	64	14000	-	18.8	-	14.9 JN	-	18.3 JN	-	14.1 JN	-	17.8 JN
PCB-049/069	PCB-49/69	pg/L			-	236	-	203 J	-	222 J	-	214	-	227
PCB-050/053	PCB-50/53	pg/L			-	213	-	194 J	-	201 J	-	188	-	196
PCB-051	68194-04-7	pg/L	64	14000	-	51.5 JN	-	38 JN	-	28.1 J	-	36.9 JN	-	43.9
PCB-052	35693-99-3	pg/L	64	14000	-	355	-	333 J	-	339 J	-	312	-	333
PCB-054	15968-05-5	pg/L	64	14000	-	16.5 JN	-	19.9 J	-	20.1 J	-	18.3	-	17.9
PCB-055	74338-24-2	pg/L	64	14000	-	< 7.92 U	-	< 4.31 UJ	-	< 3.84 UJ	-	< 5.08 U	-	< 5.48 U
PCB-056	41464-43-1	pg/L	64	14000	-	20.2 JN	-	23.6 J	-	24.9 J	-	21.4	-	22.7
PCB-057	70424-67-8	pg/L	64	14000	-	< 8.72 U	-	< 4.82 UJ	-	< 4.3 UJ	-	< 5.69 U	-	< 6.13 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 7.65 U	-	< 4.36 UJ	-	< 3.88 UJ	-	< 5.14 U	-	< 5.54 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	25.4 J	-	26.1 J	-	27 J	-	22.7 J	-	25.8 J
PCB-060	33025-41-1	pg/L	64	14000	-	< 9.52 U	-	7.77 JN	-	5.69 JN	-	5.68 JN	-	6.85 JN
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	157	-	128 J	-	124 J	-	110	-	135
PCB-063	74472-34-7	pg/L	64	14000	-	< 9.33 U	-	5.79 JN	-	7.56 J	-	6.2 JN	-	5.87 JN
PCB-064	52663-58-8	pg/L	64	14000	-	76.6	-	74.7 J	-	74.4 J	-	66.2	-	75.8
PCB-066	32598-10-0	pg/L	64	14000	-	88	-	82.1 J	-	82.5 J	-	86	-	92.4
PCB-067	73575-53-8	pg/L	64	14000	-	< 7.58 U	-	< 3.97 UJ	-	< 3.54 UJ	-	< 4.68 U	-	< 5.04 U
PCB-068	73575-52-7	pg/L	64	14000	-	< 8.77 U	-	6.08 J	-	5.76 J	-	6.73 JN	-	6.32 J
PCB-072	41464-42-0	pg/L	64	14000	-	< 8.45 U	-	6.39 JN	-	6.49 J	-	9.11 J	-	7.66 J
PCB-073	74338-23-1	pg/L	64	14000	-	11.4 J	-	11.5 J	-	10.5 J	-	9.16 JN	-	7.57 JN
PCB-077	32598-13-3	pg/L	64	14000	-	< 8.56 U	-	6.11 JN	-	6.62 JN	-	8.38 J	-	7.96 J
PCB-078	70362-49-1	pg/L	64	14000	-	< 8.58 U	-	< 4.73 UJ	-	< 4.21 UJ	-	< 5.57 U	-	< 6.01 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 7.2 U	-	< 4.2 UJ	-	< 3.74 UJ	-	< 4.95 U	-	< 5.33 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 8.13 U	-	< 4.43 UJ	-	< 3.95 UJ	-	< 5.22 U	-	< 5.63 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 8.1 U	-	< 4.69 UJ	-	< 4.18 UJ	-	< 5.53 U	-	< 5.96 U
PCB-082	52663-62-4	pg/L	64	14000	-	< 10.8 UJ	-	16.2 J	-	9.6 J	-	< 7.12 UJ	-	12.4 JN
PCB-083	60145-20-2	pg/L	64	14000	-	< 15.4 UJ	-	< 8.5 UJ	-	12.8 JN	-	7.19 JN	-	15 JN
PCB-084	52663-60-2	pg/L	64	14000	-	55.7	-	58.3 J	-	53.6 J	-	56.1	-	61.6

Table 17
Surface Water Analytical Results
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					Location	23B-0011-PLW	23B-0011-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW
					Sample Name	23B-0011-PLW-AS-F	23B-0011-PLW-AS-T	23B-0012-PLW-AS-F	23B-0012-PLW-AS-T	23B-0012-PLW-AT-F	23B-0012-PLW-AT-T	23B-0013-PLW-AS-F	23B-0013-PLW-AS-T	23B-0013-PLW-BS-F	23B-0013-PLW-BS-T
					Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
					Sample Type	N	N	N	N	FD	FD	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	21.3	-	17.9 JN	-	17.2 J	-	19.9 J	-	14 JN
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	99.2	-	95.5 J	-	93.2 J	-	93.3	-	95.7
PCB-088	55215-17-3	pg/L	64	14000	-	< 12.5 U	-	< 7.99 UJ	-	< 7.73 UJ	-	< 8.52 U	-	< 6.44 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 10.8 U	-	< 6.76 UJ	-	< 6.54 UJ	-	< 7.21 U	-	< 5.45 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	165	-	182 J	-	156 J	-	164	-	163
PCB-091	68194-05-8	pg/L	64	14000	-	35.3	-	39.1 J	-	35.6 J	-	38.3	-	36.2
PCB-092	52663-61-3	pg/L	64	14000	-	48.8	-	55.6 J	-	47.2 J	-	45.6	-	46.6 JN
PCB-093/100	PCB-93/100	pg/L			-	< 11.5 U	-	< 7.37 UJ	-	5.77 JN	-	< 7.85 U	-	< 5.94 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 12.4 U	-	< 7.79 UJ	-	< 7.53 UJ	-	< 8.31 U	-	< 6.28 U
PCB-095	38379-99-6	pg/L	64	14000	-	152	-	173 J	-	167 J	-	156	-	159
PCB-096	73575-54-9	pg/L	64	14000	-	4.5 J	-	< 2.4 UJ	-	< 2.18 UJ	-	< 2.91 U	-	< 3.12 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 9.65 U	-	< 5.51 UJ	-	< 5.33 UJ	-	< 5.87 U	-	< 4.44 U
PCB-099	38380-01-7	pg/L	64	14000	-	61.6	-	76.6 J	-	53.7 J	-	59.3	-	58.6
PCB-102	68194-06-9	pg/L	64	14000	-	< 9.92 U	-	10.3 J	-	< 6 UJ	-	6.41 JN	-	6.32 JN
PCB-103	60145-21-3	pg/L	64	14000	-	< 11 U	-	< 6.67 UJ	-	< 6.45 UJ	-	< 7.11 U	-	< 5.38 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 2.69 U	-	< 2.12 UJ	-	< 1.93 UJ	-	< 2.58 U	-	< 2.76 U
PCB-105	32598-14-4	pg/L	64	14000	-	30	-	25.9 J	-	22.6 J	-	17.6 JN	-	27.4 J
PCB-106	70424-69-0	pg/L	64	14000	-	< 7.36 U	-	< 4.43 UJ	-	< 4.29 UJ	-	< 4.73 U	-	< 3.57 U
PCB-107	70424-68-9	pg/L	64	14000	-	< 6.95 U	-	6.46 JN	-	6.35 JN	-	< 4.99 U	-	6.46 JN
PCB-108/124	PCB-108/124	pg/L			-	< 8.07 U	-	< 5.08 UJ	-	< 4.92 UJ	-	< 5.42 U	-	< 4.1 U
PCB-110	38380-03-9	pg/L	64	14000	-	195	-	195 J	-	176 J	-	173	-	193
PCB-111	39635-32-0	pg/L	64	14000	-	< 7.87 U	-	< 4.96 UJ	-	< 4.8 UJ	-	< 5.29 U	-	< 4 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 6.88 U	-	< 4.1 UJ	-	< 3.97 UJ	-	< 4.38 U	-	< 3.31 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 7.2 U	-	< 4.79 UJ	-	< 4.51 UJ	-	< 4.6 U	-	< 3.87 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 6.26 U	-	9.31 J	-	2.78 JN	-	< 3.89 U	-	< 2.94 U
PCB-117	68194-11-6	pg/L	64	14000	-	< 8.7 U	-	7 JN	-	10.3 J	-	6.12 JN	-	13.4
PCB-118	31508-00-6	pg/L	64	14000	-	92.4	-	83.3 J	-	75.6 J	-	75.7	-	77.4 JN
PCB-120	68194-12-7	pg/L	64	14000	-	< 6.53 U	-	< 4.05 UJ	-	< 3.92 UJ	-	< 4.32 U	-	< 3.27 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 7.32 U	-	< 4.41 UJ	-	< 4.27 UJ	-	< 4.7 U	-	< 3.55 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 9.28 U	-	< 6.19 UJ	-	< 5.81 UJ	-	< 5.93 U	-	< 4.99 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 7.27 U	-	< 4.72 UJ	-	< 4.56 UJ	-	< 5.03 U	-	< 3.8 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 4.83 U	-	< 4.14 UJ	-	< 2.9 UJ	-	< 3.79 U	-	< 4.26 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 7.75 U	-	< 5.05 UJ	-	< 4.3 UJ	-	< 4.96 U	-	< 4.41 U
PCB-128/166	PCB-128/166	pg/L			-	15.8 JN	-	19.6 JN	-	15.1 J	-	16.2 JN	-	19.2 J
PCB-129/138/163	PCB-129/138/163	pg/L			-	137	-	139 J	-	115 J	-	109	-	120
PCB-130	52663-66-8	pg/L	64	14000	-	< 7.77 U	-	8 JN	-	10.3 J	-	< 2.02 U	-	8.32 JN
PCB-131	61798-70-7	pg/L	64	14000	-	< 7.13 U	-	< 3.27 UJ	-	< 2.61 UJ	-	< 1.8 U	-	< 3.06 U
PCB-132	38380-05-1	pg/L	64	14000	-	39.7	-	43.2 JN	-	31.6 J	-	33.4	-	33.2 JN
PCB-133	35694-04-3	pg/L	64	14000	-	< 6.25 U	-	< 2.88 UJ	-	< 2.3 UJ	-	< 1.59 U	-	< 2.7 U
PCB-134	52704-70-8	pg/L	64	14000	-	7.41 JN	-	8.3 J	-	7.76 JN	-	8.57 JN	-	5.02 JN
PCB-135/151	PCB-135/151	pg/L			-	34.1 JN	-	46.1 J	-	26.7 JN	-	34.5	-	32.2
PCB-136	38411-22-2	pg/L	64	14000	-	14.5	-	21 J	-	16.6 J	-	14.5 JN	-	13.9 J
PCB-137	35694-06-5	pg/L	64	14000	-	< 7.06 U	-	8.44 JN	-	4.69 JN	-	4.04 JN	-	< 3.16 U
PCB-139/140	PCB-139/140	pg/L			-	< 6.22 U	-	< 2.92 UJ	-	< 2.33 UJ	-	< 1.61 U	-	< 2.73 U
PCB-141	52712-04-6	pg/L	64	14000	-	17.2 JN	-	22.3 J	-	18.8 J	-	7.91 JN	-	18.5
PCB-142	41411-61-4	pg/L	64	14000	-	< 7.11 U	-	< 3.22 UJ	-	< 2.57 UJ	-	< 1.77 U	-	< 3.01 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 6.49 U	-	< 3.01 UJ	-	< 2.4 UJ	-	< 1.65 U	-	< 2.81 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 6.51 U	-	5.89 JN	-	< 2.46 UJ	-	< 1.69 U	-	< 2.88 U
PCB-145	74472-40-5	pg/L	64	14000	-	< 4.74 U	-	< 2.23 UJ	-	< 1.72 UJ	-	< 1.17 U	-	< 2.21 U
PCB-146	51908-16-8	pg/L	64	14000	-	10.8 JN	-	17.1 J	-	12.1 J	-	12.3	-	15.4
PCB-147/149	PCB-147/149	pg/L			-	88.6	-	95.7 J	-	69.9 J	-	70.3	-	78
PCB-148	74472-41-6	pg/L	64	14000	-	< 6.43 U	-	< 3.04 UJ	-	< 2.43 UJ	-	< 1.67 U	-	< 2.85 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 4.95 U	-	< 2.37 UJ	-	< 1.83 UJ	-	< 1.25 U	-	< 2.35 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 4.57 U	-	< 2.16 UJ	-	< 1.66 UJ	-	< 1.14 U	-	< 2.14 U
PCB-153/168	PCB-153/168	pg/L			-	80.2	-	101 J	-	81 J	-	77.6	-	79.6
PCB-154	60145-22-4	pg/L	64	14000	-	< 5.96 U	-	< 2.7 UJ	-	< 2.15 UJ	-	< 1.48 U	-	< 2.52 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0011-PLW	23B-0011-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW
					Sample Name	23B-0011-PLW-AS-F	23B-0011-PLW-AS-T	23B-0012-PLW-AS-F	23B-0012-PLW-AS-T	23B-0012-PLW-AT-F	23B-0012-PLW-AT-T	23B-0013-PLW-AS-F	23B-0013-PLW-AS-T	23B-0013-PLW-BS-F	23B-0013-PLW-BS-T
					Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
					Sample Type	N	N	N	N	FD	FD	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 4.19 U	-	< 2.01 UJ	-	< 1.55 UJ	-	< 1.06 U	-	< 1.99 U
PCB-156/157	PCB-156/157	pg/L			-	14.8 J	-	14.2 J	-	7.85 JN	-	9.9 JN	-	9.08 JN
PCB-158	74472-42-7	pg/L	64	14000	-	9.84 JN	-	9.52 J	-	10 J	-	9.16 JN	-	8.73 JN
PCB-159	39635-35-3	pg/L	64	14000	-	< 4.9 U	-	< 3.01 UJ	-	< 2.52 UJ	-	< 2.61 U	-	< 3.5 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 5.18 U	-	< 2.3 UJ	-	< 1.83 UJ	-	< 1.26 U	-	< 2.15 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 4.63 U	-	< 2.08 UJ	-	< 1.66 UJ	-	< 1.15 U	-	< 1.95 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 5.76 U	-	< 3.52 UJ	-	< 2.96 UJ	-	< 3.06 U	-	< 4.1 U
PCB-164	74472-45-0	pg/L	64	14000	-	6.22 JN	-	6.21 JN	-	4.86 JN	-	5.48 JN	-	7.36 J
PCB-165	74472-46-1	pg/L	64	14000	-	< 5.39 U	-	< 2.48 UJ	-	< 1.98 UJ	-	< 1.36 U	-	< 2.32 U
PCB-167	52663-72-6	pg/L	64	14000	-	< 5.59 U	-	4.3 JN	-	3.48 J	-	< 2.97 U	-	4.51 J
PCB-169	32774-16-6	pg/L	4	14000	-	< 8.8 U	-	< 3.38 UJ	-	< 3.21 UJ	-	< 3.42 U	-	< 4.54 U
PCB-170	35065-30-6	pg/L	64	14000	-	< 15.8 U	-	23.8 JN	-	10.8 JN	-	11.9 JN	-	< 13.4 U
PCB-171/173	PCB-171/173	pg/L			-	< 12.9 U	-	8.04 JN	-	< 5.75 UJ	-	< 5.19 U	-	< 11.8 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 12.2 U	-	< 7.15 UJ	-	< 5.55 UJ	-	< 5 U	-	< 11.4 U
PCB-174	38411-25-5	pg/L	64	14000	-	< 11.5 U	-	18.3 J	-	10.1 JN	-	8.36 JN	-	< 10.6 UJ
PCB-175	40186-70-7	pg/L	64	14000	-	< 12.3 U	-	< 7.29 UJ	-	< 5.66 UJ	-	< 5.1 U	-	< 11.6 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 3.17 U	-	< 4.27 UJ	-	< 2.87 UJ	-	< 2.81 U	-	< 3.5 U
PCB-177	52663-70-4	pg/L	64	14000	-	< 11.6 U	-	10.4 JN	-	6.83 J	-	5.96 JN	-	< 10.4 U
PCB-178	52663-67-9	pg/L	64	14000	-	< 3.96 U	-	< 5.34 UJ	-	< 3.59 UJ	-	< 3.52 U	-	< 4.38 U
PCB-179	52663-64-6	pg/L	64	14000	-	< 2.77 U	-	11.6 J	-	4.32 J	-	5.85 J	-	7.54 J
PCB-180/193	PCB-180/193	pg/L			-	25.4 JN	-	44.6 J	-	26.1 JN	-	23.8 JN	-	32.9 J
PCB-181	74472-47-2	pg/L	64	14000	-	< 10.8 U	-	< 6.24 UJ	-	< 4.84 UJ	-	< 4.36 U	-	< 9.93 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 10.2 U	-	< 5.94 UJ	-	< 4.61 UJ	-	< 4.15 U	-	< 9.45 U
PCB-183	52663-69-1	pg/L	64	14000	-	< 11.1 U	-	12.4 JN	-	4.86 JN	-	6.74 J	-	< 10.4 UJ
PCB-184	74472-48-3	pg/L	64	14000	-	< 2.95 U	-	< 3.91 UJ	-	< 2.63 UJ	-	< 2.57 U	-	< 3.2 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 12.8 U	-	< 7.26 UJ	-	< 5.63 UJ	-	< 5.08 U	-	< 11.6 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 2.65 U	-	< 3.49 UJ	-	< 2.35 UJ	-	< 2.3 U	-	< 2.86 U
PCB-187	52663-68-0	pg/L	64	14000	-	< 10 UJ	-	25.2 J	-	13.7 J	-	13.2 JN	-	12.1 JN
PCB-188	74487-85-7	pg/L	64	14000	-	< 2.69 U	-	< 3.7 UJ	-	< 2.49 UJ	-	< 2.44 U	-	< 3.04 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 5.2 U	-	< 3.65 UJ	-	< 2.83 UJ	-	< 3.47 U	-	< 4.56 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 11.4 U	-	< 6 UJ	-	< 3.95 UJ	-	< 4.37 U	-	< 9.81 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 9.76 U	-	< 5.48 UJ	-	< 4.25 UJ	-	< 3.83 U	-	< 8.71 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 8.6 U	-	< 4.99 UJ	-	< 3.87 UJ	-	< 3.49 U	-	< 7.94 U
PCB-194	35694-08-7	pg/L	64	14000	-	< 3.91 U	-	8.68 JN	-	4.85 J	-	< 3 U	-	3.56 JN
PCB-195	52663-78-2	pg/L	64	14000	-	< 4.18 U	-	< 2.94 UJ	-	< 1.7 UJ	-	< 3.27 U	-	< 2.56 U
PCB-196	42740-50-1	pg/L	64	14000	-	3.69 J	-	< 4.99 UJ	-	< 3.05 UJ	-	< 2.82 U	-	5.58 JN
PCB-197	33091-17-7	pg/L	64	14000	-	< 2.84 U	-	< 3.52 UJ	-	< 2.15 UJ	-	< 1.99 U	-	< 0.946 U
PCB-198/199	PCB-198/199	pg/L			-	5.98 J	-	9.01 J	-	4.45 JN	-	7.55 J	-	5.13 J
PCB-200	52663-73-7	pg/L	64	14000	-	< 3.09 U	-	< 3.94 UJ	-	< 2.4 UJ	-	< 2.23 U	-	< 1.06 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 3.14 U	-	< 3.94 UJ	-	< 2.41 UJ	-	< 2.23 U	-	< 1.06 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 2.6 U	-	< 3.18 UJ	-	< 1.94 UJ	-	3 J	-	< 0.855 U
PCB-203	52663-76-0	pg/L	64	14000	-	7.52 J	-	4.34 JN	-	4.26 JN	-	< 2.2 U	-	5.64 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 2.77 U	-	< 3.43 UJ	-	< 2.09 UJ	-	< 1.94 U	-	< 0.922 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 3.34 U	-	< 2.31 UJ	-	< 1.33 UJ	-	< 2.56 U	-	< 2.01 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 19.42 UJ	-	< 19.6 UJ	-	< 19.8 UJ	-	< 20 UJ	-	< 19.42 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 7.47 U	-	< 7.49 UJ	-	< 4.88 UJ	-	< 5 U	-	< 6.08 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 6.55 U	-	< 6.57 UJ	-	< 4.29 UJ	-	< 4.39 U	-	< 5.34 U
PCB-209	2051-24-3	pg/L	64	14000	-	< 2.99 U	-	5.99 J	-	5.99 JN	-	5.7 J	-	18.6
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	< 2.99 U	-	5.99	-	5.99	-	5.7	-	18.6
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	25.4	-	154	-	76.7	-	75.8	-	52.5
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	476	-	570	-	436	-	413	-	453
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	17.2	-	22.0	-	13.6	-	10.6	-	19.9
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	9990	-	8240	-	8700	-	8140	-	8280
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	961	-	1050	-	945	-	919	-	986
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	4040	-	2560	-	3090	-	2730	-	2650
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	15.5	-	21.7	-	39.6	-	67.2	-	34.3
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 19.42 U	-	< 19.6 U	-	< 19.8 U	-	< 20 U	-	< 19.42 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1830	-	1720	-	1770	-	1660	-	1810
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	2630	-	2130	-	2320	-	2260	-	2250

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0011-PLW	23B-0011-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW
				Sample Name	23B-0011-PLW-AS-F	23B-0011-PLW-AS-T	23B-0012-PLW-AS-F	23B-0012-PLW-AS-T	23B-0012-PLW-AT-F	23B-0012-PLW-AT-T	23B-0013-PLW-AS-F	23B-0013-PLW-AS-T	23B-0013-PLW-BS-F	23B-0013-PLW-BS-T
				Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
				Sample Type	N	N	N	N	FD	FD	N	N	N	N
				Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	ug/L	2000	87	24 J+	43	24 J+	37	26	41	28 J+	56	23 J+	69
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150	< 1.0 U	0.55 J	0.41 J	0.47 J	0.34 J	0.51 J	< 1.0 U	0.47 J	< 1.0 U	0.53 J
Barium	7440-39-3	ug/L	380	220	42	41	39	42	40	42	40	41	40	41
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	16000	17000	16000	17000	16000	16000	16000	17000	16000	18000
Chromium, Total	7440-47-3	ug/L	100	44	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	5.9	< 2.0 UJ	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.20 J	0.24 J	0.21 J	0.27 J	0.23 J	0.23 J	0.18 J	0.26 J	0.18 J	0.24 J
Copper	7440-50-8	ug/L	80	5	1.2 J	1.3 J	1.2 J	1.4 J	2.4	1.6 J	1.6 J	5.0	1.4 J	1.4 J
Iron	7439-89-6	ug/L	1400	1000	800	1500	780	1100	810	1300	750	1500	510	1500
Lead	7439-92-1	ug/L	15	0.54	0.61 J	1.0 J+	< 1.0 U	1.1 J+	< 1.0 U	1.5	0.79 J	1.1 J+	0.72 J	1.1 J+
Magnesium	7439-95-4	ug/L		82000	4000	4400	3900	4100	4000	4000	3800	4500	4000	4600
Manganese	7439-96-5	ug/L	43	93	140	160	130	140	130	140	120	150	130	160
Nickel	7440-02-0	ug/L	39	27	1.5 J+	0.72 J-	< 1.0 U	0.94 J	1.0 J+	0.89 J	< 1.0 U	0.75 J-	1.3 J+	0.65 J-
Potassium	7440-09-7	ug/L		53000	3000	3300	2800	2900	2800	2900	2800	3300	2900	3400
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	70000	74000	68000	69000	68000	68000	67000	75000	68000	77000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.49 J	0.74 J	0.49 J	0.76 J	0.55 J	0.67 J	0.49 J	0.88 J	0.40 J	0.82 J
Zinc	7440-66-6	ug/L	600	11.8	5.3 J+	6.9 J+	< 5.0 U	5.3 J+	7.1 J+	5.5 J+	5.4 J+	6.3 J+	12	7.6 J+
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 R	< 0.20 UJ	< 0.20 R	< 0.20 UJ	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide														
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	5.4 J	-	< 10 U	-	< 10 U	-	< 10 U
Hexavalent Chromium														
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	0.080 J-
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0011-PLW	23B-0011-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW
					Sample Name	23B-0011-PLW-AS-F	23B-0011-PLW-AS-T	23B-0012-PLW-AS-F	23B-0012-PLW-AS-T	23B-0012-PLW-AT-F	23B-0012-PLW-AT-T	23B-0013-PLW-AS-F	23B-0013-PLW-AS-T	23B-0013-PLW-BS-F	23B-0013-PLW-BS-T
					Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
					Sample Type	N	N	N	N	FD	FD	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	0.75	-	0.29 J	-	< 0.50 U	-	0.54	-	< 0.50 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	0.12 J-	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
Styrene	100-42-5	ug/L	100	32	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
Toluene	108-88-3	ug/L	57	62	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 R	-	< 0.50 R	-	< 0.50 R	-	< 0.50 R	-	< 0.50 R
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.0 U	-	< 5.0 U	-	< 5.1 UJ	-	< 5.1 U	-	< 5.0 U
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0011-PLW	23B-0011-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW
					Sample Name	23B-0011-PLW-AS-F	23B-0011-PLW-AS-T	23B-0012-PLW-AS-F	23B-0012-PLW-AS-T	23B-0012-PLW-AT-F	23B-0012-PLW-AT-T	23B-0013-PLW-AS-F	23B-0013-PLW-AS-T	23B-0013-PLW-BS-F	23B-0013-PLW-BS-T
					Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
					Sample Type	N	N	N	N	FD	FD	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.0 U	-	< 5.0 UJ	-	< 5.1 U	-	< 5.1 UJ	-	< 5.0 UJ
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.0 U	-	< 5.0 UJ	-	< 5.1 U	-	< 5.1 UJ	-	< 5.0 UJ
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	2.6 J	-	2.8 J	-	2.8 J+	-	2.7 J	-	2.6 J+
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	3.7 J	-	4.0 J	-	4.4 J-	-	3.9 J	-	3.9
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	< 1.9 U	-	0.35 J	-	< 1.9 U	-	0.27 J	-	< 1.8 U
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.1	-	2.4	-	2.2	-	2.1	-	2.1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.6	-	2.6	-	2.5	-	2.4	-	2.4
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.0	-	3.3	-	3.5	-	3.5	-	2.9
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.75 J	-	0.83 J	-	0.70 J	-	0.73 J	-	0.74 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	5.0	-	5.7	-	4.8	-	5.7	-	4.8
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.4	-	5.4	-	5.3	-	4.8	-	4.9
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.38 J	-	0.42 J	-	0.40 J+	-	0.43 J	-	0.30 J+
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.7 J	-	4.4 J	-	4.5	-	4.9 J	-	4.1
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0011-PLW	23B-0011-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0012-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW	23B-0013-PLW
				Sample Name	23B-0011-PLW-AS-F	23B-0011-PLW-AS-T	23B-0012-PLW-AS-F	23B-0012-PLW-AS-T	23B-0012-PLW-AT-F	23B-0012-PLW-AT-T	23B-0013-PLW-AS-F	23B-0013-PLW-AS-T	23B-0013-PLW-BS-F	23B-0013-PLW-BS-T
				Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
				Sample Type	N	N	N	N	FD	FD	N	N	N	N
				Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.8	-	9.05	-	-	-	8.7	-	8.64
Oxidation-Reduction Potential	ORP	mv			-	215.1	-	196.6	-	-	-	199	-	206.3
pH	PH	su			-	6.89	-	6.97	-	-	-	6.81	-	6.75
Specific Conductance	SC	us/cm			-	487.1	-	489	-	-	-	490.4	-	488.9
Temperature	TEMP	deg c			-	13.5	-	13.2	-	-	-	13.1	-	13
Turbidity	TURB	NTU			-	1.8	-	1.77	-	-	-	1.95	-	2.19

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0014-PLW	23B-0014-PLW	23B-0015-PLW	23B-0015-PLW	23B-0016-PLW	23B-0016-PLW	23B-0017-PLW	23B-0017-PLW	23B-0018-PLW	23B-0018-PLW
					Sample Name	23B-0014-PLW-AS-F	23B-0014-PLW-AS-T	23B-0015-PLW-AS-F	23B-0015-PLW-AS-T	23B-0016-PLW-AS-F	23B-0016-PLW-AS-T	23B-0017-PLW-AS-F	23B-0017-PLW-AS-T	23B-0018-PLW-AS-F	23B-0018-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	1.8 - 1.8 ft	1.8 - 1.8 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	1.15 - 1.15 ft	1.15 - 1.15 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.052 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.052 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.052 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.052 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.052 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.052 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.052 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.052 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.052 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.51 U	-	< 0.51 U	-	< 0.51 U	-	< 0.52 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.052 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.12 U	-	2.45 JN	-	< 2.32 U	-	< 1.42 U	-	2.91 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 0.968 U	-	< 1.13 U	-	< 1.02 U	-	< 1.05 U	-	< 1.23 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.12 U	-	< 1.56 U	-	< 1.68 U	-	< 1.4 U	-	< 1.22 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 0.9 U	-	< 0.86 U	-	< 1.15 U	-	< 1.1 U	-	< 1.05 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.19 U	-	< 1.4 U	-	< 1.79 U	-	< 1.48 U	-	< 1.26 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 0.829 U	-	< 0.841 U	-	< 1.14 U	-	< 1.04 U	-	< 1.03 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.3 U	-	< 1.54 U	-	< 1.57 U	-	< 1.38 U	-	< 1.18 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1 U	-	< 1.01 U	-	< 1.28 U	-	< 1.23 U	-	< 1.25 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.34 U	-	< 1.59 U	-	< 1.97 U	-	< 1.48 UJ	-	< 1.91 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.28 U	-	< 1 U	-	< 1.44 U	-	< 1.2 U	-	< 1.39 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 0.825 U	-	< 0.95 U	-	< 0.814 U	-	1.84 J	-	< 0.989 U
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 0.938 U	-	< 0.883 U	-	< 1.21 U	-	< 1.18 U	-	< 1.11 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.35 U	-	< 1.26 U	-	< 1.29 U	-	< 1.2 U	-	< 1.23 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.94 UJ	-	< 9.95 UJ	-	< 10.4 UJ	-	< 9.82 UJ	-	< 9.62 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 0.979 U	-	< 1.97 U	-	< 1.23 U	-	< 1.34 U	-	< 1.22 U
OCDD	3268-87-9	pg/L	400	31	-	8.91 J	-	5.52 JN	-	9.18 JN	-	16.3 J	-	8.05 JN
OCDF	39001-02-0	pg/L	400	31	-	< 1.32 U	-	< 1.24 U	-	< 2.67 U	-	< 2.74 U	-	< 2.41 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.12 U	-	2.45 U	-	< 2.32 U	-	< 1.42 U	-	2.91
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 0.968 U	-	< 1.13 U	-	< 1.02 U	-	1.84	-	< 1.23 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 1.3 U	-	< 1.56 U	-	< 1.79 U	-	< 1.48 U	-	< 1.26 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1 U	-	< 1.01 U	-	< 1.28 U	-	< 1.23 U	-	< 1.25 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.34 U	-	< 1.59 U	-	< 1.97 U	-	< 1.48 U	-	< 1.91 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.35 U	-	< 1.26 U	-	< 1.44 U	-	< 1.2 U	-	< 1.39 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.94 U	-	< 9.95 U	-	< 10.4 U	-	< 9.82 U	-	< 9.62 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 0.979 U	-	< 1.97 U	-	< 1.23 U	-	< 1.34 U	-	< 1.22 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	24.5 J	-	26.8 J	-	103 J	-	36.8 J	-	83.8 J
PCB-002	2051-61-8	pg/L	64	14000	-	< 3.26 U	-	< 4.71 U	-	3.6 JN	-	< 2.71 U	-	6.56 J
PCB-003	2051-62-9	pg/L	64	14000	-	13.4 J	-	10.9 JN	-	55.7	-	24.2 J+	-	15.5 JN
PCB-004	13029-08-8	pg/L	64	14000	-	922 J	-	1880 J	-	1360 J	-	842 J	-	447 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 4.65 U	-	< 14.9 U	-	< 10.5 U	-	< 6.3 U	-	< 6.62 U
PCB-006	25569-80-6	pg/L	64	14000	-	15.3 JN	-	< 12.3 UJ	-	31.3 JN	-	13.9 JN	-	15.2 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 4.4 U	-	< 14.2 U	-	< 10.1 U	-	< 6 U	-	< 6.31 U
PCB-008	34883-43-7	pg/L	64	14000	-	52.9 JN	-	43.9 JN	-	144	-	74.2	-	68
PCB-009	34883-39-1	pg/L	64	14000	-	< 3.97 U	-	< 12.9 U	-	< 9.07 U	-	< 5.35 U	-	< 5.63 U
PCB-010	33146-45-1	pg/L	64	14000	-	339	-	384 JN	-	731	-	422	-	695

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0014-PLW	23B-0014-PLW	23B-0015-PLW	23B-0015-PLW	23B-0016-PLW	23B-0016-PLW	23B-0017-PLW	23B-0017-PLW	23B-0018-PLW	23B-0018-PLW
					Sample Name	23B-0014-PLW-AS-F	23B-0014-PLW-AS-T	23B-0015-PLW-AS-F	23B-0015-PLW-AS-T	23B-0016-PLW-AS-F	23B-0016-PLW-AS-T	23B-0017-PLW-AS-F	23B-0017-PLW-AS-T	23B-0018-PLW-AS-F	23B-0018-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	1.8 - 1.8 ft	1.8 - 1.8 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	1.15 - 1.15 ft	1.15 - 1.15 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	188 J	-	172 J	-	93.7 J+	-	120 J+	-	115 J+
PCB-012/013	PCB-12/13	pg/L			-	19.1 JN	-	< 14 UJ	-	22.4 JN	-	12.5 JN	-	9.88 JN
PCB-014	34883-41-5	pg/L	64	14000	-	< 4.37 U	-	< 14.2 U	-	< 9.87 U	-	< 5.87 U	-	< 6.18 U
PCB-015	2050-68-2	pg/L	64	14000	-	441 J	-	308 J	-	571 J	-	420 J	-	389 J
PCB-016	38444-78-9	pg/L	64	14000	-	43	-	40.5 JN	-	36.2 JN	-	34.5 J+	-	23.3 J+
PCB-017	37680-66-3	pg/L	64	14000	-	313 J	-	390 J	-	399	-	268	-	151
PCB-018/030	PCB-18/30	pg/L			-	197 J	-	271 J	-	226	-	185	-	113
PCB-019	38444-73-4	pg/L	64	14000	-	748 J	-	754 J	-	1210 J	-	844 J	-	1090 J
PCB-020/028	PCB-20/28	pg/L			-	211 J	-	183 J	-	206	-	203	-	148
PCB-021/033	PCB-21/33	pg/L			-	20.2 JN	-	< 18.7 UJ	-	16.7 JN	-	18.9 JN	-	23.2 J+
PCB-022	38444-85-8	pg/L	64	14000	-	17.6 J	-	< 17.1 UJ	-	20.8 J	-	13.7 JN	-	15.8 J
PCB-023	55720-44-0	pg/L	64	14000	-	< 9.44 U	-	< 20 U	-	< 13.2 U	-	< 9.53 U	-	< 8.7 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 8.73 U	-	< 14.3 U	-	3.17 JN	-	< 9.98 U	-	< 7.14 U
PCB-025	55712-37-3	pg/L	64	14000	-	54.7 J	-	91 J	-	79.1	-	56.5	-	24.1
PCB-026/029	PCB-26/29	pg/L			-	142 J	-	214 J	-	210	-	136	-	57
PCB-027	38444-76-7	pg/L	64	14000	-	347 J	-	373 J	-	551	-	385	-	416
PCB-031	16606-02-3	pg/L	64	14000	-	140 J	-	201 J	-	201 JN	-	133	-	71.7 J+
PCB-032	38444-77-8	pg/L	64	14000	-	384 J	-	363 J	-	630	-	412	-	430
PCB-034	37680-68-5	pg/L	64	14000	-	< 9.66 U	-	< 20.4 U	-	< 13.3 U	-	< 9.65 U	-	< 8.81 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 8.69 U	-	< 18.3 U	-	< 11.9 U	-	< 8.53 U	-	< 7.79 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 7.67 U	-	< 16.1 U	-	< 10.6 U	-	< 7.67 U	-	< 7 U
PCB-037	38444-90-5	pg/L	64	14000	-	44.9 J	-	28 J	-	47.6	-	35.9	-	39.6
PCB-038	53555-66-1	pg/L	64	14000	-	< 8.32 U	-	< 17.6 U	-	< 11.7 U	-	< 8.51 U	-	< 7.77 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 8.41 U	-	< 17.8 U	-	< 11.8 U	-	< 8.54 U	-	< 7.8 U
PCB-040/071	PCB-40/71	pg/L			-	125 J	-	86.1 J	-	177	-	133	-	116
PCB-041	52663-59-9	pg/L	64	14000	-	5.34 JN	-	< 8.21 UJ	-	7.74 JN	-	5.85 JN	-	5.55 JN
PCB-042	36559-22-5	pg/L	64	14000	-	94.5 J	-	67.7 JN	-	122	-	83.1	-	77.3
PCB-043	70362-46-8	pg/L	64	14000	-	14.9	-	18.5 JN	-	20.8	-	15.1	-	11.2 JN
PCB-044/047/065	PCB-44/47/65	pg/L			-	515 J	-	418 J	-	639	-	504	-	459
PCB-045	70362-45-7	pg/L	64	14000	-	48.9	-	44.7	-	41.8	-	44.6	-	40.9
PCB-046	41464-47-5	pg/L	64	14000	-	40.9 J	-	35.7 J	-	45.3	-	38	-	39.2
PCB-048	70362-47-9	pg/L	64	14000	-	21.6 JN	-	20.8 J	-	30.2	-	18.9 JN	-	23.3
PCB-049/069	PCB-49/69	pg/L			-	324 J	-	266 J	-	475	-	323	-	283
PCB-050/053	PCB-50/53	pg/L			-	252	-	232	-	346	-	273	-	263
PCB-051	68194-04-7	pg/L	64	14000	-	81	-	50.7 JN	-	137	-	75	-	80.4
PCB-052	35693-99-3	pg/L	64	14000	-	490 J	-	383 J	-	594	-	467	-	444
PCB-054	15968-05-5	pg/L	64	14000	-	18.6 J	-	21.2 J	-	38.4	-	19.6 JN	-	24.8
PCB-055	74338-24-2	pg/L	64	14000	-	< 7.39 U	-	< 5.35 U	-	0.304 JN	-	< 3.65 U	-	< 10.8 U
PCB-056	41464-43-1	pg/L	64	14000	-	31.9 JN	-	24.8 J	-	24.3 JN	-	24.4 JN	-	< 11.3 U
PCB-057	70424-67-8	pg/L	64	14000	-	< 8.18 U	-	< 5.91 U	-	< 6.8 U	-	< 4.04 U	-	< 12 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 7.12 U	-	< 5.2 U	-	< 5.97 U	-	< 3.56 U	-	< 10.6 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	41.3 J	-	30.7 J	-	47.9	-	35.6	-	34.5
PCB-060	33025-41-1	pg/L	64	14000	-	16 JN	-	8.67 JN	-	< 7.42 U	-	13.9	-	< 12.9 U
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	210 J	-	150 J	-	176	-	158	-	140
PCB-063	74472-34-7	pg/L	64	14000	-	12 JN	-	17.6 J	-	17.6	-	14	-	< 13.1 U
PCB-064	52663-58-8	pg/L	64	14000	-	133 J	-	88.2 J	-	146	-	115	-	113
PCB-066	32598-10-0	pg/L	64	14000	-	140 J	-	87.5 J	-	124	-	113	-	101
PCB-067	73575-53-8	pg/L	64	14000	-	< 6.89 U	-	< 5.04 U	-	< 5.91 U	-	5.28 J	-	< 10.4 U
PCB-068	73575-52-7	pg/L	64	14000	-	< 7.96 UJ	-	7.75 JN	-	13.7 JN	-	8.81 J	-	< 12 U
PCB-072	41464-42-0	pg/L	64	14000	-	9.05 J	-	7.82 JN	-	14.7 JN	-	11.8 JN	-	< 11.6 U
PCB-073	74338-23-1	pg/L	64	14000	-	8.95 JN	-	7.62 JN	-	14.8 J	-	12.2 J	-	9.33 J
PCB-077	32598-13-3	pg/L	64	14000	-	17.6 J	-	< 7.27 UJ	-	15.5	-	11.9	-	< 12.4 U
PCB-078	70362-49-1	pg/L	64	14000	-	< 7.82 U	-	< 5.78 U	-	< 6.69 U	-	< 3.91 U	-	< 11.6 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 6.68 U	-	< 4.84 U	-	< 5.61 U	-	< 3.37 U	-	< 10 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 7.44 U	-	< 5.4 U	-	< 6.34 U	-	< 3.72 U	-	< 11 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 7.71 U	-	< 5.4 U	-	< 6.31 U	-	< 3.77 U	-	< 11.2 U
PCB-082	52663-62-4	pg/L	64	14000	-	25.2 JN	-	< 10.1 UJ	-	14.7 JN	-	18.6 J	-	< 9.61 UJ
PCB-083	60145-20-2	pg/L	64	14000	-	21.1 JN	-	12.7 JN	-	9.21 JN	-	11.5 JN	-	15.7 JN
PCB-084	52663-60-2	pg/L	64	14000	-	87.9 J	-	64.3 J	-	76.1	-	65 JN	-	62

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0014-PLW	23B-0014-PLW	23B-0015-PLW	23B-0015-PLW	23B-0016-PLW	23B-0016-PLW	23B-0017-PLW	23B-0017-PLW	23B-0018-PLW	23B-0018-PLW
					Sample Name	23B-0014-PLW-AS-F	23B-0014-PLW-AS-T	23B-0015-PLW-AS-F	23B-0015-PLW-AS-T	23B-0016-PLW-AS-F	23B-0016-PLW-AS-T	23B-0017-PLW-AS-F	23B-0017-PLW-AS-T	23B-0018-PLW-AS-F	23B-0018-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	1.8 - 1.8 ft	1.8 - 1.8 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	1.15 - 1.15 ft	1.15 - 1.15 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	56.5 J	-	12.9 JN	-	31.3	-	21.1 JN	-	26.3 JN
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	198 J	-	89.8 J	-	110	-	111	-	114
PCB-088	55215-17-3	pg/L	64	14000	-	< 14.7 U	-	< 12.8 U	-	< 9.45 U	-	< 8.73 U	-	< 12 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 11.7 U	-	< 10.2 U	-	< 8.15 U	-	< 7.05 U	-	< 9.67 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	314 J	-	159 J	-	178	-	189	-	172
PCB-091	68194-05-8	pg/L	64	14000	-	45.7 JN	-	49.4 J	-	58.2	-	41.8 JN	-	46.2
PCB-092	52663-61-3	pg/L	64	14000	-	71 J	-	57.4 J	-	77.1	-	62.4 JN	-	53.4
PCB-093/100	PCB-93/100	pg/L			-	< 12.7 U	-	< 11.1 U	-	< 8.74 U	-	< 7.8 U	-	< 10.7 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 13.6 UJ	-	< 11.9 UJ	-	< 9.4 U	-	< 8.31 U	-	< 11.4 U
PCB-095	38379-99-6	pg/L	64	14000	-	247 J	-	163 J	-	188	-	187	-	172
PCB-096	73575-54-9	pg/L	64	14000	-	3.26 JN	-	< 4.05 U	-	< 4.42 U	-	< 4.49 U	-	4.35 JN
PCB-098	60233-25-2	pg/L	64	14000	-	< 11.6 U	-	< 10.2 U	-	< 7.32 U	-	< 5.98 U	-	< 8.2 U
PCB-099	38380-01-7	pg/L	64	14000	-	122 J	-	60.6 J	-	73.7	-	90.7	-	76.2
PCB-102	68194-06-9	pg/L	64	14000	-	9.17 JN	-	< 8.13 UJ	-	14.6 JN	-	13.6	-	< 9.28 U
PCB-103	60145-21-3	pg/L	64	14000	-	< 11.6 UJ	-	< 10.3 UJ	-	< 8.31 U	-	< 7.15 U	-	< 9.81 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 2.07 U	-	< 3.47 U	-	< 3.78 U	-	< 3.88 U	-	< 3.2 U
PCB-105	32598-14-4	pg/L	64	14000	-	101 JN	-	17.3 JN	-	31.4	-	31.3	-	34.9 JN
PCB-106	70424-69-0	pg/L	64	14000	-	< 7.76 U	-	< 7.34 U	-	< 5.58 U	-	< 4.78 U	-	< 6.55 U
PCB-107	70424-68-9	pg/L	64	14000	-	19.5 J	-	< 6.81 UJ	-	8.61 JN	-	9.43 J	-	< 6.58 U
PCB-108/124	PCB-108/124	pg/L			-	< 8.8 U	-	< 7.85 U	-	7.82 J	-	< 5.29 U	-	< 7.25 U
PCB-110	38380-03-9	pg/L	64	14000	-	306 J	-	152 J	-	228	-	187	-	178
PCB-111	39635-32-0	pg/L	64	14000	-	< 8.56 U	-	< 7.49 U	-	< 5.96 U	-	< 5.2 U	-	< 7.13 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 7.22 U	-	< 6.26 U	-	< 5.21 U	-	< 4.5 U	-	< 6.18 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 8.77 U	-	< 6.14 U	-	< 5.46 U	-	< 4.57 U	-	< 7.19 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 7.62 U	-	< 6.6 U	-	6.11 JN	-	< 4.93 U	-	< 6.76 U
PCB-117	68194-11-6	pg/L	64	14000	-	11.8 JN	-	< 7.59 UJ	-	13.7	-	14 JN	-	< 7.98 U
PCB-118	31508-00-6	pg/L	64	14000	-	245 J	-	73.3 J	-	99.1	-	93	-	97.2
PCB-120	68194-12-7	pg/L	64	14000	-	< 7.08 U	-	< 6.16 U	-	< 4.95 U	-	< 4.28 U	-	< 5.87 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 7.9 U	-	< 6.82 U	-	< 5.55 U	-	< 4.86 U	-	< 6.66 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 11.4 U	-	< 8.08 U	-	< 7.04 U	-	< 5.89 U	-	< 9.27 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 8.06 U	-	< 6.79 U	-	< 5.51 U	-	< 4.73 U	-	< 6.49 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 11.8 U	-	< 4.99 U	-	< 3.51 U	-	< 3.47 U	-	< 12.6 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 8.9 U	-	< 6.93 U	-	< 5.52 U	-	< 4.86 U	-	< 7.03 U
PCB-128/166	PCB-128/166	pg/L			-	57.3 JN	-	15.9 J	-	23.3 JN	-	19 J	-	21.6 JN
PCB-129/138/163	PCB-129/138/163	pg/L			-	380 J	-	94.4 JN	-	150	-	152	-	145
PCB-130	52663-66-8	pg/L	64	14000	-	18.6 JN	-	< 3.93 UJ	-	7.65 J	-	< 8.08 U	-	8.95 JN
PCB-131	61798-70-7	pg/L	64	14000	-	< 2.93 U	-	< 3.61 U	-	< 6.76 U	-	< 7.61 U	-	< 3.84 U
PCB-132	38380-05-1	pg/L	64	14000	-	99.3 J	-	29.7 J	-	50.4	-	41	-	42.5
PCB-133	35694-04-3	pg/L	64	14000	-	< 2.56 U	-	< 3.11 U	-	< 5.93 U	-	< 6.64 U	-	< 3.35 U
PCB-134	52704-70-8	pg/L	64	14000	-	21 J	-	< 4.49 UJ	-	8.2 JN	-	< 8.77 U	-	6.03 JN
PCB-135/151	PCB-135/151	pg/L			-	105 J	-	29 J	-	40.5 JN	-	40.8	-	35.1
PCB-136	38411-22-2	pg/L	64	14000	-	30.2 JN	-	18.4 J	-	18.9	-	15.2 JN	-	14.3 JN
PCB-137	35694-06-5	pg/L	64	14000	-	18.5 J	-	< 3.72 UJ	-	8.74 J	-	6.51 JN	-	9.01 JN
PCB-139/140	PCB-139/140	pg/L			-	6.13 JN	-	< 3.13 U	-	< 5.9 U	-	< 6.6 U	-	< 3.33 U
PCB-141	52712-04-6	pg/L	64	14000	-	58.2 J	-	9.3 JN	-	17.7 JN	-	17.4 JN	-	21.6
PCB-142	41411-61-4	pg/L	64	14000	-	< 2.88 U	-	< 3.53 U	-	< 6.75 U	-	< 7.4 U	-	< 3.74 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 2.5 U	-	< 3.07 U	-	< 6.16 U	-	< 6.62 U	-	< 3.34 U
PCB-144	68194-14-9	pg/L	64	14000	-	16.6 J	-	< 3.31 UJ	-	< 6.18 U	-	< 6.82 U	-	5.24 J
PCB-145	74472-40-5	pg/L	64	14000	-	< 1.54 U	-	< 2.85 U	-	< 4.1 U	-	< 5.15 U	-	< 2.85 U
PCB-146	51908-16-8	pg/L	64	14000	-	30 JN	-	11 JN	-	18.8 J	-	15.4 J	-	16.2 J
PCB-147/149	PCB-147/149	pg/L			-	234 J	-	68.8 J	-	98.7	-	92.4	-	90.4
PCB-148	74472-41-6	pg/L	64	14000	-	< 2.6 U	-	< 3.23 U	-	< 6.1 U	-	< 6.77 U	-	< 3.42 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 1.62 U	-	< 3.01 U	-	< 4.29 U	-	< 5.45 U	-	< 3.02 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 1.46 U	-	< 2.67 U	-	< 3.96 U	-	< 4.8 U	-	< 2.66 U
PCB-153/168	PCB-153/168	pg/L			-	295 J	-	75.3 J	-	96.7	-	96	-	94.7
PCB-154	60145-22-4	pg/L	64	14000	-	4.95 JN	-	< 3.01 U	-	4.81 JN	-	< 6.22 U	-	< 3.14 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
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					Location	23B-0014-PLW	23B-0014-PLW	23B-0015-PLW	23B-0015-PLW	23B-0016-PLW	23B-0016-PLW	23B-0017-PLW	23B-0017-PLW	23B-0018-PLW	23B-0018-PLW
					Sample Name	23B-0014-PLW-AS-F	23B-0014-PLW-AS-T	23B-0015-PLW-AS-F	23B-0015-PLW-AS-T	23B-0016-PLW-AS-F	23B-0016-PLW-AS-T	23B-0017-PLW-AS-F	23B-0017-PLW-AS-T	23B-0018-PLW-AS-F	23B-0018-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	1.8 - 1.8 ft	1.8 - 1.8 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	1.15 - 1.15 ft	1.15 - 1.15 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 1.37 U	-	< 2.47 U	-	< 3.63 U	-	< 4.53 U	-	< 2.51 U
PCB-156/157	PCB-156/157	pg/L			-	48.2 J	-	6.79 JN	-	15.6 J	-	9.09 JN	-	14.3 JN
PCB-158	74472-42-7	pg/L	64	14000	-	43.3 J	-	9.93 JN	-	10.9 JN	-	14	-	13.9
PCB-159	39635-35-3	pg/L	64	14000	-	< 8.19 U	-	< 4.88 U	-	< 4.8 U	-	< 4.83 U	-	< 4.36 U
PCB-160	41411-62-5	pg/L	64	14000	-	3.68 J	-	< 2.8 U	-	< 4.92 U	-	< 5.37 U	-	< 2.71 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 1.96 U	-	< 2.37 U	-	< 4.39 U	-	< 4.79 U	-	< 2.42 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 9.78 U	-	< 5.83 U	-	< 5.65 U	-	< 5.68 U	-	< 5.13 U
PCB-164	74472-45-0	pg/L	64	14000	-	25 J	-	< 2.26 UJ	-	8.62 JN	-	< 4.8 U	-	6.92 JN
PCB-165	74472-46-1	pg/L	64	14000	-	< 2.26 U	-	< 2.73 U	-	< 5.11 U	-	< 5.67 U	-	< 2.87 U
PCB-167	52663-72-6	pg/L	64	14000	-	14.5 J	-	< 5.5 UJ	-	< 5.48 U	-	< 5.55 U	-	6.47 J
PCB-169	32774-16-6	pg/L	4	14000	-	< 17.8 U	-	< 9.6 U	-	< 8.34 U	-	< 11.1 U	-	< 8.19 U
PCB-170	35065-30-6	pg/L	64	14000	-	81.6 JN	-	< 11.1 UJ	-	< 11.7 U	-	16 JN	-	21
PCB-171/173	PCB-171/173	pg/L			-	22.3 JN	-	< 13 U	-	< 10.6 U	-	< 7.31 U	-	< 6.49 U
PCB-172	52663-74-8	pg/L	64	14000	-	14.3 JN	-	< 12.3 U	-	< 9.98 U	-	< 6.84 U	-	< 6.07 U
PCB-174	38411-25-5	pg/L	64	14000	-	80.3 J	-	< 11.4 UJ	-	13.1 JN	-	15.7	-	13.8 JN
PCB-175	40186-70-7	pg/L	64	14000	-	< 9.19 U	-	< 12.6 U	-	< 10.1 U	-	< 7.02 U	-	< 6.23 U
PCB-176	52663-65-7	pg/L	64	14000	-	10.2 JN	-	< 3.2 U	-	< 3.87 U	-	< 3.76 U	-	< 3.08 U
PCB-177	52663-70-4	pg/L	64	14000	-	43.6 J	-	< 11.6 UJ	-	< 9.53 U	-	10.3 JN	-	9.46 J
PCB-178	52663-67-9	pg/L	64	14000	-	11.9	-	< 4.04 U	-	3.89 JN	-	< 4.72 U	-	6.27 JN
PCB-179	52663-64-6	pg/L	64	14000	-	26.2 J	-	< 2.79 UJ	-	5.48 JN	-	4.32 JN	-	5.15 JN
PCB-180/193	PCB-180/193	pg/L			-	185 J	-	34.6 J	-	32.1 JN	-	36.1 J+	-	38.9
PCB-181	74472-47-2	pg/L	64	14000	-	< 7.97 U	-	< 11 U	-	< 8.86 U	-	< 6.19 U	-	< 5.5 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 7.53 U	-	< 10.3 U	-	< 8.4 U	-	< 5.82 U	-	< 5.17 U
PCB-183	52663-69-1	pg/L	64	14000	-	42.8 JN	-	< 11.6 UJ	-	< 9.12 U	-	9.07 JN	-	9.27 JN
PCB-184	74472-48-3	pg/L	64	14000	-	< 4.11 U	-	< 3.01 U	-	< 3.6 U	-	< 3.53 U	-	< 2.9 U
PCB-185	52712-05-7	pg/L	64	14000	-	10.4 JN	-	< 12.9 U	-	< 10.5 U	-	< 7.11 U	-	< 6.31 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 3.72 U	-	< 2.67 U	-	< 3.24 U	-	< 3.17 U	-	< 2.6 U
PCB-187	52663-68-0	pg/L	64	14000	-	82.7 J	-	13.6 J	-	15.8 JN	-	21.9 J	-	15.8 JN
PCB-188	74487-85-7	pg/L	64	14000	-	< 3.66 U	-	< 2.73 U	-	< 3.28 U	-	< 3.18 U	-	< 2.61 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 8.22 U	-	< 6.78 U	-	< 3.81 U	-	< 3.12 U	-	< 4.2 U
PCB-190	41411-64-7	pg/L	64	14000	-	13.8 JN	-	< 8 U	-	< 8.41 U	-	< 6.13 U	-	< 4.57 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 7.11 U	-	< 9.96 U	-	< 8.01 U	-	< 5.59 U	-	< 4.96 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 6.25 U	-	< 8.72 U	-	< 7.06 U	-	< 4.95 U	-	< 4.39 U
PCB-194	35694-08-7	pg/L	64	14000	-	34.4 JN	-	< 4.5 UJ	-	6.35 JN	-	6.42 J	-	5.47 JN
PCB-195	52663-78-2	pg/L	64	14000	-	10.4 JN	-	8.04 J	-	< 4.54 U	-	< 3.74 U	-	3.37 JN
PCB-196	42740-50-1	pg/L	64	14000	-	13.1 JN	-	< 3.53 UJ	-	< 3.06 U	-	< 2.54 U	-	3.39 JN
PCB-197	33091-17-7	pg/L	64	14000	-	< 1.5 U	-	< 2.7 U	-	< 2.25 U	-	< 1.87 U	-	< 1.91 U
PCB-198/199	PCB-198/199	pg/L			-	28.9	-	8.16 JN	-	7.89 JN	-	5.01 JN	-	8.41 J
PCB-200	52663-73-7	pg/L	64	14000	-	< 1.62 U	-	< 2.81 U	-	< 2.45 U	-	< 2.03 U	-	< 2.07 U
PCB-201	40186-71-8	pg/L	64	14000	-	6.19 JN	-	< 2.89 U	-	2.52 JN	-	< 2.08 U	-	< 2.13 U
PCB-202	2136-99-4	pg/L	64	14000	-	4.97 JN	-	< 2.32 U	-	< 2.07 U	-	1.9 J	-	< 1.72 U
PCB-203	52663-76-0	pg/L	64	14000	-	17.5 JN	-	< 2.9 UJ	-	4.92 JN	-	3.92 JN	-	4.5 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 1.46 U	-	< 2.54 U	-	< 2.2 U	-	< 1.84 U	-	< 1.88 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 4.03 U	-	< 3.86 U	-	< 3.63 U	-	< 2.97 U	-	< 2.44 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 19.8 UJ	-	< 19.8 UJ	-	< 20.2 UJ	-	9.96 J	-	< 19.24 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 8.68 U	-	< 9.02 U	-	< 7.54 U	-	< 5.09 U	-	< 4.76 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 7.56 U	-	< 7.69 U	-	< 6.62 U	-	< 4.46 U	-	< 4.16 U
PCB-209	2051-24-3	pg/L	64	14000	-	6.06 JN	-	6.38 J	-	< 6.63 U	-	< 6.67 U	-	< 7.99 U
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	6.06	-	6.38	-	< 6.63 U	-	< 6.67 U	-	< 7.99 U
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	625	-	48.2	-	70.4	-	113	-	120
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	1510	-	369	-	580	-	519	-	552
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	115	-	16.2	-	21.7	-	17.3	-	25.1
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	11500	-	9160	-	12100	-	9020	-	8460
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	1880	-	912	-	1230	-	1150	-	1050
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	1980	-	2790	-	2950	-	1900	-	1740
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	37.9	-	37.7	-	162	-	61.0	-	106
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 19.8 U	-	< 19.8 U	-	< 20.2 U	-	9.96	-	< 19.24 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	2650	-	2080	-	3270	-	2520	-	2270
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	2660	-	2910	-	3840	-	2730	-	2600

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0014-PLW	23B-0014-PLW	23B-0015-PLW	23B-0015-PLW	23B-0016-PLW	23B-0016-PLW	23B-0017-PLW	23B-0017-PLW	23B-0018-PLW	23B-0018-PLW
				Sample Name	23B-0014-PLW-AS-F	23B-0014-PLW-AS-T	23B-0015-PLW-AS-F	23B-0015-PLW-AS-T	23B-0016-PLW-AS-F	23B-0016-PLW-AS-T	23B-0017-PLW-AS-F	23B-0017-PLW-AS-T	23B-0018-PLW-AS-F	23B-0018-PLW-AS-T
				Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 1 ft	1 - 1 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	1.8 - 1.8 ft	1.8 - 1.8 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	1.15 - 1.15 ft	1.15 - 1.15 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	ug/L	2000	87	20 J+	110	23 J+	48 J+	33 J+	64 J+	25 J+	64 J+	32 J	52 J+
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150	< 1.0 U	0.51 J	< 1.0 U	0.88 J	< 1.0 U	0.51 J	< 1.0 U	0.44 J	0.47 J	0.46 J
Barium	7440-39-3	ug/L	380	220	42	44	39	41	41	42	40	41	40	40
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	16000	18000	16000	17000	17000	17000	16000	17000	17000	17000
Chromium, Total	7440-47-3	ug/L	100	44	< 2.0 UJ	< 2.0 U	10 J	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.19 J	0.34 J	0.22 J	< 1.0 U	0.21 J	< 1.0 U	0.21 J	< 1.0 U	< 1.0 U	< 1.0 U
Copper	7440-50-8	ug/L	80	5	1.2 J	1.7 J	1.7 J	1.6 J	1.4 J	1.6 J	1.4 J	20	1.4 J	1.4 J
Iron	7439-89-6	ug/L	1400	1000	630	1600	700	1500	690	1600	650	1500	1000	1500
Lead	7439-92-1	ug/L	15	0.54	0.49 J	2.1	0.71 J	1.2 J+	0.78 J	1.5 J+	0.51 J	5.0	< 1.0 U	1.2 J+
Magnesium	7439-95-4	ug/L		82000	3900	4400	3900	4500	4000	4500	4100	4400	4300	4400
Manganese	7439-96-5	ug/L	43	93	140	170	130	160	150	170	140	160	160	160
Nickel	7440-02-0	ug/L	39	27	< 1.0 U	0.76 J-	3.2 J+	< 1.0 UJ	< 1.0 U	< 1.0 UJ	1.0 J+	12 J	< 1.0 UJ	< 1.0 UJ
Potassium	7440-09-7	ug/L		53000	2800	3300	2800	3400	3000	3400	3000	3300	3300	3300
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	67000	75000	66000	75000	69000	76000	71000	74000	73000	74000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.45 J	0.95 J	0.50 J	< 5.0 U	0.56 J	< 5.0 U	0.49 J	< 5.0 U	0.56 J	< 5.0 U
Zinc	7440-66-6	ug/L	600	11.8	< 5.0 U	10 J+	5.9 J+	7.9 J+	< 5.0 U	11 J+	< 5.0 U	7.1 J+	6.5 J+	6.9 J
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide														
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	< 10 U	-	3.3 J	-	< 10 U
Hexavalent Chromium														
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	0.22 J-	-	< 0.50 UJ	-	< 0.50 UJ	-	0.16 J	-	0.50
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	0.15 J
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	0.16 J
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0014-PLW	23B-0014-PLW	23B-0015-PLW	23B-0015-PLW	23B-0016-PLW	23B-0016-PLW	23B-0017-PLW	23B-0017-PLW	23B-0018-PLW	23B-0018-PLW
					Sample Name	23B-0014-PLW-AS-F	23B-0014-PLW-AS-T	23B-0015-PLW-AS-F	23B-0015-PLW-AS-T	23B-0016-PLW-AS-F	23B-0016-PLW-AS-T	23B-0017-PLW-AS-F	23B-0017-PLW-AS-T	23B-0018-PLW-AS-F	23B-0018-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	1.8 - 1.8 ft	1.8 - 1.8 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	1.15 - 1.15 ft	1.15 - 1.15 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	0.31 J-	-	< 0.50 U	-	0.71 J+	-	< 0.50 U	-	< 0.50 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	0.14 J-	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 UJ	-	0.050 J-	-	0.070 J-	-	0.10 J	-	0.35 J
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
m,p-Xylene	179601-23-1	ug/L	19		-	0.41 J-	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	1.2
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.16 J
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	0.16 J-	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	0.56
Styrene	100-42-5	ug/L	100	32	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
Toluene	108-88-3	ug/L	57	62	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	1.6
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 R	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.1 U	-	< 2.0 U
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 UJ	-	< 10 UJ
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.1 U	-	< 5.1 UJ	-	< 5.1 U	-	< 5.2 UJ	-	< 5.0 UJ
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 UJ	-	< 10 UJ
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 UJ	-	< 10 UJ
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 UJ	-	< 10 UJ
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0014-PLW	23B-0014-PLW	23B-0015-PLW	23B-0015-PLW	23B-0016-PLW	23B-0016-PLW	23B-0017-PLW	23B-0017-PLW	23B-0018-PLW	23B-0018-PLW
					Sample Name	23B-0014-PLW-AS-F	23B-0014-PLW-AS-T	23B-0015-PLW-AS-F	23B-0015-PLW-AS-T	23B-0016-PLW-AS-F	23B-0016-PLW-AS-T	23B-0017-PLW-AS-F	23B-0017-PLW-AS-T	23B-0018-PLW-AS-F	23B-0018-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	1.8 - 1.8 ft	1.8 - 1.8 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	1.15 - 1.15 ft	1.15 - 1.15 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.1 UJ	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.1 U	-	< 5.1 UJ	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.1 UJ	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.2 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.1 J+	-	3.0	-	2.9 J	-	2.7	-	2.9
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	4.4	-	3.9 J	-	4.6 J	-	3.0 J-	-	4.2
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.28 J	-	< 1.8 U	-	0.30 J	-	0.29 J	-	0.28 J
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.2	-	1.8	-	2.0	-	1.7 J	-	2.2
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.4	-	2.2	-	2.5	-	1.9	-	2.6
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.9	-	3.6	-	3.7	-	3.3	-	4.3
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.75 J	-	0.77 J	-	0.83 J	-	0.62 J	-	0.86 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	6.5	-	5.3	-	5.7	-	6.6	-	5.6
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.5	-	5.4	-	5.8	-	4.8	-	6.1
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.36 J+	-	0.52 J	-	0.44 J	-	0.31 J	-	0.44 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.1	-	4.5 J	-	4.2 J	-	3.4	-	4.1
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0014-PLW	23B-0014-PLW	23B-0015-PLW	23B-0015-PLW	23B-0016-PLW	23B-0016-PLW	23B-0017-PLW	23B-0017-PLW	23B-0018-PLW	23B-0018-PLW
				Sample Name	23B-0014-PLW-AS-F	23B-0014-PLW-AS-T	23B-0015-PLW-AS-F	23B-0015-PLW-AS-T	23B-0016-PLW-AS-F	23B-0016-PLW-AS-T	23B-0017-PLW-AS-F	23B-0017-PLW-AS-T	23B-0018-PLW-AS-F	23B-0018-PLW-AS-T
				Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 1 ft	1 - 1 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	1.8 - 1.8 ft	1.8 - 1.8 ft	1.3 - 1.3 ft	1.3 - 1.3 ft	1.15 - 1.15 ft	1.15 - 1.15 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.57	-	8.75	-	8.57	-	8.6	-	8.55
Oxidation-Reduction Potential	ORP	mv			-	187.2	-	169.3	-	150.1	-	144.7	-	198.4
pH	PH	su			-	6.55	-	6.88	-	6.96	-	6.8	-	6.98
Specific Conductance	SC	us/cm			-	489.4	-	484.5	-	484.9	-	483.9	-	477.5
Temperature	TEMP	deg c			-	13	-	13.2	-	13	-	12.8	-	13.1
Turbidity	TURB	NTU			-	2.05	-	1.69	-	2.01	-	1.96	-	1.82

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0019-PLW	23B-0019-PLW	23B-0020-PLW	23B-0020-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0022-PLW	23B-0022-PLW
					Sample Name	23B-0019-PLW-AS-F	23B-0019-PLW-AS-T	23B-0020-PLW-AS-F	23B-0020-PLW-AS-T	23B-0021-PLW-AS-F	23B-0021-PLW-AS-T	23B-0021-PLW-AT-F	23B-0021-PLW-AT-T	23B-0022-PLW-AS-F	23B-0022-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/16/2023	10/16/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	2.85 - 2.85 ft	2.85 - 2.85 ft	2.45 - 2.45 ft	2.45 - 2.45 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	2 - 2 ft	2 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.51 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	1.54 JN	-	< 0.95 U	-	< 2.06 U	-	3.68 JN	-	4.67 J+
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 0.777 U	-	< 0.693 U	-	< 1.72 U	-	< 1.31 U	-	< 1.69 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.49 U	-	< 1.47 U	-	< 2.03 U	-	< 1.83 U	-	< 2.24 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 0.939 U	-	< 0.991 U	-	< 1.29 U	-	< 1.42 U	-	< 1.75 UJ
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.64 U	-	< 1.39 U	-	< 2.14 U	-	< 1.97 U	-	< 2.2 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 0.913 U	-	< 1.02 U	-	< 1.2 U	-	< 1.32 U	-	< 1.74 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.5 U	-	< 1.46 U	-	< 2.08 U	-	< 1.99 U	-	< 2.12 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.09 U	-	< 1.11 U	-	< 1.79 U	-	< 1.91 U	-	< 2.13 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 0.93 U	-	< 1.02 U	-	< 2.07 U	-	< 1.77 U	-	< 1.92 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 0.859 U	-	< 0.754 U	-	< 1.78 U	-	< 1.64 U	-	< 1.59 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 0.613 U	-	< 0.567 U	-	< 1.41 U	-	2.38 JN	-	3.19 JN
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 0.996 U	-	< 1.03 U	-	< 1.42 U	-	< 1.6 U	-	< 1.88 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 0.858 U	-	< 0.749 U	-	< 1.74 U	-	< 1.62 U	-	< 1.41 R
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 10 UJ	-	< 9.5 UJ	-	< 10.1 UJ	-	< 10 UJ	-	< 10.5 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 0.663 U	-	< 0.802 U	-	< 1.05 U	-	< 2.18 U	-	< 1.3 U
OCDD	3268-87-9	pg/L	400	31	-	17.2 J	-	9.03 J+	-	8.94 JN	-	15.7 J	-	25.3 JN
OCDF	39001-02-0	pg/L	400	31	-	2.44 J	-	< 1.31 U	-	< 3.83 U	-	< 3.04 U	-	< 3.45 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	1.54	-	< 0.95 U	-	< 2.06 U	-	3.68	-	4.67
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 0.777 U	-	< 0.693 U	-	< 1.72 U	-	2.38 U	-	3.19
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 1.64 U	-	< 1.47 U	-	< 2.14 U	-	< 1.99 U	-	< 2.24 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.09 U	-	< 1.11 U	-	< 1.79 U	-	< 1.91 U	-	< 2.13 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 0.93 U	-	< 1.02 U	-	< 2.07 U	-	< 1.77 U	-	< 1.92 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 0.859 U	-	< 0.754 U	-	< 1.78 U	-	< 1.64 U	-	< 1.59 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 10 U	-	< 9.5 U	-	< 10.1 U	-	< 10 U	-	< 10.5 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 0.663 U	-	< 0.802 U	-	< 1.05 U	-	< 2.18 U	-	< 1.3 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	22.7 JN	-	41	-	20.4 J+	-	17.5 JN	-	27.9
PCB-002	2051-61-8	pg/L	64	14000	-	< 3.8 U	-	< 3.37 U	-	4.3 JN	-	< 2.76 U	-	< 4.37 U
PCB-003	2051-62-9	pg/L	64	14000	-	12.6 J	-	13.6 J	-	7.48 JN	-	10.5 J+	-	23.4 JN
PCB-004	13029-08-8	pg/L	64	14000	-	3550 J	-	2540 J	-	202 J	-	232 J	-	543 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 10.5 U	-	< 14.6 U	-	< 4.96 U	-	< 3.44 U	-	< 8.76 U
PCB-006	25569-80-6	pg/L	64	14000	-	17 JN	-	< 11.9 UJ	-	13.4 JN	-	12.4 JN	-	71.3
PCB-007	33284-50-3	pg/L	64	14000	-	< 9.99 U	-	< 14 U	-	< 4.76 U	-	3.83 JN	-	< 8.27 U
PCB-008	34883-43-7	pg/L	64	14000	-	35.3 JN	-	32.4 JN	-	55.2 JN	-	60.6 J+	-	183
PCB-009	34883-39-1	pg/L	64	14000	-	< 8.96 U	-	< 12.5 U	-	< 4.33 U	-	2.7 JN	-	7.68 JN
PCB-010	33146-45-1	pg/L	64	14000	-	633	-	559	-	16.5 JN	-	16.9 JN	-	37 JN

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0019-PLW	23B-0019-PLW	23B-0020-PLW	23B-0020-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0022-PLW	23B-0022-PLW
					Sample Name	23B-0019-PLW-AS-F	23B-0019-PLW-AS-T	23B-0020-PLW-AS-F	23B-0020-PLW-AS-T	23B-0021-PLW-AS-F	23B-0021-PLW-AS-T	23B-0021-PLW-AT-F	23B-0021-PLW-AT-T	23B-0022-PLW-AS-F	23B-0022-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/16/2023	10/16/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	2.85 - 2.85 ft	2.85 - 2.85 ft	2.45 - 2.45 ft	2.45 - 2.45 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	2 - 2 ft	2 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	25.1 JN	-	16.8 JN	-	642 J	-	685 J	-	275 J+
PCB-012/013	PCB-12/13	pg/L			-	20 JN	-	13.3 JN	-	9.81 JN	-	< 3.26 U	-	35.8 JN
PCB-014	34883-41-5	pg/L	64	14000	-	< 9.73 U	-	< 13.6 U	-	< 4.79 U	-	< 3.32 U	-	< 8.29 U
PCB-015	2050-68-2	pg/L	64	14000	-	397 J	-	369 J	-	29.1 JN	-	29.9 J	-	208 J
PCB-016	38444-78-9	pg/L	64	14000	-	44.4	-	31.4	-	67.3 J	-	70.6 J	-	95.3
PCB-017	37680-66-3	pg/L	64	14000	-	512	-	386	-	137 J+	-	156 J+	-	366
PCB-018/030	PCB-18/30	pg/L			-	302	-	237	-	171 J+	-	182 J+	-	408
PCB-019	38444-73-4	pg/L	64	14000	-	929 J	-	812 J	-	192 J	-	195 J	-	334 J
PCB-020/028	PCB-20/28	pg/L			-	311	-	204	-	121 J+	-	139 J+	-	411
PCB-021/033	PCB-21/33	pg/L			-	< 19.4 U	-	< 14.5 U	-	75.6 J+	-	81.4 J+	-	101
PCB-022	38444-85-8	pg/L	64	14000	-	< 17.9 U	-	< 13.3 U	-	34.9 J+	-	36.2 J+	-	68.9
PCB-023	55720-44-0	pg/L	64	14000	-	< 20.8 U	-	< 15.5 U	-	< 8.65 U	-	< 9.56 U	-	< 15.5 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 13.3 U	-	< 11.4 U	-	< 6.8 U	-	< 4.72 U	-	< 11.4 U
PCB-025	55712-37-3	pg/L	64	14000	-	142	-	94.5	-	24.2 J+	-	27.5 JN	-	114 J
PCB-026/029	PCB-26/29	pg/L			-	316	-	224	-	66.4 J+	-	72.9 J+	-	246
PCB-027	38444-76-7	pg/L	64	14000	-	366	-	350	-	99.2	-	101	-	199
PCB-031	16606-02-3	pg/L	64	14000	-	296	-	193	-	106 J+	-	114 J+	-	343
PCB-032	38444-77-8	pg/L	64	14000	-	426	-	367	-	64.7 J+	-	71 J+	-	230
PCB-034	37680-68-5	pg/L	64	14000	-	< 20.8 U	-	< 15.5 U	-	< 8.88 U	-	< 9.82 U	-	< 16.6 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 19.1 U	-	< 14.2 U	-	< 7.9 U	-	< 8.74 U	-	< 14.9 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 17 U	-	< 12.6 U	-	< 7.09 U	-	< 7.84 U	-	< 13.3 U
PCB-037	38444-90-5	pg/L	64	14000	-	32.7 JN	-	24.9 JN	-	16.1 JN	-	21.1 J	-	60.6
PCB-038	53555-66-1	pg/L	64	14000	-	< 18.6 U	-	< 13.9 U	-	< 7.78 U	-	< 8.6 U	-	< 14.6 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 18.5 U	-	< 13.8 U	-	< 7.97 U	-	< 8.81 U	-	< 14.6 U
PCB-040/071	PCB-40/71	pg/L			-	122	-	125	-	78.8 J+	-	85.9 J+	-	148
PCB-041	52663-59-9	pg/L	64	14000	-	< 10.2 U	-	< 7.37 U	-	9.34 JN	-	5.99 JN	-	13.8 J
PCB-042	36559-22-5	pg/L	64	14000	-	86.6	-	78.4	-	39.8 J+	-	43.9 J+	-	96.9
PCB-043	70362-46-8	pg/L	64	14000	-	14.2	-	14.1 JN	-	9.1 J	-	8.46 J	-	17
PCB-044/047/065	PCB-44/47/65	pg/L			-	464	-	435	-	213 J+	-	238	-	468
PCB-045	70362-45-7	pg/L	64	14000	-	45 J	-	35.5 J	-	25 J+	-	25.1 J+	-	36.3 JN
PCB-046	41464-47-5	pg/L	64	14000	-	39.2	-	33.6	-	24	-	26.3	-	40.7
PCB-048	70362-47-9	pg/L	64	14000	-	15.9	-	19.4	-	25.9 J+	-	25 J+	-	42.6
PCB-049/069	PCB-49/69	pg/L			-	314	-	290	-	154	-	170	-	332
PCB-050/053	PCB-50/53	pg/L			-	258	-	241	-	167	-	175	-	224
PCB-051	68194-04-7	pg/L	64	14000	-	72.4	-	60.6	-	20.4 J	-	25.9 J	-	38.9 JN
PCB-052	35693-99-3	pg/L	64	14000	-	439	-	416	-	301	-	301	-	490
PCB-054	15968-05-5	pg/L	64	14000	-	22	-	20.3	-	16.4	-	19.4	-	16.8
PCB-055	74338-24-2	pg/L	64	14000	-	< 6.05 U	-	< 6.21 U	-	< 4.2 U	-	< 7.76 U	-	< 6.08 U
PCB-056	41464-43-1	pg/L	64	14000	-	30 JN	-	25.1	-	19.4 J	-	17.9 J	-	46.6
PCB-057	70424-67-8	pg/L	64	14000	-	< 6.63 U	-	< 6.8 U	-	< 4.6 U	-	< 8.49 U	-	4.25 JN
PCB-058	41464-49-7	pg/L	64	14000	-	< 5.98 U	-	< 6.13 U	-	< 4.15 U	-	< 7.68 U	-	< 5.86 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	32.5	-	30.6	-	16.1 J+	-	18.2 J+	-	36.2
PCB-060	33025-41-1	pg/L	64	14000	-	13 J	-	12.2 JN	-	9.26 JN	-	11.5 J+	-	21.8 JN
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	171	-	151	-	96.3 J+	-	110 J+	-	237
PCB-063	74472-34-7	pg/L	64	14000	-	16.9 J	-	11.6 JN	-	4.71 JN	-	< 8.99 U	-	17.3
PCB-064	52663-58-8	pg/L	64	14000	-	110	-	98.1	-	40.4 J	-	45.3 J	-	95
PCB-066	32598-10-0	pg/L	64	14000	-	107	-	99.1	-	64.3 J	-	70.1 J	-	156 J
PCB-067	73575-53-8	pg/L	64	14000	-	< 5.91 U	-	< 6.06 U	-	< 3.94 U	-	< 7.28 U	-	3.7 JN
PCB-068	73575-52-7	pg/L	64	14000	-	9.76 J	-	7.92 JN	-	6.64 J	-	9.02 J	-	6.67 JN
PCB-072	41464-42-0	pg/L	64	14000	-	9.21 JN	-	9.85	-	4.52 JN	-	< 8.41 U	-	7.78 JN
PCB-073	74338-23-1	pg/L	64	14000	-	10.5 JN	-	11.2	-	6.45 J	-	6.92 J	-	7.52 JN
PCB-077	32598-13-3	pg/L	64	14000	-	< 6.34 U	-	7.55 JN	-	< 4.35 U	-	< 8.1 U	-	19.3
PCB-078	70362-49-1	pg/L	64	14000	-	< 6.67 U	-	< 6.84 U	-	< 4.61 U	-	< 8.51 U	-	< 6.62 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 5.62 U	-	< 5.76 U	-	< 3.94 U	-	< 7.28 U	-	< 5.6 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 6.18 U	-	< 6.33 U	-	< 4.25 U	-	< 7.85 U	-	< 6.08 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 6.28 U	-	< 6.44 U	-	< 4.15 U	-	< 7.67 U	-	< 6.27 U
PCB-082	52663-62-4	pg/L	64	14000	-	17.1 JN	-	11	-	12.7	-	16.2	-	25.3
PCB-083	60145-20-2	pg/L	64	14000	-	11.7 JN	-	< 11.8 UJ	-	14 J	-	20.3 J	-	14.9 JN
PCB-084	52663-60-2	pg/L	64	14000	-	58 JN	-	63.1	-	66.1	-	65.3	-	87.5 J

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0019-PLW	23B-0019-PLW	23B-0020-PLW	23B-0020-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0022-PLW	23B-0022-PLW
					Sample Name	23B-0019-PLW-AS-F	23B-0019-PLW-AS-T	23B-0020-PLW-AS-F	23B-0020-PLW-AS-T	23B-0021-PLW-AS-F	23B-0021-PLW-AS-T	23B-0021-PLW-AT-F	23B-0021-PLW-AT-T	23B-0022-PLW-AS-F	23B-0022-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/16/2023	10/16/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	2.85 - 2.85 ft	2.85 - 2.85 ft	2.45 - 2.45 ft	2.45 - 2.45 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	2 - 2 ft	2 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	26.4 J	-	20.8 J	-	25.6	-	22.5 JN	-	28 JN
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	103	-	85.4	-	113	-	117	-	154
PCB-088	55215-17-3	pg/L	64	14000	-	< 10.1 U	-	< 11.6 U	-	< 8.5 U	-	< 8.35 U	-	< 10.8 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 8.42 U	-	< 9.65 U	-	< 7.71 U	-	< 7.58 U	-	< 10.1 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	161	-	148	-	201	-	227	-	259
PCB-091	68194-05-8	pg/L	64	14000	-	43.6	-	31.2 JN	-	40.4	-	42.8	-	69.8 J
PCB-092	52663-61-3	pg/L	64	14000	-	52.3 J	-	44.8 J	-	55.8	-	70.1	-	84.5 J
PCB-093/100	PCB-93/100	pg/L			-	< 9.01 U	-	< 10.3 U	-	< 8.05 U	-	< 7.91 U	-	< 11.2 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 9.86 U	-	< 11.3 U	-	< 8.98 U	-	< 8.82 U	-	< 12 U
PCB-095	38379-99-6	pg/L	64	14000	-	175	-	160	-	211	-	236	-	240 J
PCB-096	73575-54-9	pg/L	64	14000	-	< 4.13 U	-	< 5 U	-	< 2.2 U	-	< 2.58 U	-	< 5.02 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 7.25 U	-	< 8.31 U	-	< 6.94 U	-	< 6.82 U	-	< 9.96 U
PCB-099	38380-01-7	pg/L	64	14000	-	67.7	-	61.9	-	70.9	-	78.5	-	107 J
PCB-102	68194-06-9	pg/L	64	14000	-	< 8.01 UJ	-	10.9 J	-	< 6.88 U	-	< 6.76 U	-	< 8.18 UJ
PCB-103	60145-21-3	pg/L	64	14000	-	< 8.45 U	-	< 9.68 U	-	< 7.63 U	-	< 7.5 U	-	7.65 JN
PCB-104	56558-16-8	pg/L	64	14000	-	< 3.69 U	-	< 4.47 U	-	< 1.99 U	-	< 2.34 U	-	< 4.21 U
PCB-105	32598-14-4	pg/L	64	14000	-	29.6 JN	-	23.3	-	20.6 JN	-	23.9	-	46.8 J
PCB-106	70424-69-0	pg/L	64	14000	-	< 5.87 U	-	< 6.73 U	-	< 5.23 U	-	< 5.14 U	-	< 7 U
PCB-107	70424-68-9	pg/L	64	14000	-	< 5.88 U	-	< 6.74 U	-	9.45 JN	-	10.4 JN	-	14.1
PCB-108/124	PCB-108/124	pg/L			-	< 6.52 U	-	< 7.48 U	-	< 5.68 U	-	7.03 JN	-	9.25 J
PCB-110	38380-03-9	pg/L	64	14000	-	167	-	151	-	197	-	221	-	242 J
PCB-111	39635-32-0	pg/L	64	14000	-	< 6.27 U	-	< 7.18 U	-	< 5.64 U	-	< 5.54 U	-	< 7.53 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 5.38 U	-	< 6.17 U	-	< 4.89 U	-	< 4.81 U	-	< 6.35 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 5.88 U	-	< 6.28 U	-	< 5.24 U	-	< 5.13 U	-	< 5.64 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 5.85 U	-	< 6.7 U	-	< 4.62 U	-	3.12 J	-	< 7.02 U
PCB-117	68194-11-6	pg/L	64	14000	-	< 6.88 U	-	< 7.89 U	-	< 5.95 U	-	< 5.84 U	-	12.2 JN
PCB-118	31508-00-6	pg/L	64	14000	-	95.3	-	68.9	-	92.3	-	115	-	149 J
PCB-120	68194-12-7	pg/L	64	14000	-	< 5.2 U	-	< 5.95 U	-	< 4.64 U	-	< 4.56 U	-	< 6.23 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 5.82 U	-	< 6.67 U	-	< 5.18 U	-	< 5.09 U	-	< 6.88 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 7.65 U	-	< 8.17 U	-	< 6.49 U	-	< 6.35 U	-	< 7.36 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 5.87 U	-	< 6.73 U	-	< 5.22 U	-	< 5.13 U	-	< 7 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 5.67 U	-	< 4.19 U	-	< 4.34 U	-	< 3.28 U	-	< 6.1 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 6.48 U	-	< 7.12 U	-	< 5.46 U	-	< 5.06 U	-	< 6.86 U
PCB-128/166	PCB-128/166	pg/L			-	23.9	-	16.1 J	-	22.4 J	-	29 JN	-	41 J
PCB-129/138/163	PCB-129/138/163	pg/L			-	161	-	121	-	171	-	176	-	239 J
PCB-130	52663-66-8	pg/L	64	14000	-	14.1	-	< 6.43 U	-	15.5	-	12.2 JN	-	19 J
PCB-131	61798-70-7	pg/L	64	14000	-	< 3.3 U	-	< 5.94 U	-	< 1.99 U	-	< 3.43 U	-	< 3.54 U
PCB-132	38380-05-1	pg/L	64	14000	-	45.7	-	28.8 JN	-	54.3 J	-	58.1 J	-	82.2 J
PCB-133	35694-04-3	pg/L	64	14000	-	< 2.85 U	-	< 5.14 U	-	< 1.76 U	-	< 3.03 U	-	< 3.08 U
PCB-134	52704-70-8	pg/L	64	14000	-	9.37 JN	-	8.06 JN	-	15.9	-	11	-	13.8 JN
PCB-135/151	PCB-135/151	pg/L			-	33.8 JN	-	32.7	-	39.1 JN	-	50.1	-	52 JN
PCB-136	38411-22-2	pg/L	64	14000	-	15.1 JN	-	10.1 JN	-	17.8 JN	-	19.4 JN	-	31
PCB-137	35694-06-5	pg/L	64	14000	-	7.6 JN	-	< 6 U	-	9.51 J	-	10.6 JN	-	18.3
PCB-139/140	PCB-139/140	pg/L			-	< 2.86 U	-	< 5.15 U	-	< 1.76 U	-	< 3.04 U	-	5.81 J
PCB-141	52712-04-6	pg/L	64	14000	-	16 JN	-	11.6 JN	-	18.6 JN	-	25.1	-	32.3 J
PCB-142	41411-61-4	pg/L	64	14000	-	< 3.18 U	-	< 5.73 U	-	< 1.97 U	-	< 3.4 U	-	< 3.5 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 2.88 U	-	< 5.19 U	-	< 1.96 U	-	< 3.38 U	-	< 3.15 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 3 U	-	< 5.39 U	-	< 1.84 U	-	2.72 JN	-	7.05 JN
PCB-145	74472-40-5	pg/L	64	14000	-	< 2.26 U	-	< 3.7 U	-	< 1.3 U	-	< 2.02 U	-	< 2.39 U
PCB-146	51908-16-8	pg/L	64	14000	-	12.8 JN	-	11 JN	-	14.9 JN	-	24.9	-	30.2 J
PCB-147/149	PCB-147/149	pg/L			-	99.8	-	70.3	-	108	-	127	-	143 J
PCB-148	74472-41-6	pg/L	64	14000	-	< 2.93 U	-	< 5.28 U	-	< 1.78 U	-	< 3.08 U	-	< 3.13 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 2.39 U	-	< 3.9 U	-	< 1.37 U	-	< 2.12 U	-	< 2.56 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 2.13 U	-	< 3.48 U	-	< 1.25 U	-	< 1.94 U	-	< 2.28 U
PCB-153/168	PCB-153/168	pg/L			-	93.8	-	79.2	-	124	-	140	-	159 J
PCB-154	60145-22-4	pg/L	64	14000	-	< 2.68 U	-	< 4.83 U	-	< 1.67 U	-	4 J	-	< 2.92 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0019-PLW	23B-0019-PLW	23B-0020-PLW	23B-0020-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0022-PLW	23B-0022-PLW
					Sample Name	23B-0019-PLW-AS-F	23B-0019-PLW-AS-T	23B-0020-PLW-AS-F	23B-0020-PLW-AS-T	23B-0021-PLW-AS-F	23B-0021-PLW-AS-T	23B-0021-PLW-AT-F	23B-0021-PLW-AT-T	23B-0022-PLW-AS-F	23B-0022-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/16/2023	10/16/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	2.85 - 2.85 ft	2.85 - 2.85 ft	2.45 - 2.45 ft	2.45 - 2.45 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	2 - 2 ft	2 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 2.04 U	-	< 3.34 U	-	< 1.25 U	-	< 1.94 U	-	< 2.08 U
PCB-156/157	PCB-156/157	pg/L			-	9.96 JN	-	< 5.92 U	-	12.9 J	-	16.6 JN	-	20.4 J
PCB-158	74472-42-7	pg/L	64	14000	-	14.1	-	8.98 J	-	13.5 JN	-	15.7 JN	-	20.7 JN
PCB-159	39635-35-3	pg/L	64	14000	-	< 4.82 U	-	< 3.52 U	-	< 2.44 U	-	< 2.39 U	-	< 4.78 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 2.36 U	-	< 4.25 U	-	< 1.49 U	-	< 2.56 U	-	< 2.55 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 2.11 U	-	< 3.8 U	-	< 1.32 U	-	< 2.27 U	-	< 2.25 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 5.61 U	-	< 4.1 U	-	< 2.88 U	-	< 2.82 U	-	< 5.53 U
PCB-164	74472-45-0	pg/L	64	14000	-	7.24 J	-	5.7 JN	-	10.7 J	-	9.38 JN	-	10.9 JN
PCB-165	74472-46-1	pg/L	64	14000	-	< 2.47 U	-	< 4.45 U	-	< 1.55 U	-	< 2.68 U	-	< 2.67 U
PCB-167	52663-72-6	pg/L	64	14000	-	< 5.34 U	-	3.33 JN	-	< 2.77 U	-	8.07 JN	-	9.15 JN
PCB-169	32774-16-6	pg/L	4	14000	-	< 8.09 U	-	< 8.48 U	-	< 4.29 U	-	< 3.91 U	-	< 10.4 U
PCB-170	35065-30-6	pg/L	64	14000	-	20.6 JN	-	< 12.9 U	-	15	-	15.3	-	35 J
PCB-171/173	PCB-171/173	pg/L			-	< 10.4 U	-	< 10.7 U	-	< 9.83 U	-	< 7.03 U	-	10.3 JN
PCB-172	52663-74-8	pg/L	64	14000	-	< 9.74 U	-	< 10 U	-	< 9.2 U	-	< 6.58 U	-	< 8.95 U
PCB-174	38411-25-5	pg/L	64	14000	-	10.7 JN	-	< 9.4 U	-	11.2 JN	-	12 JN	-	21.8 JN
PCB-175	40186-70-7	pg/L	64	14000	-	< 10 U	-	< 10.3 U	-	< 9.4 U	-	< 6.73 U	-	< 9.27 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 6.95 U	-	< 3.89 U	-	< 4.07 U	-	< 2.85 U	-	< 4.76 U
PCB-177	52663-70-4	pg/L	64	14000	-	< 9.18 U	-	5.08 JN	-	8.05 JN	-	10.3	-	13.5 J
PCB-178	52663-67-9	pg/L	64	14000	-	< 8.77 U	-	< 4.91 U	-	< 5.03 U	-	< 3.53 U	-	< 5.93 U
PCB-179	52663-64-6	pg/L	64	14000	-	< 6.04 U	-	5.45 J	-	8.16 J	-	4.75 JN	-	12.1
PCB-180/193	PCB-180/193	pg/L			-	43 J	-	23.6 J	-	31.5 J+	-	33.8 J+	-	52.7 JN
PCB-181	74472-47-2	pg/L	64	14000	-	< 8.73 U	-	< 8.98 U	-	< 8.3 U	-	< 5.94 U	-	< 8.01 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 8.26 U	-	< 8.51 U	-	< 7.75 U	-	< 5.54 U	-	< 7.64 U
PCB-183	52663-69-1	pg/L	64	14000	-	< 8.86 U	-	< 9.12 U	-	11.5 J	-	13.2 J	-	16.3 J
PCB-184	74472-48-3	pg/L	64	14000	-	< 6.49 U	-	< 3.64 U	-	< 3.79 U	-	< 2.66 U	-	< 4.46 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 10.1 U	-	< 10.4 U	-	< 9.44 U	-	< 6.75 U	-	< 10.2 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 5.81 U	-	< 3.25 U	-	< 3.38 U	-	< 2.37 U	-	< 3.96 U
PCB-187	52663-68-0	pg/L	64	14000	-	18.5 J	-	11.6 JN	-	12.7	-	18.5	-	32.3
PCB-188	74487-85-7	pg/L	64	14000	-	< 6.28 U	-	< 3.52 U	-	< 3.87 U	-	< 2.71 U	-	< 3.9 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 5.28 U	-	< 5.17 U	-	< 3.86 U	-	< 3.38 U	-	< 6.78 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 7.26 U	-	< 9.37 U	-	< 7.08 U	-	< 4.9 U	-	< 7.46 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 8.16 U	-	< 8.4 U	-	< 7.29 U	-	< 5.21 U	-	< 7.23 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 7.01 U	-	< 7.21 U	-	< 6.41 U	-	< 4.59 U	-	< 6.33 U
PCB-194	35694-08-7	pg/L	64	14000	-	7.11 J	-	4.06 J	-	7.11 JN	-	5.19 JN	-	12.3 JN
PCB-195	52663-78-2	pg/L	64	14000	-	< 3.69 U	-	< 3.36 U	-	< 3.99 U	-	< 2.93 U	-	< 4.86 U
PCB-196	42740-50-1	pg/L	64	14000	-	3.81 J	-	< 4.16 U	-	< 2.84 U	-	3.61 JN	-	6.37 J
PCB-197	33091-17-7	pg/L	64	14000	-	< 1.64 U	-	< 2.97 U	-	< 2.13 U	-	< 1.77 U	-	< 3.43 U
PCB-198/199	PCB-198/199	pg/L			-	8.46 JN	-	3.47 JN	-	7.1 JN	-	3.96 JN	-	13 JN
PCB-200	52663-73-7	pg/L	64	14000	-	< 1.78 U	-	< 3.23 U	-	< 2.19 U	-	< 1.82 U	-	< 3.41 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 1.83 U	-	< 3.31 U	-	< 2.38 U	-	< 1.97 U	-	2.49 JN
PCB-202	2136-99-4	pg/L	64	14000	-	1.53 JN	-	< 2.69 U	-	< 1.95 U	-	< 1.61 U	-	4.13 JN
PCB-203	52663-76-0	pg/L	64	14000	-	3.65 JN	-	< 3.36 U	-	4.27 J	-	3.75 JN	-	8.62 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 1.57 U	-	< 2.85 U	-	< 2.06 U	-	< 1.71 U	-	< 3.22 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 3.14 U	-	< 2.86 U	-	< 3.12 U	-	< 2.3 U	-	< 4.05 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 20 UJ	-	< 19.1 UJ	-	< 20.2 UJ	-	< 20 UJ	-	14.4 JN
PCB-207	52663-79-3	pg/L	64	14000	-	< 5.69 U	-	< 6.33 U	-	< 6.59 U	-	< 3.74 U	-	< 6.18 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 5.08 U	-	< 5.64 U	-	< 5.98 U	-	< 3.39 U	-	< 5.5 U
PCB-209	2051-24-3	pg/L	64	14000	-	7.98 J	-	5.43 J	-	4.27 JN	-	6.94 J	-	14.6
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	7.98	-	5.43	-	4.27	-	6.94	-	14.6
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	92.8	-	45.7	-	98.1	-	108	-	194
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	564	-	407	-	648	-	740	-	935
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	24.6	-	7.53	-	18.5	-	16.5	-	46.9
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	12500	-	10100	-	5430	-	5930	-	9770
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	1010	-	880	-	1130	-	1280	-	1550
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	4680	-	3530	-	968	-	1040	-	1360
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	35.3	-	54.6	-	32.2	-	28.0	-	51.3
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 20 U	-	< 19.1 U	-	< 20.2 U	-	< 20 U	-	14.4
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	2400	-	2230	-	1350	-	1440	-	2620
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	3680	-	2920	-	1180	-	1270	-	2980

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0019-PLW	23B-0019-PLW	23B-0020-PLW	23B-0020-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0022-PLW	23B-0022-PLW
					Sample Name	23B-0019-PLW-AS-F	23B-0019-PLW-AS-T	23B-0020-PLW-AS-F	23B-0020-PLW-AS-T	23B-0021-PLW-AS-F	23B-0021-PLW-AS-T	23B-0021-PLW-AT-F	23B-0021-PLW-AT-T	23B-0022-PLW-AS-F	23B-0022-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/16/2023	10/16/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	2.85 - 2.85 ft	2.85 - 2.85 ft	2.45 - 2.45 ft	2.45 - 2.45 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	2 - 2 ft	2 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	34 J	47 J+	38 J	42 J+	51 J+	110 J	46 J	56 J	35 J	180
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.18 J	0.18 J	0.16 J	0.20 J
Arsenic	7440-38-2	ug/L	0.018	150	0.49 J	0.60 J	0.50 J	0.46 J	0.67 J	0.48 J	0.49 J	0.54 J	0.37 J	0.72 J
Barium	7440-39-3	ug/L	380	220	39	38	40	41	38	38	34	37	34	43
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	16000	16000	17000	17000	14000	15000	13000	14000	13000	14000
Chromium, Total	7440-47-3	ug/L	100	44	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.80 J	0.95 J	4.4	2.0
Cobalt	7440-48-4	ug/L	0.6	19	0.28 J	< 1.0 U	0.23 J	< 1.0 U	< 1.0 U	< 1.0 U	0.22 J	0.29 J	0.18 J	0.92 J
Copper	7440-50-8	ug/L	80	5	1.6 J	1.4 J	1.4 J	1.3 J	1.4 J	2.1	1.7 J	2.0	1.7 J	3.6
Iron	7439-89-6	ug/L	1400	1000	980	1500	1200	1500	910	1300	710	1100	590	1700
Lead	7439-92-1	ug/L	15	0.54	1.2	1.2 J+	< 1.0 U	1.2 J+	< 1.0 U	1.7	< 1.0 U	1.5	< 1.0 U	5.9
Magnesium	7439-95-4	ug/L		82000	4200	4400	4300	4300	4200	4100	3400	3800	3500	3600
Manganese	7439-96-5	ug/L	43	93	150	160	150	150	130	150	120	140	95	420
Nickel	7440-02-0	ug/L	39	27	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	0.82 J	1.0	0.90 J	1.6
Potassium	7440-09-7	ug/L		53000	3200	3300	3300	3300	2800	2800	2200	2400	2600	2700
Selenium	7782-49-2	ug/L	10	5	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		0.18 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	71000	73000	71000	72000	66000	65000	54000	63000	56000	59000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.59 J	< 5.0 U	0.65 J	< 5.0 U	0.71 J	1.0 J	0.68 J	0.95 J	0.56 J	1.4 J
Zinc	7440-66-6	ug/L	600	11.8	16	8.9 J	11	6.5 J	5.1	18 J	8.2 J+	8.0	5.1 J+	19
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	0.070 J	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0019-PLW	23B-0019-PLW	23B-0020-PLW	23B-0020-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0022-PLW	23B-0022-PLW
					Sample Name	23B-0019-PLW-AS-F	23B-0019-PLW-AS-T	23B-0020-PLW-AS-F	23B-0020-PLW-AS-T	23B-0021-PLW-AS-F	23B-0021-PLW-AS-T	23B-0021-PLW-AT-F	23B-0021-PLW-AT-T	23B-0022-PLW-AS-F	23B-0022-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/16/2023	10/16/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	2.85 - 2.85 ft	2.85 - 2.85 ft	2.45 - 2.45 ft	2.45 - 2.45 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	2 - 2 ft	2 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	0.050 J	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Styrene	100-42-5	ug/L	100	32	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 R	-	< 0.50 R	
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 UJ	-	< 10 UJ	
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 U	-	< 5.1 UJ	-	< 5.0 UJ	
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 UJ	-	< 10 UJ	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 UJ	-	< 10 UJ	
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 UJ	-	< 10 UJ	
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0019-PLW	23B-0019-PLW	23B-0020-PLW	23B-0020-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0022-PLW	23B-0022-PLW
					Sample Name	23B-0019-PLW-AS-F	23B-0019-PLW-AS-T	23B-0020-PLW-AS-F	23B-0020-PLW-AS-T	23B-0021-PLW-AS-F	23B-0021-PLW-AS-T	23B-0021-PLW-AT-F	23B-0021-PLW-AT-T	23B-0022-PLW-AS-F	23B-0022-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/16/2023	10/16/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	2.85 - 2.85 ft	2.85 - 2.85 ft	2.45 - 2.45 ft	2.45 - 2.45 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	2 - 2 ft	2 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	1.0 J	-	< 10 U	-	1.9 J
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.0	-	3.5	-	2.3	-	2.1	-	2.1 J+
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	4.5 J-	-	5.9 J-	-	4.0	-	3.8	-	3.4
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.27 J	-	0.39 J	-	0.41 J	-	0.31 J	-	0.34 J
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.7 U	-	< 1.6 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.2	-	2.2	-	1.5 J-	-	1.5 J-	-	1.5 J-
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.7	-	2.9	-	1.8 J	-	1.8	-	1.7 J
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	4.6	-	4.7	-	3.7	-	3.5	-	3.8
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.84 J	-	0.91 J	-	0.71 J	-	0.67 J	-	0.62 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.7 U	-	< 1.6 U	-	0.48 J	-	0.40 J	-	0.39 J
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	5.6	-	7.0	-	4.0	-	4.1	-	4.1
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.9	-	6.7	-	4.4	-	4.7	-	4.4
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.37 J	-	0.47 J	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.3	-	4.5	-	3.2	-	3.1	-	3.0
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.7 U	-	< 1.6 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0019-PLW	23B-0019-PLW	23B-0020-PLW	23B-0020-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0021-PLW	23B-0022-PLW	23B-0022-PLW
				Sample Name	23B-0019-PLW-AS-F	23B-0019-PLW-AS-T	23B-0020-PLW-AS-F	23B-0020-PLW-AS-T	23B-0021-PLW-AS-F	23B-0021-PLW-AS-T	23B-0021-PLW-AT-F	23B-0021-PLW-AT-T	23B-0022-PLW-AS-F	23B-0022-PLW-AS-T
				Sample Date	10/17/2023	10/17/2023	10/16/2023	10/16/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
				Sample Type	N	N	N	N	N	N	FD	FD	N	N
				Depth Interval	2.85 - 2.85 ft	2.85 - 2.85 ft	2.45 - 2.45 ft	2.45 - 2.45 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	1.5 - 1.5 ft	2 - 2 ft	2 - 2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.7 U	-	< 1.6 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.75	-	8.91	-	7.93	-	-	-	8.48
Oxidation-Reduction Potential	ORP	mv			-	162.1	-	143	-	163.2	-	-	-	157
pH	PH	su			-	6.93	-	6.99	-	6.51	-	-	-	6.49
Specific Conductance	SC	us/cm			-	476.1	-	460.9	-	453.9	-	-	-	436.5
Temperature	TEMP	deg c			-	13.1	-	13.4	-	12	-	-	-	12.2
Turbidity	TURB	NTU			-	1.74	-	1.12	-	1.25	-	-	-	2.04

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0023-PLW	23B-0023-PLW	23B-0024-PLW	23B-0024-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0026-PLW	23B-0026-PLW
					Sample Name	23B-0023-PLW-AS-F	23B-0023-PLW-AS-T	23B-0024-PLW-AS-F	23B-0024-PLW-AS-T	23B-0025-PLW-AS-F	23B-0025-PLW-AS-T	23B-0025-PLW-BS-F	23B-0025-PLW-BS-T	23B-0026-PLW-AS-F	23B-0026-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.25 - 2.25 ft	2.25 - 2.25 ft	1.9 - 1.9 ft	1.9 - 1.9 ft	1 - 1 ft	1 - 1 ft	5 - 5 ft	5 - 5 ft	2.3 - 2.3 ft	2.3 - 2.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.50 U	-	< 0.51 U	-	< 0.50 U	-	< 0.51 U	-	< 0.51 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	3.42 JN	-	3.3 J+	-	4.01 J+	-	2.36 JN	-	12 JN
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.19 U	-	< 1.34 U	-	< 1.11 U	-	< 1.12 U	-	< 1.29 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.52 U	-	< 1.47 U	-	< 1.59 U	-	< 1.17 U	-	< 3.05 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.43 U	-	< 1.1 UJ	-	< 0.967 UJ	-	< 0.816 UJ	-	< 1.61 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.59 U	-	< 1.58 U	-	< 1.78 U	-	< 1.29 U	-	< 3.48 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.41 U	-	< 1.12 U	-	< 0.986 U	-	< 0.794 U	-	< 1.7 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.49 U	-	< 1.39 U	-	< 1.52 U	-	< 1.16 U	-	< 3.81 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.75 U	-	< 1.45 U	-	< 1.18 U	-	< 0.959 U	-	< 2.17 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.79 U	-	< 2.13 UJ	-	< 1.72 UJ	-	< 1.32 UJ	-	< 10.7 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.61 U	-	< 1.19 U	-	< 1.24 U	-	< 1.01 U	-	< 2.13 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	1.6 JN	-	< 1.11 U	-	2.33 JN	-	1.9 JN	-	6.74 JN
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.6 U	-	< 1.25 U	-	< 0.965 U	-	< 0.929 U	-	< 1.99 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.5 U	-	< 1.25 U	-	< 1.17 R	-	< 0.981 R	-	< 1.92 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 10 UJ	-	< 9.47 UJ	-	< 9.91 UJ	-	< 9.9 UJ	-	< 10.2 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 2.36 U	-	< 0.859 U	-	< 0.935 U	-	< 0.595 U	-	< 2.07 U
OCDD	3268-87-9	pg/L	400	31	-	8.84 JN	-	8.5 JN	-	28 J	-	13 J	-	53.7 JN
OCDF	39001-02-0	pg/L	400	31	-	< 2.95 U	-	< 4.03 U	-	4.38 J	-	< 2.98 U	-	< 3.69 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	3.42 U	-	3.3	-	4.01	-	2.36	-	12
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	1.6 U	-	< 1.34 U	-	2.33	-	1.9 U	-	6.74
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 1.59 U	-	< 1.58 U	-	< 1.78 U	-	< 1.29 U	-	< 3.81 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.75 U	-	< 1.45 U	-	< 1.18 U	-	< 0.959 U	-	< 2.17 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.79 U	-	< 2.13 U	-	< 1.72 U	-	< 1.32 U	-	< 10.7 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.61 U	-	< 1.25 U	-	< 1.24 U	-	< 1.01 U	-	< 2.13 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 10 U	-	< 9.47 U	-	< 9.91 U	-	< 9.9 U	-	< 10.2 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 2.36 U	-	< 0.859 U	-	< 0.935 U	-	< 0.595 U	-	< 2.07 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	12.2 JN	-	11.6	-	10.8	-	10.6	-	6.61 JN
PCB-002	2051-61-8	pg/L	64	14000	-	< 2.45 U	-	< 3.44 U	-	< 3.39 U	-	< 3.87 U	-	< 3.86 U
PCB-003	2051-62-9	pg/L	64	14000	-	< 2.61 U	-	< 3.57 U	-	10.9 JN	-	< 4 U	-	< 4.4 UJ
PCB-004	13029-08-8	pg/L	64	14000	-	592 J	-	274 J	-	313 J	-	324 J	-	294 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 1.99 U	-	< 4.33 U	-	< 6.1 U	-	< 8.81 U	-	< 10.5 U
PCB-006	25569-80-6	pg/L	64	14000	-	< 6.39 U	-	13.4 JN	-	10.6 JN	-	14.5 JN	-	7.66 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 1.87 U	-	< 4.12 U	-	< 5.72 U	-	< 8.27 U	-	< 10.1 U
PCB-008	34883-43-7	pg/L	64	14000	-	< 36.1 U	-	73.3 J+	-	56.2 J+	-	67.6 JN	-	18.8 JN
PCB-009	34883-39-1	pg/L	64	14000	-	2.03 JN	-	< 3.73 U	-	< 5.14 U	-	< 7.42 U	-	< 9.18 U
PCB-010	33146-45-1	pg/L	64	14000	-	76.8 JN	-	32.7 JN	-	57.9 JN	-	44.7 JN	-	60 JN

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0023-PLW	23B-0023-PLW	23B-0024-PLW	23B-0024-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0026-PLW	23B-0026-PLW
					Sample Name	23B-0023-PLW-AS-F	23B-0023-PLW-AS-T	23B-0024-PLW-AS-F	23B-0024-PLW-AS-T	23B-0025-PLW-AS-F	23B-0025-PLW-AS-T	23B-0025-PLW-BS-F	23B-0025-PLW-BS-T	23B-0026-PLW-AS-F	23B-0026-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.25 - 2.25 ft	2.25 - 2.25 ft	1.9 - 1.9 ft	1.9 - 1.9 ft	1 - 1 ft	1 - 1 ft	5 - 5 ft	5 - 5 ft	2.3 - 2.3 ft	2.3 - 2.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	< 345 UJ	-	273 J+	-	241 J+	-	255 J+	-	< 172 U
PCB-012/013	PCB-12/13	pg/L			-	10.1 JN	-	7.73 JN	-	9.57 JN	-	12.7 JN	-	< 10.3 U
PCB-014	34883-41-5	pg/L	64	14000	-	< 1.84 U	-	< 4.05 U	-	< 5.66 U	-	< 8.18 U	-	< 10.2 U
PCB-015	2050-68-2	pg/L	64	14000	-	181 J	-	122 J	-	117 J	-	220 J	-	138 J
PCB-016	38444-78-9	pg/L	64	14000	-	41.3 J	-	70.9	-	67	-	85.8	-	18 J
PCB-017	37680-66-3	pg/L	64	14000	-	163 J+	-	180	-	153	-	246	-	93.7 JN
PCB-018/030	PCB-18/30	pg/L			-	149 J+	-	201	-	175	-	224	-	81.9
PCB-019	38444-73-4	pg/L	64	14000	-	333 J	-	257 J	-	284 J	-	319 J	-	287 J
PCB-020/028	PCB-20/28	pg/L			-	147 J+	-	190	-	181	-	295	-	82.2
PCB-021/033	PCB-21/33	pg/L			-	40.9 J+	-	95.3	-	79.7 J+	-	86.9 J+	-	< 10.6 U
PCB-022	38444-85-8	pg/L	64	14000	-	< 18.4 U	-	48.5	-	40.7 JN	-	47.2	-	< 9.85 U
PCB-023	55720-44-0	pg/L	64	14000	-	< 5.18 U	-	< 10.9 U	-	< 10.6 U	-	< 12.1 U	-	< 10.8 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 4.63 U	-	< 8.6 U	-	< 7.89 U	-	< 9.55 U	-	< 7.86 U
PCB-025	55712-37-3	pg/L	64	14000	-	40.6	-	41.7 J	-	37 J	-	70.1 J	-	29.6
PCB-026/029	PCB-26/29	pg/L			-	98.5	-	92.6	-	86.7	-	128	-	54.5
PCB-027	38444-76-7	pg/L	64	14000	-	157	-	139	-	146	-	219	-	142
PCB-031	16606-02-3	pg/L	64	14000	-	116 J+	-	150	-	139	-	214	-	43.9 J+
PCB-032	38444-77-8	pg/L	64	14000	-	116 J+	-	109	-	106	-	195	-	80.7
PCB-034	37680-68-5	pg/L	64	14000	-	< 5.29 U	-	< 11 U	-	< 10.8 U	-	< 12.3 U	-	< 11.9 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 4.66 U	-	< 10 U	-	< 9.85 U	-	< 11.3 U	-	< 11.1 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 4.16 U	-	< 8.83 U	-	< 8.6 U	-	< 9.83 U	-	< 9.93 U
PCB-037	38444-90-5	pg/L	64	14000	-	23.8 J	-	37.1	-	33.6	-	36.8 JN	-	15.3 J
PCB-038	53555-66-1	pg/L	64	14000	-	< 4.6 U	-	< 9.74 U	-	< 9.37 U	-	< 10.7 U	-	< 10.7 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 4.64 U	-	< 9.75 U	-	< 9.56 U	-	< 10.9 U	-	< 10.7 U
PCB-040/071	PCB-40/71	pg/L			-	65.8 J+	-	86.9	-	89	-	132	-	64.5
PCB-041	52663-59-9	pg/L	64	14000	-	7.34 J+	-	9.55 JN	-	13 J	-	15.8 J	-	< 7.45 U
PCB-042	36559-22-5	pg/L	64	14000	-	46.9 J+	-	51.2	-	56.9	-	78.6 JN	-	36.3 JN
PCB-043	70362-46-8	pg/L	64	14000	-	9.32 J	-	8.6 J	-	9.48 JN	-	11.2 JN	-	6.34 JN
PCB-044/047/065	PCB-44/47/65	pg/L			-	233	-	261	-	274	-	379	-	230
PCB-045	70362-45-7	pg/L	64	14000	-	18.1 JN	-	20.3 JN	-	34	-	34.2	-	17 JN
PCB-046	41464-47-5	pg/L	64	14000	-	22.1	-	25.3	-	28.4	-	28.1 JN	-	19 J
PCB-048	70362-47-9	pg/L	64	14000	-	17.7 J+	-	27.8 J+	-	24.4 JN	-	28.7 JN	-	9.9 J
PCB-049/069	PCB-49/69	pg/L			-	145 J+	-	174	-	191	-	267	-	159
PCB-050/053	PCB-50/53	pg/L			-	129	-	155	-	163	-	199	-	155
PCB-051	68194-04-7	pg/L	64	14000	-	18.6 JN	-	23 JN	-	22.5 J	-	40.5 J	-	24.7
PCB-052	35693-99-3	pg/L	64	14000	-	238	-	296	-	317	-	382	-	266
PCB-054	15968-05-5	pg/L	64	14000	-	11.9	-	15.1	-	14.4	-	14.8 JN	-	17.5 JN
PCB-055	74338-24-2	pg/L	64	14000	-	< 2.18 U	-	< 4.48 U	-	< 4.95 U	-	< 5.8 U	-	< 5.7 U
PCB-056	41464-43-1	pg/L	64	14000	-	19.6 J	-	25.9	-	29.7	-	38.9 JN	-	10.8 JN
PCB-057	70424-67-8	pg/L	64	14000	-	< 2.45 U	-	< 4.95 U	-	< 5.37 U	-	< 6.3 U	-	< 6.28 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 2.14 U	-	< 4.36 U	-	< 4.77 U	-	< 5.6 U	-	< 5.65 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	22.2 J+	-	20.1 J	-	22.8 J	-	32.7	-	16.7 J
PCB-060	33025-41-1	pg/L	64	14000	-	9.57 J+	-	16.2 J	-	14.5 JN	-	18 J	-	< 6.67 U
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	102 J+	-	136	-	140	-	256	-	84.2
PCB-063	74472-34-7	pg/L	64	14000	-	5.07 JN	-	6.23 JN	-	< 5.85 U	-	16.2 JN	-	< 6.7 U
PCB-064	52663-58-8	pg/L	64	14000	-	54.5 J	-	59.8	-	65.9	-	92.1	-	47.5
PCB-066	32598-10-0	pg/L	64	14000	-	66.3 J	-	81 J	-	92.7 J	-	188 J	-	65.2
PCB-067	73575-53-8	pg/L	64	14000	-	2.41 JN	-	< 4.34 U	-	< 4.73 U	-	4.13 JN	-	< 5.37 U
PCB-068	73575-52-7	pg/L	64	14000	-	6.51 J	-	< 4.97 U	-	6.42 JN	-	8.7 JN	-	< 6.21 U
PCB-072	41464-42-0	pg/L	64	14000	-	4.86 J	-	4.76 JN	-	6.89 JN	-	6.94 JN	-	< 6.3 U
PCB-073	74338-23-1	pg/L	64	14000	-	5.5 J	-	7.59 JN	-	5.78 J	-	7.21 J	-	7.31 JN
PCB-077	32598-13-3	pg/L	64	14000	-	5.94 J	-	4.57 JN	-	< 5.77 U	-	19	-	< 6.31 U
PCB-078	70362-49-1	pg/L	64	14000	-	< 2.35 U	-	< 4.9 U	-	< 5.4 U	-	< 6.33 U	-	< 6.17 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 2 U	-	< 4.14 U	-	< 4.53 U	-	< 5.31 U	-	< 5.4 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 2.27 U	-	< 4.65 U	-	< 5.01 U	-	< 5.87 U	-	< 5.85 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 2.36 U	-	< 4.79 U	-	< 5.23 U	-	< 6.13 U	-	< 5.91 U
PCB-082	52663-62-4	pg/L	64	14000	-	11.5	-	13.1 JN	-	12.6 JN	-	21	-	19.2 J
PCB-083	60145-20-2	pg/L	64	14000	-	12.5 J	-	13.2 JN	-	7.26 JN	-	< 11.2 UJ	-	< 13.1 UJ
PCB-084	52663-60-2	pg/L	64	14000	-	48.5	-	69.3 J	-	70.3 J	-	85.8 J	-	65.5

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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					Location	23B-0023-PLW	23B-0023-PLW	23B-0024-PLW	23B-0024-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0026-PLW	23B-0026-PLW
					Sample Name	23B-0023-PLW-AS-F	23B-0023-PLW-AS-T	23B-0024-PLW-AS-F	23B-0024-PLW-AS-T	23B-0025-PLW-AS-F	23B-0025-PLW-AS-T	23B-0025-PLW-BS-F	23B-0025-PLW-BS-T	23B-0026-PLW-AS-F	23B-0026-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.25 - 2.25 ft	2.25 - 2.25 ft	1.9 - 1.9 ft	1.9 - 1.9 ft	1 - 1 ft	1 - 1 ft	5 - 5 ft	5 - 5 ft	2.3 - 2.3 ft	2.3 - 2.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	20.9	-	25.3	-	26.9	-	36.8	-	21.2 JN
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	82.5	-	121	-	128	-	156	-	121
PCB-088	55215-17-3	pg/L	64	14000	-	< 4.01 U	-	< 8.99 U	-	< 6.97 U	-	< 11.1 U	-	< 9.87 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 3.58 U	-	< 7.94 U	-	< 6.04 U	-	< 9.58 U	-	< 9.12 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	134	-	196	-	208	-	256	-	207
PCB-091	68194-05-8	pg/L	64	14000	-	29.5	-	41 J	-	45.5 J	-	56.9 J	-	41.4
PCB-092	52663-61-3	pg/L	64	14000	-	45.1	-	52.9 J	-	67.8 J	-	80.8 J	-	55.1
PCB-093/100	PCB-93/100	pg/L			-	< 3.86 U	-	< 8.53 U	-	10 J	-	< 10.1 U	-	< 9.57 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 4.17 U	-	< 9.3 U	-	< 6.92 U	-	< 11 U	-	< 10.4 U
PCB-095	38379-99-6	pg/L	64	14000	-	141	-	215 J	-	215 J	-	222 J	-	198
PCB-096	73575-54-9	pg/L	64	14000	-	2.67 JN	-	< 3.27 U	-	< 2.77 U	-	4.74 JN	-	< 2.41 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 3.23 U	-	< 7.31 U	-	< 5.27 U	-	< 8.37 U	-	< 7.76 U
PCB-099	38380-01-7	pg/L	64	14000	-	50.1	-	69.4 J	-	99.4 J	-	140 J	-	67.8 JN
PCB-102	68194-06-9	pg/L	64	14000	-	< 3.24 U	-	9.44 JN	-	8.76 JN	-	17 J	-	< 8.13 U
PCB-103	60145-21-3	pg/L	64	14000	-	< 3.57 U	-	< 8.05 U	-	< 6 U	-	< 9.53 U	-	< 8.82 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 1.87 U	-	< 2.94 U	-	< 2.44 U	-	< 3.72 U	-	< 2.08 U
PCB-105	32598-14-4	pg/L	64	14000	-	21	-	28.3 J	-	33.5 J	-	52.8 J	-	26.1 JN
PCB-106	70424-69-0	pg/L	64	14000	-	< 2.4 U	-	< 5.52 U	-	< 4.12 U	-	< 6.55 U	-	< 6.08 U
PCB-107	70424-68-9	pg/L	64	14000	-	5.98 JN	-	< 5.58 U	-	11.4 JN	-	15.5 JN	-	9.58 J
PCB-108/124	PCB-108/124	pg/L			-	5.06 JN	-	< 6.01 U	-	< 4.51 U	-	10.1 JN	-	< 6.81 U
PCB-110	38380-03-9	pg/L	64	14000	-	126	-	213 J	-	261 J	-	294 J	-	262
PCB-111	39635-32-0	pg/L	64	14000	-	< 2.6 U	-	< 5.89 U	-	< 4.43 U	-	< 7.04 U	-	< 6.7 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 2.27 U	-	< 5.19 U	-	< 3.81 U	-	< 6.05 U	-	< 5.6 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 2.64 U	-	< 5.13 U	-	< 4.48 U	-	< 5.93 U	-	< 6.36 U
PCB-115	74472-38-1	pg/L	64	14000	-	9.13 J	-	< 4.85 U	-	< 3.54 U	-	< 5.62 U	-	< 5.22 U
PCB-117	68194-11-6	pg/L	64	14000	-	5.76 J	-	< 6.3 U	-	8.97 J	-	9.52 JN	-	10.3 J
PCB-118	31508-00-6	pg/L	64	14000	-	65.1 JN	-	98.1 J	-	116 J	-	173 J	-	107
PCB-120	68194-12-7	pg/L	64	14000	-	< 2.14 U	-	< 4.85 U	-	< 3.68 U	-	< 5.84 U	-	< 5.46 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 2.44 U	-	< 5.4 U	-	< 4.07 U	-	< 6.47 U	-	< 6 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 3.25 U	-	< 6.4 U	-	< 5.7 U	-	< 7.54 U	-	< 8.23 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 2.44 U	-	< 5.46 U	-	< 4.18 U	-	< 6.63 U	-	< 6.24 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 1.69 U	-	< 4.56 U	-	< 3.92 U	-	< 5.86 U	-	< 5.26 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 2.52 U	-	< 5.13 U	-	< 4.45 U	-	< 6.42 U	-	< 6.63 U
PCB-128/166	PCB-128/166	pg/L			-	16.5 JN	-	25.8 J	-	33.2 J	-	35.5 J	-	34.7 J
PCB-129/138/163	PCB-129/138/163	pg/L			-	117	-	155 J	-	217 J	-	185 J	-	232
PCB-130	52663-66-8	pg/L	64	14000	-	8.19 J	-	11.1 JN	-	8.67 JN	-	10.8 JN	-	< 4.01 U
PCB-131	61798-70-7	pg/L	64	14000	-	< 1.81 U	-	< 2.89 U	-	< 2.28 U	-	< 5.21 U	-	< 3.44 U
PCB-132	38380-05-1	pg/L	64	14000	-	34.9 J	-	57.3 J	-	75.3 J	-	48.8 JN	-	73.6
PCB-133	35694-04-3	pg/L	64	14000	-	< 1.61 U	-	< 2.56 U	-	< 1.99 U	-	< 4.55 U	-	< 3.16 U
PCB-134	52704-70-8	pg/L	64	14000	-	7.21 J	-	8.06 JN	-	11.3 JN	-	13.5 JN	-	17.2 JN
PCB-135/151	PCB-135/151	pg/L			-	30.9	-	37.1 J	-	50.1 J	-	44.5 JN	-	53.3
PCB-136	38411-22-2	pg/L	64	14000	-	12.3 JN	-	19.9	-	24.2	-	24.3	-	24.9 JN
PCB-137	35694-06-5	pg/L	64	14000	-	5.2 JN	-	8.41 J	-	13.1	-	14.3	-	9.56 J
PCB-139/140	PCB-139/140	pg/L			-	< 1.63 U	-	< 2.59 U	-	3.3 JN	-	5.88 JN	-	< 3.15 U
PCB-141	52712-04-6	pg/L	64	14000	-	16.1 JN	-	20.7 J	-	25.6 J	-	23.8 J	-	23.7 JN
PCB-142	41411-61-4	pg/L	64	14000	-	< 1.81 U	-	< 2.92 U	-	< 2.3 U	-	< 5.25 U	-	< 3.51 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 1.74 U	-	< 2.79 U	-	< 2.14 U	-	< 4.9 U	-	< 3.36 U
PCB-144	68194-14-9	pg/L	64	14000	-	3.6 JN	-	5.2 JN	-	8.46 J	-	7.63 JN	-	< 3.3 U
PCB-145	74472-40-5	pg/L	64	14000	-	< 1.26 U	-	< 1.93 U	-	< 1.71 U	-	< 3.53 U	-	< 2.26 U
PCB-146	51908-16-8	pg/L	64	14000	-	13.9	-	18.1 JN	-	24.7 J	-	17.6 JN	-	25.8
PCB-147/149	PCB-147/149	pg/L			-	80	-	95.5 J	-	133 J	-	118 J	-	138
PCB-148	74472-41-6	pg/L	64	14000	-	< 1.63 U	-	< 2.68 U	-	< 2.07 U	-	< 4.74 U	-	< 3.26 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 1.31 U	-	< 2.01 U	-	< 1.76 U	-	< 3.64 U	-	< 2.34 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 1.24 U	-	< 1.83 U	-	< 1.64 U	-	< 3.4 U	-	< 2.21 U
PCB-153/168	PCB-153/168	pg/L			-	82	-	96.3 J	-	139 J	-	122 J	-	136 JN
PCB-154	60145-22-4	pg/L	64	14000	-	< 1.52 U	-	< 2.46 U	-	3.35 JN	-	< 4.38 U	-	< 2.9 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
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					Location	23B-0023-PLW	23B-0023-PLW	23B-0024-PLW	23B-0024-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0026-PLW	23B-0026-PLW
					Sample Name	23B-0023-PLW-AS-F	23B-0023-PLW-AS-T	23B-0024-PLW-AS-F	23B-0024-PLW-AS-T	23B-0025-PLW-AS-F	23B-0025-PLW-AS-T	23B-0025-PLW-BS-F	23B-0025-PLW-BS-T	23B-0026-PLW-AS-F	23B-0026-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.25 - 2.25 ft	2.25 - 2.25 ft	1.9 - 1.9 ft	1.9 - 1.9 ft	1 - 1 ft	1 - 1 ft	5 - 5 ft	5 - 5 ft	2.3 - 2.3 ft	2.3 - 2.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 1.16 U	-	< 1.75 U	-	< 1.55 U	-	< 3.21 U	-	< 2.02 U
PCB-156/157	PCB-156/157	pg/L			-	11.9 J	-	10.9 JN	-	17 JN	-	15.9 J	-	16.1 JN
PCB-158	74472-42-7	pg/L	64	14000	-	10.9 JN	-	17.3 J	-	23.6 J	-	14.2 JN	-	15.4 JN
PCB-159	39635-35-3	pg/L	64	14000	-	< 1.78 U	-	< 3.47 U	-	< 3.1 U	-	< 4.34 U	-	< 4.11 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 1.35 U	-	< 2.19 U	-	< 1.7 U	-	< 3.89 U	-	< 2.57 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 1.18 U	-	< 1.92 U	-	< 1.5 U	-	< 3.42 U	-	< 2.24 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 2.13 U	-	< 4.13 U	-	< 3.71 U	-	< 5.2 U	-	< 4.79 U
PCB-164	74472-45-0	pg/L	64	14000	-	7.03 JN	-	6.41 JN	-	9.69 JN	-	11.7 JN	-	12.4 JN
PCB-165	74472-46-1	pg/L	64	14000	-	< 1.37 U	-	< 2.23 U	-	< 1.75 U	-	< 4 U	-	< 2.73 U
PCB-167	52663-72-6	pg/L	64	14000	-	4.83 JN	-	5.23 J	-	8.36 J	-	8.6 JN	-	5.87 JN
PCB-169	32774-16-6	pg/L	4	14000	-	< 3.03 U	-	< 7.23 U	-	< 5.75 U	-	< 6.97 U	-	< 4.95 U
PCB-170	35065-30-6	pg/L	64	14000	-	17.2	-	13.5 JN	-	23.7 J	-	20.5 JN	-	26.9
PCB-171/173	PCB-171/173	pg/L			-	< 4.78 U	-	< 8.34 U	-	7.36 JN	-	8.96 JN	-	< 11.6 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 4.59 U	-	< 7.82 U	-	< 6.16 U	-	< 9.63 U	-	< 11 U
PCB-174	38411-25-5	pg/L	64	14000	-	12.1	-	14.9	-	14.5	-	18.7 JN	-	19.8 J
PCB-175	40186-70-7	pg/L	64	14000	-	< 4.61 U	-	< 8.06 U	-	< 6.25 U	-	< 9.78 U	-	< 11.3 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 2.5 U	-	< 3.78 U	-	3.96 J	-	< 3.96 U	-	< 3.83 U
PCB-177	52663-70-4	pg/L	64	14000	-	9.37 J	-	8.62 JN	-	6.34 JN	-	10 JN	-	< 10.4 U
PCB-178	52663-67-9	pg/L	64	14000	-	< 3.2 U	-	< 4.66 U	-	< 4.93 U	-	< 4.94 U	-	< 4.95 U
PCB-179	52663-64-6	pg/L	64	14000	-	7.37 J	-	< 3.27 U	-	7.05 J	-	6.2 JN	-	7.45 J
PCB-180/193	PCB-180/193	pg/L			-	30.3 J+	-	37.5 J	-	37.7 JN	-	50.5 J	-	47.2 J
PCB-181	74472-47-2	pg/L	64	14000	-	< 4.09 U	-	< 7.04 U	-	< 5.5 U	-	< 8.59 U	-	< 10 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 3.85 U	-	< 6.72 U	-	< 5.18 U	-	< 8.1 U	-	< 9.27 U
PCB-183	52663-69-1	pg/L	64	14000	-	9.53 J	-	7.35 JN	-	10.8 JN	-	14.1 J	-	< 10.4 UJ
PCB-184	74472-48-3	pg/L	64	14000	-	< 2.36 U	-	< 3.54 U	-	< 3.73 U	-	< 3.74 U	-	< 3.56 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 4.63 U	-	< 8.13 U	-	< 6.87 U	-	< 10.7 U	-	< 11.3 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 2.1 U	-	< 3.14 U	-	< 3.34 U	-	< 3.34 U	-	< 3.26 U
PCB-187	52663-68-0	pg/L	64	14000	-	15.9	-	11 JN	-	13.2 JN	-	21.3 JN	-	22.4 J
PCB-188	74487-85-7	pg/L	64	14000	-	< 2.18 U	-	< 3.24 U	-	< 3.57 U	-	< 3.58 U	-	< 3.59 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 1.81 U	-	< 3.62 U	-	< 4.04 U	-	< 5.89 U	-	< 3.56 U
PCB-190	41411-64-7	pg/L	64	14000	-	3.1 JN	-	< 5.38 U	-	< 5.35 U	-	< 7.4 U	-	< 8.38 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 3.64 U	-	< 6.28 U	-	< 4.93 U	-	< 7.7 U	-	< 8.47 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 3.18 U	-	< 5.5 U	-	< 4.34 U	-	< 6.79 U	-	< 7.52 U
PCB-194	35694-08-7	pg/L	64	14000	-	4.16 J	-	3.67 JN	-	7.61 J	-	11.9 JN	-	12.5 J
PCB-195	52663-78-2	pg/L	64	14000	-	2.21 JN	-	< 2.18 U	-	< 4.08 U	-	< 9.14 U	-	< 3.31 U
PCB-196	42740-50-1	pg/L	64	14000	-	< 2.86 U	-	5.37 JN	-	3.66 JN	-	6.92 JN	-	< 3.23 U
PCB-197	33091-17-7	pg/L	64	14000	-	< 2.09 U	-	< 0.905 U	-	< 2 U	-	< 5.9 U	-	< 2.46 U
PCB-198/199	PCB-198/199	pg/L			-	7.46 JN	-	7.02 J	-	8.91 JN	-	8.27 JN	-	10.2 JN
PCB-200	52663-73-7	pg/L	64	14000	-	< 2.17 U	-	< 0.918 U	-	< 2.03 U	-	< 6.01 U	-	< 2.56 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 2.28 U	-	< 0.969 U	-	< 2.12 U	-	< 6.26 U	-	< 2.73 U
PCB-202	2136-99-4	pg/L	64	14000	-	1.71 JN	-	< 0.793 U	-	1.3 JN	-	< 5.14 U	-	< 2.16 U
PCB-203	52663-76-0	pg/L	64	14000	-	3.42 J	-	3.4 J	-	2.95 JN	-	9.95 JN	-	5.19 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 2.01 U	-	< 0.844 U	-	< 1.87 U	-	< 5.53 U	-	< 2.37 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 1.68 U	-	< 1.79 U	-	< 3.28 U	-	< 7.35 U	-	< 2.64 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 20 UJ	-	< 18.86 UJ	-	< 19.8 UJ	-	< 19.8 UJ	-	< 38.8 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 2.9 U	-	< 6.1 U	-	< 6.53 U	-	< 7.79 U	-	< 6.96 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 2.59 U	-	< 5.42 U	-	< 5.78 U	-	< 6.89 U	-	< 6.02 U
PCB-209	2051-24-3	pg/L	64	14000	-	7.36 JN	-	5.44 JN	-	10.2 JN	-	5 J	-	7.28 JN
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	7.36	-	5.44	-	10.2	-	5	-	7.28
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	105	-	92.9	-	125	-	150	-	124
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	462	-	598	-	829	-	722	-	819
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	19.0	-	19.5	-	24.4	-	37.0	-	27.9
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	4980	-	5820	-	6300	-	7960	-	4880
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	816	-	1170	-	1330	-	1630	-	1210
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	862	-	796	-	805	-	939	-	518
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	12.2	-	11.6	-	21.7	-	10.6	-	6.61
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 20 U	-	< 18.86 U	-	< 19.8 U	-	< 19.8 U	-	< 38.8 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1270	-	1520	-	1620	-	2300	-	1240
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	1430	-	1610	-	1530	-	2170	-	929

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0023-PLW	23B-0023-PLW	23B-0024-PLW	23B-0024-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0026-PLW	23B-0026-PLW
					Sample Name	23B-0023-PLW-AS-F	23B-0023-PLW-AS-T	23B-0024-PLW-AS-F	23B-0024-PLW-AS-T	23B-0025-PLW-AS-F	23B-0025-PLW-AS-T	23B-0025-PLW-BS-F	23B-0025-PLW-BS-T	23B-0026-PLW-AS-F	23B-0026-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.25 - 2.25 ft	2.25 - 2.25 ft	1.9 - 1.9 ft	1.9 - 1.9 ft	1 - 1 ft	1 - 1 ft	5 - 5 ft	5 - 5 ft	2.3 - 2.3 ft	2.3 - 2.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	31 J	44	32 J+	55	40 J+	56	39 J+	60	84 J+	59
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	0.17 J	0.18 J	< 2.0 U	0.17 J	0.18 J	0.16 J	0.16 J	0.17 J
Arsenic	7440-38-2	ug/L	0.018	150	0.39 J	0.40 J	0.29 J	0.42 J	0.41 J	0.45 J	0.40 J	0.40 J	0.42 J	0.53 J
Barium	7440-39-3	ug/L	380	220	32	33	33	36	32	36	32	35	33	36
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	13000	13000	14000	14000	13000	14000	13000	13000	14000	13000
Chromium, Total	7440-47-3	ug/L	100	44	0.66 J	0.87 J	0.80 J	< 2.0 U	0.74 J	< 2.0 U	0.79 J	< 2.0 U	0.78 J	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.17 J	0.21 J	0.17 J	0.22 J	0.17 J	0.20 J	0.17 J	0.22 J	0.17 J	0.20 J
Copper	7440-50-8	ug/L	80	5	1.9 J	1.7 J	1.6 J	1.7 J	1.6 J	1.7 J	1.9 J	1.9 J	1.8 J	1.7 J
Iron	7439-89-6	ug/L	1400	1000	480	840	560	950	540	940	680	940	520	910
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	1.3	< 1.0 U	1.5	< 1.0 U	1.4	1.1	1.5	< 1.0 U	1.5
Magnesium	7439-95-4	ug/L		82000	3100	3400	3500	3500	3400	3500	3400	3400	3500	3400
Manganese	7439-96-5	ug/L	43	93	75	100	85	110	84	110	83	110	84	100
Nickel	7440-02-0	ug/L	39	27	0.78 J	0.90 J	0.87 J	< 1.0 U	0.74 J	< 1.0 U	0.80 J	1.0 J+	0.93 J	< 1.0 U
Potassium	7440-09-7	ug/L		53000	2600	2800	2800	2800	2800	2900	2700	2800	2800	2800
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	51000	56000	59000	56000	57000	57000	56000	55000	58000	56000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.44 J	0.58 J	0.55 J	0.70 J	0.50 J	0.77 J	0.62 J	0.78 J	0.54 J	0.72 J
Zinc	7440-66-6	ug/L	600	11.8	6.1 J+	6.4	5.4 J+	5.9 J+	< 5.0 U	6.6 J+	7.2 J+	10 J+	5.3 J+	6.6 J+
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	4.4 J
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0023-PLW	23B-0023-PLW	23B-0024-PLW	23B-0024-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0026-PLW	23B-0026-PLW
					Sample Name	23B-0023-PLW-AS-F	23B-0023-PLW-AS-T	23B-0024-PLW-AS-F	23B-0024-PLW-AS-T	23B-0025-PLW-AS-F	23B-0025-PLW-AS-T	23B-0025-PLW-BS-F	23B-0025-PLW-BS-T	23B-0026-PLW-AS-F	23B-0026-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.25 - 2.25 ft	2.25 - 2.25 ft	1.9 - 1.9 ft	1.9 - 1.9 ft	1 - 1 ft	1 - 1 ft	5 - 5 ft	5 - 5 ft	2.3 - 2.3 ft	2.3 - 2.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	0.56 J+	-	0.56 J+	-	< 0.50 U	-	0.57 J+	-	< 0.50 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Styrene	100-42-5	ug/L	100	32	-	< 0.50 R	-	< 0.50 R	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.0 UJ	-	< 5.1 U	-	< 5.0 U	-	< 5.1 UJ	-	< 5.1 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.0 U	-	< 5.1 U	-	< 5.0 UJ	-	< 5.1 U	-	< 5.1 U
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U

Table 17
Surface Water Analytical Results
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Lower Neponset River
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					Location	23B-0023-PLW	23B-0023-PLW	23B-0024-PLW	23B-0024-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0026-PLW	23B-0026-PLW
					Sample Name	23B-0023-PLW-AS-F	23B-0023-PLW-AS-T	23B-0024-PLW-AS-F	23B-0024-PLW-AS-T	23B-0025-PLW-AS-F	23B-0025-PLW-AS-T	23B-0025-PLW-BS-F	23B-0025-PLW-BS-T	23B-0026-PLW-AS-F	23B-0026-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.25 - 2.25 ft	2.25 - 2.25 ft	1.9 - 1.9 ft	1.9 - 1.9 ft	1 - 1 ft	1 - 1 ft	5 - 5 ft	5 - 5 ft	2.3 - 2.3 ft	2.3 - 2.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.0 UJ	-	< 5.1 UJ	-	< 5.0 U	-	< 5.1 UJ	-	< 5.1 UJ	
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
FLUORENE	86-73-7	ug/L	29	19	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 UJ	
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.0 UJ	-	< 5.1 UJ	-	< 5.0 U	-	< 5.1 UJ	-	< 5.1 UJ	
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U	-	< 1.8 U	
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U	-	< 1.8 U	
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U	-	< 1.8 U	
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U	-	< 1.8 U	
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U	-	< 1.8 U	
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	2.5	-	2.6	-	2.8	-	2.6	-	2.5 J+	
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	4.7	-	5.7	-	7.2 J-	-	5.9	-	4.3	
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U	-	< 1.8 U	
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	< 1.8 U	-	< 1.9 U	-	0.30 J	-	0.32 J	-	0.28 J	
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.8 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U	-	< 1.8 U	
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U	-	< 1.8 U	
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.0	-	2.2	-	2.1	-	2.4	-	1.9	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.0	-	2.2	-	2.3	-	2.1	-	1.9	
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.0	-	3.1	-	4.3	-	4.1	-	3.9	
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U	-	< 1.8 U	
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.69 J	-	0.64 J	-	0.77 J	-	0.78 J	-	0.79 J	
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.7 U	-	0.32 J	-	< 1.8 U	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	4.6	-	4.6	-	5.6	-	5.6	-	6.9	
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.0	-	5.3	-	5.4	-	5.7	-	5.1	
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.31 J	-	0.33 J	-	0.31 J	-	0.28 J	-	0.28 J+	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.3	-	4.5	-	4.4	-	4.2	-	3.6	
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.8 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U	-	< 1.8 U	
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U	-	< 1.8 U	

Table 17
Surface Water Analytical Results
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Lower Neponset River
Boston, Massachusetts

				Location	23B-0023-PLW	23B-0023-PLW	23B-0024-PLW	23B-0024-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0025-PLW	23B-0026-PLW	23B-0026-PLW
				Sample Name	23B-0023-PLW-AS-F	23B-0023-PLW-AS-T	23B-0024-PLW-AS-F	23B-0024-PLW-AS-T	23B-0025-PLW-AS-F	23B-0025-PLW-AS-T	23B-0025-PLW-BS-F	23B-0025-PLW-BS-T	23B-0026-PLW-AS-F	23B-0026-PLW-AS-T
				Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.25 - 2.25 ft	2.25 - 2.25 ft	1.9 - 1.9 ft	1.9 - 1.9 ft	1 - 1 ft	1 - 1 ft	5 - 5 ft	5 - 5 ft	2.3 - 2.3 ft	2.3 - 2.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.8 U	-	< 1.9 U	-	< 1.7 U	-	< 1.8 U	-	< 1.8 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	9.04	-	8.88	-	8.63	-	8.45	-	8.4
Oxidation-Reduction Potential	ORP	mv			-	139.1	-	154.3	-	136.1	-	138.8	-	166.4
pH	PH	su			-	6.8	-	6.65	-	6.73	-	6.71	-	6.64
Specific Conductance	SC	us/cm			-	411	-	418	-	409.7	-	409.9	-	407.7
Temperature	TEMP	deg c			-	12.8	-	12.3	-	13.3	-	13.3	-	12.7
Turbidity	TURB	NTU			-	0.65	-	0.94	-	1.05	-	1.05	-	1.19

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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Boston, Massachusetts

					Location	23B-0027-PLW	23B-0027-PLW	23B-0028-PLW	23B-0028-PLW	23B-0029-PLW	23B-0029-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW
					Sample Name	23B-0027-PLW-AS-F	23B-0027-PLW-AS-T	23B-0028-PLW-AS-F	23B-0028-PLW-AS-T	23B-0029-PLW-AS-F	23B-0029-PLW-AS-T	23B-0030-PLW-AS-F	23B-0030-PLW-AS-T	23B-0030-PLW-BS-F	23B-0030-PLW-BS-T
					Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2 - 2 ft	2 - 2 ft	2.6 - 2.6 ft	2.6 - 2.6 ft	2 - 2 ft	2 - 2 ft	1 - 1 ft	1 - 1 ft	4.2 - 4.2 ft	4.2 - 4.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	0.017 J	-	< 0.50 U	-	< 0.51 U	-	< 0.51 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 4.71 U	-	< 2.59 U	-	3.38 JN	-	< 1.98 U	-	< 1.26 U
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 2.98 U	-	< 1.22 U	-	< 0.716 U	-	< 1.63 U	-	< 0.929 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 5.33 U	-	< 2.13 U	-	< 1.7 U	-	< 1.99 U	-	< 1.82 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 2.18 U	-	< 1.06 U	-	< 0.784 U	-	< 1.45 U	-	< 0.905 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 6.43 U	-	< 2.23 U	-	< 1.77 U	-	< 1.97 U	-	< 1.86 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 2.25 U	-	< 1.01 U	-	< 0.797 U	-	< 1.35 U	-	< 0.837 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 11.5 U	-	< 2.29 U	-	< 1.82 U	-	< 1.81 U	-	< 2.08 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 3.37 U	-	< 1.24 U	-	< 0.948 U	-	< 1.62 U	-	< 1.16 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 10.5 UJ	-	< 1.4 U	-	< 0.976 UJ	-	< 2.04 U	-	< 1.38 U
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 2.74 U	-	< 0.852 U	-	< 0.88 U	-	< 1.45 U	-	< 0.803 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 3.49 U	-	0.974 JN	-	2.87 J	-	< 1.25 U	-	< 0.796 U
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 3.21 U	-	< 1.12 U	-	< 0.891 U	-	< 1.46 U	-	< 0.962 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 2.37 U	-	< 0.879 U	-	< 0.829 U	-	< 1.42 U	-	< 0.77 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.68 UJ	-	< 9.90 UJ	-	< 9.88 UJ	-	< 9.86 UJ	-	< 9.67 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 1.92 U	-	< 1.07 U	-	< 0.929 U	-	< 1.58 U	-	< 1.06 U
OCDD	3268-87-9	pg/L	400	31	-	41.1 J-	-	4.76 JN	-	15.5 J	-	< 4.45 U	-	8.59 JN
OCDF	39001-02-0	pg/L	400	31	-	< 17 U	-	< 1.27 U	-	< 1.38 U	-	< 2.7 U	-	< 1.24 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 4.71 U	-	< 2.59 U	-	3.38	-	< 1.98 U	-	< 1.26 U
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 3.49 U	-	0.974 U	-	2.87	-	< 1.63 U	-	< 0.929 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 11.5 U	-	< 2.29 U	-	< 1.82 U	-	< 1.99 U	-	< 2.08 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 3.37 U	-	< 1.24 U	-	< 0.948 U	-	< 1.62 U	-	< 1.16 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 10.5 U	-	< 1.4 U	-	< 0.976 U	-	< 2.04 U	-	< 1.38 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 2.74 U	-	< 0.879 U	-	< 0.88 U	-	< 1.45 U	-	< 0.803 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.68 U	-	< 9.9 U	-	< 9.88 U	-	< 9.86 U	-	< 9.67 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 1.92 U	-	< 1.07 U	-	< 0.929 U	-	< 1.58 U	-	< 1.06 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	5.6 JN	-	7.94 J	-	43 J	-	17.7 J	-	10.7 JN
PCB-002	2051-61-8	pg/L	64	14000	-	< 2.56 U	-	< 3.36 U	-	< 3.75 U	-	< 3.68 U	-	< 3.12 U
PCB-003	2051-62-9	pg/L	64	14000	-	< 2.59 UJ	-	< 3.47 UJ	-	9.38 J	-	6.87 JN	-	< 3.22 UJ
PCB-004	13029-08-8	pg/L	64	14000	-	227 J	-	618 J	-	667 J	-	1180 J	-	2000 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 7.02 U	-	< 7.41 U	-	< 6.45 U	-	< 12.9 U	-	< 9.91 U
PCB-006	25569-80-6	pg/L	64	14000	-	< 5.78 U	-	< 6.06 UJ	-	9.75 JN	-	< 10.5 UJ	-	10.5 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 6.72 U	-	< 6.88 U	-	< 6.17 U	-	< 12 U	-	< 9.2 U
PCB-008	34883-43-7	pg/L	64	14000	-	14.4 JN	-	18.5 JN	-	42.1 JN	-	31.3 JN	-	28.2 JN
PCB-009	34883-39-1	pg/L	64	14000	-	< 6.13 U	-	< 6.21 U	-	< 5.59 U	-	< 10.8 U	-	< 8.31 U
PCB-010	33146-45-1	pg/L	64	14000	-	51.1 JN	-	85.6 JN	-	380	-	264	-	360

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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					Location	23B-0027-PLW	23B-0027-PLW	23B-0028-PLW	23B-0028-PLW	23B-0029-PLW	23B-0029-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW
					Sample Name	23B-0027-PLW-AS-F	23B-0027-PLW-AS-T	23B-0028-PLW-AS-F	23B-0028-PLW-AS-T	23B-0029-PLW-AS-F	23B-0029-PLW-AS-T	23B-0030-PLW-AS-F	23B-0030-PLW-AS-T	23B-0030-PLW-BS-F	23B-0030-PLW-BS-T
					Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2 - 2 ft	2 - 2 ft	2.6 - 2.6 ft	2.6 - 2.6 ft	2 - 2 ft	2 - 2 ft	1 - 1 ft	1 - 1 ft	4.2 - 4.2 ft	4.2 - 4.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	< 168 U	-	160 J	-	186 J	-	79.7 JN	-	119 J
PCB-012/013	PCB-12/13	pg/L			-	< 6.91 U	-	< 7.04 UJ	-	8.99 JN	-	< 12.2 U	-	8.8 JN
PCB-014	34883-41-5	pg/L	64	14000	-	< 6.84 U	-	< 7.01 U	-	< 6.16 U	-	< 12.2 U	-	< 9.37 U
PCB-015	2050-68-2	pg/L	64	14000	-	113 J	-	180 J	-	253 J	-	223 J	-	251 J
PCB-016	38444-78-9	pg/L	64	14000	-	< 11.6 U	-	32.3	-	34.7	-	30.3 J+	-	46 JN
PCB-017	37680-66-3	pg/L	64	14000	-	77.7	-	177 J	-	128 J	-	238	-	317 J
PCB-018/030	PCB-18/30	pg/L			-	74.6	-	137 J	-	117 J	-	191	-	272 J
PCB-019	38444-73-4	pg/L	64	14000	-	263 J	-	361 J	-	620 J	-	511 J	-	585 J
PCB-020/028	PCB-20/28	pg/L			-	74.4 J+	-	114 J	-	128 J	-	136	-	164 J
PCB-021/033	PCB-21/33	pg/L			-	< 8.05 U	-	21.6 JN	-	24 JN	-	< 13.8 U	-	16.4 J
PCB-022	38444-85-8	pg/L	64	14000	-	< 7.49 U	-	< 11.2 UJ	-	15.6 J	-	< 12.7 UJ	-	< 9.92 UJ
PCB-023	55720-44-0	pg/L	64	14000	-	< 8.21 U	-	< 12.9 U	-	< 12.6 U	-	< 14.7 U	-	< 11.4 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 8.42 U	-	< 10 U	-	< 9.32 U	-	< 12.2 U	-	< 8.29 U
PCB-025	55712-37-3	pg/L	64	14000	-	22.2 JN	-	42.2 J	-	20.9 J	-	68.3	-	82.2 J
PCB-026/029	PCB-26/29	pg/L			-	47.6	-	94.3 J	-	55.1 J	-	134 JN	-	192 J
PCB-027	38444-76-7	pg/L	64	14000	-	142	-	165 J	-	275 J	-	212	-	249 J
PCB-031	16606-02-3	pg/L	64	14000	-	38.5 J+	-	81.3 JN	-	69.9 J	-	135	-	156 J
PCB-032	38444-77-8	pg/L	64	14000	-	62.1 JN	-	166 J	-	256 J	-	219	-	244 J
PCB-034	37680-68-5	pg/L	64	14000	-	< 9.07 U	-	< 13.4 U	-	< 12.8 U	-	< 15.2 U	-	< 11.9 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 8.46 U	-	< 11.8 U	-	< 11.5 U	-	< 13.4 U	-	< 10.5 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 7.56 U	-	< 10.5 U	-	< 10.1 U	-	< 12 U	-	< 9.32 U
PCB-037	38444-90-5	pg/L	64	14000	-	13.7 J	-	18.4 J	-	25.6 JN	-	18.3	-	22.2 J
PCB-038	53555-66-1	pg/L	64	14000	-	< 8.11 U	-	< 11.6 U	-	< 11 U	-	< 13.3 U	-	< 10.3 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 8.17 U	-	< 11.8 U	-	< 11.2 U	-	< 13.4 U	-	< 10.4 U
PCB-040/071	PCB-40/71	pg/L			-	61.3	-	63.4 J	-	110 J	-	82.7	-	92.5 J
PCB-041	52663-59-9	pg/L	64	14000	-	< 6.73 U	-	< 5.43 UJ	-	6.87 JN	-	< 8.77 U	-	< 6.07 UJ
PCB-042	36559-22-5	pg/L	64	14000	-	34.2	-	48.1 J	-	73.9 J	-	65.4	-	62.7 J
PCB-043	70362-46-8	pg/L	64	14000	-	5.78 J	-	6.27 JN	-	15.6	-	8.33 JN	-	8.72 JN
PCB-044/047/065	PCB-44/47/65	pg/L			-	216	-	240 J	-	379 J	-	329	-	326 J
PCB-045	70362-45-7	pg/L	64	14000	-	26.5 J	-	22.6	-	25.3 JN	-	29.9 JN	-	26.2 JN
PCB-046	41464-47-5	pg/L	64	14000	-	19.9	-	26.9 J	-	35 J	-	28.1	-	28.1 J
PCB-048	70362-47-9	pg/L	64	14000	-	9.28 J	-	17.2 J	-	26 J	-	14 JN	-	17.2 JN
PCB-049/069	PCB-49/69	pg/L			-	145	-	178 J	-	248 J	-	221	-	223 J
PCB-050/053	PCB-50/53	pg/L			-	142	-	160	-	219	-	192	-	195
PCB-051	68194-04-7	pg/L	64	14000	-	17.2	-	36.5	-	64.9	-	32.9 JN	-	43.7
PCB-052	35693-99-3	pg/L	64	14000	-	247	-	263 J	-	381 J	-	325	-	347 J
PCB-054	15968-05-5	pg/L	64	14000	-	14	-	12.7 JN	-	20.2 J	-	14.8	-	14.6 JN
PCB-055	74338-24-2	pg/L	64	14000	-	< 5.58 U	-	< 4.65 U	-	< 5.94 U	-	< 6.14 U	-	< 4.47 U
PCB-056	41464-43-1	pg/L	64	14000	-	14.5	-	17 J	-	18.6 J	-	19.9	-	17.1 J
PCB-057	70424-67-8	pg/L	64	14000	-	< 6.15 U	-	< 5.2 U	-	< 6.56 U	-	< 6.88 U	-	< 5.01 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 5.54 U	-	< 4.53 U	-	< 5.77 U	-	< 5.99 U	-	< 4.36 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	17.6 J	-	17.9 J	-	31.2 J	-	22.7 J	-	26.5 J
PCB-060	33025-41-1	pg/L	64	14000	-	< 6.53 U	-	< 5.57 UJ	-	11.4 JN	-	< 7.37 U	-	6.61 J
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	88.1	-	90.3 J	-	141 J	-	112	-	122 J
PCB-063	74472-34-7	pg/L	64	14000	-	< 6.57 U	-	< 5.58 UJ	-	8.76 J	-	< 7.38 U	-	5.63 JN
PCB-064	52663-58-8	pg/L	64	14000	-	43.5	-	48.5 JN	-	86.5 J	-	63.1	-	71.8 J
PCB-066	32598-10-0	pg/L	64	14000	-	57.6	-	58.8 J	-	95.2 JN	-	74.8	-	72.4 J
PCB-067	73575-53-8	pg/L	64	14000	-	< 5.26 U	-	< 4.39 U	-	< 5.59 U	-	< 5.81 U	-	< 4.23 U
PCB-068	73575-52-7	pg/L	64	14000	-	< 6.08 U	-	< 5.26 UJ	-	5.06 JN	-	6.5 J	-	6.31 JN
PCB-072	41464-42-0	pg/L	64	14000	-	< 6.17 U	-	< 4.88 UJ	-	6.94 JN	-	< 6.45 U	-	4.61 JN
PCB-073	74338-23-1	pg/L	64	14000	-	6.09 JN	-	4.27 JN	-	7.99 JN	-	11.8 J	-	4.81 JN
PCB-077	32598-13-3	pg/L	64	14000	-	< 5.5 U	-	5.37 J	-	7.69 JN	-	8.28 J	-	8.12 J
PCB-078	70362-49-1	pg/L	64	14000	-	< 6.05 U	-	< 5.1 U	-	< 6.42 U	-	< 6.74 U	-	< 4.91 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 5.29 U	-	< 4.25 U	-	< 5.37 U	-	< 5.62 U	-	< 4.09 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 5.73 U	-	< 4.73 U	-	< 5.99 U	-	< 6.25 U	-	< 4.55 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 5.79 U	-	< 4.72 U	-	< 6 U	-	< 6.24 U	-	< 4.54 U
PCB-082	52663-62-4	pg/L	64	14000	-	18.8 JN	-	< 7.57 UJ	-	19.4 J	-	< 8.16 UJ	-	15.4 J
PCB-083	60145-20-2	pg/L	64	14000	-	12.9 JN	-	< 10 UJ	-	15.2 J	-	< 10.8 UJ	-	11 JN
PCB-084	52663-60-2	pg/L	64	14000	-	60.2 JN	-	41.4 J	-	62.3 J	-	53	-	56.1 J

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0027-PLW	23B-0027-PLW	23B-0028-PLW	23B-0028-PLW	23B-0029-PLW	23B-0029-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW
					Sample Name	23B-0027-PLW-AS-F	23B-0027-PLW-AS-T	23B-0028-PLW-AS-F	23B-0028-PLW-AS-T	23B-0029-PLW-AS-F	23B-0029-PLW-AS-T	23B-0030-PLW-AS-F	23B-0030-PLW-AS-T	23B-0030-PLW-BS-F	23B-0030-PLW-BS-T
					Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2 - 2 ft	2 - 2 ft	2.6 - 2.6 ft	2.6 - 2.6 ft	2 - 2 ft	2 - 2 ft	1 - 1 ft	1 - 1 ft	4.2 - 4.2 ft	4.2 - 4.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	26.9 JN	-	12.5 JN	-	30.4 J	-	15.1 JN	-	21.1 J	
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	130	-	57.8 J	-	113 J	-	76.9	-	73.6 J	
PCB-088	55215-17-3	pg/L	64	14000	-	< 7.69 U	-	< 8.22 U	-	< 10.3 U	-	< 8.87 U	-	< 6.51 U	
PCB-089	73575-57-2	pg/L	64	14000	-	< 7.11 U	-	< 7.58 U	-	< 8.23 U	-	< 8.18 U	-	< 6 U	
PCB-090/101/113	PCB-90/101/113	pg/L			-	223	-	105 J	-	179 J	-	138	-	137 J	
PCB-091	68194-05-8	pg/L	64	14000	-	44.1	-	24.8 J	-	42.2 J	-	34.7	-	40.3 J	
PCB-092	52663-61-3	pg/L	64	14000	-	67.7	-	29.4 JN	-	58 J	-	39.7 JN	-	51.4 J	
PCB-093/100	PCB-93/100	pg/L			-	< 7.45 U	-	< 7.89 U	-	< 8.96 U	-	< 8.51 U	-	< 6.24 U	
PCB-094	73575-55-0	pg/L	64	14000	-	< 8.07 U	-	< 8.8 UJ	-	< 9.61 UJ	-	< 9.49 U	-	< 6.96 UJ	
PCB-095	38379-99-6	pg/L	64	14000	-	209	-	121 J	-	190 J	-	154	-	151 J	
PCB-096	73575-54-9	pg/L	64	14000	-	2.66 JN	-	< 2.35 U	-	< 3.64 U	-	< 3.83 U	-	< 4.12 U	
PCB-098	60233-25-2	pg/L	64	14000	-	< 6.05 U	-	< 7.05 U	-	< 8.25 U	-	< 7.61 U	-	< 5.58 U	
PCB-099	38380-01-7	pg/L	64	14000	-	75.4	-	46.1 J	-	79.6 J	-	57.1	-	54.5 J	
PCB-102	68194-06-9	pg/L	64	14000	-	8.22 J	-	< 6.68 UJ	-	< 6.54 UJ	-	< 7.2 U	-	< 5.28 UJ	
PCB-103	60145-21-3	pg/L	64	14000	-	< 6.87 U	-	< 7.68 UJ	-	< 8.32 UJ	-	< 8.28 U	-	< 6.08 UJ	
PCB-104	56558-16-8	pg/L	64	14000	-	< 2.16 U	-	< 2.04 U	-	< 3.12 U	-	< 3.31 U	-	< 3.57 U	
PCB-105	32598-14-4	pg/L	64	14000	-	27.5 J	-	13 J	-	28.8 JN	-	18.4	-	18.9 JN	
PCB-106	70424-69-0	pg/L	64	14000	-	< 4.74 U	-	< 5.33 U	-	< 5.91 U	-	< 5.75 U	-	< 4.22 U	
PCB-107	70424-68-9	pg/L	64	14000	-	8.9 JN	-	< 5.22 UJ	-	10.3 J	-	< 5.63 U	-	< 4.13 UJ	
PCB-108/124	PCB-108/124	pg/L			-	7.47 J	-	< 5.75 U	-	< 6.32 U	-	< 6.2 U	-	< 4.55 U	
PCB-110	38380-03-9	pg/L	64	14000	-	255	-	120 J	-	183 J	-	143	-	155 J	
PCB-111	39635-32-0	pg/L	64	14000	-	< 5.21 U	-	< 5.5 U	-	< 6.03 U	-	< 5.93 U	-	< 4.35 U	
PCB-112	74472-36-9	pg/L	64	14000	-	< 4.36 U	-	< 4.63 U	-	< 5.04 U	-	< 5 U	-	< 3.67 U	
PCB-114	74472-37-0	pg/L	64	14000	-	< 4.69 U	-	< 5.47 U	-	< 5.11 U	-	< 5.8 U	-	< 3.99 U	
PCB-115	74472-38-1	pg/L	64	14000	-	< 4.07 U	-	< 4.7 U	-	5.15 JN	-	< 5.07 U	-	< 3.72 U	
PCB-117	68194-11-6	pg/L	64	14000	-	6.93 JN	-	< 5.77 UJ	-	7.56 JN	-	6.54 JN	-	< 4.57 UJ	
PCB-118	31508-00-6	pg/L	64	14000	-	118	-	58.2 J	-	100 J	-	64.8	-	66.5 J	
PCB-120	68194-12-7	pg/L	64	14000	-	< 4.25 U	-	< 4.62 U	-	< 4.96 U	-	< 4.99 U	-	< 3.66 U	
PCB-121	56558-18-0	pg/L	64	14000	-	< 4.67 U	-	< 5.11 U	-	< 5.49 U	-	< 5.51 U	-	< 4.04 U	
PCB-122	76842-07-4	pg/L	64	14000	-	< 6.07 U	-	< 6.99 U	-	< 6.72 U	-	< 7.41 U	-	< 5.09 U	
PCB-123	65510-44-3	pg/L	64	14000	-	< 4.86 U	-	< 5.04 U	-	< 5.47 U	-	< 5.44 U	-	< 3.99 U	
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 2.22 U	-	< 4.71 U	-	< 3.68 U	-	< 5.83 U	-	< 4.32 U	
PCB-127	39635-33-1	pg/L	64	14000	-	< 4.77 U	-	< 5.74 U	-	< 5.35 U	-	< 6.03 U	-	< 4.27 U	
PCB-128/166	PCB-128/166	pg/L			-	31.6	-	15.3 J	-	23.9 J	-	13.9 JN	-	14.4 J	
PCB-129/138/163	PCB-129/138/163	pg/L			-	255	-	69.9 J	-	157 J	-	99.4	-	88.8 J	
PCB-130	52663-66-8	pg/L	64	14000	-	18.1 JN	-	< 7.26 UJ	-	9.7 JN	-	< 4.59 U	-	9.22 J	
PCB-131	61798-70-7	pg/L	64	14000	-	< 5.56 U	-	< 6.42 U	-	< 4.42 U	-	< 4.06 U	-	< 3.76 U	
PCB-132	38380-05-1	pg/L	64	14000	-	78	-	26.5 J	-	49.3 J	-	34.2	-	25.2 JN	
PCB-133	35694-04-3	pg/L	64	14000	-	< 5.1 U	-	< 5.74 U	-	< 3.8 U	-	< 3.62 U	-	< 3.36 U	
PCB-134	52704-70-8	pg/L	64	14000	-	11.4 JN	-	< 8.45 UJ	-	13.9 J	-	< 5.34 U	-	< 4.95 UJ	
PCB-135/151	PCB-135/151	pg/L			-	54.9	-	22.3 JN	-	41 J	-	25.4 JN	-	21.2 JN	
PCB-136	38411-22-2	pg/L	64	14000	-	24.5 J	-	7.73 JN	-	19.7 J	-	15.7	-	8.29 JN	
PCB-137	35694-06-5	pg/L	64	14000	-	10.4	-	< 6.12 UJ	-	8.46 JN	-	< 3.87 U	-	4.02 JN	
PCB-139/140	PCB-139/140	pg/L			-	< 5.08 U	-	< 5.71 U	-	< 3.83 U	-	< 3.61 U	-	< 3.35 U	
PCB-141	52712-04-6	pg/L	64	14000	-	29.3 JN	-	10.2 JN	-	19.7 J	-	13.4	-	11.5 JN	
PCB-142	41411-61-4	pg/L	64	14000	-	< 5.67 U	-	< 6.59 U	-	< 4.31 U	-	< 4.16 U	-	< 3.86 U	
PCB-143	68194-15-0	pg/L	64	14000	-	< 5.43 U	-	< 5.54 U	-	< 3.76 U	-	< 3.5 U	-	< 3.25 U	
PCB-144	68194-14-9	pg/L	64	14000	-	6.42 JN	-	< 6.05 UJ	-	< 4.04 UJ	-	< 3.82 U	-	< 3.54 UJ	
PCB-145	74472-40-5	pg/L	64	14000	-	< 3.85 U	-	< 4.9 U	-	< 3.28 U	-	< 2.99 U	-	< 2.75 U	
PCB-146	51908-16-8	pg/L	64	14000	-	21.5	-	7.34 JN	-	16.1 JN	-	7.21 JN	-	11.2 J	
PCB-147/149	PCB-147/149	pg/L			-	139	-	54.7 J	-	83.9 JN	-	59.5	-	67.2 J	
PCB-148	74472-41-6	pg/L	64	14000	-	< 5.25 U	-	< 5.92 U	-	< 3.95 U	-	< 3.74 U	-	< 3.47 U	
PCB-150	68194-08-1	pg/L	64	14000	-	< 3.98 U	-	< 5.07 U	-	< 3.46 U	-	< 3.1 U	-	< 2.84 U	
PCB-152	68194-09-2	pg/L	64	14000	-	< 3.76 U	-	< 4.61 U	-	< 3.08 U	-	< 2.82 U	-	< 2.59 U	
PCB-153/168	PCB-153/168	pg/L			-	149	-	56 J	-	103 J	-	60.9	-	60 JN	
PCB-154	60145-22-4	pg/L	64	14000	-	< 4.68 U	-	< 5.51 U	-	< 3.68 U	-	< 3.48 U	-	< 3.23 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0027-PLW	23B-0027-PLW	23B-0028-PLW	23B-0028-PLW	23B-0029-PLW	23B-0029-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW
					Sample Name	23B-0027-PLW-AS-F	23B-0027-PLW-AS-T	23B-0028-PLW-AS-F	23B-0028-PLW-AS-T	23B-0029-PLW-AS-F	23B-0029-PLW-AS-T	23B-0030-PLW-AS-F	23B-0030-PLW-AS-T	23B-0030-PLW-BS-F	23B-0030-PLW-BS-T
					Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2 - 2 ft	2 - 2 ft	2.6 - 2.6 ft	2.6 - 2.6 ft	2 - 2 ft	2 - 2 ft	1 - 1 ft	1 - 1 ft	4.2 - 4.2 ft	4.2 - 4.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 3.44 U	-	< 4.24 U	-	< 2.84 U	-	< 2.59 U	-	< 2.38 U
PCB-156/157	PCB-156/157	pg/L			-	15.2 JN	-	7.28 JN	-	13.8 JN	-	9.88 J	-	7.66 JN
PCB-158	74472-42-7	pg/L	64	14000	-	17.7 JN	-	< 4.47 UJ	-	18.4 J	-	9.94	-	5.93 JN
PCB-159	39635-35-3	pg/L	64	14000	-	< 2.82 U	-	< 5.39 U	-	< 4.16 U	-	< 4.46 U	-	< 3.2 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 4.14 U	-	< 5.13 U	-	< 3.42 U	-	< 3.24 U	-	< 3 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 3.62 U	-	< 4.38 U	-	< 2.9 U	-	< 2.77 U	-	< 2.57 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 3.29 U	-	< 6.39 U	-	< 4.97 U	-	< 5.29 U	-	< 3.8 U
PCB-164	74472-45-0	pg/L	64	14000	-	15	-	< 4.54 UJ	-	9.09 J	-	< 2.87 U	-	4.61 JN
PCB-165	74472-46-1	pg/L	64	14000	-	< 4.41 U	-	< 5.04 U	-	< 3.34 U	-	< 3.19 U	-	< 2.95 U
PCB-167	52663-72-6	pg/L	64	14000	-	7.14 JN	-	< 5.99 UJ	-	4.2 JN	-	< 4.95 U	-	< 3.56 UJ
PCB-169	32774-16-6	pg/L	4	14000	-	< 3.5 U	-	< 9.32 U	-	< 8.05 U	-	< 6.29 U	-	< 5.38 U
PCB-170	35065-30-6	pg/L	64	14000	-	21	-	< 9.51 UJ	-	17.7 JN	-	12.8 JN	-	< 6.23 UJ
PCB-171/173	PCB-171/173	pg/L			-	< 8.31 U	-	< 8.99 U	-	6.89 JN	-	< 8.14 U	-	< 5.83 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 7.83 U	-	< 8.62 U	-	< 5.98 U	-	< 7.8 U	-	< 5.59 U
PCB-174	38411-25-5	pg/L	64	14000	-	17.2 J	-	< 7.91 UJ	-	12.2 JN	-	< 7.16 U	-	< 5.13 UJ
PCB-175	40186-70-7	pg/L	64	14000	-	< 8.08 U	-	< 8.74 U	-	< 6.11 U	-	< 7.91 U	-	< 5.66 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 2.15 U	-	< 3.5 U	-	< 4.65 U	-	< 4.15 U	-	< 3.5 U
PCB-177	52663-70-4	pg/L	64	14000	-	12.1	-	< 8.23 UJ	-	7.49 JN	-	< 7.45 U	-	< 5.34 UJ
PCB-178	52663-67-9	pg/L	64	14000	-	< 2.77 U	-	< 4.34 U	-	< 5.87 U	-	< 5.14 U	-	< 4.34 U
PCB-179	52663-64-6	pg/L	64	14000	-	6.42 JN	-	< 3.03 UJ	-	8.8 JN	-	< 3.59 U	-	< 3.03 UJ
PCB-180/193	PCB-180/193	pg/L			-	43.9 J	-	19.1 J	-	33.6 J	-	30 J+	-	19.2 JN
PCB-181	74472-47-2	pg/L	64	14000	-	< 7.15 U	-	< 7.7 U	-	< 5.35 U	-	< 6.98 U	-	< 4.99 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 6.61 U	-	< 7.21 U	-	< 5.01 U	-	< 6.53 U	-	< 4.67 U
PCB-183	52663-69-1	pg/L	64	14000	-	11.5 J	-	< 8.18 UJ	-	7.56 JN	-	< 7.4 U	-	< 5.3 UJ
PCB-184	74472-48-3	pg/L	64	14000	-	< 2 U	-	< 3.25 U	-	< 4.37 U	-	< 3.85 U	-	< 3.25 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 8.04 U	-	< 8.97 U	-	< 6.25 U	-	< 8.12 U	-	< 5.81 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 1.82 U	-	< 2.91 U	-	< 3.89 U	-	< 3.45 U	-	< 2.92 U
PCB-187	52663-68-0	pg/L	64	14000	-	21 J	-	7.07 JN	-	19 J	-	17.3 J	-	11.4 J
PCB-188	74487-85-7	pg/L	64	14000	-	< 2.01 U	-	< 2.85 U	-	< 3.96 U	-	< 3.38 U	-	< 2.85 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 3.44 U	-	< 3.48 U	-	< 4.65 U	-	< 4.16 U	-	< 3.86 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 6.3 U	-	< 6.96 U	-	< 5.09 U	-	< 6.21 U	-	< 4.56 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 6.04 U	-	< 6.93 U	-	< 4.83 U	-	< 6.27 U	-	< 4.49 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 5.37 U	-	< 6.06 U	-	< 4.23 U	-	< 5.49 U	-	< 3.93 U
PCB-194	35694-08-7	pg/L	64	14000	-	7.98 J	-	5.87 J	-	7.14 J	-	< 5.19 U	-	3.79 JN
PCB-195	52663-78-2	pg/L	64	14000	-	< 3.26 U	-	< 2.88 U	-	< 3.95 U	-	< 5.5 U	-	< 3.67 U
PCB-196	42740-50-1	pg/L	64	14000	-	5.22 J	-	< 2.76 UJ	-	3.56 JN	-	< 3.14 U	-	< 2.65 UJ
PCB-197	33091-17-7	pg/L	64	14000	-	< 1.66 U	-	< 2.09 U	-	< 1.79 U	-	< 2.38 U	-	< 2.01 U
PCB-198/199	PCB-198/199	pg/L			-	8.46 JN	-	4.19 J	-	2.59 JN	-	5.38 JN	-	6.26 J
PCB-200	52663-73-7	pg/L	64	14000	-	< 1.73 U	-	< 2.21 U	-	2.18 JN	-	< 2.52 U	-	< 2.13 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 1.84 U	-	< 2.27 U	-	< 1.92 U	-	< 2.59 U	-	< 2.19 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 1.46 U	-	< 1.82 U	-	2.6 JN	-	< 2.07 U	-	< 1.75 U
PCB-203	52663-76-0	pg/L	64	14000	-	3.82 JN	-	< 2.24 UJ	-	3.72 JN	-	< 2.55 U	-	< 2.15 UJ
PCB-204	74472-52-9	pg/L	64	14000	-	< 1.6 U	-	< 1.97 U	-	< 1.68 U	-	< 2.25 U	-	< 1.9 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 2.59 U	-	< 2.33 U	-	< 3.18 U	-	< 4.45 U	-	< 2.98 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 19.42 UJ	-	< 19.8 UJ	-	< 19.8 UJ	-	< 19.8 UJ	-	< 19.4 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 4.87 U	-	< 5.93 U	-	< 6.69 U	-	< 5.23 U	-	< 6.51 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 4.22 U	-	< 5.13 U	-	< 5.71 U	-	< 4.52 U	-	< 5.63 U
PCB-209	2051-24-3	pg/L	64	14000	-	9.78	-	6.15 J	-	6.51 J	-	< 4.45 U	-	4.67 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	9.78	-	6.15	-	6.51	-	< 4.45 U	-	4.67
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	133	-	26.2	-	113	-	60.1	-	30.6
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	884	-	277	-	591	-	349	-	339
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	25.5	-	10.1	-	21.8	-	5.38	-	10.1
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	4750	-	4750	-	7250	-	6570	-	8100
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	1300	-	629	-	1120	-	801	-	852
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	406	-	1060	-	1550	-	1780	-	2780
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	5.6	-	7.94	-	52.4	-	24.6	-	10.7
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 19.42 U	-	< 19.8 U	-	< 19.8 U	-	< 19.8 U	-	< 19.4 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1170	-	1320	-	2030	-	1660	-	1730
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	816	-	1410	-	1770	-	1890	-	2350

Table 17
Surface Water Analytical Results
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				Location	23B-0027-PLW	23B-0027-PLW	23B-0028-PLW	23B-0028-PLW	23B-0029-PLW	23B-0029-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW
				Sample Name	23B-0027-PLW-AS-F	23B-0027-PLW-AS-T	23B-0028-PLW-AS-F	23B-0028-PLW-AS-T	23B-0029-PLW-AS-F	23B-0029-PLW-AS-T	23B-0030-PLW-AS-F	23B-0030-PLW-AS-T	23B-0030-PLW-BS-F	23B-0030-PLW-BS-T
				Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2 - 2 ft	2 - 2 ft	2.6 - 2.6 ft	2.6 - 2.6 ft	2 - 2 ft	2 - 2 ft	1 - 1 ft	1 - 1 ft	4.2 - 4.2 ft	4.2 - 4.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	ug/L	2000	87	48 J+	58	36	46	22 J+	97	27 J+	34	< 20 U	35
Antimony	7440-36-0	ug/L	0.78	190	0.16 J	0.17 J	< 2.0 U	< 2.0 U	< 2.0 U	0.16 J	0.18 J	< 2.0 U	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150	0.45 J	0.53 J	0.44 J	0.51 J	0.31 J	0.69 J	0.32 J	0.50 J	0.32 J	0.46 J
Barium	7440-39-3	ug/L	380	220	33	35	42	42	41	43	37	40	38	40
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	13000	13000	17000	16000	16000	16000	15000	16000	15000	16000
Chromium, Total	7440-47-3	ug/L	100	44	0.82 J	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.77 J	< 2.0 U	< 2.0 U	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.18 J	0.25 J	0.20 J	0.27 J	0.20 J	0.33 J	0.22 J	0.25 J	0.18 J	0.20 J
Copper	7440-50-8	ug/L	80	5	1.7 J	2.1	1.4 J	1.5 J	1.2 J	2.8	1.5 J	1.4 J	1.0 J	2.0
Iron	7439-89-6	ug/L	1400	1000	680	880	1000	1200	860	1500	680	1200	470	1200
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	1.6	1.4	1.2 J+	< 1.0 U	2.6	< 1.0 U	1.0	< 1.0 U	1.3
Magnesium	7439-95-4	ug/L		82000	3400	3300	4100	4100	3900	4100	3900	3900	3800	4000
Manganese	7439-96-5	ug/L	43	93	81	100	130	130	130	150	120	140	120	130
Nickel	7440-02-0	ug/L	39	27	0.77 J	1.2 J+	1.0 J+	1.2	< 1.0 U	1.1	0.80 J	1.2 J+	< 1.0 U	0.90 J
Potassium	7440-09-7	ug/L		53000	2800	2700	2900	2900	2700	2900	2700	2800	2700	2800
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	56000	53000	71000	71000	68000	70000	70000	69000	67000	68000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.56 J	0.77 J	0.64 J	0.78 J	0.55 J	0.94 J	0.56 J	0.72 J	0.41 J	0.70 J
Zinc	7440-66-6	ug/L	600	11.8	5.5 J+	7.8 J+	10	6.3 J+	< 5.0 U	8.8 J+	6.1 J+	5.7 J+	< 5.0 U	7.1 J+
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 R	< 0.20 UJ	< 0.20 R	< 0.20 UJ	< 0.20 U	< 0.20 U	< 0.20 R	< 0.20 UJ
Total Cyanide														
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	11	-	< 10 U	-	< 10 U	-	< 10 U
Hexavalent Chromium														
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 R	-	< 10 R	-	< 10 R	-	< 10 R	-
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.36 J
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	0.56 J
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	< 0.50 U	-	0.66	-	< 0.50 U	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	0.16 J	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	0.24 J	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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					Location	23B-0027-PLW	23B-0027-PLW	23B-0028-PLW	23B-0028-PLW	23B-0029-PLW	23B-0029-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW
					Sample Name	23B-0027-PLW-AS-F	23B-0027-PLW-AS-T	23B-0028-PLW-AS-F	23B-0028-PLW-AS-T	23B-0029-PLW-AS-F	23B-0029-PLW-AS-T	23B-0030-PLW-AS-F	23B-0030-PLW-AS-T	23B-0030-PLW-BS-F	23B-0030-PLW-BS-T
					Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2 - 2 ft	2 - 2 ft	2.6 - 2.6 ft	2.6 - 2.6 ft	2 - 2 ft	2 - 2 ft	1 - 1 ft	1 - 1 ft	4.2 - 4.2 ft	4.2 - 4.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	0.11 J	-	< 0.50 U	-	0.12 J	
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	0.42 J	-	< 0.50 U	-	< 0.50 U	
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	1.3	-	< 0.50 U	-	< 0.50 U	
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	0.56	-	< 0.50 U	-	< 0.50 U	
Styrene	100-42-5	ug/L	100	32	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	1.8 J	-	< 0.50 U	-	< 0.50 U	
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ	
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.1 U	-	< 5.1 UJ	-	< 5.1 U	-	< 5.1 U	-	< 5.0 UJ	
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ	
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ	
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
Acetophenone	98-86-2	ug/L	190		-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0027-PLW	23B-0027-PLW	23B-0028-PLW	23B-0028-PLW	23B-0029-PLW	23B-0029-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW
					Sample Name	23B-0027-PLW-AS-F	23B-0027-PLW-AS-T	23B-0028-PLW-AS-F	23B-0028-PLW-AS-T	23B-0029-PLW-AS-F	23B-0029-PLW-AS-T	23B-0030-PLW-AS-F	23B-0030-PLW-AS-T	23B-0030-PLW-BS-F	23B-0030-PLW-BS-T
					Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2 - 2 ft	2 - 2 ft	2.6 - 2.6 ft	2.6 - 2.6 ft	2 - 2 ft	2 - 2 ft	1 - 1 ft	1 - 1 ft	4.2 - 4.2 ft	4.2 - 4.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.1 UJ	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
FLUORENE	86-73-7	ug/L	29	19	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.1 UJ	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.1 UJ	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	2.7	-	2.7	-	2.7	-	2.9 J+	-	2.6	
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	6.2 J-	-	3.8	-	3.8	-	3.8	-	4.0	
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.29 J	-	< 1.8 U	-	0.28 J	-	0.30 J	-	< 1.9 U	
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.1	-	2.0	-	1.9	-	2.1	-	1.9	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.3	-	2.3	-	2.3	-	2.7	-	2.3	
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.7	-	3.9	-	3.8	-	3.8	-	4.0	
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.80 J	-	0.72 J	-	0.81 J	-	0.97 J	-	0.82 J	
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	5.1	-	5.3	-	5.4	-	5.8	-	5.2	
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.4	-	5.4	-	5.5	-	5.6	-	5.3	
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.29 J	-	0.34 J	-	0.34 J	-	0.40 J+	-	0.33 J	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.3	-	3.6	-	3.7	-	4.1	-	3.6	
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0027-PLW	23B-0027-PLW	23B-0028-PLW	23B-0028-PLW	23B-0029-PLW	23B-0029-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW	23B-0030-PLW
				Sample Name	23B-0027-PLW-AS-F	23B-0027-PLW-AS-T	23B-0028-PLW-AS-F	23B-0028-PLW-AS-T	23B-0029-PLW-AS-F	23B-0029-PLW-AS-T	23B-0030-PLW-AS-F	23B-0030-PLW-AS-T	23B-0030-PLW-BS-F	23B-0030-PLW-BS-T
				Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2 - 2 ft	2 - 2 ft	2.6 - 2.6 ft	2.6 - 2.6 ft	2 - 2 ft	2 - 2 ft	1 - 1 ft	1 - 1 ft	4.2 - 4.2 ft	4.2 - 4.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.68	-	8.61	-	8.49	-	8.66	-	8.41
Oxidation-Reduction Potential	ORP	mv			-	140.4	-	181.6	-	3.38	-	154.3	-	162.9
pH	PH	su			-	6.87	-	6.92	-	6.91	-	6.86	-	6.84
Specific Conductance	SC	us/cm			-	406.2	-	495.6	-	497	-	493.2	-	493.1
Temperature	TEMP	deg c			-	12.5	-	13.7	-	13.5	-	13.3	-	13.2
Turbidity	TURB	NTU			-	1.38	-	1.72	-	3.38	-	1.79	-	1.88

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0033-PLW	23B-0033-PLW
					Sample Name	23B-0031-PLW-AS-F	23B-0031-PLW-AS-T	23B-0031-PLW-BS-F	23B-0031-PLW-BS-T	23B-0032-PLW-AS-F	23B-0032-PLW-AS-T	23B-0032-PLW-BS-F	23B-0032-PLW-BS-T	23B-0033-PLW-AS-F	23B-0033-PLW-AS-T
					Sample Date	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.71 U	-	< 1.74 U	-	< 1.51 U	-	< 1.53 U	-	< 2.65 U	
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.23 U	-	< 1.13 U	-	< 1.24 U	-	< 1.03 U	-	< 2.05 U	
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 2.01 U	-	< 1.82 U	-	< 2.05 U	-	< 1.48 U	-	< 2.37 U	
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.13 U	-	< 1.32 U	-	< 1.3 U	-	< 1.04 U	-	< 1.94 U	
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 2.12 U	-	< 1.87 U	-	< 2.3 U	-	< 1.46 U	-	< 2.5 U	
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.13 U	-	< 1.28 U	-	< 1.32 U	-	< 1.1 U	-	< 1.91 U	
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 2.07 U	-	< 1.67 U	-	< 2.12 U	-	< 1.47 U	-	< 2.27 U	
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.39 U	-	< 1.57 U	-	< 1.58 U	-	< 1.3 U	-	< 2.22 U	
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.74 U	-	< 2.13 U	-	< 1.86 U	-	< 2.11 UJ	-	< 2.89 U	
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.39 U	-	< 1.36 U	-	< 1.47 U	-	< 1.29 U	-	< 2.21 U	
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 0.908 U	-	< 1.04 U	-	< 0.925 U	-	< 0.818 U	-	< 1.54 U	
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.22 U	-	< 1.41 U	-	< 1.37 U	-	< 1.13 U	-	< 2.17 U	
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.38 U	-	< 1.32 U	-	< 1.35 U	-	< 1.22 U	-	< 2.06 U	
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.93 UJ	-	< 9.97 UJ	-	< 10.1 UJ	-	< 10.3 UJ	-	< 9.8 UJ	
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 0.95 U	-	< 1.28 U	-	< 1.25 U	-	< 1.02 U	-	< 2.03 U	
OCDD	3268-87-9	pg/L	400	31	-	10.2 JN	-	< 3.5 U	-	7.88 JN	-	9.56 J	-	< 6.48 U	
OCDF	39001-02-0	pg/L	400	31	-	< 2.41 U	-	< 2.45 U	-	< 3.12 U	-	< 2.71 U	-	< 4.7 U	
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.71 U	-	< 1.74 U	-	< 1.51 U	-	< 1.53 U	-	< 2.65 U	
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 1.23 U	-	< 1.13 U	-	< 1.24 U	-	< 1.03 U	-	< 2.05 U	
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 2.12 U	-	< 1.87 U	-	< 2.3 U	-	< 1.48 U	-	< 2.5 U	
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.39 U	-	< 1.57 U	-	< 1.58 U	-	< 1.3 U	-	< 2.22 U	
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.74 U	-	< 2.13 U	-	< 1.86 U	-	< 2.11 U	-	< 2.89 U	
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.39 U	-	< 1.36 U	-	< 1.47 U	-	< 1.29 U	-	< 2.21 U	
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.93 U	-	< 9.97 U	-	< 10.1 U	-	< 10.3 U	-	< 9.8 U	
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 0.95 U	-	< 1.28 U	-	< 1.25 U	-	< 1.02 U	-	< 2.03 U	
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	39.1 J	-	26.3 JN	-	8.69 J	-	24.9 JN	-	11.7 JN	
PCB-002	2051-61-8	pg/L	64	14000	-	< 3.96 U	-	< 3.27 U	-	< 2.82 U	-	7.38 J	-	< 2.8 U	
PCB-003	2051-62-9	pg/L	64	14000	-	14 J+	-	14.8 J+	-	7.96 J	-	15.3 JN	-	< 4.66 U	
PCB-004	13029-08-8	pg/L	64	14000	-	1960 J	-	2440 J	-	1670 J	-	1440 J	-	1560 J	
PCB-005	16605-91-7	pg/L	64	14000	-	< 8.5 U	-	< 6.27 U	-	< 5.99 U	-	< 6.44 U	-	< 6.33 U	
PCB-006	25569-80-6	pg/L	64	14000	-	14.2 JN	-	8.52 JN	-	< 4.89 U	-	8.62 JN	-	7.19 JN	
PCB-007	33284-50-3	pg/L	64	14000	-	< 8.23 U	-	< 6.07 U	-	< 5.7 U	-	< 6.13 U	-	< 6.12 U	
PCB-008	34883-43-7	pg/L	64	14000	-	47 JN	-	43.8 JN	-	29.9 JN	-	34.4 JN	-	26.4 JN	
PCB-009	34883-39-1	pg/L	64	14000	-	< 7.37 U	-	< 5.44 U	-	< 5.31 U	-	< 5.71 U	-	< 5.49 U	
PCB-010	33146-45-1	pg/L	64	14000	-	435	-	489	-	350	-	245	-	293	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0033-PLW	23B-0033-PLW
					Sample Name	23B-0031-PLW-AS-F	23B-0031-PLW-AS-T	23B-0031-PLW-BS-F	23B-0031-PLW-BS-T	23B-0032-PLW-AS-F	23B-0032-PLW-AS-T	23B-0032-PLW-BS-F	23B-0032-PLW-BS-T	23B-0033-PLW-AS-F	23B-0033-PLW-AS-T
					Sample Date	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	80.3 JN	-	94.7 J+	-	525 J+	-	407 J+	-	73.9 J+
PCB-012/013	PCB-12/13	pg/L			-	< 7.99 U	-	16.7 JN	-	< 5.93 U	-	16.4 JN	-	8.02 JN
PCB-014	34883-41-5	pg/L	64	14000	-	< 8.02 U	-	< 5.92 U	-	< 5.76 U	-	< 6.2 U	-	< 5.97 U
PCB-015	2050-68-2	pg/L	64	14000	-	297 J	-	300 J	-	251 J	-	244 J	-	256 J
PCB-016	38444-78-9	pg/L	64	14000	-	45.1	-	38.7 JN	-	38	-	41.6	-	46.5
PCB-017	37680-66-3	pg/L	64	14000	-	317	-	331	-	253	-	236	-	270
PCB-018/030	PCB-18/30	pg/L			-	232	-	242	-	203	-	191	-	210
PCB-019	38444-73-4	pg/L	64	14000	-	698 J	-	724 J	-	602 J	-	536 J	-	550 J
PCB-020/028	PCB-20/28	pg/L			-	168	-	171	-	140	-	139	-	152
PCB-021/033	PCB-21/33	pg/L			-	17.5 JN	-	18.5 JN	-	16.1 J	-	13.4 J	-	18.5 JN
PCB-022	38444-85-8	pg/L	64	14000	-	< 12.7 UJ	-	< 11.5 UJ	-	7.41 J	-	< 10.7 U	-	< 10.3 UJ
PCB-023	55720-44-0	pg/L	64	14000	-	< 14.8 U	-	< 13.4 U	-	< 9.81 U	-	< 12.2 U	-	< 12 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 11.5 U	-	< 9 U	-	< 7.16 U	-	< 8.27 U	-	< 7.74 U
PCB-025	55712-37-3	pg/L	64	14000	-	72.9 JN	-	80.1	-	58.1	-	59.3	-	65.1
PCB-026/029	PCB-26/29	pg/L			-	182	-	181	-	143	-	135	-	154
PCB-027	38444-76-7	pg/L	64	14000	-	286	-	301	-	244	-	219	-	233
PCB-031	16606-02-3	pg/L	64	14000	-	165	-	164	-	113	-	99 JN	-	132
PCB-032	38444-77-8	pg/L	64	14000	-	279	-	265	-	206	-	199	-	239
PCB-034	37680-68-5	pg/L	64	14000	-	< 14.9 U	-	< 13.5 U	-	< 10.4 U	-	< 12.9 U	-	< 12.1 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 13.3 U	-	< 12 U	-	< 9.49 U	-	< 11.8 U	-	< 10.8 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 11.8 U	-	< 10.7 U	-	< 8.44 U	-	< 10.5 U	-	< 9.61 U
PCB-037	38444-90-5	pg/L	64	14000	-	22.5	-	19.6 JN	-	16.4 JN	-	16.7 JN	-	18.8
PCB-038	53555-66-1	pg/L	64	14000	-	< 13.1 U	-	< 11.9 U	-	< 9.3 U	-	< 11.5 U	-	< 10.6 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 13.2 U	-	< 12 U	-	< 9.23 U	-	< 11.4 U	-	< 10.7 U
PCB-040/071	PCB-40/71	pg/L			-	81.3	-	91.8	-	72.4	-	72.8	-	78.4
PCB-041	52663-59-9	pg/L	64	14000	-	10.2	-	< 7.67 U	-	8.23 J	-	< 5.24 U	-	< 8.17 U
PCB-042	36559-22-5	pg/L	64	14000	-	66.4	-	66.9	-	57.4	-	55.6	-	56.3
PCB-043	70362-46-8	pg/L	64	14000	-	9.93	-	11.5	-	11.2 JN	-	11	-	7.31 JN
PCB-044/047/065	PCB-44/47/65	pg/L			-	346	-	359	-	296	-	311	-	318
PCB-045	70362-45-7	pg/L	64	14000	-	35.3	-	24.6 JN	-	33.7 J	-	21.8 JN	-	35.3
PCB-046	41464-47-5	pg/L	64	14000	-	33	-	32.9	-	31.5	-	32.3	-	30.2
PCB-048	70362-47-9	pg/L	64	14000	-	19.3	-	20.9	-	16.3	-	18.8	-	18.2
PCB-049/069	PCB-49/69	pg/L			-	241	-	240	-	202	-	203	-	207
PCB-050/053	PCB-50/53	pg/L			-	202	-	213	-	195	-	177	-	191
PCB-051	68194-04-7	pg/L	64	14000	-	55.3	-	48.5 JN	-	29.7 JN	-	37.7	-	39.2
PCB-052	35693-99-3	pg/L	64	14000	-	361	-	358	-	310	-	311	-	321
PCB-054	15968-05-5	pg/L	64	14000	-	19.7	-	18.9 JN	-	18.3	-	17.2 JN	-	14.2 JN
PCB-055	74338-24-2	pg/L	64	14000	-	< 5.72 U	-	< 5.27 U	-	< 5.28 U	-	< 6.77 U	-	< 5.17 U
PCB-056	41464-43-1	pg/L	64	14000	-	25.2	-	25.9	-	22.7	-	23.7	-	22.5
PCB-057	70424-67-8	pg/L	64	14000	-	< 6.3 U	-	< 5.8 U	-	< 5.91 U	-	< 7.58 U	-	< 5.69 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 5.53 U	-	< 5.09 U	-	< 5.34 U	-	< 6.85 U	-	< 5 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	26.3 J	-	27.4 J	-	22.5 J	-	27.6 J	-	20.7 JN
PCB-060	33025-41-1	pg/L	64	14000	-	< 6.87 U	-	10.8	-	< 6.37 U	-	8.07 JN	-	10.5
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	142	-	142	-	113	-	120	-	116
PCB-063	74472-34-7	pg/L	64	14000	-	4.47 JN	-	8.08 J	-	< 6.17 U	-	9.15 J	-	7.27 JN
PCB-064	52663-58-8	pg/L	64	14000	-	80.5	-	78.5	-	64	-	62.7	-	69.8
PCB-066	32598-10-0	pg/L	64	14000	-	88.2 JN	-	83.9	-	73.6	-	78.5	-	74.4
PCB-067	73575-53-8	pg/L	64	14000	-	< 5.48 U	-	4.34 JN	-	< 4.86 U	-	< 6.24 U	-	< 4.95 U
PCB-068	73575-52-7	pg/L	64	14000	-	< 6.33 U	-	5.41 JN	-	< 5.76 U	-	< 7.39 U	-	< 5.72 U
PCB-072	41464-42-0	pg/L	64	14000	-	8.07 J	-	8.77 J	-	< 5.88 U	-	7.76 J	-	6.27 JN
PCB-073	74338-23-1	pg/L	64	14000	-	9.2 JN	-	11.9 J	-	8.97 JN	-	6.78 JN	-	8.13 J
PCB-077	32598-13-3	pg/L	64	14000	-	8.53 J	-	6.85 J	-	< 6.2 U	-	< 8.52 U	-	< 5.66 U
PCB-078	70362-49-1	pg/L	64	14000	-	< 6.2 U	-	< 5.7 U	-	< 5.79 U	-	< 7.43 U	-	< 5.6 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 5.2 U	-	< 4.78 U	-	< 5.14 U	-	< 6.59 U	-	< 4.7 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 5.87 U	-	< 5.4 U	-	< 5.43 U	-	< 6.96 U	-	< 5.3 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 5.85 U	-	< 5.38 U	-	< 5.74 U	-	< 7.37 U	-	< 5.29 U
PCB-082	52663-62-4	pg/L	64	14000	-	11.1 J	-	< 8.19 UJ	-	11 J	-	12.4 JN	-	9.33 JN
PCB-083	60145-20-2	pg/L	64	14000	-	10.5 JN	-	< 11.7 UJ	-	7.34 JN	-	< 13.6 UJ	-	7.98 JN
PCB-084	52663-60-2	pg/L	64	14000	-	51.8	-	57.5	-	46.1	-	55.5	-	58.3

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0033-PLW	23B-0033-PLW
					Sample Name	23B-0031-PLW-AS-F	23B-0031-PLW-AS-T	23B-0031-PLW-BS-F	23B-0031-PLW-BS-T	23B-0032-PLW-AS-F	23B-0032-PLW-AS-T	23B-0032-PLW-BS-F	23B-0032-PLW-BS-T	23B-0033-PLW-AS-F	23B-0033-PLW-AS-T
					Sample Date	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	19.3 J	-	21.1 JN	-	15.2 JN	-	18.9 JN	-	16.6 J
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	76.5	-	85.1	-	81.9	-	90.5	-	77.9
PCB-088	55215-17-3	pg/L	64	14000	-	< 10.8 U	-	< 9.49 U	-	< 8 U	-	< 12.8 U	-	< 7.56 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 9.34 U	-	< 8.19 U	-	< 6.78 U	-	< 10.8 U	-	< 6.53 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	143	-	156	-	139	-	155	-	140
PCB-091	68194-05-8	pg/L	64	14000	-	37.2	-	33.2 JN	-	36.7	-	36.3	-	32.3
PCB-092	52663-61-3	pg/L	64	14000	-	46.8	-	45.8	-	39.4 JN	-	47	-	45 JN
PCB-093/100	PCB-93/100	pg/L			-	< 10 U	-	< 8.78 U	-	< 7.38 U	-	< 11.8 U	-	< 7 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 10.8 U	-	< 9.44 U	-	< 7.8 U	-	< 12.4 U	-	< 7.52 U
PCB-095	38379-99-6	pg/L	64	14000	-	143	-	156	-	148	-	149	-	154
PCB-096	73575-54-9	pg/L	64	14000	-	< 4.14 U	-	< 4.71 U	-	< 2.6 U	-	< 3.27 U	-	< 2.62 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 8.38 U	-	< 7.35 U	-	< 5.52 U	-	< 8.8 U	-	< 5.86 U
PCB-099	38380-01-7	pg/L	64	14000	-	47.8	-	60.2	-	60.3	-	64.3	-	47.2
PCB-102	68194-06-9	pg/L	64	14000	-	< 8.61 U	-	< 7.56 U	-	11.7	-	< 9.92 U	-	< 6.02 U
PCB-103	60145-21-3	pg/L	64	14000	-	< 9.52 U	-	< 8.35 U	-	< 6.68 U	-	< 10.7 U	-	< 6.65 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 3.54 U	-	< 4.03 U	-	< 2.3 U	-	< 2.89 U	-	< 2.24 U
PCB-105	32598-14-4	pg/L	64	14000	-	20.5	-	21.9	-	22.3 J	-	19.3 J	-	19 JN
PCB-106	70424-69-0	pg/L	64	14000	-	< 6.39 U	-	< 5.6 U	-	< 4.44 U	-	< 7.09 U	-	< 4.46 U
PCB-107	70424-68-9	pg/L	64	14000	-	6.29 JN	-	7.94 J	-	< 4.68 U	-	7.79 JN	-	7.84 JN
PCB-108/124	PCB-108/124	pg/L			-	< 7 U	-	< 6.14 U	-	< 5.09 U	-	< 8.12 U	-	< 4.89 U
PCB-110	38380-03-9	pg/L	64	14000	-	163	-	160	-	167	-	178	-	152
PCB-111	39635-32-0	pg/L	64	14000	-	< 6.83 U	-	< 5.99 U	-	< 4.97 U	-	< 7.93 U	-	< 4.78 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 5.97 U	-	< 5.24 U	-	< 4.11 U	-	< 6.56 U	-	< 4.17 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 6.16 U	-	< 5.35 U	-	< 5.06 U	-	< 7.34 U	-	< 4.62 U
PCB-115	74472-38-1	pg/L	64	14000	-	4.27 J	-	9.06 J	-	< 3.65 U	-	< 5.82 U	-	< 3.8 U
PCB-117	68194-11-6	pg/L	64	14000	-	7.11 JN	-	6.05 JN	-	< 5.74 U	-	< 9.16 U	-	< 5.28 U
PCB-118	31508-00-6	pg/L	64	14000	-	70 JN	-	73.8	-	69.6	-	70.8	-	61.9
PCB-120	68194-12-7	pg/L	64	14000	-	< 5.67 U	-	< 4.97 U	-	< 4.06 U	-	< 6.48 U	-	< 3.96 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 6.36 U	-	< 5.58 U	-	< 4.42 U	-	< 7.05 U	-	< 4.44 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 7.94 U	-	< 6.9 U	-	< 6.52 U	-	< 9.47 U	-	< 5.95 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 6.31 U	-	< 5.53 U	-	< 4.72 U	-	< 7.54 U	-	< 4.41 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 5.02 U	-	< 4.2 U	-	< 3.86 U	-	< 5.25 U	-	< 4.4 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 5.94 U	-	< 5.34 U	-	< 5.39 U	-	< 6.88 U	-	< 4.62 U
PCB-128/166	PCB-128/166	pg/L			-	15 JN	-	17.2 J	-	15.4 J	-	20 J	-	13.3 J
PCB-129/138/163	PCB-129/138/163	pg/L			-	118	-	112	-	108	-	113	-	95.1
PCB-130	52663-66-8	pg/L	64	14000	-	< 4.68 U	-	< 6.99 U	-	3.23 JN	-	9.06 JN	-	6.92 J
PCB-131	61798-70-7	pg/L	64	14000	-	< 4.3 U	-	< 6.42 U	-	< 2.53 U	-	< 3.11 U	-	< 3.62 U
PCB-132	38380-05-1	pg/L	64	14000	-	38.3	-	31.4 JN	-	26	-	31.2 JN	-	27.6
PCB-133	35694-04-3	pg/L	64	14000	-	< 3.76 U	-	< 5.62 U	-	< 2.23 U	-	< 2.74 U	-	< 3.17 U
PCB-134	52704-70-8	pg/L	64	14000	-	< 4.97 U	-	7.79 JN	-	7.83 JN	-	< 3.65 U	-	6.12 J
PCB-135/151	PCB-135/151	pg/L			-	25.7 JN	-	28.9	-	30.9	-	30	-	24.3 JN
PCB-136	38411-22-2	pg/L	64	14000	-	18	-	15.9	-	9.76 JN	-	16.7 J	-	15.2
PCB-137	35694-06-5	pg/L	64	14000	-	< 4.25 U	-	< 6.35 U	-	6.07 JN	-	7.13 JN	-	7.35 JN
PCB-139/140	PCB-139/140	pg/L			-	< 3.75 U	-	< 5.59 U	-	< 2.26 U	-	< 2.78 U	-	< 3.15 U
PCB-141	52712-04-6	pg/L	64	14000	-	16.9 JN	-	16.4	-	10.2 JN	-	13.2 JN	-	10.9 JN
PCB-142	41411-61-4	pg/L	64	14000	-	< 4.29 U	-	< 6.4 U	-	< 2.49 U	-	< 3.06 U	-	< 3.61 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 3.91 U	-	< 5.84 U	-	< 2.33 U	-	< 2.86 U	-	< 3.29 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 3.92 U	-	< 5.86 U	-	< 2.39 U	-	7.32 J	-	< 3.3 U
PCB-145	74472-40-5	pg/L	64	14000	-	< 2.74 U	-	< 4.2 U	-	< 1.9 U	-	< 2.09 U	-	< 2.72 U
PCB-146	51908-16-8	pg/L	64	14000	-	8.54 JN	-	11.7 JN	-	10.7	-	15.7	-	10.2 J
PCB-147/149	PCB-147/149	pg/L			-	68.1	-	77.4	-	64.8	-	72.9	-	62
PCB-148	74472-41-6	pg/L	64	14000	-	< 3.87 U	-	< 5.78 U	-	< 2.36 U	-	< 2.9 U	-	< 3.26 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 2.86 U	-	< 4.39 U	-	< 2.03 U	-	< 2.23 U	-	< 2.84 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 2.64 U	-	< 4.05 U	-	< 1.84 U	-	< 2.03 U	-	< 2.63 U
PCB-153/168	PCB-153/168	pg/L			-	85.4	-	71.8 JN	-	68.2	-	76.2	-	61.7
PCB-154	60145-22-4	pg/L	64	14000	-	< 3.59 U	-	< 5.37 U	-	< 2.09 U	-	4 JN	-	< 3.03 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0033-PLW	23B-0033-PLW
					Sample Name	23B-0031-PLW-AS-F	23B-0031-PLW-AS-T	23B-0031-PLW-BS-F	23B-0031-PLW-BS-T	23B-0032-PLW-AS-F	23B-0032-PLW-AS-T	23B-0032-PLW-BS-F	23B-0032-PLW-BS-T	23B-0033-PLW-AS-F	23B-0033-PLW-AS-T
					Sample Date	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 2.42 U	-	< 3.71 U	-	< 1.71 U	-	< 1.89 U	-	< 2.41 U
PCB-156/157	PCB-156/157	pg/L			-	8.55 JN	-	10.4 J	-	7.57 JN	-	9.49 JN	-	6.34 JN
PCB-158	74472-42-7	pg/L	64	14000	-	8.53 JN	-	< 4.38 U	-	9.87 J	-	7.53 JN	-	6.38 J
PCB-159	39635-35-3	pg/L	64	14000	-	< 3.35 U	-	< 3.87 U	-	< 2.95 U	-	< 4.45 U	-	< 3.53 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 3.12 U	-	< 4.67 U	-	< 1.78 U	-	< 2.19 U	-	< 2.63 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 2.79 U	-	< 4.16 U	-	< 1.61 U	-	< 1.98 U	-	< 2.35 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 3.94 U	-	< 4.55 U	-	< 3.45 U	-	< 5.21 U	-	< 4.15 U
PCB-164	74472-45-0	pg/L	64	14000	-	6.57 JN	-	< 4.17 U	-	4.63 J	-	5.69 JN	-	4.85 JN
PCB-165	74472-46-1	pg/L	64	14000	-	< 3.25 U	-	< 4.85 U	-	< 1.92 U	-	< 2.36 U	-	< 2.73 U
PCB-167	52663-72-6	pg/L	64	14000	-	4.34 JN	-	< 4.42 U	-	< 3.36 U	-	< 5.07 U	-	< 4.03 U
PCB-169	32774-16-6	pg/L	4	14000	-	< 5.68 U	-	< 6.34 U	-	< 4.03 U	-	< 6.85 U	-	< 5.42 U
PCB-170	35065-30-6	pg/L	64	14000	-	< 8.91 U	-	< 8.72 U	-	11.4 JN	-	< 9.35 U	-	< 11.6 U
PCB-171/173	PCB-171/173	pg/L			-	< 8.88 U	-	< 7.8 U	-	< 5.55 U	-	< 8.18 U	-	< 9.91 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 8.4 U	-	< 7.38 U	-	< 5.35 U	-	< 7.88 U	-	< 9.38 U
PCB-174	38411-25-5	pg/L	64	14000	-	14.8	-	12.2	-	11.7 JN	-	< 7.37 UJ	-	< 8.89 U
PCB-175	40186-70-7	pg/L	64	14000	-	< 8.51 U	-	< 7.48 U	-	< 5.45 U	-	< 8.04 U	-	< 9.51 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 3.78 U	-	< 4.11 U	-	< 4.77 U	-	< 4.16 U	-	< 3.37 U
PCB-177	52663-70-4	pg/L	64	14000	-	< 8.01 U	-	< 7.04 U	-	5.28 JN	-	5.94 JN	-	< 8.95 U
PCB-178	52663-67-9	pg/L	64	14000	-	< 4.73 U	-	< 5.14 U	-	< 5.96 U	-	< 5.2 U	-	< 4.22 U
PCB-179	52663-64-6	pg/L	64	14000	-	< 3.3 U	-	< 3.59 U	-	< 4.18 U	-	4.34 JN	-	4.43 JN
PCB-180/193	PCB-180/193	pg/L			-	23.9 JN	-	25.3 J+	-	25.7 J	-	19.1 JN	-	23.3 J+
PCB-181	74472-47-2	pg/L	64	14000	-	< 7.45 U	-	< 6.55 U	-	< 4.66 U	-	< 6.88 U	-	< 8.32 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 7.07 U	-	< 6.21 U	-	< 4.44 U	-	< 6.55 U	-	< 7.89 U
PCB-183	52663-69-1	pg/L	64	14000	-	< 7.67 U	-	< 6.74 U	-	10.4 J	-	< 7.2 UJ	-	< 8.57 U
PCB-184	74472-48-3	pg/L	64	14000	-	< 3.51 U	-	< 3.82 U	-	< 4.36 U	-	< 3.81 U	-	< 3.14 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 8.8 U	-	< 7.74 U	-	< 5.43 U	-	< 8 U	-	< 9.83 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 3.16 U	-	< 3.43 U	-	< 3.9 U	-	< 3.4 U	-	< 2.82 U
PCB-187	52663-68-0	pg/L	64	14000	-	12.2 JN	-	12.8 J	-	10.9 JN	-	9.46 J	-	11.1 JN
PCB-188	74487-85-7	pg/L	64	14000	-	< 3.2 U	-	< 3.48 U	-	< 4.13 U	-	< 3.61 U	-	< 2.86 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 4.22 U	-	< 3.96 U	-	< 4.34 U	-	< 4.1 U	-	< 5.28 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 6.42 U	-	< 6.29 U	-	< 3.77 U	-	< 6.85 U	-	< 8.34 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 6.74 U	-	< 5.92 U	-	< 4.09 U	-	< 6.04 U	-	< 7.53 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 5.94 U	-	< 5.22 U	-	< 3.73 U	-	< 5.5 U	-	< 6.64 U
PCB-194	35694-08-7	pg/L	64	14000	-	5.27 J	-	5.19 JN	-	< 2.84 U	-	< 4.9 U	-	3.08 J
PCB-195	52663-78-2	pg/L	64	14000	-	< 3.23 U	-	< 3.95 U	-	< 3.09 U	-	< 5.34 U	-	< 3.63 U
PCB-196	42740-50-1	pg/L	64	14000	-	< 3.51 U	-	< 3.74 U	-	< 1.52 U	-	< 3.04 U	-	< 3.94 U
PCB-197	33091-17-7	pg/L	64	14000	-	< 2.59 U	-	< 2.76 U	-	< 1.07 U	-	< 2.14 U	-	< 2.91 U
PCB-198/199	PCB-198/199	pg/L			-	4.71 JN	-	4.8 JN	-	< 1.34 U	-	< 2.68 U	-	< 3.51 U
PCB-200	52663-73-7	pg/L	64	14000	-	< 2.82 U	-	< 3 U	-	< 1.2 U	-	< 2.4 U	-	< 3.17 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 2.86 U	-	< 3.05 U	-	< 1.2 U	-	< 2.4 U	-	< 3.22 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 2.37 U	-	< 2.53 U	-	< 0.969 U	-	< 1.93 U	-	< 2.67 U
PCB-203	52663-76-0	pg/L	64	14000	-	< 2.85 U	-	2.01 JN	-	< 1.19 U	-	< 2.37 U	-	3.12 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 2.53 U	-	< 2.69 U	-	< 1.05 U	-	< 2.09 U	-	< 2.84 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 2.58 U	-	< 3.15 U	-	< 2.42 U	-	< 4.19 U	-	< 2.9 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 19.8 UJ	-	< 20 UJ	-	< 20 UJ	-	< 20.4 UJ	-	< 19.6 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 7.56 U	-	< 4.9 U	-	< 6.95 U	-	< 7.53 U	-	< 6.23 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 6.63 U	-	< 4.3 U	-	< 6.11 U	-	< 6.61 U	-	< 5.47 U
PCB-209	2051-24-3	pg/L	64	14000	-	< 7.4 U	-	< 8.13 U	-	< 1.33 U	-	5.43 JN	-	< 3.34 U
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	< 7.4 U	-	< 8.13 U	-	< 1.33 U	-	5.43	-	< 3.34 U
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	50.9	-	50.3	-	75.4	-	38.8	-	38.8
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	422	-	401	-	383	-	439	-	358
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	9.98	-	12.0	-	< 3.09 U	-	< 5.34 U	-	6.20
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	8590	-	9230	-	7780	-	7330	-	7210
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	858	-	894	-	856	-	905	-	829
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	2830	-	3390	-	2830	-	2400	-	2220
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	53.1	-	41.1	-	16.7	-	47.6	-	11.7
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 19.8 U	-	< 20 U	-	< 20 U	-	< 20.4 U	-	< 19.6 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1870	-	1900	-	1590	-	1610	-	1650
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	2490	-	2540	-	2040	-	1890	-	2090

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0033-PLW	23B-0033-PLW
					Sample Name	23B-0031-PLW-AS-F	23B-0031-PLW-AS-T	23B-0031-PLW-BS-F	23B-0031-PLW-BS-T	23B-0032-PLW-AS-F	23B-0032-PLW-AS-T	23B-0032-PLW-BS-F	23B-0032-PLW-BS-T	23B-0033-PLW-AS-F	23B-0033-PLW-AS-T
					Sample Date	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	27	460	25	43	23 J+	39	27	43	20 J+	47
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	0.18 J	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.17 J	0.17 J
Arsenic	7440-38-2	ug/L	0.018	150	0.49 J	0.45 J	0.40 J	0.45 J	0.37 J	0.50 J	0.44 J	0.53 J	0.35 J	0.48 J
Barium	7440-39-3	ug/L	380	220	41	45	39	41	41	42	39	44	39	44
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	16000	17000	16000	16000	17000	17000	16000	18000	16000	17000
Chromium, Total	7440-47-3	ug/L	100	44	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	16 J+	< 2.0 U	< 2.0 U	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.28 J	0.61 J	0.23 J	0.23 J	0.20 J	0.27 J	0.62 J	0.22 J	0.19 J	0.31 J
Copper	7440-50-8	ug/L	80	5	1.3 J	5.6	1.3 J	1.6 J	1.1 J	1.8 J	1.8 J	1.6 J	1.1 J	2.5
Iron	7439-89-6	ug/L	1400	1000	1000	2100	620	1300	770	1300	870	1400	530	1400
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	6.3	< 1.0 U	1.6	1.2	1.3	< 1.0 U	1.2 J+	< 1.0 U	1.5
Magnesium	7439-95-4	ug/L		82000	4000	4200	3900	4000	4100	4200	3900	4200	4000	4200
Manganese	7439-96-5	ug/L	43	93	130	150	120	140	130	150	130	140	130	140
Nickel	7440-02-0	ug/L	39	27	1.1 J+	1.5	1.0 J+	0.95 J	< 1.0 U	1.1	11	0.72 J	< 1.0 U	1.0
Potassium	7440-09-7	ug/L		53000	2800	2900	2800	2900	2900	3100	2800	3000	2800	3000
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	70000	86000	68000	89000	70000	72000	67000	71000	68000	72000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.69 J	1.7 J	0.46 J	0.70 J	0.50 J	0.80 J	0.80 J	0.70 J	0.40 J	0.90 J
Zinc	7440-66-6	ug/L	600	11.8	6.5 J+	15 J+	5.2 J+	6.8 J+	8.8	6.7 J+	7.4 J+	< 5.0 U	5.9 J+	6.4 J+
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 R	< 0.20 UJ	< 0.20 R	< 0.20 UJ	< 0.20 R	< 0.20 UJ	< 0.20 R	< 0.20 UJ	< 0.20 R	< 0.20 UJ
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	15	-	< 10 U	-	< 10 U	-	3.4 J
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 R	-	< 10 R	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0033-PLW	23B-0033-PLW
					Sample Name	23B-0031-PLW-AS-F	23B-0031-PLW-AS-T	23B-0031-PLW-BS-F	23B-0031-PLW-BS-T	23B-0032-PLW-AS-F	23B-0032-PLW-AS-T	23B-0032-PLW-BS-F	23B-0032-PLW-BS-T	23B-0033-PLW-AS-F	23B-0033-PLW-AS-T
					Sample Date	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.60
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	0.17 J	-	0.17 J	-	< 0.50 UJ	-	0.13 J	-	< 0.50 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
Styrene	100-42-5	ug/L	100	32	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	0.14 J	-	< 0.50 U
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 R	-	< 0.50 R	-	< 0.50 R
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.0 U	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 U
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0033-PLW	23B-0033-PLW
					Sample Name	23B-0031-PLW-AS-F	23B-0031-PLW-AS-T	23B-0031-PLW-BS-F	23B-0031-PLW-BS-T	23B-0032-PLW-AS-F	23B-0032-PLW-AS-T	23B-0032-PLW-BS-F	23B-0032-PLW-BS-T	23B-0033-PLW-AS-F	23B-0033-PLW-AS-T
					Sample Date	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.0 U	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.0 U	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.0 U	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.8 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.8 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.8 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.8 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.8 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.4 J	-	3.0 J	-	2.7 J	-	2.6 J	-	2.8 J
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	4.0 J	-	4.0 J	-	3.6 J	-	3.9 J	-	4.8 J
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.8 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	< 1.9 U	-	0.32 J	-	0.29 J	-	0.30 J	-	0.29 J
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.8 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.8 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.3	-	2.0	-	2.1	-	2.0	-	1.9
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.3	-	2.3	-	2.6	-	2.4	-	2.5
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.7	-	3.9	-	3.7	-	3.1	-	3.3
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.8 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.84 J	-	0.78 J	-	0.82 J	-	0.73 J	-	0.82 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.8 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	5.2	-	5.1	-	5.0	-	4.8	-	5.2
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.7	-	5.3	-	5.4	-	5.5	-	5.3
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.32 J	-	0.35 J	-	0.51 J	-	0.44 J	-	0.42 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	5.7 J	-	5.2 J	-	4.7 J	-	4.3 J	-	4.3 J
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.8 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.8 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0031-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0032-PLW	23B-0033-PLW	23B-0033-PLW
				Sample Name	23B-0031-PLW-AS-F	23B-0031-PLW-AS-T	23B-0031-PLW-BS-F	23B-0031-PLW-BS-T	23B-0032-PLW-AS-F	23B-0032-PLW-AS-T	23B-0032-PLW-BS-F	23B-0032-PLW-BS-T	23B-0033-PLW-AS-F	23B-0033-PLW-AS-T
				Sample Date	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	-	< 1.8 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.41	-	8.34	-	8.72	-	8.72	-	8.8
Oxidation-Reduction Potential	ORP	mv			-	146.2	-	173.5	-	213.1	-	213.1	-	204.4
pH	PH	su			-	6.77	-	6.77	-	6.8	-	6.8	-	6.76
Specific Conductance	SC	us/cm			-	490.7	-	490.9	-	487.9	-	487.9	-	490.2
Temperature	TEMP	deg c			-	13.1	-	13.1	-	13.3	-	13.2	-	13.1
Turbidity	TURB	NTU			-	1.91	-	2.11	-	1.73	-	1.73	-	1.84

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0034-PLW	23B-0034-PLW	23B-0035-PLW	23B-0035-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0037-PLW	23B-0037-PLW
					Sample Name	23B-0034-PLW-AS-F	23B-0034-PLW-AS-T	23B-0035-PLW-AS-F	23B-0035-PLW-AS-T	23B-0036-PLW-AS-F	23B-0036-PLW-AS-T	23B-0036-PLW-BS-F	23B-0036-PLW-BS-T	23B-0037-PLW-AS-F	23B-0037-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	2.9 - 2.9 ft	2.9 - 2.9 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	0.0061 J	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.51 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.23 U	-	< 1.24 U	-	< 1.45 U	-	3.33 JN	-	< 1.67 U
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 0.956 U	-	< 1.02 U	-	< 1.26 U	-	< 0.874 U	-	< 1.13 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.99 U	-	< 1.35 U	-	< 1.85 U	-	< 1.31 U	-	2.12 JN
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.22 U	-	< 0.775 U	-	< 1.08 U	-	< 0.848 U	-	< 0.989 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 2.14 U	-	< 1.38 U	-	< 1.98 U	-	< 1.35 U	-	< 1.86 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.19 U	-	< 0.658 U	-	< 1.09 U	-	< 0.859 U	-	< 0.925 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 2.21 U	-	< 1.22 U	-	< 1.75 U	-	< 1.25 U	-	< 2.06 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.54 U	-	< 0.876 U	-	< 1.3 U	-	< 1.04 U	-	1.67 JN
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.17 U	-	< 2.24 U	-	< 1.74 U	-	< 1.7 U	-	< 1.64 U
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.35 U	-	< 1.22 U	-	< 1.33 U	-	< 1.14 U	-	< 0.904 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 0.722 U	-	< 0.872 U	-	< 1.06 U	-	< 0.69 U	-	< 0.843 U
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.27 U	-	< 0.732 U	-	< 1.17 U	-	< 0.995 U	-	< 0.991 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.26 U	-	< 1.14 U	-	< 1.21 U	-	< 1.16 U	-	< 0.85 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.92 UJ	-	< 10 UJ	-	< 9.86 UJ	-	< 9.92 UJ	-	< 9.8 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 0.857 U	-	< 0.836 U	-	< 1.13 U	-	< 0.848 U	-	< 0.851 U
OCDD	3268-87-9	pg/L	400	31	-	6.26 J	-	7.24 J	-	5.93 JN	-	12.6 J	-	4.43 J+
OCDF	39001-02-0	pg/L	400	31	-	< 1.74 U	-	< 1.56 U	-	< 2.22 U	-	2.47 JN	-	< 1.6 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.23 U	-	< 1.24 U	-	< 1.45 U	-	3.33	-	< 1.67 U
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 0.956 U	-	< 1.02 U	-	< 1.26 U	-	< 0.874 U	-	< 1.13 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 2.21 U	-	< 1.38 U	-	< 1.98 U	-	< 1.35 U	-	2.12 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.54 U	-	< 0.876 U	-	< 1.3 U	-	< 1.04 U	-	1.67 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.17 U	-	< 2.24 U	-	< 1.74 U	-	< 1.7 U	-	< 1.64 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.35 U	-	< 1.22 U	-	< 1.33 U	-	< 1.16 U	-	< 0.904 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.92 U	-	< 10 U	-	< 9.86 U	-	< 9.92 U	-	< 9.8 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 0.857 U	-	< 0.836 U	-	< 1.13 U	-	< 0.848 U	-	< 0.851 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	41.6 J	-	40 J	-	35.5 J	-	50.8 J	-	19.9
PCB-002	2051-61-8	pg/L	64	14000	-	< 3.14 U	-	< 2.6 U	-	< 3 U	-	< 3.13 U	-	< 4.76 U
PCB-003	2051-62-9	pg/L	64	14000	-	15.8 J	-	32.6 J	-	11.7 JN	-	22.8 JN	-	5.94 JN
PCB-004	13029-08-8	pg/L	64	14000	-	1610 J	-	1680 J	-	2040 J	-	2020 J	-	2090 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 5.04 U	-	< 16.2 U	-	< 8.38 U	-	< 7.54 U	-	< 10.4 U
PCB-006	25569-80-6	pg/L	64	14000	-	9.85 JN	-	14.3 JN	-	13.2 JN	-	16.9 JN	-	11.9 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 4.81 U	-	< 15.3 U	-	< 8.12 U	-	< 7.3 U	-	< 9.8 U
PCB-008	34883-43-7	pg/L	64	14000	-	70.6 JN	-	85.7 J	-	57.9 JN	-	78.5	-	22.7 JN
PCB-009	34883-39-1	pg/L	64	14000	-	< 4.36 U	-	< 13.8 U	-	< 7.27 U	-	< 6.54 U	-	< 8.98 U
PCB-010	33146-45-1	pg/L	64	14000	-	343	-	442	-	400	-	385	-	353

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0034-PLW	23B-0034-PLW	23B-0035-PLW	23B-0035-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0037-PLW	23B-0037-PLW
					Sample Name	23B-0034-PLW-AS-F	23B-0034-PLW-AS-T	23B-0035-PLW-AS-F	23B-0035-PLW-AS-T	23B-0036-PLW-AS-F	23B-0036-PLW-AS-T	23B-0036-PLW-BS-F	23B-0036-PLW-BS-T	23B-0037-PLW-AS-F	23B-0037-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	2.9 - 2.9 ft	2.9 - 2.9 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	177 J	-	157 J	-	85.6 JN	-	95.8 J+	-	22.9 JN
PCB-012/013	PCB-12/13	pg/L			-	< 4.73 UJ	-	< 15.5 UJ	-	< 7.88 U	-	14.9 JN	-	11.4 JN
PCB-014	34883-41-5	pg/L	64	14000	-	< 4.81 U	-	< 15.2 U	-	< 7.91 U	-	< 7.11 U	-	< 9.9 U
PCB-015	2050-68-2	pg/L	64	14000	-	266 J	-	330 J	-	342 J	-	353 J	-	284 J
PCB-016	38444-78-9	pg/L	64	14000	-	43.3 JN	-	32.5	-	48.4	-	48.1	-	32.1 JN
PCB-017	37680-66-3	pg/L	64	14000	-	319 J	-	378 J	-	391	-	428	-	365
PCB-018/030	PCB-18/30	pg/L			-	222 J	-	257 J	-	261	-	281	-	222
PCB-019	38444-73-4	pg/L	64	14000	-	609 J	-	756 J	-	719 J	-	751 J	-	722 J
PCB-020/028	PCB-20/28	pg/L			-	194 J	-	221 J	-	218	-	240	-	183
PCB-021/033	PCB-21/33	pg/L			-	29.1 J	-	17.7 JN	-	22.2 J+	-	21 J+	-	< 24.1 U
PCB-022	38444-85-8	pg/L	64	14000	-	< 11.2 UJ	-	11.3 J	-	< 10.7 UJ	-	< 11.2 UJ	-	< 22 U
PCB-023	55720-44-0	pg/L	64	14000	-	< 13.1 U	-	< 13.2 U	-	< 12.4 U	-	< 13.1 U	-	< 25.4 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 10.2 U	-	< 9.25 U	-	< 9.13 U	-	< 9.93 U	-	< 14.7 U
PCB-025	55712-37-3	pg/L	64	14000	-	76.4 J	-	86.4 J	-	97.5	-	112	-	102
PCB-026/029	PCB-26/29	pg/L			-	179 J	-	203 J	-	212	-	236	-	199
PCB-027	38444-76-7	pg/L	64	14000	-	267 J	-	352 J	-	333	-	354	-	289
PCB-031	16606-02-3	pg/L	64	14000	-	182 J	-	185 J	-	222	-	236	-	191
PCB-032	38444-77-8	pg/L	64	14000	-	281 J	-	355 J	-	352	-	368	-	303
PCB-034	37680-68-5	pg/L	64	14000	-	< 13.3 U	-	< 13.5 U	-	< 12.5 U	-	< 13.2 U	-	< 25.2 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 12 U	-	< 12.1 U	-	< 11.2 U	-	< 11.8 U	-	< 23.2 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 10.5 U	-	< 10.7 U	-	< 9.97 U	-	< 10.5 U	-	< 20.8 U
PCB-037	38444-90-5	pg/L	64	14000	-	25.8 J	-	30.3 J	-	27.9	-	31.5	-	< 22.2 U
PCB-038	53555-66-1	pg/L	64	14000	-	< 11.5 U	-	< 11.6 U	-	< 11 U	-	< 11.6 U	-	< 22.9 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 11.6 U	-	< 11.7 U	-	< 11.1 U	-	< 11.7 U	-	< 23 U
PCB-040/071	PCB-40/71	pg/L			-	86.7 J	-	107 J	-	112	-	107 JN	-	80.4
PCB-041	52663-59-9	pg/L	64	14000	-	7.07 JN	-	7.61 JN	-	6.1 JN	-	7.08 JN	-	< 9.92 U
PCB-042	36559-22-5	pg/L	64	14000	-	70.8 J	-	76.1 J	-	74.4	-	87.5	-	56.5
PCB-043	70362-46-8	pg/L	64	14000	-	10.9 JN	-	19.5	-	13.3	-	11.9 JN	-	6.99 JN
PCB-044/047/065	PCB-44/47/65	pg/L			-	354 J	-	451 J	-	414	-	463	-	335
PCB-045	70362-45-7	pg/L	64	14000	-	34	-	34.5	-	31.5	-	38.1	-	38.1 JN
PCB-046	41464-47-5	pg/L	64	14000	-	35 J	-	37.5 J	-	34.6	-	37.7	-	32.6 JN
PCB-048	70362-47-9	pg/L	64	14000	-	19 JN	-	23 J	-	24.1	-	21.1 JN	-	18.9
PCB-049/069	PCB-49/69	pg/L			-	247 J	-	280 J	-	277	-	318	-	223
PCB-050/053	PCB-50/53	pg/L			-	217	-	258	-	226	-	263	-	207
PCB-051	68194-04-7	pg/L	64	14000	-	60.8	-	69 JN	-	73.6	-	77.3	-	49.6
PCB-052	35693-99-3	pg/L	64	14000	-	365 J	-	393 J	-	394	-	435	-	313
PCB-054	15968-05-5	pg/L	64	14000	-	16.2 J	-	16.8 JN	-	23.4	-	22.7	-	16 JN
PCB-055	74338-24-2	pg/L	64	14000	-	< 6.59 U	-	< 5.72 U	-	< 5.17 U	-	< 6.58 U	-	< 9.9 U
PCB-056	41464-43-1	pg/L	64	14000	-	22.8 J	-	25.4 JN	-	26.4	-	30.7	-	24.5
PCB-057	70424-67-8	pg/L	64	14000	-	< 7.28 U	-	6.7 JN	-	< 5.69 U	-	< 7.24 U	-	< 10.6 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 6.4 U	-	< 5.5 U	-	< 4.99 U	-	< 6.35 U	-	< 9.54 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	21.5 JN	-	31.2 J	-	29.5 J	-	33.8	-	24.8 J
PCB-060	33025-41-1	pg/L	64	14000	-	< 7.86 UJ	-	9.23 JN	-	9.53 JN	-	9.15 JN	-	< 12.2 UJ
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	138 J	-	154 J	-	162	-	174	-	116
PCB-063	74472-34-7	pg/L	64	14000	-	8.04 JN	-	18.5 J	-	10.8 JN	-	10.8 JN	-	< 11.8 UJ
PCB-064	52663-58-8	pg/L	64	14000	-	81.9 J	-	95.8 J	-	87.7	-	104	-	78.8
PCB-066	32598-10-0	pg/L	64	14000	-	82.8 J	-	91.8 JN	-	99.1	-	116	-	71.4
PCB-067	73575-53-8	pg/L	64	14000	-	< 6.21 U	-	< 5.33 U	-	< 4.94 U	-	< 6.29 U	-	< 9.56 U
PCB-068	73575-52-7	pg/L	64	14000	-	< 7.36 UJ	-	8.82 J	-	9.03 J	-	< 7.28 U	-	< 10.8 U
PCB-072	41464-42-0	pg/L	64	14000	-	< 6.95 UJ	-	12.3 J	-	8.4 J	-	9.89 J	-	< 10.5 U
PCB-073	74338-23-1	pg/L	64	14000	-	7.03 JN	-	8.94 JN	-	9.95 JN	-	10.7 J	-	10.8
PCB-077	32598-13-3	pg/L	64	14000	-	< 6.47 UJ	-	9.58 J	-	7.45 JN	-	11.7	-	< 10.9 U
PCB-078	70362-49-1	pg/L	64	14000	-	< 7.12 U	-	< 6.05 U	-	< 5.59 U	-	< 7.12 U	-	< 11.1 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 5.96 U	-	< 5.16 U	-	< 4.69 U	-	< 5.97 U	-	< 9.44 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 6.65 U	-	< 5.75 U	-	< 5.3 U	-	< 6.75 U	-	< 9.98 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 6.66 U	-	< 5.96 U	-	< 5.28 U	-	< 6.72 U	-	< 10.2 U
PCB-082	52663-62-4	pg/L	64	14000	-	< 8.5 UJ	-	14.3 J	-	< 7.98 UJ	-	13.7 JN	-	< 10.6 U
PCB-083	60145-20-2	pg/L	64	14000	-	10.4 JN	-	15.3 J	-	8.18 JN	-	10.6 JN	-	< 14.3 UJ
PCB-084	52663-60-2	pg/L	64	14000	-	44.5 J	-	70.7 J	-	56.9	-	51.6 JN	-	46.4 JN

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0034-PLW	23B-0034-PLW	23B-0035-PLW	23B-0035-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0037-PLW	23B-0037-PLW
					Sample Name	23B-0034-PLW-AS-F	23B-0034-PLW-AS-T	23B-0035-PLW-AS-F	23B-0035-PLW-AS-T	23B-0036-PLW-AS-F	23B-0036-PLW-AS-T	23B-0036-PLW-BS-F	23B-0036-PLW-BS-T	23B-0037-PLW-AS-F	23B-0037-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	2.9 - 2.9 ft	2.9 - 2.9 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	20.7 JN	-	24.7 J	-	16.2 JN	-	22.8	-	17.6 J
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	84.7 J	-	108 J	-	91.7	-	104	-	78.9
PCB-088	55215-17-3	pg/L	64	14000	-	< 10.8 U	-	< 11 U	-	< 9.24 U	-	< 8.84 U	-	< 11.5 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 8.62 U	-	< 8.78 U	-	< 7.98 U	-	< 7.63 U	-	< 10.1 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	153 J	-	176 J	-	144	-	175	-	130
PCB-091	68194-05-8	pg/L	64	14000	-	30.7 JN	-	48.3 J	-	38.2	-	45.3	-	35.5
PCB-092	52663-61-3	pg/L	64	14000	-	48.2 J	-	61.9 J	-	51.7	-	58.9	-	47.6 J
PCB-093/100	PCB-93/100	pg/L			-	< 9.39 U	-	< 9.53 U	-	< 8.55 U	-	< 8.17 U	-	< 11.6 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 10.1 UJ	-	< 10.2 UJ	-	< 9.19 U	-	< 8.79 U	-	< 12 U
PCB-095	38379-99-6	pg/L	64	14000	-	153 J	-	180 J	-	159	-	174	-	130
PCB-096	73575-54-9	pg/L	64	14000	-	3.65 JN	-	< 3.64 U	-	4.27 J	-	< 4.19 U	-	< 4.03 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 8.64 U	-	< 8.71 U	-	< 7.16 U	-	< 6.84 U	-	< 9.67 U
PCB-099	38380-01-7	pg/L	64	14000	-	58.8 J	-	73 J	-	53.7	-	65.9	-	45.2 JN
PCB-102	68194-06-9	pg/L	64	14000	-	< 6.85 UJ	-	< 6.82 UJ	-	< 7.36 U	-	< 7.03 U	-	< 8.39 UJ
PCB-103	60145-21-3	pg/L	64	14000	-	< 8.71 UJ	-	< 8.67 UJ	-	< 8.13 U	-	< 7.77 U	-	< 10.1 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 3.32 U	-	< 3.15 U	-	< 2.99 U	-	< 3.59 U	-	< 3.69 U
PCB-105	32598-14-4	pg/L	64	14000	-	19.5 JN	-	19.5 JN	-	19.1	-	26.4 JN	-	16
PCB-106	70424-69-0	pg/L	64	14000	-	< 6.19 U	-	< 5.82 U	-	< 5.46 U	-	< 5.22 U	-	< 7.33 U
PCB-107	70424-68-9	pg/L	64	14000	-	5.08 JN	-	8.09 J	-	< 5.15 U	-	< 4.93 U	-	< 7.03 U
PCB-108/124	PCB-108/124	pg/L			-	< 6.62 U	-	< 6.6 U	-	< 5.98 U	-	< 5.72 U	-	< 7.96 U
PCB-110	38380-03-9	pg/L	64	14000	-	140 J	-	172 J	-	174	-	195	-	133
PCB-111	39635-32-0	pg/L	64	14000	-	< 6.32 U	-	< 6.41 U	-	< 5.84 U	-	< 5.58 U	-	< 7.83 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 5.28 U	-	< 5.41 U	-	< 5.1 U	-	< 4.88 U	-	< 6.64 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 5.56 U	-	< 6.13 U	-	< 5.88 U	-	< 5.43 U	-	< 8.44 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 5.57 U	-	< 5.71 U	-	< 4.64 U	-	< 4.44 U	-	< 6.32 U
PCB-117	68194-11-6	pg/L	64	14000	-	4.71 JN	-	13.4 J	-	< 6.45 U	-	7.93 JN	-	< 8.29 U
PCB-118	31508-00-6	pg/L	64	14000	-	74.3 J	-	76.4 JN	-	66.7	-	84.4	-	65.5
PCB-120	68194-12-7	pg/L	64	14000	-	< 5.19 U	-	< 5.31 U	-	< 4.84 U	-	< 4.63 U	-	< 6.49 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 5.75 U	-	< 5.92 U	-	< 5.43 U	-	< 5.19 U	-	< 7.19 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 7.32 U	-	< 7.95 U	-	< 7.58 U	-	< 7 U	-	< 11 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 5.73 U	-	< 6.04 U	-	< 5.39 U	-	< 5.15 U	-	< 7.46 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 4.08 U	-	< 4.9 U	-	< 4.2 U	-	< 5.05 U	-	< 7.73 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 5.84 U	-	< 6.3 U	-	< 5.54 U	-	< 6.02 U	-	< 7.84 U
PCB-128/166	PCB-128/166	pg/L			-	14.7 J	-	21.4 J	-	10.9 JN	-	20.1 JN	-	11.1 JN
PCB-129/138/163	PCB-129/138/163	pg/L			-	107 J	-	117 J	-	102	-	135	-	101
PCB-130	52663-66-8	pg/L	64	14000	-	8.3 JN	-	< 3.13 UJ	-	< 3.98 U	-	< 5.77 U	-	< 4.35 U
PCB-131	61798-70-7	pg/L	64	14000	-	< 4.12 U	-	< 2.89 U	-	< 3.65 U	-	< 5.29 U	-	< 3.93 U
PCB-132	38380-05-1	pg/L	64	14000	-	31 J	-	28.4 JN	-	36.5	-	38.2 JN	-	29.1
PCB-133	35694-04-3	pg/L	64	14000	-	< 3.55 U	-	< 2.53 U	-	< 3.2 U	-	< 4.64 U	-	< 3.41 U
PCB-134	52704-70-8	pg/L	64	14000	-	< 5.12 UJ	-	< 3.6 UJ	-	< 4.22 U	-	14.2	-	7.69 JN
PCB-135/151	PCB-135/151	pg/L			-	24.2 JN	-	28.7 J	-	25.8 JN	-	34.1	-	26.9
PCB-136	38411-22-2	pg/L	64	14000	-	16.1 J	-	15.9 J	-	11.3 JN	-	17	-	9.41 J
PCB-137	35694-06-5	pg/L	64	14000	-	6.66 J	-	< 2.97 UJ	-	< 3.61 U	-	< 5.24 U	-	< 3.94 U
PCB-139/140	PCB-139/140	pg/L			-	< 3.58 U	-	< 2.54 U	-	< 3.18 U	-	< 4.61 U	-	< 3.42 U
PCB-141	52712-04-6	pg/L	64	14000	-	13.1 J	-	8.22 JN	-	15.5	-	13.3 JN	-	11.5 J
PCB-142	41411-61-4	pg/L	64	14000	-	< 4.03 U	-	< 2.84 U	-	< 3.64 U	-	< 5.28 U	-	< 3.9 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 3.5 U	-	< 2.46 U	-	< 3.32 U	-	< 4.82 U	-	< 3.6 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 3.77 UJ	-	4.31 JN	-	< 3.33 U	-	< 4.83 U	-	< 3.58 U
PCB-145	74472-40-5	pg/L	64	14000	-	< 2.8 U	-	< 1.99 U	-	< 2.38 U	-	< 3.58 U	-	< 2.52 U
PCB-146	51908-16-8	pg/L	64	14000	-	13.2 J	-	12.8 J	-	10.3 J	-	11.9 JN	-	9.25 JN
PCB-147/149	PCB-147/149	pg/L			-	67.9 J	-	83.5 J	-	66.5	-	90.7	-	50.1 JN
PCB-148	74472-41-6	pg/L	64	14000	-	< 3.69 U	-	< 2.57 U	-	< 3.29 U	-	< 4.77 U	-	< 3.47 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 2.96 U	-	< 2.08 U	-	< 2.48 U	-	< 3.74 U	-	< 2.61 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 2.63 U	-	< 1.88 U	-	< 2.29 U	-	< 3.45 U	-	< 2.38 U
PCB-153/168	PCB-153/168	pg/L			-	69 J	-	92.1 J	-	68.1	-	93.5	-	76.9
PCB-154	60145-22-4	pg/L	64	14000	-	< 3.43 U	-	< 2.39 U	-	< 3.05 U	-	< 4.43 U	-	< 3.26 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0034-PLW	23B-0034-PLW	23B-0035-PLW	23B-0035-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0037-PLW	23B-0037-PLW
					Sample Name	23B-0034-PLW-AS-F	23B-0034-PLW-AS-T	23B-0035-PLW-AS-F	23B-0035-PLW-AS-T	23B-0036-PLW-AS-F	23B-0036-PLW-AS-T	23B-0036-PLW-BS-F	23B-0036-PLW-BS-T	23B-0037-PLW-AS-F	23B-0037-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	2.9 - 2.9 ft	2.9 - 2.9 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 2.42 U	-	< 1.77 U	-	< 2.1 U	-	< 3.17 U	-	< 2.35 U
PCB-156/157	PCB-156/157	pg/L			-	9.04 JN	-	10.8 J	-	5.83 J	-	11.6 J	-	7.74 JN
PCB-158	74472-42-7	pg/L	64	14000	-	10.3 J	-	10.2 JN	-	< 2.49 U	-	9.24 JN	-	5.2 JN
PCB-159	39635-35-3	pg/L	64	14000	-	< 3.47 U	-	< 3.8 U	-	< 4.75 U	-	< 4.51 U	-	< 3.58 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 3.19 U	-	< 2.25 U	-	< 2.65 U	-	< 3.85 U	-	< 2.95 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 2.71 U	-	< 1.93 U	-	< 2.37 U	-	< 3.43 U	-	< 2.55 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 4.14 U	-	< 4.54 U	-	< 5.58 U	-	< 5.3 U	-	< 4.13 U
PCB-164	74472-45-0	pg/L	64	14000	-	3.76 JN	-	6.76 J	-	< 2.37 U	-	8.9 J	-	< 2.62 U
PCB-165	74472-46-1	pg/L	64	14000	-	< 3.11 U	-	< 2.23 U	-	< 2.76 U	-	< 4 U	-	< 3 U
PCB-167	52663-72-6	pg/L	64	14000	-	< 3.9 UJ	-	2.86 JN	-	< 5.42 U	-	5.87 JN	-	< 3.97 U
PCB-169	32774-16-6	pg/L	4	14000	-	< 6.65 U	-	< 6.04 U	-	< 7.11 U	-	< 7.65 U	-	< 7.47 U
PCB-170	35065-30-6	pg/L	64	14000	-	< 9.9 UJ	-	15.4 JN	-	11 JN	-	12.3 JN	-	< 9.81 U
PCB-171/173	PCB-171/173	pg/L			-	< 11.1 U	-	< 10 U	-	< 7.53 U	-	< 9.74 U	-	< 8.61 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 10.5 U	-	< 9.36 U	-	< 7.12 U	-	< 9.22 U	-	< 8.21 U
PCB-174	38411-25-5	pg/L	64	14000	-	< 9.79 UJ	-	8.45 JN	-	9.28 JN	-	12.9 JN	-	< 7.35 U
PCB-175	40186-70-7	pg/L	64	14000	-	< 10.8 U	-	< 9.79 U	-	< 7.22 U	-	< 9.34 U	-	< 8.14 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 3.27 U	-	< 4.27 U	-	< 4.14 U	-	< 5.11 U	-	< 5.57 U
PCB-177	52663-70-4	pg/L	64	14000	-	< 9.96 UJ	-	< 8.97 UJ	-	< 6.8 U	-	< 8.8 U	-	< 7.53 U
PCB-178	52663-67-9	pg/L	64	14000	-	< 4.14 U	-	< 5.35 U	-	< 5.18 U	-	4.17 JN	-	< 7.06 U
PCB-179	52663-64-6	pg/L	64	14000	-	6.02 JN	-	< 3.67 UJ	-	< 3.62 U	-	7.73 JN	-	< 4.84 U
PCB-180/193	PCB-180/193	pg/L			-	27 J	-	28.3 JN	-	22.1 J+	-	32 J+	-	20.4 JN
PCB-181	74472-47-2	pg/L	64	14000	-	< 9.43 U	-	< 8.49 U	-	< 6.32 U	-	< 8.18 U	-	< 7.24 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 8.85 U	-	< 8.02 U	-	< 5.99 U	-	< 7.76 U	-	< 6.79 U
PCB-183	52663-69-1	pg/L	64	14000	-	< 9.91 UJ	-	< 8.81 UJ	-	< 6.51 U	-	< 8.42 U	-	< 7.35 U
PCB-184	74472-48-3	pg/L	64	14000	-	< 3.08 U	-	< 3.93 U	-	< 3.85 U	-	< 4.76 U	-	< 5.17 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 11 U	-	< 9.84 U	-	< 7.47 U	-	< 9.66 U	-	< 9.03 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 2.74 U	-	< 3.57 U	-	< 3.46 U	-	< 4.27 U	-	< 4.68 U
PCB-187	52663-68-0	pg/L	64	14000	-	9.45 JN	-	17.6 J	-	10.3 J	-	14.1 JN	-	< 6.8 UJ
PCB-188	74487-85-7	pg/L	64	14000	-	< 2.79 U	-	< 3.5 U	-	< 3.51 U	-	< 4.33 U	-	< 4.88 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 5.04 U	-	< 4.83 U	-	< 3.78 U	-	< 3.64 U	-	< 6.02 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 7.12 U	-	< 7.19 U	-	< 6.03 U	-	< 6.9 U	-	< 7.26 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 8.52 U	-	< 7.58 U	-	< 5.72 U	-	< 7.4 U	-	< 6.66 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 7.47 U	-	< 6.67 U	-	< 5.04 U	-	< 6.52 U	-	< 5.76 U
PCB-194	35694-08-7	pg/L	64	14000	-	4.02 JN	-	8 J	-	5.83 JN	-	7.71 JN	-	< 3.83 U
PCB-195	52663-78-2	pg/L	64	14000	-	< 2.93 U	-	< 3.67 U	-	< 4.22 U	-	< 5.14 U	-	< 3.94 U
PCB-196	42740-50-1	pg/L	64	14000	-	< 3.18 UJ	-	< 1.55 UJ	-	3.37 J	-	< 2.55 U	-	< 2.06 U
PCB-197	33091-17-7	pg/L	64	14000	-	< 2.44 U	-	< 1.15 U	-	< 1.79 U	-	< 1.88 U	-	< 1.56 U
PCB-198/199	PCB-198/199	pg/L			-	2.8 JN	-	9.47 J	-	6.35 J	-	5.72 JN	-	5.59 JN
PCB-200	52663-73-7	pg/L	64	14000	-	< 2.54 U	-	< 1.24 U	-	< 1.94 U	-	< 2.05 U	-	< 1.55 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 2.61 U	-	< 1.27 U	-	< 1.98 U	-	< 2.08 U	-	< 1.65 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 2.09 U	-	< 1.01 U	-	< 1.64 U	-	< 1.72 U	-	< 1.36 U
PCB-203	52663-76-0	pg/L	64	14000	-	< 2.62 UJ	-	5.54 JN	-	3.47 JN	-	< 2.07 U	-	< 1.69 U
PCB-204	74472-52-9	pg/L	64	14000	-	< 2.29 U	-	< 1.12 U	-	< 1.74 U	-	< 1.84 U	-	< 1.43 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 2.36 U	-	< 2.97 U	-	< 3.37 U	-	< 4.11 U	-	< 3.29 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 19.8 UJ	-	< 20 UJ	-	< 19.8 UJ	-	< 19.8 UJ	-	< 19.7 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 6.67 U	-	< 4.63 U	-	< 5.71 U	-	< 6.89 U	-	< 9.97 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 5.69 U	-	< 4.04 U	-	< 5.01 U	-	4.31 JN	-	< 8.91 U
PCB-209	2051-24-3	pg/L	64	14000	-	6.48 J	-	9.76 J	-	< 4.16 U	-	< 7.15 U	-	6.76 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	6.48	-	9.76	-	< 4.16 U	-	< 7.15 U	-	6.76
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	42.5	-	69.8	-	52.7	-	83.2	-	20.4
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	394	-	443	-	353	-	504	-	346
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	6.82	-	23.0	-	19.0	-	13.4	-	5.59
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	8150	-	9520	-	9360	-	10200	-	8260
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	851	-	1060	-	884	-	1040	-	746
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	2480	-	2710	-	2940	-	2960	-	2800
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	57.4	-	72.6	-	47.2	-	73.6	-	25.8
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 19.8 U	-	< 20 U	-	< 19.8 U	-	4.31	-	< 19.7 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1890	-	2250	-	2160	-	2400	-	1700
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	2430	-	2890	-	2900	-	3110	-	2610

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0034-PLW	23B-0034-PLW	23B-0035-PLW	23B-0035-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0037-PLW	23B-0037-PLW
					Sample Name	23B-0034-PLW-AS-F	23B-0034-PLW-AS-T	23B-0035-PLW-AS-F	23B-0035-PLW-AS-T	23B-0036-PLW-AS-F	23B-0036-PLW-AS-T	23B-0036-PLW-BS-F	23B-0036-PLW-BS-T	23B-0037-PLW-AS-F	23B-0037-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	2.9 - 2.9 ft	2.9 - 2.9 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	25 J+	54	20 J+	43 J+	26 J+	59 J+	21 J+	45 J+	23 J+	48 J+
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	< 2.0 U	0.17 J	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150	< 1.0 U	0.50 J	< 1.0 U	0.49 J	< 1.0 U	0.51 J	< 1.0 U	0.45 J	< 1.0 U	0.52 J
Barium	7440-39-3	ug/L	380	220	40	41	39	39	41	41	41	40	42	41
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	16000	17000	16000	16000	16000	17000	17000	16000	16000	17000
Chromium, Total	7440-47-3	ug/L	100	44	< 2.0 UJ	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 UJ	2.1 J+	< 2.0 UJ	< 2.0 U	5.1 J	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.18 J	0.23 J	0.20 J	< 1.0 U	0.17 J	< 1.0 U	0.18 J	< 1.0 U	0.21 J	< 1.0 U
Copper	7440-50-8	ug/L	80	5	1.2 J	1.5 J	1.4 J	25	1.5 J	1.5 J	1.2 J	1.4 J	1.4 J	1.4 J
Iron	7439-89-6	ug/L	1400	1000	870	1500	540	1500	970	1500	630	1500	590	1500
Lead	7439-92-1	ug/L	15	0.54	0.68 J	1.2 J+	0.52 J	1.2 J+	0.81 J	1.9 J+	0.54 J	1.1 J+	0.64 J	1.2 J+
Magnesium	7439-95-4	ug/L		82000	3900	4500	3800	4400	3900	4400	4000	4400	4000	4400
Manganese	7439-96-5	ug/L	43	93	120	150	130	150	130	160	130	160	130	160
Nickel	7440-02-0	ug/L	39	27	< 1.0 U	0.67 J-	1.4 J+	< 1.0 UJ	< 1.0 U	1.4 J	< 1.0 U	< 1.0 UJ	2.4 J+	< 1.0 UJ
Potassium	7440-09-7	ug/L		53000	2800	3300	2900	3300	2900	3300	2900	3300	3000	3300
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 UJ
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	65000	75000	66000	73000	68000	75000	68000	75000	69000	100000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.50 J	0.82 J	0.43 J	< 5.0 U	0.57 J	< 5.0 U	0.43 J	< 5.0 U	0.46 J	< 5.0 U
Zinc	7440-66-6	ug/L	600	11.8	< 5.0 U	7.3 J+	5.4 J+	5.4 J+	< 5.0 U	< 5.0 U	< 5.0 U	5.4 J+	7.9 J+	5.7 J+
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 UJ	-	0.10 J	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0034-PLW	23B-0034-PLW	23B-0035-PLW	23B-0035-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0037-PLW	23B-0037-PLW
					Sample Name	23B-0034-PLW-AS-F	23B-0034-PLW-AS-T	23B-0035-PLW-AS-F	23B-0035-PLW-AS-T	23B-0036-PLW-AS-F	23B-0036-PLW-AS-T	23B-0036-PLW-BS-F	23B-0036-PLW-BS-T	23B-0037-PLW-AS-F	23B-0037-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	2.9 - 2.9 ft	2.9 - 2.9 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	0.44 J	-	< 0.50 U	-	0.51 J+	-	0.53 J+	-	0.84 J+	
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	0.11 J	-	< 0.50 U	-	0.13 J	-	0.12 J	
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	0.070 J	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
Styrene	100-42-5	ug/L	100	32	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 R	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ	-	< 5.1 UJ	-	< 5.0 UJ	
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0034-PLW	23B-0034-PLW	23B-0035-PLW	23B-0035-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0037-PLW	23B-0037-PLW
					Sample Name	23B-0034-PLW-AS-F	23B-0034-PLW-AS-T	23B-0035-PLW-AS-F	23B-0035-PLW-AS-T	23B-0036-PLW-AS-F	23B-0036-PLW-AS-T	23B-0036-PLW-BS-F	23B-0036-PLW-BS-T	23B-0037-PLW-AS-F	23B-0037-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	2.9 - 2.9 ft	2.9 - 2.9 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.9 U	-	< 1.7 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.9 U	-	< 1.7 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.9 U	-	< 1.7 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.9 U	-	< 1.7 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.9 U	-	< 1.7 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.1	-	3.0 J	-	3.1 J+	-	3.1 J+	-	2.9 J
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	4.2	-	4.9 J	-	4.8 J-	-	4.6	-	3.6 J
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.9 U	-	< 1.7 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.29 J	-	0.27 J	-	0.38 J	-	0.33 J	-	0.41 J
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.9 U	-	< 1.7 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.9 U	-	< 1.7 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.0	-	2.0	-	2.0	-	2.0	-	2.4
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.3	-	2.4	-	2.2	-	2.6	-	2.5
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.8	-	4.0	-	4.0	-	3.7	-	4.3
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.9 U	-	< 1.7 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.80 J	-	0.76 J	-	0.97 J	-	0.74 J	-	0.92 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.9 U	-	< 1.7 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	5.7	-	5.5	-	5.5	-	5.4	-	5.9
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.5	-	5.6	-	5.5	-	5.5	-	5.7
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.43 J	-	0.38 J	-	0.55 J+	-	0.37 J+	-	0.48 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.0	-	4.0 J	-	4.2	-	4.3	-	4.3 J
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.9 U	-	< 1.7 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.9 U	-	< 1.7 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0034-PLW	23B-0034-PLW	23B-0035-PLW	23B-0035-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0036-PLW	23B-0037-PLW	23B-0037-PLW
				Sample Name	23B-0034-PLW-AS-F	23B-0034-PLW-AS-T	23B-0035-PLW-AS-F	23B-0035-PLW-AS-T	23B-0036-PLW-AS-F	23B-0036-PLW-AS-T	23B-0036-PLW-BS-F	23B-0036-PLW-BS-T	23B-0037-PLW-AS-F	23B-0037-PLW-AS-T
				Sample Date	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1.5 - 1.5 ft	1.5 - 1.5 ft	2.9 - 2.9 ft	2.9 - 2.9 ft	1 - 1 ft	1 - 1 ft	5.1 - 5.1 ft	5.1 - 5.1 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.9 U	-	< 1.7 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.67	-	8.71	-	8.91	-	8.68	-	8.79
Oxidation-Reduction Potential	ORP	mv			-	145.2	-	186.2	-	198.7	-	206.1	-	150.6
pH	PH	su			-	6.72	-	6.82	-	6.94	-	6.93	-	6.96
Specific Conductance	SC	us/cm			-	488.4	-	484.5	-	485.6	-	484.9	-	485.6
Temperature	TEMP	deg c			-	13	-	13.3	-	13.2	-	13.1	-	13.1
Turbidity	TURB	NTU			-	2	-	1.71	-	1.77	-	1.77	-	1.71

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0037-PLW	23B-0037-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW
					Sample Name	23B-0037-PLW-BS-F	23B-0037-PLW-BS-T	23B-0038-PLW-AS-F	23B-0038-PLW-AS-T	23B-0038-PLW-BS-F	23B-0038-PLW-BS-T	23B-0039-PLW-AS-F	23B-0039-PLW-AS-T	23B-0039-PLW-BS-F	23B-0039-PLW-BS-T
					Sample Date	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	5.3 - 5.3 ft	5.3 - 5.3 ft	1 - 1 ft	1 - 1 ft	4.6 - 4.6 ft	4.6 - 4.6 ft	1 - 1 ft	1 - 1 ft	4.9 - 4.9 ft	4.9 - 4.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.052 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.052 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.052 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.052 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.052 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.052 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.052 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.052 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.052 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.52 U	-	< 0.51 U	-	< 0.51 U	-	< 0.50 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.052 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.38 U	-	< 1.88 U	-	2.45 JN	-	4.24 J	-	< 1.83 U
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.01 U	-	< 1.23 U	-	< 0.858 U	-	< 1.22 U	-	< 1.25 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.49 U	-	2.05 JN	-	< 1.84 U	-	< 2.02 U	-	< 1.83 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.07 U	-	< 1.5 U	-	< 1.05 U	-	< 0.943 U	-	< 1.27 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.7 U	-	< 2.36 U	-	< 1.7 U	-	< 2.11 U	-	< 2.05 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.01 U	-	< 1.49 U	-	< 1.06 U	-	< 0.919 U	-	< 1.22 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.6 U	-	< 2.3 U	-	< 1.64 U	-	< 1.92 U	-	< 1.69 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.31 U	-	< 1.77 U	-	< 1.34 U	-	< 1.11 U	-	< 1.62 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.34 U	-	< 1.55 U	-	< 1.13 UJ	-	< 1.71 U	-	< 1.65 U
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 0.93 U	-	< 1.36 U	-	< 1.01 U	-	< 0.87 U	-	< 1.42 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 0.787 U	-	< 0.934 U	-	1.84 J	-	3.26 J	-	< 1.1 U
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.2 U	-	< 1.54 U	-	< 1.11 U	-	< 1.12 U	-	< 1.31 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 0.961 U	-	< 1.37 U	-	< 1.05 U	-	< 0.844 U	-	< 1.34 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 10.1 UJ	-	< 9.7 UJ	-	< 9.8 UJ	-	< 9.62 UJ	-	< 10 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 0.912 U	-	< 1.63 U	-	< 0.671 U	-	< 1.01 U	-	< 1.37 U
OCDD	3268-87-9	pg/L	400	31	-	6.54 J+	-	8.92 J+	-	14.1 JN	-	13.4 J	-	< 5.68 U
OCDF	39001-02-0	pg/L	400	31	-	< 1.91 U	-	< 2.27 U	-	< 1.89 U	-	< 2.52 U	-	< 2.99 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.38 U	-	< 1.88 U	-	2.45	-	4.24 U	-	< 1.83 U
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 1.01 U	-	< 1.23 U	-	1.84	-	3.26 U	-	< 1.25 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 1.7 U	-	2.05 U	-	< 1.84 U	-	< 2.11 U	-	< 2.05 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.31 U	-	< 1.77 U	-	< 1.34 U	-	< 1.12 U	-	< 1.62 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.34 U	-	< 1.55 U	-	< 1.13 U	-	< 1.71 U	-	< 1.65 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 0.961 U	-	< 1.37 U	-	< 1.05 U	-	< 0.87 U	-	< 1.42 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 10.1 U	-	< 9.7 U	-	< 9.8 U	-	< 9.62 U	-	< 10 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 0.912 U	-	< 1.63 U	-	< 0.671 U	-	< 1.01 U	-	< 1.37 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	14.1	-	56.4	-	67	-	31.1 J	-	47.9 J
PCB-002	2051-61-8	pg/L	64	14000	-	< 5.28 U	-	< 4.25 U	-	< 5.39 U	-	< 2.57 U	-	< 2.93 U
PCB-003	2051-62-9	pg/L	64	14000	-	< 5.18 UJ	-	10.6 JN	-	24.3 J	-	12.5 JN	-	13.8 JN
PCB-004	13029-08-8	pg/L	64	14000	-	1840 J	-	547 J	-	930 J	-	2320 J	-	2380 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 8.29 U	-	< 9.51 U	-	< 12.1 U	-	< 10.8 U	-	< 3.51 U
PCB-006	25569-80-6	pg/L	64	14000	-	< 6.72 UJ	-	10.6 JN	-	24.2 JN	-	16.6 JN	-	23.2 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 7.91 U	-	< 8.92 U	-	< 11.4 U	-	< 10.3 U	-	< 3.34 U
PCB-008	34883-43-7	pg/L	64	14000	-	19.2 JN	-	36.7 JN	-	147 JN	-	53.9 JN	-	61 JN
PCB-009	34883-39-1	pg/L	64	14000	-	< 7.08 U	-	< 8.18 U	-	< 10.4 U	-	< 9.16 U	-	< 2.98 U
PCB-010	33146-45-1	pg/L	64	14000	-	349	-	436	-	415	-	418	-	414

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0037-PLW	23B-0037-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW
					Sample Name	23B-0037-PLW-BS-F	23B-0037-PLW-BS-T	23B-0038-PLW-AS-F	23B-0038-PLW-AS-T	23B-0038-PLW-BS-F	23B-0038-PLW-BS-T	23B-0039-PLW-AS-F	23B-0039-PLW-AS-T	23B-0039-PLW-BS-F	23B-0039-PLW-BS-T
					Sample Date	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	5.3 - 5.3 ft	5.3 - 5.3 ft	1 - 1 ft	1 - 1 ft	4.6 - 4.6 ft	4.6 - 4.6 ft	1 - 1 ft	1 - 1 ft	4.9 - 4.9 ft	4.9 - 4.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	16.8 JN	-	12.8 JN	-	13.8 JN	-	111 J+	-	101 J+
PCB-012/013	PCB-12/13	pg/L			-	8.53 JN	-	11.7 JN	-	22.6 JN	-	16.2 JN	-	19.9 JN
PCB-014	34883-41-5	pg/L	64	14000	-	< 7.71 U	-	< 9.01 U	-	< 11.5 U	-	< 10 U	-	< 3.27 U
PCB-015	2050-68-2	pg/L	64	14000	-	253 J	-	342 J	-	604 J	-	354 J	-	321 J
PCB-016	38444-78-9	pg/L	64	14000	-	36.8	-	< 19.6 U	-	83.9 JN	-	55	-	59
PCB-017	37680-66-3	pg/L	64	14000	-	348	-	175	-	506	-	409	-	428
PCB-018/030	PCB-18/30	pg/L			-	204	-	113	-	412	-	279	-	284
PCB-019	38444-73-4	pg/L	64	14000	-	627 J	-	828 J	-	919 J	-	724 J	-	726 J
PCB-020/028	PCB-20/28	pg/L			-	153	-	146	-	560	-	287	-	315
PCB-021/033	PCB-21/33	pg/L			-	< 21.4 U	-	< 22 U	-	< 21.9 U	-	24.5 J+	-	25.4 JN
PCB-022	38444-85-8	pg/L	64	14000	-	< 19.1 U	-	< 20.1 U	-	< 19.9 U	-	17.8 J	-	19.7 JN
PCB-023	55720-44-0	pg/L	64	14000	-	< 22.5 U	-	< 23.2 U	-	< 23 U	-	< 12.6 U	-	< 11.3 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 12.5 U	-	< 14 U	-	< 15.3 U	-	< 9.64 U	-	< 8.96 U
PCB-025	55712-37-3	pg/L	64	14000	-	64.3	-	31.5	-	108	-	119	-	119
PCB-026/029	PCB-26/29	pg/L			-	170	-	82.1	-	259	-	243	-	253
PCB-027	38444-76-7	pg/L	64	14000	-	294	-	366	-	475	-	317	-	317
PCB-031	16606-02-3	pg/L	64	14000	-	145	-	65.1	-	253	-	258	-	305
PCB-032	38444-77-8	pg/L	64	14000	-	328	-	378	-	622	-	334	-	375
PCB-034	37680-68-5	pg/L	64	14000	-	< 22.9 U	-	< 23 U	-	< 22.9 U	-	< 12.8 U	-	< 11.4 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 21.3 U	-	< 21.2 U	-	< 21 U	-	< 11.3 U	-	< 10.1 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 18.5 U	-	< 19 U	-	< 18.9 U	-	< 10.1 U	-	< 9.07 U
PCB-037	38444-90-5	pg/L	64	14000	-	< 19.8 U	-	32.5	-	72.9 JN	-	34.2	-	52.9
PCB-038	53555-66-1	pg/L	64	14000	-	< 20.7 U	-	< 20.9 U	-	< 20.8 U	-	< 11.3 U	-	< 10.1 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 20.6 U	-	< 21 U	-	< 20.9 U	-	< 11.3 U	-	< 10.1 U
PCB-040/071	PCB-40/71	pg/L			-	78.4 JN	-	99.5	-	292	-	110	-	154
PCB-041	52663-59-9	pg/L	64	14000	-	< 9.15 U	-	< 7.04 U	-	< 8.37 U	-	8.73 JN	-	29.6
PCB-042	36559-22-5	pg/L	64	14000	-	60.7	-	79.7	-	223	-	76	-	116
PCB-043	70362-46-8	pg/L	64	14000	-	11.9	-	12.5	-	39.5	-	11.3 JN	-	18.7
PCB-044/047/065	PCB-44/47/65	pg/L			-	346	-	411	-	916	-	425	-	541
PCB-045	70362-45-7	pg/L	64	14000	-	24.8 JN	-	43.8 J	-	95.7 J	-	43	-	58.4
PCB-046	41464-47-5	pg/L	64	14000	-	27.1	-	39.6	-	86.2	-	36	-	49.8
PCB-048	70362-47-9	pg/L	64	14000	-	12.8 JN	-	16.7	-	45.8	-	19.5 JN	-	45.2 JN
PCB-049/069	PCB-49/69	pg/L			-	228	-	259	-	594	-	289	-	348
PCB-050/053	PCB-50/53	pg/L			-	201	-	239	-	380	-	230	-	273
PCB-051	68194-04-7	pg/L	64	14000	-	58.9	-	67.5	-	114	-	63	-	86.7
PCB-052	35693-99-3	pg/L	64	14000	-	338	-	383	-	803	-	396	-	505
PCB-054	15968-05-5	pg/L	64	14000	-	14.6 JN	-	18.3 JN	-	21.9	-	22.1	-	17 JN
PCB-055	74338-24-2	pg/L	64	14000	-	< 7.67 U	-	< 9.46 U	-	< 8.02 U	-	< 4.64 U	-	< 5.35 U
PCB-056	41464-43-1	pg/L	64	14000	-	18.7	-	15.6	-	61.7 JN	-	27.4 JN	-	90.2
PCB-057	70424-67-8	pg/L	64	14000	-	< 8.41 U	-	< 10.1 U	-	< 8.59 U	-	5.58 JN	-	6.77 J
PCB-058	41464-49-7	pg/L	64	14000	-	< 7.58 U	-	< 9.11 U	-	< 7.73 U	-	< 4.52 U	-	< 5.22 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	26.5 J	-	37.1	-	81	-	29.1	-	45
PCB-060	33025-41-1	pg/L	64	14000	-	< 9.46 UJ	-	< 11.6 UJ	-	14.3 J	-	12.9 JN	-	52.1
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	125	-	119	-	460	-	166	-	358
PCB-063	74472-34-7	pg/L	64	14000	-	< 9.44 UJ	-	< 11.2 UJ	-	31.5 J	-	15.7	-	19.6
PCB-064	52663-58-8	pg/L	64	14000	-	78.8	-	92.8	-	276	-	94	-	160
PCB-066	32598-10-0	pg/L	64	14000	-	62.4 JN	-	92	-	317	-	98.4	-	185
PCB-067	73575-53-8	pg/L	64	14000	-	< 7.69 U	-	< 9.13 U	-	9 JN	-	< 4.44 U	-	< 5.12 U
PCB-068	73575-52-7	pg/L	64	14000	-	< 8.34 U	-	< 10.3 U	-	11.7 JN	-	9.61 J	-	8.06 JN
PCB-072	41464-42-0	pg/L	64	14000	-	< 8.21 U	-	< 10 U	-	15.2 JN	-	10.1	-	9.49 JN
PCB-073	74338-23-1	pg/L	64	14000	-	8.47 JN	-	10.3 JN	-	14.1 JN	-	8.38 J	-	15 J
PCB-077	32598-13-3	pg/L	64	14000	-	< 8.78 U	-	9.23 JN	-	27.1	-	10.3	-	26.7
PCB-078	70362-49-1	pg/L	64	14000	-	< 8.63 U	-	< 10.6 U	-	< 8.97 U	-	< 4.98 U	-	< 5.74 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 7.49 U	-	< 9.01 U	-	< 7.64 U	-	< 4.29 U	-	< 4.95 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 7.83 U	-	< 9.53 U	-	< 8.08 U	-	< 4.73 U	-	< 5.45 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 7.75 U	-	< 9.7 U	-	< 8.22 U	-	< 4.8 U	-	< 5.54 U
PCB-082	52663-62-4	pg/L	64	14000	-	9.61 JN	-	17.6	-	21.9	-	16.2 JN	-	26.7 J
PCB-083	60145-20-2	pg/L	64	14000	-	< 12.6 UJ	-	< 15.7 UJ	-	22.7 J	-	< 10 UJ	-	9.35 JN
PCB-084	52663-60-2	pg/L	64	14000	-	39.5 JN	-	63.1 JN	-	94.1	-	67.8	-	93

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0037-PLW	23B-0037-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW
					Sample Name	23B-0037-PLW-BS-F	23B-0037-PLW-BS-T	23B-0038-PLW-AS-F	23B-0038-PLW-AS-T	23B-0038-PLW-BS-F	23B-0038-PLW-BS-T	23B-0039-PLW-AS-F	23B-0039-PLW-AS-T	23B-0039-PLW-BS-F	23B-0039-PLW-BS-T
					Sample Date	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	5.3 - 5.3 ft	5.3 - 5.3 ft	1 - 1 ft	1 - 1 ft	4.6 - 4.6 ft	4.6 - 4.6 ft	1 - 1 ft	1 - 1 ft	4.9 - 4.9 ft	4.9 - 4.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	15.9 JN	-	25.3 J	-	33.8 JN	-	22.1 JN	-	37.4
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	71.9 JN	-	100	-	149	-	99	-	140
PCB-088	55215-17-3	pg/L	64	14000	-	< 12.5 U	-	< 12.6 U	-	< 9.44 U	-	< 10.2 U	-	< 10.9 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 10.3 U	-	< 11 U	-	< 8.28 U	-	< 8.21 U	-	< 8.81 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	133	-	168	-	237	-	159	-	202
PCB-091	68194-05-8	pg/L	64	14000	-	30.1 JN	-	45.9 JN	-	66.2 JN	-	41.1	-	54.4 JN
PCB-092	52663-61-3	pg/L	64	14000	-	38.3 J	-	59.1 J	-	77.3 J	-	52.3	-	55.2
PCB-093/100	PCB-93/100	pg/L			-	< 11.1 U	-	< 12.7 U	-	< 9.52 U	-	< 9.08 U	-	< 9.74 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 11.9 U	-	< 13.2 U	-	< 9.91 U	-	< 9.68 U	-	< 10.4 U
PCB-095	38379-99-6	pg/L	64	14000	-	142	-	174	-	242	-	161	-	206
PCB-096	73575-54-9	pg/L	64	14000	-	< 5.24 U	-	< 6.01 U	-	11.4	-	< 4.08 U	-	5.4 JN
PCB-098	60233-25-2	pg/L	64	14000	-	< 8.86 U	-	< 10.6 U	-	< 7.95 U	-	< 6.96 U	-	< 7.47 U
PCB-099	38380-01-7	pg/L	64	14000	-	44.8	-	64.1	-	97.7	-	76.8	-	86.9
PCB-102	68194-06-9	pg/L	64	14000	-	< 9.56 UJ	-	< 9.19 UJ	-	< 6.9 UJ	-	< 7.88 U	-	< 8.45 U
PCB-103	60145-21-3	pg/L	64	14000	-	< 10.5 U	-	< 11.1 U	-	< 8.32 U	-	< 8.33 U	-	< 8.93 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 4.72 U	-	< 5.49 U	-	< 3.74 U	-	< 3.53 U	-	< 3.13 U
PCB-105	32598-14-4	pg/L	64	14000	-	18.7	-	27.5	-	35.8	-	24.7 JN	-	55.2
PCB-106	70424-69-0	pg/L	64	14000	-	< 7.26 U	-	< 8.03 U	-	< 6.03 U	-	< 5.56 U	-	< 5.96 U
PCB-107	70424-68-9	pg/L	64	14000	-	5.89 JN	-	< 7.7 U	-	14.2	-	< 5.59 U	-	12.3 JN
PCB-108/124	PCB-108/124	pg/L			-	< 8.08 U	-	< 8.73 U	-	< 6.55 U	-	< 6.16 U	-	< 6.6 U
PCB-110	38380-03-9	pg/L	64	14000	-	117	-	189	-	298	-	164	-	195
PCB-111	39635-32-0	pg/L	64	14000	-	< 7.83 U	-	< 8.58 U	-	< 6.44 U	-	< 6.05 U	-	< 6.49 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 6.59 U	-	< 7.27 U	-	< 5.46 U	-	< 5.24 U	-	< 5.62 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 7.99 U	-	< 7.36 U	-	< 6.32 U	-	< 5.91 U	-	< 6.28 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 7.21 U	-	< 6.93 U	-	< 5.2 U	-	< 5.74 U	-	< 6.16 U
PCB-117	68194-11-6	pg/L	64	14000	-	< 8.84 U	-	< 9.09 U	-	8.5 JN	-	8.74 J	-	8.43 JN
PCB-118	31508-00-6	pg/L	64	14000	-	57.6 JN	-	91.5	-	142	-	80.4	-	108
PCB-120	68194-12-7	pg/L	64	14000	-	< 6.47 U	-	< 7.12 U	-	< 5.34 U	-	< 4.99 U	-	< 5.35 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 7.14 U	-	< 7.88 U	-	< 5.91 U	-	< 5.65 U	-	< 6.06 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 10.2 U	-	< 9.58 U	-	< 8.22 U	-	< 7.62 U	-	< 8.1 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 7.33 U	-	< 8.17 U	-	4.92 JN	-	< 5.51 U	-	< 5.91 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 6.45 U	-	< 6.51 U	-	< 5.57 U	-	< 4.99 U	-	< 4.49 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 7.24 U	-	< 7.38 U	-	< 6.45 U	-	< 6.39 U	-	< 6.79 U
PCB-128/166	PCB-128/166	pg/L			-	9.79 JN	-	19.8 JN	-	27.7	-	19.2 J	-	15.5 JN
PCB-129/138/163	PCB-129/138/163	pg/L			-	87.5	-	141	-	150	-	126	-	121
PCB-130	52663-66-8	pg/L	64	14000	-	< 7.77 U	-	10.9 JN	-	13.5	-	6.91 JN	-	6.9 JN
PCB-131	61798-70-7	pg/L	64	14000	-	< 7.29 U	-	< 3.54 U	-	< 3.86 U	-	< 4.57 U	-	< 4.66 U
PCB-132	38380-05-1	pg/L	64	14000	-	18.7 JN	-	47.5	-	40.3 JN	-	41.3 JN	-	42
PCB-133	35694-04-3	pg/L	64	14000	-	< 6.12 U	-	< 3.07 U	-	< 3.35 U	-	< 3.99 U	-	< 4.06 U
PCB-134	52704-70-8	pg/L	64	14000	-	< 8.39 U	-	6.61 JN	-	9.18 JN	-	< 5.28 U	-	< 5.37 U
PCB-135/151	PCB-135/151	pg/L			-	18.2 JN	-	31.3 JN	-	37.1 JN	-	35.9	-	27.7 JN
PCB-136	38411-22-2	pg/L	64	14000	-	11.1 J	-	16.5 JN	-	15.5 J	-	15.4	-	14.4
PCB-137	35694-06-5	pg/L	64	14000	-	< 7.51 U	-	10.1	-	5.98 JN	-	< 4.48 U	-	6.78 JN
PCB-139/140	PCB-139/140	pg/L			-	< 6.24 U	-	< 3.09 U	-	< 3.36 U	-	< 3.97 U	-	< 4.04 U
PCB-141	52712-04-6	pg/L	64	14000	-	7.98 JN	-	13.8 J	-	16.8 JN	-	14.7 JN	-	21.6
PCB-142	41411-61-4	pg/L	64	14000	-	< 6.96 U	-	< 3.52 U	-	< 3.83 U	-	< 4.45 U	-	< 4.53 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 6.15 U	-	< 3.25 U	-	< 3.54 U	-	< 3.98 U	-	< 4.06 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 6.57 U	-	< 3.22 U	-	< 3.52 U	-	< 4.1 U	-	< 4.18 U
PCB-145	74472-40-5	pg/L	64	14000	-	< 5.13 U	-	< 2.84 U	-	< 2.47 U	-	< 3.21 U	-	< 3.25 U
PCB-146	51908-16-8	pg/L	64	14000	-	< 5.73 U	-	15.3 JN	-	17	-	13.9 JN	-	14.1 JN
PCB-147/149	PCB-147/149	pg/L			-	56 JN	-	80.2	-	95.7	-	74 JN	-	69.8
PCB-148	74472-41-6	pg/L	64	14000	-	< 6.26 U	-	< 3.12 U	-	< 3.41 U	-	< 4.07 U	-	< 4.14 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 5.53 U	-	< 2.94 U	-	< 2.56 U	-	< 3.39 U	-	< 3.44 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 4.84 U	-	< 2.68 U	-	< 2.34 U	-	< 2.99 U	-	< 3.03 U
PCB-153/168	PCB-153/168	pg/L			-	55.7	-	91.6	-	104	-	90.1	-	71.6
PCB-154	60145-22-4	pg/L	64	14000	-	< 5.86 U	-	< 2.94 U	-	< 3.2 U	-	< 3.74 U	-	< 3.81 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0037-PLW	23B-0037-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW
					Sample Name	23B-0037-PLW-BS-F	23B-0037-PLW-BS-T	23B-0038-PLW-AS-F	23B-0038-PLW-AS-T	23B-0038-PLW-BS-F	23B-0038-PLW-BS-T	23B-0039-PLW-AS-F	23B-0039-PLW-AS-T	23B-0039-PLW-BS-F	23B-0039-PLW-BS-T
					Sample Date	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	5.3 - 5.3 ft	5.3 - 5.3 ft	1 - 1 ft	1 - 1 ft	4.6 - 4.6 ft	4.6 - 4.6 ft	1 - 1 ft	1 - 1 ft	4.9 - 4.9 ft	4.9 - 4.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 4.76 U	-	< 2.64 U	-	< 2.31 U	-	< 2.82 U	-	< 2.86 U
PCB-156/157	PCB-156/157	pg/L			-	< 9.07 U	-	12.3 J	-	10.6 JN	-	11.2 JN	-	11.9 J
PCB-158	74472-42-7	pg/L	64	14000	-	< 4.99 U	-	8.55 J	-	10.5 JN	-	8.05 JN	-	10.9
PCB-159	39635-35-3	pg/L	64	14000	-	< 5.34 U	-	< 4.1 U	-	< 4.26 U	-	< 4.07 U	-	< 3.55 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 5.06 U	-	< 2.66 U	-	< 2.9 U	-	< 3.23 U	-	< 3.29 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 4.58 U	-	< 2.3 U	-	< 2.51 U	-	< 2.88 U	-	< 2.93 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 6.32 U	-	< 4.73 U	-	< 4.92 U	-	< 4.78 U	-	< 4.18 U
PCB-164	74472-45-0	pg/L	64	14000	-	< 4.54 U	-	5.81 JN	-	9.07 J	-	6.36 JN	-	5.63 J
PCB-165	74472-46-1	pg/L	64	14000	-	< 5.42 U	-	< 2.71 U	-	< 2.95 U	-	< 3.41 U	-	< 3.48 U
PCB-167	52663-72-6	pg/L	64	14000	-	< 5.94 U	-	< 4.54 U	-	5.69 J	-	< 4.68 U	-	4.09 JN
PCB-169	32774-16-6	pg/L	4	14000	-	< 10 U	-	< 7.45 U	-	< 8.22 U	-	< 6.16 U	-	< 4.95 U
PCB-170	35065-30-6	pg/L	64	14000	-	< 14.1 U	-	< 12.4 U	-	15.3 JN	-	15	-	10.2 JN
PCB-171/173	PCB-171/173	pg/L			-	< 14 U	-	< 11.7 U	-	< 9.52 U	-	< 8.06 U	-	< 8.04 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 13.4 U	-	< 11.2 U	-	< 9.07 U	-	< 7.54 U	-	< 7.52 U
PCB-174	38411-25-5	pg/L	64	14000	-	< 12.2 U	-	15.8	-	14.1	-	14.2	-	13
PCB-175	40186-70-7	pg/L	64	14000	-	< 13.2 U	-	< 11.1 U	-	< 9 U	-	< 7.74 U	-	< 7.71 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 4.89 U	-	< 5.29 U	-	< 8.27 U	-	< 3.98 U	-	< 2.92 U
PCB-177	52663-70-4	pg/L	64	14000	-	< 12.5 U	-	< 10.2 U	-	< 8.33 U	-	8.11 JN	-	< 7.17 U
PCB-178	52663-67-9	pg/L	64	14000	-	< 6.09 U	-	< 6.7 U	-	< 10.5 U	-	< 5.01 U	-	< 3.67 U
PCB-179	52663-64-6	pg/L	64	14000	-	< 4.3 U	-	7.05 JN	-	6.87 JN	-	6.42 JN	-	4.54 JN
PCB-180/193	PCB-180/193	pg/L			-	23.3 J	-	30.7 JN	-	33.8 J	-	32.1 J+	-	31.6 J+
PCB-181	74472-47-2	pg/L	64	14000	-	< 11.9 U	-	< 9.86 U	-	< 8.01 U	-	< 6.83 U	-	< 6.81 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 10.9 U	-	< 9.24 U	-	< 7.51 U	-	< 6.42 U	-	< 6.4 U
PCB-183	52663-69-1	pg/L	64	14000	-	< 12.4 U	-	< 10 U	-	< 8.13 U	-	9.04 J	-	< 6.98 U
PCB-184	74472-48-3	pg/L	64	14000	-	< 4.53 U	-	< 4.91 U	-	< 7.67 U	-	< 3.74 U	-	< 2.74 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 13.4 U	-	< 12.3 U	-	< 9.98 U	-	< 7.84 U	-	< 7.82 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 4.04 U	-	< 4.44 U	-	< 6.94 U	-	< 3.36 U	-	< 2.46 U
PCB-187	52663-68-0	pg/L	64	14000	-	< 10.9 UJ	-	10.7 JN	-	19.3 J	-	14.6 J	-	10.5 JN
PCB-188	74487-85-7	pg/L	64	14000	-	< 4.46 U	-	< 4.64 U	-	< 7.25 U	-	< 3.37 U	-	< 2.47 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 7.19 U	-	< 3.91 U	-	< 6.01 U	-	< 3.73 U	-	< 3.35 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 10.3 U	-	< 9.15 U	-	< 7.43 U	-	< 6.27 U	-	< 6.52 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 11.1 U	-	< 9.06 U	-	< 7.36 U	-	< 6.16 U	-	< 6.14 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 9.4 U	-	< 7.83 U	-	< 6.36 U	-	< 5.45 U	-	< 5.44 U
PCB-194	35694-08-7	pg/L	64	14000	-	< 4.61 U	-	8.76 JN	-	4.43 JN	-	5.1 JN	-	10.2 JN
PCB-195	52663-78-2	pg/L	64	14000	-	< 4.6 U	-	< 4.54 U	-	< 3.66 U	-	< 3.29 U	-	5.16 J
PCB-196	42740-50-1	pg/L	64	14000	-	< 2.06 U	-	3.66 JN	-	< 4.65 U	-	< 1.59 U	-	3.38 JN
PCB-197	33091-17-7	pg/L	64	14000	-	< 1.49 U	-	< 1.33 U	-	< 3.51 U	-	< 1.17 U	-	< 1.36 U
PCB-198/199	PCB-198/199	pg/L			-	< 1.85 U	-	6.49 JN	-	7.12 JN	-	4.52 JN	-	7.47 J
PCB-200	52663-73-7	pg/L	64	14000	-	< 1.57 U	-	< 1.33 U	-	< 3.5 U	-	< 1.27 U	-	< 1.48 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 1.63 U	-	< 1.41 U	-	2.28 JN	-	< 1.3 U	-	< 1.51 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 1.34 U	-	< 1.16 U	-	< 3.06 U	-	< 1.06 U	-	< 1.23 U
PCB-203	52663-76-0	pg/L	64	14000	-	< 1.69 U	-	4.44 JN	-	< 3.82 U	-	4.49 JN	-	4.19 J
PCB-204	74472-52-9	pg/L	64	14000	-	< 1.41 U	-	< 1.22 U	-	< 3.22 U	-	< 1.15 U	-	< 1.34 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 3.85 U	-	< 3.8 U	-	< 3.06 U	-	< 2.62 U	-	< 2.93 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 20.2 UJ	-	< 19.3 UJ	-	< 19.6 UJ	-	< 19.24 UJ	-	< 20 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 8.14 U	-	< 7.42 U	-	< 5.99 U	-	< 5.8 U	-	< 4.79 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 7.04 U	-	< 6.63 U	-	< 5.35 U	-	< 5.07 U	-	< 4.19 U
PCB-209	2051-24-3	pg/L	64	14000	-	< 3.61 U	-	6.29 JN	-	8.78 J	-	< 7.04 U	-	< 4.54 U
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	< 3.61 U	-	6.29	-	8.78	-	< 7.04 U	-	< 4.54 U
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	23.3	-	64.3	-	89.4	-	99.5	-	69.8
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	265	-	511	-	569	-	463	-	444
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	< 4.61 U	-	23.4	-	13.8	-	14.1	-	30.4
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	7610	-	7360	-	13700	-	10200	-	11700
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	724	-	1030	-	1560	-	973	-	1300
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	2490	-	1400	-	2160	-	3290	-	3320
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	14.1	-	67.0	-	91.3	-	43.6	-	61.7
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 20.2 U	-	< 19.3 U	-	< 19.6 U	-	< 19.24 U	-	< 20 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1720	-	2050	-	4930	-	2220	-	3220
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	2370	-	2220	-	4270	-	3100	-	3280

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0037-PLW	23B-0037-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW
					Sample Name	23B-0037-PLW-BS-F	23B-0037-PLW-BS-T	23B-0038-PLW-AS-F	23B-0038-PLW-AS-T	23B-0038-PLW-BS-F	23B-0038-PLW-BS-T	23B-0039-PLW-AS-F	23B-0039-PLW-AS-T	23B-0039-PLW-BS-F	23B-0039-PLW-BS-T
					Sample Date	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	5.3 - 5.3 ft	5.3 - 5.3 ft	1 - 1 ft	1 - 1 ft	4.6 - 4.6 ft	4.6 - 4.6 ft	1 - 1 ft	1 - 1 ft	4.9 - 4.9 ft	4.9 - 4.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	24 J+	57 J+	23 J+	49 J+	23 J+	60 J+	27 J	43 J+	34 J	49 J+
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150	< 1.0 U	0.48 J	< 1.0 U	0.45 J	< 1.0 U	0.57 J	0.34 J	0.38 J	0.48 J	0.50 J
Barium	7440-39-3	ug/L	380	220	42	41	40	39	41	40	38	40	38	39
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	17000	17000	16000	16000	17000	17000	16000	16000	16000	16000
Chromium, Total	7440-47-3	ug/L	100	44	< 2.0 UJ	3.0 J+	< 2.0 UJ	< 2.0 U	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.18 J	< 1.0 U	0.17 J	< 1.0 U	0.20 J	< 1.0 U	0.22 J	< 1.0 U	0.21 J	< 1.0 U
Copper	7440-50-8	ug/L	80	5	1.3 J	2.3	1.4 J	1.4 J	1.4 J	1.5 J	1.4 J	1.3 J	1.5 J	1.4 J
Iron	7439-89-6	ug/L	1400	1000	800	1500	730	1400	700	1500	890	1400	1200	1500
Lead	7439-92-1	ug/L	15	0.54	0.69 J	1.3 J+	0.69 J	1.2 J+	0.62 J	1.3 J+	< 1.0 U	1.1 J+	< 1.0 U	1.2 J+
Magnesium	7439-95-4	ug/L		82000	4100	4500	3800	4200	4000	4300	4100	4200	4000	4300
Manganese	7439-96-5	ug/L	43	93	140	160	130	150	130	150	140	150	140	150
Nickel	7440-02-0	ug/L	39	27	< 1.0 U	1.5 J	1.0 J+	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ
Potassium	7440-09-7	ug/L		53000	3000	3400	2800	3200	3000	3200	3100	3200	3100	3200
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	71000	76000	66000	71000	69000	73000	70000	71000	69000	71000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.52 J	< 5.0 U	0.46 J	< 5.0 U	0.47 J	< 5.0 U	0.55 J	< 5.0 U	0.65 J	< 5.0 U
Zinc	7440-66-6	ug/L	600	11.8	< 5.0 U	7.1 J+	6.1 J+	6.2 J+	< 5.0 U	8.9 J	9.5	9.3 J	6.7 J+	8.3 J
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 UJ	-	0.28 J-	-	0.11 J-	-	< 0.50 U	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0037-PLW	23B-0037-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW
					Sample Name	23B-0037-PLW-BS-F	23B-0037-PLW-BS-T	23B-0038-PLW-AS-F	23B-0038-PLW-AS-T	23B-0038-PLW-BS-F	23B-0038-PLW-BS-T	23B-0039-PLW-AS-F	23B-0039-PLW-AS-T	23B-0039-PLW-BS-F	23B-0039-PLW-BS-T
					Sample Date	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	5.3 - 5.3 ft	5.3 - 5.3 ft	1 - 1 ft	1 - 1 ft	4.6 - 4.6 ft	4.6 - 4.6 ft	1 - 1 ft	1 - 1 ft	4.9 - 4.9 ft	4.9 - 4.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	0.50 J+	-	0.59 J+	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	0.13 J	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 UJ	-	0.19 J-	-	0.090 J-	-	< 0.50 U	-	< 0.50 U
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 UJ	-	0.62 J	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
Styrene	100-42-5	ug/L	100	32	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
Toluene	108-88-3	ug/L	57	62	-	< 0.50 UJ	-	0.79 J	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.1 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.2 UJ	-	< 5.1 U	-	< 5.1 U	-	< 5.0 UJ	-	< 5.0 UJ
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0037-PLW	23B-0037-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW
					Sample Name	23B-0037-PLW-BS-F	23B-0037-PLW-BS-T	23B-0038-PLW-AS-F	23B-0038-PLW-AS-T	23B-0038-PLW-BS-F	23B-0038-PLW-BS-T	23B-0039-PLW-AS-F	23B-0039-PLW-AS-T	23B-0039-PLW-BS-F	23B-0039-PLW-BS-T
					Sample Date	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	5.3 - 5.3 ft	5.3 - 5.3 ft	1 - 1 ft	1 - 1 ft	4.6 - 4.6 ft	4.6 - 4.6 ft	1 - 1 ft	1 - 1 ft	4.9 - 4.9 ft	4.9 - 4.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.2 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.0 J+	-	2.9	-	3.2	-	3.0	-	3.1
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	4.4 J	-	4.9 J-	-	4.0	-	5.1	-	4.9
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.30 J	-	0.32 J	-	0.29 J	-	0.33 J	-	0.27 J
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.2	-	2.2	-	2.0	-	2.1	-	2.2
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.6	-	2.7	-	2.4	-	2.7	-	2.6
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.8	-	4.5	-	3.8	-	4.3	-	4.4
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.85 J	-	0.84 J	-	0.86 J	-	0.90 J	-	0.89 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	5.7	-	5.8	-	5.5	-	5.6	-	5.8
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.5	-	6.1	-	5.7	-	5.9	-	6.3
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.39 J+	-	0.47 J	-	0.42 J	-	0.35 J	-	0.32 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.2 J	-	4.4	-	4.2	-	4.1	-	4.1
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0037-PLW	23B-0037-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0038-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW	23B-0039-PLW
				Sample Name	23B-0037-PLW-BS-F	23B-0037-PLW-BS-T	23B-0038-PLW-AS-F	23B-0038-PLW-AS-T	23B-0038-PLW-BS-F	23B-0038-PLW-BS-T	23B-0039-PLW-AS-F	23B-0039-PLW-AS-T	23B-0039-PLW-BS-F	23B-0039-PLW-BS-T
				Sample Date	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	5.3 - 5.3 ft	5.3 - 5.3 ft	1 - 1 ft	1 - 1 ft	4.6 - 4.6 ft	4.6 - 4.6 ft	1 - 1 ft	1 - 1 ft	4.9 - 4.9 ft	4.9 - 4.9 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.44	-	8.67	-	8.67	-	8.75	-	8.53
Oxidation-Reduction Potential	ORP	mv			-	133	-	161.7	-	161.7	-	190.7	-	162.4
pH	PH	su			-	6.87	-	6.84	-	6.84	-	7.04	-	6.85
Specific Conductance	SC	us/cm			-	484.7	-	483.9	-	483.9	-	477.5	-	477.1
Temperature	TEMP	deg c			-	12.8	-	12.7	-	12.7	-	13.1	-	13
Turbidity	TURB	NTU			-	1.79	-	1.91	-	1.91	-	1.67	-	1.77

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0041-PLW	23B-0041-PLW	23B-0042-PLW	23B-0042-PLW	23B-0043-PLW	23B-0043-PLW
					Sample Name	23B-0040-PLW-AS-F	23B-0040-PLW-AS-T	23B-0040-PLW-BS-F	23B-0040-PLW-BS-T	23B-0041-PLW-AS-F	23B-0041-PLW-AS-T	23B-0042-PLW-AS-F	23B-0042-PLW-AS-T	23B-0043-PLW-AS-F	23B-0043-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.4 - 5.4 ft	5.4 - 5.4 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.51 U	
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.0 U	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	1.69 JN	-	1.41 JN	-	2.66 JN	-	2.54 JN	-	7.12 J+	
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 0.738 U	-	< 0.795 U	-	< 1.01 U	-	< 1.11 U	-	< 3.66 U	
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	1.35 JN	-	< 1.45 U	-	< 1.58 U	-	< 1.85 U	-	< 3.29 U	
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 0.892 U	-	< 0.66 U	-	< 1.11 U	-	< 1.1 U	-	< 2.95 U	
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.59 U	-	< 1.39 U	-	< 1.6 U	-	< 1.96 U	-	< 3.37 U	
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 0.869 U	-	< 0.599 U	-	< 1.13 U	-	< 1.02 U	-	< 2.75 U	
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	0.812 JN	-	< 1.43 U	-	< 1.52 U	-	< 1.84 U	-	< 3.22 U	
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.11 U	-	< 0.771 U	-	< 1.5 U	-	< 1.28 U	-	< 3.27 U	
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.11 UJ	-	< 1.4 UJ	-	< 1.5 U	-	< 1.41 U	-	< 2.54 U	
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 0.816 U	-	< 0.539 U	-	< 1.55 U	-	< 1.34 U	-	< 1.86 U	
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 0.6 U	-	< 0.669 U	-	2.18 JN	-	< 0.862 U	-	< 3.25 U	
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 0.911 U	-	< 0.668 U	-	< 1.33 U	-	< 1.17 U	-	< 3.43 U	
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 0.797 U	-	< 0.595 U	-	< 1.47 U	-	< 1.25 U	-	< 1.79 U	
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.5 UJ	-	< 9.5 UJ	-	< 10 UJ	-	< 10 UJ	-	< 9.72 UJ	
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 0.985 U	-	< 0.708 U	-	< 2.04 U	-	< 1.97 U	-	< 0.983 U	
OCDD	3268-87-9	pg/L	400	31	-	7.57 J+	-	12.4 JN	-	13.7 J	-	10.4 JN	-	14.7 JN	
OCDF	39001-02-0	pg/L	400	31	-	< 1.01 U	-	1.88 JN	-	< 2.92 U	-	< 2.65 U	-	< 6.64 U	
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	1.69	-	1.41	-	2.66	-	2.54	-	7.12 U	
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 0.738 U	-	< 0.795 U	-	2.18 U	-	< 1.11 U	-	< 3.66 U	
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	2.16 U	-	< 1.45 U	-	< 1.6 U	-	< 1.96 U	-	< 3.37 U	
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.11 U	-	< 0.771 U	-	< 1.5 U	-	< 1.28 U	-	< 3.43 U	
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.11 U	-	< 1.4 U	-	< 1.5 U	-	< 1.41 U	-	< 2.54 U	
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 0.816 U	-	< 0.595 U	-	< 1.55 U	-	< 1.34 U	-	< 1.86 U	
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.5 U	-	< 9.5 U	-	< 10 U	-	< 10 U	-	< 9.72 U	
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 0.985 U	-	< 0.708 U	-	< 2.04 U	-	< 1.97 U	-	< 0.983 U	
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	47.5	-	37.2	-	15.3 J+	-	13.8 J+	-	< 3.03 UJ	
PCB-002	2051-61-8	pg/L	64	14000	-	< 2.55 U	-	< 3.95 U	-	< 2.61 U	-	< 2.59 U	-	< 3.62 U	
PCB-003	2051-62-9	pg/L	64	14000	-	14.3 JN	-	13.5 J	-	7.15 J+	-	8.77 J+	-	< 3.65 UJ	
PCB-004	13029-08-8	pg/L	64	14000	-	2420 J	-	2150 J	-	224 J	-	238 J	-	241 J	
PCB-005	16605-91-7	pg/L	64	14000	-	< 6.4 U	-	< 16.6 U	-	< 5.37 U	-	< 4.06 U	-	< 6.98 U	
PCB-006	25569-80-6	pg/L	64	14000	-	17.3 JN	-	18.1 JN	-	< 9.03 U	-	12.5 JN	-	< 5.72 U	
PCB-007	33284-50-3	pg/L	64	14000	-	< 6.11 U	-	< 15.9 U	-	< 5.15 U	-	< 3.9 U	-	< 6.69 U	
PCB-008	34883-43-7	pg/L	64	14000	-	54.5	-	62.1 JN	-	44.4 J+	-	46.8 J+	-	< 9.89 U	
PCB-009	34883-39-1	pg/L	64	14000	-	< 5.47 U	-	< 14.2 U	-	< 4.68 U	-	< 3.54 U	-	< 6.18 U	
PCB-010	33146-45-1	pg/L	64	14000	-	491	-	459	-	19.1 JN	-	22.2 JN	-	28.7 JN	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
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					Location	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0041-PLW	23B-0041-PLW	23B-0042-PLW	23B-0042-PLW	23B-0043-PLW	23B-0043-PLW
					Sample Name	23B-0040-PLW-AS-F	23B-0040-PLW-AS-T	23B-0040-PLW-BS-F	23B-0040-PLW-BS-T	23B-0041-PLW-AS-F	23B-0041-PLW-AS-T	23B-0042-PLW-AS-F	23B-0042-PLW-AS-T	23B-0043-PLW-AS-F	23B-0043-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.4 - 5.4 ft	5.4 - 5.4 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	26.1 JN	-	25.9 JN	-	< 425 UJ	-	528 J	-	< 152 U
PCB-012/013	PCB-12/13	pg/L			-	17.5 JN	-	22 JN	-	< 5.09 U	-	9.41 JN	-	< 6.89 U
PCB-014	34883-41-5	pg/L	64	14000	-	< 5.95 U	-	< 15.5 U	-	< 5.18 U	-	< 3.92 U	-	< 6.74 U
PCB-015	2050-68-2	pg/L	64	14000	-	426 J	-	454 J	-	31.9 JN	-	57.2 J	-	84.3 J
PCB-016	38444-78-9	pg/L	64	14000	-	37.3 JN	-	45.9	-	45.2 JN	-	53.6 J	-	15.7
PCB-017	37680-66-3	pg/L	64	14000	-	492	-	469	-	128 J+	-	135 J+	-	104
PCB-018/030	PCB-18/30	pg/L			-	273	-	249	-	134 J+	-	155 J+	-	65.6
PCB-019	38444-73-4	pg/L	64	14000	-	794 J	-	817 J	-	198 J	-	180 J	-	205 J
PCB-020/028	PCB-20/28	pg/L			-	269	-	325	-	94.9 J+	-	118 J+	-	44.9 J+
PCB-021/033	PCB-21/33	pg/L			-	< 15 U	-	< 19.5 U	-	49.5 J+	-	57.4 J+	-	< 7.63 U
PCB-022	38444-85-8	pg/L	64	14000	-	< 13.8 U	-	< 17.9 U	-	23.1 J+	-	28.3 J+	-	< 7.53 U
PCB-023	55720-44-0	pg/L	64	14000	-	< 16.1 U	-	< 20.8 U	-	< 9.78 U	-	< 9.74 U	-	< 8.14 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 10.8 U	-	< 11.9 U	-	< 6.62 U	-	< 6.29 U	-	< 7.48 U
PCB-025	55712-37-3	pg/L	64	14000	-	140	-	147	-	22.8 JN	-	27.2 JN	-	21.8
PCB-026/029	PCB-26/29	pg/L			-	285	-	290	-	52.2 JN	-	66.7 J+	-	41.6
PCB-027	38444-76-7	pg/L	64	14000	-	381	-	377	-	110	-	103	-	108
PCB-031	16606-02-3	pg/L	64	14000	-	277	-	282	-	75.5 J+	-	108 J+	-	28 J+
PCB-032	38444-77-8	pg/L	64	14000	-	411	-	437	-	59.9 J+	-	71.6 J+	-	56.3
PCB-034	37680-68-5	pg/L	64	14000	-	< 16.1 U	-	< 20.8 U	-	< 10 U	-	< 10 U	-	< 9.05 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 14.7 U	-	< 19.1 U	-	< 8.94 U	-	< 8.9 U	-	< 8.43 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 13.1 U	-	< 17 U	-	< 8.02 U	-	< 7.98 U	-	< 7.31 U
PCB-037	38444-90-5	pg/L	64	14000	-	33.6	-	30 JN	-	14.9 J	-	20.3 J	-	9.94 J
PCB-038	53555-66-1	pg/L	64	14000	-	< 14.4 U	-	< 18.6 U	-	< 8.8 U	-	< 8.76 U	-	< 7.94 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 14.3 U	-	< 18.5 U	-	< 9.01 U	-	< 8.97 U	-	< 8.08 U
PCB-040/071	PCB-40/71	pg/L			-	109	-	128	-	76.3 J+	-	65.9 J+	-	47.5
PCB-041	52663-59-9	pg/L	64	14000	-	8.12 JN	-	2.46 JN	-	6.11 JN	-	8.88 JN	-	< 7.4 U
PCB-042	36559-22-5	pg/L	64	14000	-	86.4	-	92.5	-	36.4 J+	-	42.1 J+	-	22.3
PCB-043	70362-46-8	pg/L	64	14000	-	13.4	-	15	-	6.88 JN	-	6.34 JN	-	4.81 J
PCB-044/047/065	PCB-44/47/65	pg/L			-	468	-	497	-	227 J+	-	216 J+	-	154
PCB-045	70362-45-7	pg/L	64	14000	-	26.8 J	-	37.9 J	-	23.8 J+	-	31 J+	-	14.6 JN
PCB-046	41464-47-5	pg/L	64	14000	-	39	-	38.8	-	21.1 JN	-	22.3	-	17.2
PCB-048	70362-47-9	pg/L	64	14000	-	19.2	-	16.2 JN	-	18.3 J+	-	19.1 J+	-	7.01 JN
PCB-049/069	PCB-49/69	pg/L			-	317	-	328	-	152	-	134 J+	-	107
PCB-050/053	PCB-50/53	pg/L			-	255	-	264	-	167	-	140	-	109
PCB-051	68194-04-7	pg/L	64	14000	-	77.2 JN	-	87.6	-	16.2 JN	-	14.9 J	-	12.1 JN
PCB-052	35693-99-3	pg/L	64	14000	-	455	-	446	-	289	-	248	-	184
PCB-054	15968-05-5	pg/L	64	14000	-	24.1	-	20.5	-	17.5	-	11.2 JN	-	10.3 JN
PCB-055	74338-24-2	pg/L	64	14000	-	< 4.5 U	-	< 5.04 U	-	< 4.19 U	-	< 5.04 U	-	< 4.16 U
PCB-056	41464-43-1	pg/L	64	14000	-	29.8	-	24.6	-	12 JN	-	15.8 JN	-	8.69 JN
PCB-057	70424-67-8	pg/L	64	14000	-	6.11 J	-	< 5.52 U	-	< 4.58 U	-	< 5.51 U	-	< 4.91 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 4.45 U	-	< 4.98 U	-	< 4.14 U	-	< 4.98 U	-	< 4.47 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	30.4 JN	-	37.5	-	16.8 J+	-	13.5 JN	-	11.6 J
PCB-060	33025-41-1	pg/L	64	14000	-	8.82 JN	-	12.3 J	-	7.54 JN	-	9.07 JN	-	< 5.26 U
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	159	-	167	-	86.7 J+	-	101 J+	-	57.9 J+
PCB-063	74472-34-7	pg/L	64	14000	-	12.4 J	-	17.7 J	-	5.22 J	-	< 5.84 U	-	< 5.17 U
PCB-064	52663-58-8	pg/L	64	14000	-	108	-	115	-	32.3 J	-	42.2 J	-	25.9
PCB-066	32598-10-0	pg/L	64	14000	-	105	-	99	-	52 J	-	54 JN	-	34.4
PCB-067	73575-53-8	pg/L	64	14000	-	< 4.4 U	-	4.09 J	-	< 3.93 U	-	< 4.72 U	-	< 4.25 U
PCB-068	73575-52-7	pg/L	64	14000	-	8.31 JN	-	11.7 JN	-	< 4.65 U	-	< 5.59 U	-	< 4.8 U
PCB-072	41464-42-0	pg/L	64	14000	-	10.2	-	7.09 JN	-	7.18 J	-	< 5.46 U	-	< 4.86 U
PCB-073	74338-23-1	pg/L	64	14000	-	11.2	-	14	-	10.5	-	4.7 JN	-	7.02 JN
PCB-077	32598-13-3	pg/L	64	14000	-	12.4	-	12.2	-	4.71 J	-	< 5.18 U	-	< 5.01 U
PCB-078	70362-49-1	pg/L	64	14000	-	< 4.96 U	-	< 5.55 U	-	< 4.59 U	-	< 5.52 U	-	< 5.05 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 4.18 U	-	< 4.68 U	-	< 3.93 U	-	< 4.72 U	-	< 4.25 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 4.6 U	-	< 5.14 U	-	< 4.23 U	-	< 5.09 U	-	< 4.5 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 4.67 U	-	< 5.23 U	-	< 4.14 U	-	< 4.98 U	-	< 4.85 U
PCB-082	52663-62-4	pg/L	64	14000	-	< 7.46 U	-	13.7 JN	-	14.3	-	10.3	-	< 5.88 UJ
PCB-083	60145-20-2	pg/L	64	14000	-	6.08 JN	-	10.7 JN	-	15.3 J	-	12 J	-	6.66 JN
PCB-084	52663-60-2	pg/L	64	14000	-	59.5	-	62.8	-	66.7	-	61.4	-	43.1 JN

Table 17
Surface Water Analytical Results
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					Location	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0041-PLW	23B-0041-PLW	23B-0042-PLW	23B-0042-PLW	23B-0043-PLW	23B-0043-PLW
					Sample Name	23B-0040-PLW-AS-F	23B-0040-PLW-AS-T	23B-0040-PLW-BS-F	23B-0040-PLW-BS-T	23B-0041-PLW-AS-F	23B-0041-PLW-AS-T	23B-0042-PLW-AS-F	23B-0042-PLW-AS-T	23B-0043-PLW-AS-F	23B-0043-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.4 - 5.4 ft	5.4 - 5.4 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	17.7 JN	-	22.8 J	-	28.5	-	26.2	-	23.2
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	93.6	-	96.1	-	119	-	90.1 JN	-	78.2 JN
PCB-088	55215-17-3	pg/L	64	14000	-	< 8.62 U	-	< 7.66 U	-	< 6.75 U	-	< 8.31 U	-	< 6.26 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 7.17 U	-	< 6.38 U	-	< 6.13 U	-	< 7.55 U	-	< 5.73 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	155	-	162	-	218	-	180	-	145 JN
PCB-091	68194-05-8	pg/L	64	14000	-	40.9	-	49.3	-	47.9	-	36.3 JN	-	33.2
PCB-092	52663-61-3	pg/L	64	14000	-	44.4 J	-	58.3 J	-	67.1	-	48.4	-	48.9
PCB-093/100	PCB-93/100	pg/L			-	< 7.68 U	-	12.4 J	-	< 6.39 U	-	< 7.87 U	-	3.93 JN
PCB-094	73575-55-0	pg/L	64	14000	-	< 8.39 U	-	5.12 JN	-	< 7.13 U	-	< 8.78 U	-	< 6.72 U
PCB-095	38379-99-6	pg/L	64	14000	-	162	-	170	-	226	-	182	-	151
PCB-096	73575-54-9	pg/L	64	14000	-	5.47 J	-	< 4.33 U	-	2.2 JN	-	< 2.34 U	-	< 2.06 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 6.17 U	-	< 5.49 U	-	< 5.51 U	-	< 6.79 U	-	< 5.27 U
PCB-099	38380-01-7	pg/L	64	14000	-	75.8	-	71.5	-	77.6	-	66.3	-	62.3
PCB-102	68194-06-9	pg/L	64	14000	-	12 JN	-	10.9 JN	-	7.47 JN	-	< 6.73 U	-	4.75 JN
PCB-103	60145-21-3	pg/L	64	14000	-	< 7.19 U	-	< 6.39 U	-	5.16 JN	-	< 7.46 U	-	< 5.7 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 3.95 U	-	< 3.87 U	-	< 2.39 U	-	< 2.12 U	-	< 1.8 U
PCB-105	32598-14-4	pg/L	64	14000	-	24.6	-	20.3 JN	-	23.8	-	22.8	-	22.7 J
PCB-106	70424-69-0	pg/L	64	14000	-	< 5 U	-	< 4.45 U	-	< 4.15 U	-	< 5.11 U	-	< 4.12 U
PCB-107	70424-68-9	pg/L	64	14000	-	6.29 J	-	6.63 JN	-	10.6	-	8.8 J	-	6.09 J
PCB-108/124	PCB-108/124	pg/L			-	< 5.56 U	-	< 4.94 U	-	8.38 JN	-	7.13 J	-	< 4.42 U
PCB-110	38380-03-9	pg/L	64	14000	-	155	-	165	-	219	-	173	-	154
PCB-111	39635-32-0	pg/L	64	14000	-	< 5.34 U	-	< 4.74 U	-	< 4.48 U	-	< 5.51 U	-	< 4.46 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 4.59 U	-	< 4.08 U	-	< 3.89 U	-	< 4.79 U	-	< 3.47 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 5.04 U	-	< 4.58 U	-	< 4.27 U	-	< 5.02 U	-	< 3.97 U
PCB-115	74472-38-1	pg/L	64	14000	-	6.15 JN	-	4.09 JN	-	< 3.67 U	-	< 4.51 U	-	< 3.63 U
PCB-117	68194-11-6	pg/L	64	14000	-	10.4	-	8.98 JN	-	4.2 JN	-	4.64 JN	-	5.38 JN
PCB-118	31508-00-6	pg/L	64	14000	-	73.8	-	84.3	-	100	-	79.7	-	83.1
PCB-120	68194-12-7	pg/L	64	14000	-	< 4.42 U	-	< 3.93 U	-	< 3.68 U	-	< 4.54 U	-	< 3.64 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 4.95 U	-	< 4.4 U	-	< 4.12 U	-	< 5.07 U	-	< 4.01 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 6.55 U	-	< 5.96 U	-	< 5.3 U	-	< 6.22 U	-	< 4.98 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 5 U	-	< 4.44 U	-	< 4.14 U	-	< 5.1 U	-	< 4.25 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 3.95 U	-	< 4.93 U	-	< 3.31 U	-	< 3.64 U	-	< 3.94 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 5.67 U	-	< 4.37 U	-	< 4.42 U	-	< 5.31 U	-	< 4.28 U
PCB-128/166	PCB-128/166	pg/L			-	17.9 J	-	16.1 JN	-	23.7 JN	-	22.8 J	-	23.6
PCB-129/138/163	PCB-129/138/163	pg/L			-	119	-	135	-	197	-	139	-	157
PCB-130	52663-66-8	pg/L	64	14000	-	6.81 JN	-	8.24 JN	-	11	-	8.73 JN	-	11.1
PCB-131	61798-70-7	pg/L	64	14000	-	< 3.17 U	-	< 3.55 U	-	< 7.02 U	-	< 5.63 U	-	< 5.9 U
PCB-132	38380-05-1	pg/L	64	14000	-	38.9	-	46.1	-	72.6 J	-	40.1 J	-	45.6
PCB-133	35694-04-3	pg/L	64	14000	-	< 2.74 U	-	< 3.07 U	-	< 6.21 U	-	< 4.98 U	-	< 5.3 U
PCB-134	52704-70-8	pg/L	64	14000	-	11.9	-	11.6	-	10.3	-	< 6.24 U	-	9.65 JN
PCB-135/151	PCB-135/151	pg/L			-	35.5	-	30.8	-	47.7	-	40.7	-	33 JN
PCB-136	38411-22-2	pg/L	64	14000	-	16.4 J	-	15.3 J	-	21.5	-	18.2	-	21.3 J
PCB-137	35694-06-5	pg/L	64	14000	-	< 3.2 U	-	5.32 JN	-	10.4 JN	-	< 5.38 UJ	-	8.44 JN
PCB-139/140	PCB-139/140	pg/L			-	< 2.75 U	-	< 3.08 U	-	< 6.23 U	-	< 4.99 U	-	< 5.25 U
PCB-141	52712-04-6	pg/L	64	14000	-	14.7 J	-	18.5 J	-	29.8	-	19.8	-	19.4
PCB-142	41411-61-4	pg/L	64	14000	-	< 3.06 U	-	< 3.43 U	-	< 6.97 U	-	< 5.59 U	-	< 5.73 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 2.77 U	-	< 3.11 U	-	< 6.93 U	-	< 5.55 U	-	< 5.04 U
PCB-144	68194-14-9	pg/L	64	14000	-	3.43 JN	-	< 3.23 U	-	6.51 J	-	< 5.22 U	-	4.63 JN
PCB-145	74472-40-5	pg/L	64	14000	-	< 2.38 U	-	< 2.46 U	-	< 4.54 U	-	< 4 U	-	< 3.74 U
PCB-146	51908-16-8	pg/L	64	14000	-	13.4 JN	-	12.2 JN	-	22.7	-	13.8	-	12.6
PCB-147/149	PCB-147/149	pg/L			-	75.1	-	83.1	-	118	-	87.9	-	87.8
PCB-148	74472-41-6	pg/L	64	14000	-	< 2.82 U	-	< 3.16 U	-	< 6.31 U	-	< 5.06 U	-	< 5.33 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 2.51 U	-	< 2.6 U	-	< 4.76 U	-	< 4.2 U	-	< 3.94 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 2.23 U	-	< 2.32 U	-	< 4.34 U	-	< 3.83 U	-	< 3.63 U
PCB-153/168	PCB-153/168	pg/L			-	76.2	-	85	-	134	-	98	-	100
PCB-154	60145-22-4	pg/L	64	14000	-	< 2.58 U	-	< 2.89 U	-	< 5.92 U	-	< 4.75 U	-	< 4.8 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0041-PLW	23B-0041-PLW	23B-0042-PLW	23B-0042-PLW	23B-0043-PLW	23B-0043-PLW
					Sample Name	23B-0040-PLW-AS-F	23B-0040-PLW-AS-T	23B-0040-PLW-BS-F	23B-0040-PLW-BS-T	23B-0041-PLW-AS-F	23B-0041-PLW-AS-T	23B-0042-PLW-AS-F	23B-0042-PLW-AS-T	23B-0043-PLW-AS-F	23B-0043-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.4 - 5.4 ft	5.4 - 5.4 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 2.15 U	-	< 2.22 U	-	< 4.34 U	-	< 3.83 U	-	< 3.54 U
PCB-156/157	PCB-156/157	pg/L			-	9.94 J	-	6.63 JN	-	15.5 JN	-	12.3 J	-	12.2 JN
PCB-158	74472-42-7	pg/L	64	14000	-	10.3 JN	-	13.6	-	12.3 JN	-	11.1 JN	-	15.2 J
PCB-159	39635-35-3	pg/L	64	14000	-	< 2.85 U	-	< 3.41 U	-	< 3.8 U	-	< 2.39 U	-	< 2.59 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 2.27 U	-	< 2.54 U	-	< 5.25 U	-	< 4.21 U	-	< 4.45 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 2.03 U	-	< 2.27 U	-	< 4.65 U	-	< 3.73 U	-	< 3.9 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 3.32 U	-	< 3.96 U	-	< 4.49 U	-	< 2.82 U	-	< 3.13 U
PCB-164	74472-45-0	pg/L	64	14000	-	4.7 JN	-	6.79 JN	-	12 JN	-	6.22 JN	-	7.55 JN
PCB-165	74472-46-1	pg/L	64	14000	-	< 2.37 U	-	< 2.66 U	-	< 5.49 U	-	< 4.4 U	-	< 4.53 U
PCB-167	52663-72-6	pg/L	64	14000	-	4.51 JN	-	< 3.77 U	-	6.46 JN	-	5.84 J	-	5.19 J
PCB-169	32774-16-6	pg/L	4	14000	-	< 6.22 U	-	< 5.66 U	-	< 5.71 U	-	< 4.49 U	-	< 3.57 U
PCB-170	35065-30-6	pg/L	64	14000	-	13.9	-	13.1 JN	-	15.1	-	13.4	-	15.9 JN
PCB-171/173	PCB-171/173	pg/L			-	< 7.61 U	-	< 8.54 U	-	< 5.05 U	-	< 6.99 U	-	< 5.94 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 7.15 U	-	< 8.01 U	-	< 4.72 U	-	< 6.54 U	-	< 5.71 U
PCB-174	38411-25-5	pg/L	64	14000	-	8.62 JN	-	12.9	-	12	-	13.1	-	13.3 J
PCB-175	40186-70-7	pg/L	64	14000	-	< 7.35 U	-	< 8.25 U	-	< 4.83 U	-	< 6.69 U	-	< 5.71 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 3.38 U	-	< 3.91 U	-	< 5.38 U	-	< 2.6 U	-	< 2.29 U
PCB-177	52663-70-4	pg/L	64	14000	-	< 6.74 U	-	< 7.56 U	-	7.9 JN	-	< 6.34 U	-	11
PCB-178	52663-67-9	pg/L	64	14000	-	< 4.27 U	-	< 4.93 U	-	< 6.66 U	-	< 3.22 U	-	< 2.94 U
PCB-179	52663-64-6	pg/L	64	14000	-	4.75 J	-	< 3.4 U	-	6.05 JN	-	2.64 JN	-	< 1.96 U
PCB-180/193	PCB-180/193	pg/L			-	30.5 J	-	36.8 J	-	32.9 J+	-	25.7 J+	-	34.6 J
PCB-181	74472-47-2	pg/L	64	14000	-	< 6.4 U	-	< 7.18 U	-	< 4.26 U	-	< 5.9 U	-	< 5.03 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 6.06 U	-	< 6.8 U	-	< 3.98 U	-	< 5.51 U	-	< 4.64 U
PCB-183	52663-69-1	pg/L	64	14000	-	< 6.5 U	-	< 7.29 U	-	7.45 JN	-	< 6.22 UJ	-	11.7 J
PCB-184	74472-48-3	pg/L	64	14000	-	< 3.16 U	-	< 3.65 U	-	< 5.02 U	-	< 2.43 U	-	< 2.12 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 7.42 U	-	< 8.32 U	-	< 4.84 U	-	< 6.71 U	-	< 5.61 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 2.83 U	-	< 3.27 U	-	< 4.47 U	-	< 2.16 U	-	< 1.85 U
PCB-187	52663-68-0	pg/L	64	14000	-	10.2 JN	-	13 JN	-	16.4 JN	-	11	-	14.2 JN
PCB-188	74487-85-7	pg/L	64	14000	-	< 3.06 U	-	< 3.54 U	-	< 5.11 U	-	< 2.47 U	-	< 2.1 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 3.36 U	-	< 4.95 U	-	< 3.86 U	-	< 3.58 U	-	< 3.6 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 5.37 U	-	< 6.56 U	-	< 3.64 U	-	< 5.7 U	-	< 4.55 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 5.99 U	-	< 6.72 U	-	< 3.74 U	-	< 5.18 U	-	< 4.41 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 5.14 U	-	< 5.77 U	-	< 3.29 U	-	< 4.56 U	-	< 3.9 U
PCB-194	35694-08-7	pg/L	64	14000	-	< 2.69 U	-	8.76 JN	-	4.6 JN	-	< 4.33 U	-	< 4.57 U
PCB-195	52663-78-2	pg/L	64	14000	-	< 2.73 U	-	< 3.91 U	-	< 3.34 U	-	< 4.66 U	-	< 4.85 U
PCB-196	42740-50-1	pg/L	64	14000	-	< 1.46 U	-	4 JN	-	< 3.92 U	-	< 2.42 U	-	< 5.42 U
PCB-197	33091-17-7	pg/L	64	14000	-	< 1.04 U	-	< 1.07 U	-	< 2.94 U	-	< 1.81 U	-	< 3.89 U
PCB-198/199	PCB-198/199	pg/L			-	5.2 JN	-	6.19 JN	-	5.35 JN	-	6.26 JN	-	4.49 JN
PCB-200	52663-73-7	pg/L	64	14000	-	< 1.13 U	-	< 1.16 U	-	< 3.03 U	-	< 1.87 U	-	< 4.12 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 1.16 U	-	< 1.19 U	-	< 3.28 U	-	< 2.02 U	-	< 4.25 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 0.942 U	-	2.25 JN	-	< 2.69 U	-	< 1.66 U	-	< 3.57 U
PCB-203	52663-76-0	pg/L	64	14000	-	5 JN	-	3.47 JN	-	< 3.17 U	-	3.47 JN	-	< 4.08 U
PCB-204	74472-52-9	pg/L	64	14000	-	< 0.997 U	-	< 1.02 U	-	< 2.85 U	-	< 1.76 U	-	< 3.71 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 2.32 U	-	< 3.33 U	-	< 2.62 U	-	< 3.65 U	-	< 3.83 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 19.0 UJ	-	< 19.0 UJ	-	< 20 UJ	-	< 20 UJ	-	< 19.8 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 4.09 U	-	< 5.25 U	-	< 4.72 U	-	< 5.52 U	-	< 4.59 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 3.65 U	-	< 4.68 U	-	< 4.28 U	-	< 5.01 U	-	< 4.19 U
PCB-209	2051-24-3	pg/L	64	14000	-	5.09 J	-	< 2.98 U	-	5.11 J	-	6.98 J	-	7.19 JN
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	5.09	-	< 2.98 U	-	5.11	-	6.98	-	7.19
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	68.0	-	75.8	-	97.8	-	65.8	-	101
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	459	-	494	-	751	-	524	-	574
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	10	-	24.7	-	9.95	-	9.73	-	4.49
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	10800	-	10800	-	4770	-	4880	-	3450
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	949	-	1030	-	1260	-	1010	-	872
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	3450	-	3190	-	319	-	914	-	354
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	61.8	-	50.7	-	22.5	-	22.6	-	< 3.65 U
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 19 U	-	< 19 U	-	< 20 U	-	< 20 U	-	< 19.8 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	2400	-	2500	-	1290	-	1200	-	835
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	3390	-	3470	-	1010	-	1120	-	701

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0041-PLW	23B-0041-PLW	23B-0042-PLW	23B-0042-PLW	23B-0043-PLW	23B-0043-PLW
					Sample Name	23B-0040-PLW-AS-F	23B-0040-PLW-AS-T	23B-0040-PLW-BS-F	23B-0040-PLW-BS-T	23B-0041-PLW-AS-F	23B-0041-PLW-AS-T	23B-0042-PLW-AS-F	23B-0042-PLW-AS-T	23B-0043-PLW-AS-F	23B-0043-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.4 - 5.4 ft	5.4 - 5.4 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	28 J	56 J+	38 J	62 J+	67	76	37 J	60	35 J	340
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.17 J	0.20 J	0.17 J	0.19 J
Arsenic	7440-38-2	ug/L	0.018	150	0.42 J	0.59 J	0.59 J	0.43 J	0.64 J	0.53 J	0.49 J	0.50 J	0.35 J	0.48 J
Barium	7440-39-3	ug/L	380	220	39	40	39	38	37	37	35	35	34	35
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	16000	16000	16000	15000	14000	15000	14000	14000	13000	14000
Chromium, Total	7440-47-3	ug/L	100	44	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.66 J	0.97 J	0.63 J	0.95 J
Cobalt	7440-48-4	ug/L	0.6	19	0.23 J	< 1.0 U	0.23 J	< 1.0 U	< 1.0 U	< 1.0 U	0.15 J	0.26 J	0.15 J	0.27 J
Copper	7440-50-8	ug/L	80	5	1.4 J	1.4 J	1.3 J	1.3 J	1.6 J	2.2	1.7 J	2.1	1.7 J	1.9 J
Iron	7439-89-6	ug/L	1400	1000	850	1500	920	1300	810	1300	540	1000	550	930
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	1.2 J+	< 1.0 U	1.2 J+	1.2 J+	1.6	< 1.0 U	1.4	< 1.0 U	1.3
Magnesium	7439-95-4	ug/L		82000	4200	4200	4100	3900	4200	4100	3400	3700	3300	3600
Manganese	7439-96-5	ug/L	43	93	140	150	160	140	130	150	88	110	83	110
Nickel	7440-02-0	ug/L	39	27	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	0.20 J-	< 1.0 UJ	0.83 J	0.85 J	0.77 J	1.1
Potassium	7440-09-7	ug/L		53000	3200	3200	3200	3000	2900	2800	2600	2700	2600	2800
Selenium	7782-49-2	ug/L	10	5	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	72000	70000	70000	69000	67000	64000	54000	60000	53000	60000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.52 J	< 5.0 U	0.60 J	< 5.0 U	0.81 J	1.1 J	0.51 J	0.84 J	0.51 J	0.79 J
Zinc	7440-66-6	ug/L	600	11.8	7.9 J+	9.3 J	6.7 J+	7.7 J	8.3	9.3 J	6.1 J+	7.0	< 5.0 U	6.9
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0041-PLW	23B-0041-PLW	23B-0042-PLW	23B-0042-PLW	23B-0043-PLW	23B-0043-PLW
					Sample Name	23B-0040-PLW-AS-F	23B-0040-PLW-AS-T	23B-0040-PLW-BS-F	23B-0040-PLW-BS-T	23B-0041-PLW-AS-F	23B-0041-PLW-AS-T	23B-0042-PLW-AS-F	23B-0042-PLW-AS-T	23B-0043-PLW-AS-F	23B-0043-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.4 - 5.4 ft	5.4 - 5.4 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Styrene	100-42-5	ug/L	100	32	-	< 0.50 U	-	< 0.50 U	-	< 0.50 R	-	< 0.50 R	-	< 0.50 R	
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ	-	< 5.1 U	
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.1 U	
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0041-PLW	23B-0041-PLW	23B-0042-PLW	23B-0042-PLW	23B-0043-PLW	23B-0043-PLW
					Sample Name	23B-0040-PLW-AS-F	23B-0040-PLW-AS-T	23B-0040-PLW-BS-F	23B-0040-PLW-BS-T	23B-0041-PLW-AS-F	23B-0041-PLW-AS-T	23B-0042-PLW-AS-F	23B-0042-PLW-AS-T	23B-0043-PLW-AS-F	23B-0043-PLW-AS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.4 - 5.4 ft	5.4 - 5.4 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 UJ
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 UJ
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	1.4 J	-	< 10 UJ	-	< 10 U	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	< 5.1 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.6 U	-	< 1.8 U	-	< 1.9 U	< 1.9 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.6 U	-	< 1.8 U	-	< 1.9 U	< 1.9 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.6 U	-	< 1.8 U	-	< 1.9 U	< 1.9 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.6 U	-	< 1.8 U	-	< 1.9 U	< 1.9 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.6 U	-	< 1.8 U	-	< 1.9 U	< 1.9 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.1	-	3.1	-	2.3	-	2.4	-	2.5 J+	
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	5.3	-	5.8	-	6.4	-	5.6	-	5.3	
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.6 U	-	< 1.8 U	-	< 1.9 U	< 1.9 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.33 J	-	0.32 J	-	0.29 J	-	0.29 J	-	< 1.9 U	
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.7 U	-	< 1.6 U	-	< 1.6 U	-	< 1.8 U	-	< 1.9 U	
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.6 U	-	< 1.8 U	-	< 1.9 U	< 1.9 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.1	-	2.2	-	1.5 J-	-	2.2	-	2.1	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.7	-	2.6	-	1.8	-	2.3	-	2.3	
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	4.5	-	4.5	-	3.7	-	3.2	-	2.9	
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.6 U	-	< 1.8 U	-	< 1.9 U	< 1.9 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.88 J	-	0.90 J	-	0.68 J	-	0.77 J	-	0.83 J	
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.6 U	-	< 1.8 U	-	< 1.9 U	< 1.9 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	5.6	-	6.1	-	4.4	-	4.8	-	4.8	
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.9	-	6.0	-	4.8	-	5.2	-	4.8	
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.38 J	-	0.37 J	-	0.24 J	-	0.30 J	-	0.33 J+	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.2	-	4.3	-	3.2	-	4.3	-	4.4 J+	
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.7 U	-	< 1.6 U	-	< 1.6 U	-	< 1.8 U	-	< 1.9 U	< 1.9 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.7 U	-	< 1.6 U	-	< 1.6 U	-	< 1.8 U	-	< 1.9 U	< 1.9 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0040-PLW	23B-0041-PLW	23B-0041-PLW	23B-0042-PLW	23B-0042-PLW	23B-0043-PLW	23B-0043-PLW
				Sample Name	23B-0040-PLW-AS-F	23B-0040-PLW-AS-T	23B-0040-PLW-BS-F	23B-0040-PLW-BS-T	23B-0041-PLW-AS-F	23B-0041-PLW-AS-T	23B-0042-PLW-AS-F	23B-0042-PLW-AS-T	23B-0043-PLW-AS-F	23B-0043-PLW-AS-T
				Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/25/2023	10/25/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 1 ft	1 - 1 ft	5.4 - 5.4 ft	5.4 - 5.4 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1 - 1 ft	1 - 1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.7 U	-	< 1.6 U	-	< 1.6 U	-	< 1.8 U	-	< 1.9 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.66	-	8.69	-	8.41	-	8.45	-	8.6
Oxidation-Reduction Potential	ORP	mv			-	143.4	-	191.1	-	118.6	-	139.4	-	141.7
pH	PH	su			-	7.11	-	6.94	-	6.56	-	6.69	-	6.64
Specific Conductance	SC	us/cm			-	475.3	-	474.9	-	447.5	-	424	-	419.3
Temperature	TEMP	deg c			-	12.9	-	12.9	-	12.1	-	12.7	-	12.6
Turbidity	TURB	NTU			-	1.77	-	1.8	-	1.22	-	0.91	-	0.8

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0046-PLW	23B-0046-PLW
					Sample Name	23B-0044-PLW-AS-F	23B-0044-PLW-AS-T	23B-0044-PLW-BS-F	23B-0044-PLW-BS-T	23B-0045-PLW-AS-F	23B-0045-PLW-AS-T	23B-0045-PLW-AT-F	23B-0045-PLW-AT-T	23B-0046-PLW-AS-F	23B-0046-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.8 - 2.8 ft	2.8 - 2.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.51 U	-	< 0.51 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U	
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	3.14 J+	-	3.49 JN	-	< 5.34 U	-	5.04 JN	-	6.62 J+	
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.47 U	-	< 1.21 U	-	< 8.67 U	-	< 1.15 U	-	< 1.06 U	
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.59 U	-	< 1.45 U	-	< 3.72 U	-	< 1.78 U	-	< 1.98 U	
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.18 UJ	-	< 0.922 UJ	-	< 3.54 U	-	< 1.05 U	-	< 1.26 U	
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.62 U	-	< 1.51 U	-	< 4.17 U	-	< 1.88 U	-	< 2.06 U	
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.23 U	-	< 0.92 U	-	< 4.03 U	-	< 1.03 U	-	< 1.34 U	
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.56 U	-	< 1.39 U	-	< 7.93 U	-	< 1.73 U	-	< 1.88 U	
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.36 U	-	< 1.1 U	-	< 5.81 U	-	< 1.19 U	-	< 1.57 U	
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.82 UJ	-	< 1.61 UJ	-	< 2.47 UJ	-	< 1.19 U	-	< 1.6 U	
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.62 U	-	< 0.841 U	-	< 2.27 U	-	< 1.04 U	-	< 1.08 U	
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 1.07 U	-	< 1.01 U	-	< 12.7 U	-	4.06 J+	-	3.18 JN	
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.2 U	-	< 1 U	-	< 5.54 U	-	< 1.11 U	-	< 1.42 U	
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.49 U	-	< 0.871 U	-	< 1.93 U	-	< 1.01 U	-	< 0.959 U	
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.81 UJ	-	< 9.93 UJ	-	< 9.94 UJ	-	< 9.92 UJ	-	< 9.83 UJ	
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 1.33 U	-	< 0.861 U	-	< 1 U	-	< 0.815 U	-	< 1.16 U	
OCDD	3268-87-9	pg/L	400	31	-	10.5 J	-	16.3 J	-	< 67.6 UJ	-	21.6 JN	-	35.9 J	
OCDF	39001-02-0	pg/L	400	31	-	< 3.02 U	-	< 1.9 U	-	< 33.7 UJ	-	< 2.49 U	-	< 2.07 U	
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	3.14 U	-	3.49	-	< 5.34 U	-	5.04	-	6.62	
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 1.47 U	-	< 1.21 U	-	< 12.7 U	-	4.06	-	3.18	
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 1.62 U	-	< 1.51 U	-	< 7.93 U	-	< 1.88 U	-	< 2.06 U	
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.36 U	-	< 1.1 U	-	< 5.81 U	-	< 1.19 U	-	< 1.57 U	
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.82 U	-	< 1.61 U	-	< 2.47 U	-	< 1.19 U	-	< 1.6 U	
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.62 U	-	< 0.871 U	-	< 2.27 U	-	< 1.04 U	-	< 1.08 U	
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.81 U	-	< 9.93 U	-	< 9.94 U	-	< 9.92 U	-	< 9.83 U	
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 1.33 U	-	< 0.861 U	-	< 1 U	-	< 0.815 U	-	< 1.16 U	
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	11.7 JN	-	13.6 JN	-	5.6 J	-	5.66 J	-	4.28 JN	
PCB-002	2051-61-8	pg/L	64	14000	-	< 4.02 U	-	< 4.8 U	-	< 3.79 U	-	< 2.25 U	-	< 3.3 U	
PCB-003	2051-62-9	pg/L	64	14000	-	< 4.15 U	-	10.8 J+	-	< 3.83 UJ	-	4.71 JN	-	6.87 J	
PCB-004	13029-08-8	pg/L	64	14000	-	307 J	-	326 J	-	346 J	-	288 J	-	302 J	
PCB-005	16605-91-7	pg/L	64	14000	-	< 8.2 U	-	< 8.12 U	-	< 5.64 U	-	< 9.06 U	-	< 6.11 U	
PCB-006	25569-80-6	pg/L	64	14000	-	10.3 JN	-	15.4 JN	-	5.12 JN	-	< 7.42 U	-	3.94 JN	
PCB-007	33284-50-3	pg/L	64	14000	-	< 7.69 U	-	< 7.73 U	-	< 5.4 U	-	< 8.68 U	-	< 5.85 U	
PCB-008	34883-43-7	pg/L	64	14000	-	62.6 JN	-	74.2 J+	-	13.3 JN	-	13.2 JN	-	14.3 JN	
PCB-009	34883-39-1	pg/L	64	14000	-	< 6.91 U	-	< 6.99 U	-	< 4.93 U	-	< 8.02 U	-	< 5.34 U	
PCB-010	33146-45-1	pg/L	64	14000	-	44.6 JN	-	36.3 JN	-	94.4 JN	-	48.2 JN	-	56.9 JN	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0046-PLW	23B-0046-PLW
					Sample Name	23B-0044-PLW-AS-F	23B-0044-PLW-AS-T	23B-0044-PLW-BS-F	23B-0044-PLW-BS-T	23B-0045-PLW-AS-F	23B-0045-PLW-AS-T	23B-0045-PLW-AT-F	23B-0045-PLW-AT-T	23B-0046-PLW-AS-F	23B-0046-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.8 - 2.8 ft	2.8 - 2.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	258 J+	-	288 J+	-	< 187 U	-	< 147 U	-	281 J+
PCB-012/013	PCB-12/13	pg/L			-	< 7.61 U	-	< 7.63 U	-	< 5.55 U	-	< 8.94 U	-	< 6.01 U
PCB-014	34883-41-5	pg/L	64	14000	-	< 7.61 U	-	< 7.6 U	-	< 5.5 U	-	< 8.76 U	-	< 5.96 U
PCB-015	2050-68-2	pg/L	64	14000	-	126 J	-	128 J	-	109 J	-	110 J	-	108 J
PCB-016	38444-78-9	pg/L	64	14000	-	67.2	-	78.2 JN	-	< 11.4 U	-	14.1 JN	-	14.2 JN
PCB-017	37680-66-3	pg/L	64	14000	-	164	-	187	-	94.4	-	107	-	82.7 JN
PCB-018/030	PCB-18/30	pg/L			-	192	-	231	-	74.6	-	83.1	-	75
PCB-019	38444-73-4	pg/L	64	14000	-	262 J	-	243 J	-	276 J	-	268 J	-	249 J
PCB-020/028	PCB-20/28	pg/L			-	200	-	209	-	75.6 J+	-	94.3	-	77.8 J+
PCB-021/033	PCB-21/33	pg/L			-	84.7 J+	-	95.2	-	< 12.5 U	-	< 8.09 U	-	8.84 JN
PCB-022	38444-85-8	pg/L	64	14000	-	42	-	47.4	-	< 11.6 U	-	< 7.98 U	-	< 7.91 U
PCB-023	55720-44-0	pg/L	64	14000	-	< 12.3 U	-	< 13.5 U	-	< 12.8 U	-	< 8.63 U	-	< 8.66 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 9.7 U	-	< 9.77 U	-	< 8.23 U	-	< 4.36 U	-	< 6.28 U
PCB-025	55712-37-3	pg/L	64	14000	-	33.3 JN	-	42.8 J	-	28.2	-	31.7	-	25.1
PCB-026/029	PCB-26/29	pg/L			-	90.7	-	91.9	-	55.7	-	70.9	-	52.3
PCB-027	38444-76-7	pg/L	64	14000	-	132	-	137	-	139	-	148	-	124
PCB-031	16606-02-3	pg/L	64	14000	-	152	-	160	-	42.9 J+	-	55.4	-	46.5 J+
PCB-032	38444-77-8	pg/L	64	14000	-	102	-	105	-	67.8	-	72.2	-	56.3 JN
PCB-034	37680-68-5	pg/L	64	14000	-	< 12.5 U	-	< 13.7 U	-	< 14.1 U	-	< 9.6 U	-	< 9.57 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 11.4 U	-	< 12.5 U	-	< 13.2 U	-	< 8.93 U	-	< 8.93 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 9.97 U	-	< 11 U	-	< 11.7 U	-	< 7.75 U	-	< 7.97 U
PCB-037	38444-90-5	pg/L	64	14000	-	30.3	-	36	-	11.7 JN	-	13.2 JN	-	12.7 J
PCB-038	53555-66-1	pg/L	64	14000	-	< 10.9 U	-	< 12.1 U	-	< 12.6 U	-	< 8.42 U	-	< 8.56 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 11.1 U	-	< 12.1 U	-	< 12.7 U	-	< 8.57 U	-	< 8.62 U
PCB-040/071	PCB-40/71	pg/L			-	75.5	-	84.1	-	65.1	-	64.1	-	60.3
PCB-041	52663-59-9	pg/L	64	14000	-	8.17 JN	-	10.6 JN	-	< 10.4 U	-	< 4.58 U	-	< 6.52 U
PCB-042	36559-22-5	pg/L	64	14000	-	50.7	-	63	-	32.6 JN	-	38.5	-	38.6
PCB-043	70362-46-8	pg/L	64	14000	-	8.88 J	-	8.22 JN	-	< 7.62 U	-	7.45 JN	-	9.11 J
PCB-044/047/065	PCB-44/47/65	pg/L			-	241	-	267	-	230	-	262	-	227
PCB-045	70362-45-7	pg/L	64	14000	-	27.8	-	30.1	-	15.4 JN	-	28.6 J	-	12.5 JN
PCB-046	41464-47-5	pg/L	64	14000	-	22.8	-	27.5	-	20.9	-	18.2 JN	-	17.5
PCB-048	70362-47-9	pg/L	64	14000	-	25 JN	-	32.2	-	8.49 JN	-	11.3 JN	-	8.96 J
PCB-049/069	PCB-49/69	pg/L			-	162	-	173	-	161	-	180	-	151
PCB-050/053	PCB-50/53	pg/L			-	151	-	142	-	158	-	166	-	160
PCB-051	68194-04-7	pg/L	64	14000	-	17.1 JN	-	22.1 JN	-	26.1	-	19.7	-	19.4 JN
PCB-052	35693-99-3	pg/L	64	14000	-	278	-	284	-	265	-	287	-	251
PCB-054	15968-05-5	pg/L	64	14000	-	11.2	-	12.6 JN	-	16	-	15.8	-	9.36 JN
PCB-055	74338-24-2	pg/L	64	14000	-	< 5.83 U	-	< 4.48 U	-	< 8.09 U	-	< 3.86 U	-	< 5.58 U
PCB-056	41464-43-1	pg/L	64	14000	-	25.2	-	29.2	-	12.5 JN	-	10.4 JN	-	15.7
PCB-057	70424-67-8	pg/L	64	14000	-	< 6.34 U	-	< 4.94 U	-	< 8.91 U	-	< 4.55 U	-	< 6.15 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 5.63 U	-	< 4.36 U	-	< 8.02 U	-	< 4.14 U	-	< 5.54 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	17.1 JN	-	20.7 JN	-	12.1 JN	-	18.5 J	-	17.7 J
PCB-060	33025-41-1	pg/L	64	14000	-	15.4 J	-	17 J	-	< 9.46 U	-	< 4.87 U	-	< 6.53 U
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	125	-	145	-	88.4	-	86.1	-	85.4
PCB-063	74472-34-7	pg/L	64	14000	-	< 6.9 U	-	5.47 J	-	< 9.51 U	-	4.73 JN	-	< 6.57 U
PCB-064	52663-58-8	pg/L	64	14000	-	56.2	-	65.2	-	42	-	42	-	40.2
PCB-066	32598-10-0	pg/L	64	14000	-	72.8 J	-	87.9 J	-	59.3	-	64.3	-	57.3
PCB-067	73575-53-8	pg/L	64	14000	-	< 5.57 U	-	5.83 JN	-	< 7.63 U	-	< 3.94 U	-	< 5.26 U
PCB-068	73575-52-7	pg/L	64	14000	-	< 6.26 U	-	< 4.97 U	-	< 8.81 U	-	6.38 J	-	< 6.08 U
PCB-072	41464-42-0	pg/L	64	14000	-	< 6.18 U	-	5.04 JN	-	< 8.94 U	-	6.56 JN	-	< 6.17 U
PCB-073	74338-23-1	pg/L	64	14000	-	9.41 J	-	7.43 J	-	8.41 JN	-	9.51 J	-	6.23 JN
PCB-077	32598-13-3	pg/L	64	14000	-	< 5.69 U	-	6.18 JN	-	< 8.23 U	-	4.26 JN	-	< 6.48 U
PCB-078	70362-49-1	pg/L	64	14000	-	< 6.37 U	-	< 4.89 U	-	< 8.76 U	-	< 4.68 U	-	< 6.04 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 5.34 U	-	< 4.13 U	-	< 7.66 U	-	< 3.94 U	-	< 5.29 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 5.9 U	-	< 4.64 U	-	< 8.3 U	-	< 4.17 U	-	< 5.73 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 6.17 U	-	< 4.79 U	-	< 8.38 U	-	< 4.49 U	-	< 5.79 U
PCB-082	52663-62-4	pg/L	64	14000	-	12.8	-	10.6 JN	-	13.9 JN	-	13.5 JN	-	13.5 JN
PCB-083	60145-20-2	pg/L	64	14000	-	14.9 J	-	18.2 J	-	13.7 JN	-	8.27 JN	-	13.1 J
PCB-084	52663-60-2	pg/L	64	14000	-	47.4 JN	-	57.9 J	-	63.9	-	61.2	-	65.5

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0046-PLW	23B-0046-PLW
					Sample Name	23B-0044-PLW-AS-F	23B-0044-PLW-AS-T	23B-0044-PLW-BS-F	23B-0044-PLW-BS-T	23B-0045-PLW-AS-F	23B-0045-PLW-AS-T	23B-0045-PLW-AT-F	23B-0045-PLW-AT-T	23B-0046-PLW-AS-F	23B-0046-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.8 - 2.8 ft	2.8 - 2.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	22.3	-	27.3	-	24.1	-	29.6	-	26.6 JN
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	93.3	-	109	-	128	-	131	-	123
PCB-088	55215-17-3	pg/L	64	14000	-	< 8.65 U	-	< 9.42 U	-	< 9.55 U	-	< 4.82 U	-	< 7.65 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 7.49 U	-	< 8.31 U	-	< 8.82 U	-	< 4.41 U	-	< 7.07 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	162	-	183	-	198	-	230	-	220
PCB-091	68194-05-8	pg/L	64	14000	-	28.7 JN	-	40.6 J	-	37.2 JN	-	49.8 JN	-	46.1
PCB-092	52663-61-3	pg/L	64	14000	-	47.3 J	-	49.3 J	-	62.2	-	66.6	-	65
PCB-093/100	PCB-93/100	pg/L			-	< 7.91 U	-	< 8.93 U	-	< 9.25 U	-	9.97 JN	-	< 7.41 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 8.59 U	-	< 9.74 U	-	< 10 U	-	< 5.17 U	-	< 8.03 U
PCB-095	38379-99-6	pg/L	64	14000	-	154 J	-	176 J	-	193	-	213	-	195
PCB-096	73575-54-9	pg/L	64	14000	-	3.27 JN	-	< 3.9 U	-	< 2.71 U	-	< 1.78 U	-	2.86 JN
PCB-098	60233-25-2	pg/L	64	14000	-	< 6.54 U	-	< 7.65 U	-	< 7.51 U	-	< 4.05 U	-	< 6.02 U
PCB-099	38380-01-7	pg/L	64	14000	-	60.7 J	-	69.9 J	-	80.4	-	94.3	-	84.8
PCB-102	68194-06-9	pg/L	64	14000	-	< 6.81 UJ	-	< 7.67 UJ	-	< 7.86 U	-	7 JN	-	< 6.3 U
PCB-103	60145-21-3	pg/L	64	14000	-	< 7.45 U	-	< 8.43 U	-	< 8.53 U	-	< 4.39 U	-	< 6.84 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 3.15 U	-	< 3.51 U	-	< 2.34 U	-	< 1.56 U	-	< 2.1 U
PCB-105	32598-14-4	pg/L	64	14000	-	20.5 JN	-	27.4 JN	-	30.1 JN	-	34.4 J	-	31.6 J
PCB-106	70424-69-0	pg/L	64	14000	-	< 5.12 U	-	< 5.78 U	-	< 5.88 U	-	< 3.17 U	-	< 4.72 U
PCB-107	70424-68-9	pg/L	64	14000	-	< 4.9 U	-	6.62 JN	-	7.54 JN	-	13.2	-	9.64 JN
PCB-108/124	PCB-108/124	pg/L			-	< 5.6 U	-	< 6.3 U	-	7.61 JN	-	6.13 J	-	< 5.28 U
PCB-110	38380-03-9	pg/L	64	14000	-	168 J	-	193 J	-	230	-	231	-	254
PCB-111	39635-32-0	pg/L	64	14000	-	< 5.5 U	-	< 6.17 U	-	< 6.47 U	-	< 3.43 U	-	< 5.19 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 4.73 U	-	< 5.43 U	-	< 5.41 U	-	< 2.67 U	-	< 4.34 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 5.33 U	-	< 5.35 U	-	< 6.3 U	-	< 3.33 U	-	< 5.11 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 4.39 U	-	< 5.09 U	-	7.98 JN	-	< 2.79 U	-	4.09 JN
PCB-117	68194-11-6	pg/L	64	14000	-	6.65 JN	-	6.96 J	-	9.13 J	-	9.29 J	-	7.83 J
PCB-118	31508-00-6	pg/L	64	14000	-	80.3 J	-	94 J	-	85.9 J	-	123 J	-	112
PCB-120	68194-12-7	pg/L	64	14000	-	< 4.56 U	-	< 5.08 U	-	< 5.28 U	-	< 2.8 U	-	< 4.23 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 5.05 U	-	< 5.65 U	-	< 5.8 U	-	< 3.08 U	-	< 4.65 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 6.79 U	-	< 6.67 U	-	< 8.15 U	-	< 4.17 U	-	< 6.62 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 5.18 U	-	< 5.72 U	-	< 6.03 U	-	< 3.27 U	-	< 4.83 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 4.58 U	-	< 4.65 U	-	< 4.65 U	-	< 2.21 U	-	< 3.21 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 5.43 U	-	< 5.88 U	-	< 6.35 U	-	< 3.38 U	-	< 4.79 U
PCB-128/166	PCB-128/166	pg/L			-	19.6 J	-	25.8 J	-	22.9 JN	-	38.9	-	33.2
PCB-129/138/163	PCB-129/138/163	pg/L			-	124 J	-	158 J	-	214	-	271	-	226
PCB-130	52663-66-8	pg/L	64	14000	-	6.71 JN	-	10.8 J	-	9.21 JN	-	18.4	-	15.8
PCB-131	61798-70-7	pg/L	64	14000	-	< 3.7 U	-	< 1.86 U	-	< 3.25 U	-	< 7.74 U	-	< 2.81 U
PCB-132	38380-05-1	pg/L	64	14000	-	35.3 J	-	51.6 J	-	67.1 JN	-	81.6	-	73.3
PCB-133	35694-04-3	pg/L	64	14000	-	< 3.23 U	-	< 1.65 U	-	< 2.98 U	-	< 6.95 U	-	< 2.58 U
PCB-134	52704-70-8	pg/L	64	14000	-	< 4.16 UJ	-	10.2 J	-	12.9 JN	-	22.1	-	14.6 JN
PCB-135/151	PCB-135/151	pg/L			-	32.4 J	-	41.8 J	-	57	-	61.5	-	47.7
PCB-136	38411-22-2	pg/L	64	14000	-	16.2 JN	-	21.3	-	29.2 J	-	31.4 J	-	25 J
PCB-137	35694-06-5	pg/L	64	14000	-	6.52 JN	-	7.3 JN	-	8.76 JN	-	13.2	-	8.72 JN
PCB-139/140	PCB-139/140	pg/L			-	< 3.26 U	-	< 1.66 U	-	< 2.97 U	-	< 6.89 U	-	3.87 JN
PCB-141	52712-04-6	pg/L	64	14000	-	18.7 J	-	20 JN	-	28.2	-	31.9	-	27.8
PCB-142	41411-61-4	pg/L	64	14000	-	< 3.72 U	-	< 1.88 U	-	< 3.32 U	-	< 7.52 U	-	< 2.87 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 3.47 U	-	< 1.79 U	-	< 3.17 U	-	< 6.6 U	-	< 2.75 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 3.47 U	-	< 1.74 U	-	8.29 JN	-	10.7 JN	-	8.35 JN
PCB-145	74472-40-5	pg/L	64	14000	-	< 2.56 U	-	< 1.35 U	-	< 2.21 U	-	< 4.68 U	-	< 1.95 U
PCB-146	51908-16-8	pg/L	64	14000	-	13.1 J	-	18.3 JN	-	18.6 JN	-	27.3	-	24.3
PCB-147/149	PCB-147/149	pg/L			-	78.1 J	-	95.8 J	-	123	-	146	-	129
PCB-148	74472-41-6	pg/L	64	14000	-	< 3.36 U	-	< 1.72 U	-	< 3.07 U	-	< 6.99 U	-	< 2.66 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 2.65 U	-	< 1.41 U	-	< 2.29 U	-	< 4.94 U	-	< 2.01 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 2.47 U	-	< 1.28 U	-	< 2.16 U	-	< 4.55 U	-	< 1.91 U
PCB-153/168	PCB-153/168	pg/L			-	81 J	-	108 J	-	137	-	171	-	142
PCB-154	60145-22-4	pg/L	64	14000	-	< 3.1 U	-	< 1.58 U	-	< 2.74 U	-	< 6.29 U	-	< 2.37 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0046-PLW	23B-0046-PLW
					Sample Name	23B-0044-PLW-AS-F	23B-0044-PLW-AS-T	23B-0044-PLW-BS-F	23B-0044-PLW-BS-T	23B-0045-PLW-AS-F	23B-0045-PLW-AS-T	23B-0045-PLW-AT-F	23B-0045-PLW-AT-T	23B-0046-PLW-AS-F	23B-0046-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.8 - 2.8 ft	2.8 - 2.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 2.33 U	-	< 1.22 U	-	< 1.97 U	-	< 4.43 U	-	< 1.74 U
PCB-156/157	PCB-156/157	pg/L			-	10.9 JN	-	14.1 J	-	14.1 J	-	21.3 JN	-	16.7 JN
PCB-158	74472-42-7	pg/L	64	14000	-	11.5 JN	-	15.4 J	-	18.7 J	-	22.3 J	-	19.2 J
PCB-159	39635-35-3	pg/L	64	14000	-	< 3.78 U	-	< 3 U	-	< 3.48 U	-	< 2.01 U	-	< 2.76 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 2.75 U	-	< 1.4 U	-	1.66 J	-	< 5.84 U	-	< 2.1 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 2.43 U	-	< 1.23 U	-	< 2.12 U	-	< 5.11 U	-	< 1.83 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 4.52 U	-	< 3.57 U	-	< 4.06 U	-	< 2.43 U	-	< 3.22 U
PCB-164	74472-45-0	pg/L	64	14000	-	10.1	-	7.21 JN	-	7.61 JN	-	14.3 JN	-	15.7
PCB-165	74472-46-1	pg/L	64	14000	-	< 2.83 U	-	< 1.43 U	-	< 2.58 U	-	< 5.95 U	-	< 2.23 U
PCB-167	52663-72-6	pg/L	64	14000	-	< 4.38 U	-	6.18 J	-	8.26 JN	-	9.58 JN	-	8.78 JN
PCB-169	32774-16-6	pg/L	4	14000	-	< 6.67 U	-	< 6.11 U	-	< 4.41 U	-	< 2.46 U	-	< 3.37 U
PCB-170	35065-30-6	pg/L	64	14000	-	< 9.9 UJ	-	20.9 J	-	30.4	-	28.1	-	19.8 JN
PCB-171/173	PCB-171/173	pg/L			-	< 9.16 U	-	< 5.98 U	-	< 11.2 U	-	9.8 J	-	< 12.1 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 8.74 U	-	< 5.61 U	-	< 10.6 U	-	< 4.76 U	-	< 11.4 U
PCB-174	38411-25-5	pg/L	64	14000	-	11.8 JN	-	14.1	-	19.4 J	-	20.9 J	-	18.9 J
PCB-175	40186-70-7	pg/L	64	14000	-	< 8.87 U	-	< 5.79 U	-	< 10.9 U	-	< 4.76 U	-	< 11.8 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 3.58 U	-	< 3.72 U	-	< 3.91 U	-	< 2.77 U	-	< 4.05 U
PCB-177	52663-70-4	pg/L	64	14000	-	< 8.33 UJ	-	9.96 JN	-	< 10.1 U	-	10.5 JN	-	9.84
PCB-178	52663-67-9	pg/L	64	14000	-	< 4.47 U	-	< 4.59 U	-	< 5.05 U	-	7.93 J	-	< 5.24 U
PCB-179	52663-64-6	pg/L	64	14000	-	< 3.14 U	-	6.56 J	-	< 3.44 U	-	8.84 J	-	5.9 JN
PCB-180/193	PCB-180/193	pg/L			-	29.1 J	-	32.4 J	-	30.4 JN	-	47.4 J	-	42.6 JN
PCB-181	74472-47-2	pg/L	64	14000	-	< 7.79 U	-	< 5.05 U	-	< 9.66 U	-	< 4.2 U	-	< 10.4 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 7.35 U	-	< 4.82 U	-	< 8.94 U	-	< 3.87 U	-	< 9.64 U
PCB-183	52663-69-1	pg/L	64	14000	-	< 7.82 UJ	-	7.24 JN	-	12.2 J	-	16.2 J	-	< 10.8 UJ
PCB-184	74472-48-3	pg/L	64	14000	-	< 3.38 U	-	< 3.49 U	-	< 3.64 U	-	< 2.56 U	-	< 3.77 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 9.75 U	-	< 5.83 U	-	< 10.9 U	-	< 4.68 U	-	< 11.7 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 3.02 U	-	< 3.09 U	-	< 3.32 U	-	< 2.23 U	-	< 3.45 U
PCB-187	52663-68-0	pg/L	64	14000	-	15.1	-	12.7 JN	-	15 JN	-	23.3 J	-	22.1 J
PCB-188	74487-85-7	pg/L	64	14000	-	< 3.24 U	-	< 3.19 U	-	< 3.66 U	-	< 2.54 U	-	< 3.79 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 5.39 U	-	< 5.26 U	-	< 5.61 U	-	< 2.39 U	-	< 4.18 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 7.05 U	-	< 4.16 U	-	< 7.88 U	-	< 4.02 U	-	< 8.64 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 6.99 U	-	< 4.51 U	-	< 8.16 U	-	< 3.68 U	-	< 8.81 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 6.16 U	-	< 3.95 U	-	< 7.25 U	-	< 3.25 U	-	< 7.83 U
PCB-194	35694-08-7	pg/L	64	14000	-	< 4.78 U	-	8.1 J	-	6.49 J	-	7.25 JN	-	8.17 J
PCB-195	52663-78-2	pg/L	64	14000	-	< 5.13 U	-	< 3.48 U	-	< 4.74 U	-	3.95 JN	-	< 4.31 U
PCB-196	42740-50-1	pg/L	64	14000	-	< 3.24 U	-	2.81 J	-	< 3.47 U	-	4.17 JN	-	< 2 U
PCB-197	33091-17-7	pg/L	64	14000	-	< 2.48 U	-	< 2.03 U	-	< 2.65 U	-	< 1.26 U	-	< 1.53 U
PCB-198/199	PCB-198/199	pg/L			-	< 2.88 U	-	7.51 J	-	11.5 JN	-	8.38 JN	-	13.2 J
PCB-200	52663-73-7	pg/L	64	14000	-	< 2.53 U	-	< 2.05 U	-	< 2.75 U	-	< 1.33 U	-	< 1.59 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 2.64 U	-	< 2.17 U	-	< 2.93 U	-	< 1.37 U	-	< 1.69 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 2.17 U	-	< 1.77 U	-	< 2.32 U	-	1.64 JN	-	1.75 JN
PCB-203	52663-76-0	pg/L	64	14000	-	< 2.64 U	-	4.8 JN	-	7.6 JN	-	5.71 JN	-	4.79 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 2.33 U	-	< 1.89 U	-	< 2.55 U	-	< 1.2 U	-	< 1.47 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 4.13 U	-	< 2.84 U	-	< 3.78 U	-	< 2.19 U	-	< 3.44 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 19.6 UJ	-	< 19.8 UJ	-	< 20.2 UJ	-	9.05 JN	-	< 19.6 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 5.89 U	-	< 5.96 U	-	< 7.11 U	-	< 3.5 U	-	< 5.47 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 5.21 U	-	< 5.29 U	-	< 6.15 U	-	4.39 JN	-	< 4.73 U
PCB-209	2051-24-3	pg/L	64	14000	-	5.6 J	-	7.71 J	-	7.67 JN	-	10.1 JN	-	6.27 JN
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	5.6	-	7.71	-	7.67	-	10.1	-	6.27
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	56.0	-	104	-	107	-	173	-	119
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	464	-	612	-	786	-	992	-	840
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	< 5.13 U	-	23.2	-	25.6	-	31.1	-	27.9
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	5220	-	5920	-	4780	-	5330	-	5060
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	922	-	1070	-	1190	-	1330	-	1270
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	809	-	868	-	568	-	459	-	766
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	11.7	-	24.4	-	5.6	-	10.4	-	11.2
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 19.6 U	-	< 19.8 U	-	< 20.2 U	-	13.4	-	< 19.6 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1400	-	1550	-	1220	-	1350	-	1190
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	1550	-	1660	-	866	-	958	-	824

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0046-PLW	23B-0046-PLW
					Sample Name	23B-0044-PLW-AS-F	23B-0044-PLW-AS-T	23B-0044-PLW-BS-F	23B-0044-PLW-BS-T	23B-0045-PLW-AS-F	23B-0045-PLW-AS-T	23B-0045-PLW-AT-F	23B-0045-PLW-AT-T	23B-0046-PLW-AS-F	23B-0046-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.8 - 2.8 ft	2.8 - 2.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	69 J	49	45 J	62	48 J+	54	47 J+	59	32 J+	63
Antimony	7440-36-0	ug/L	0.78	190	0.20 J	< 2.0 U	0.16 J	0.20 J	0.17 J	0.16 J	0.17 J	0.20 J	0.16 J	0.18 J
Arsenic	7440-38-2	ug/L	0.018	150	0.49 J	0.43 J	0.56 J	0.37 J	0.43 J	0.43 J	0.37 J	0.54 J	0.25 J	0.48 J
Barium	7440-39-3	ug/L	380	220	32	33	31	36	32	35	33	35	32	36
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	12000	13000	12000	14000	13000	13000	13000	13000	13000	14000
Chromium, Total	7440-47-3	ug/L	100	44	1.1 J	0.85 J	0.68 J	1.1 J	0.81 J	< 2.0 U	0.73 J	< 2.0 U	0.70 J	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.18 J	0.20 J	0.14 J	0.30 J	0.18 J	0.23 J	0.22 J	0.26 J	0.19 J	0.22 J
Copper	7440-50-8	ug/L	80	5	1.5 J	2.0	1.7 J	2.1	1.9 J	1.8 J	1.6 J	2.6	1.8 J	1.8 J
Iron	7439-89-6	ug/L	1400	1000	610	880	660	940	490	900	510	1300	510	970
Lead	7439-92-1	ug/L	15	0.54	1.0 J+	1.3	1.1	1.5	< 1.0 U	1.5	< 1.0 U	2.8	< 1.0 U	1.5
Magnesium	7439-95-4	ug/L		82000	3200	3400	3100	3500	3300	3400	3300	3300	3300	3600
Manganese	7439-96-5	ug/L	43	93	78	99	75	100	82	100	80	110	80	110
Nickel	7440-02-0	ug/L	39	27	0.74 J	0.84 J	0.72 J	1.1	0.97 J	1.0 J+	0.77 J	1.4 J+	0.85 J	< 1.0 U
Potassium	7440-09-7	ug/L		53000	2500	2700	2500	2800	2700	2800	2700	2700	2700	2900
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	52000	57000	50000	58000	56000	55000	55000	54000	56000	61000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.53 J	0.71 J	0.51 J	0.82 J	0.54 J	0.68 J	0.51 J	0.73 J	0.49 J	0.81 J
Zinc	7440-66-6	ug/L	600	11.8	5.2 J+	6.5	5.2 J+	8.9	7.6 J+	7.4 J+	7.5 J+	8.6 J+	5.8 J+	6.8 J+
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	3.2 J
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0046-PLW	23B-0046-PLW
					Sample Name	23B-0044-PLW-AS-F	23B-0044-PLW-AS-T	23B-0044-PLW-BS-F	23B-0044-PLW-BS-T	23B-0045-PLW-AS-F	23B-0045-PLW-AS-T	23B-0045-PLW-AT-F	23B-0045-PLW-AT-T	23B-0046-PLW-AS-F	23B-0046-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.8 - 2.8 ft	2.8 - 2.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	0.88 J+	-	0.65 J+	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
Styrene	100-42-5	ug/L	100	32	-	< 0.50 R	-	< 0.50 R	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.1 U	-	< 5.1 UJ	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.1 UJ	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0046-PLW	23B-0046-PLW
					Sample Name	23B-0044-PLW-AS-F	23B-0044-PLW-AS-T	23B-0044-PLW-BS-F	23B-0044-PLW-BS-T	23B-0045-PLW-AS-F	23B-0045-PLW-AS-T	23B-0045-PLW-AT-F	23B-0045-PLW-AT-T	23B-0046-PLW-AS-F	23B-0046-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	N	N	N	N	FD	FD	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.8 - 2.8 ft	2.8 - 2.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.1 U	-	< 5.1 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.1 U	-	< 5.1 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 2.0 U	-	< 1.8 U	-	< 1.6 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 2.0 U	-	< 1.8 U	-	< 1.6 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 2.0 U	-	< 1.8 U	-	< 1.6 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 2.0 U	-	< 1.8 U	-	< 1.6 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 2.0 U	-	< 1.8 U	-	< 1.6 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.1	-	2.5	-	2.6	-	2.9	-	2.8
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	5.3	-	5.5	-	4.1 J-	-	6.6 J-	-	8.6 J-
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 2.0 U	-	< 1.8 U	-	< 1.6 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.35 J	-	< 1.9 U	-	0.34 J	-	0.32 J	-	0.27 J
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.9 U	-	< 1.9 U	-	< 2.0 U	-	< 1.8 U	-	< 1.6 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 2.0 U	-	< 1.8 U	-	< 1.6 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.6	-	1.9	-	1.9 J	-	2.2	-	2.2
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.2	-	2.3	-	2.0	-	2.3	-	2.4
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	4.3	-	3.1	-	4.1	-	4.4	-	4.1
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 2.0 U	-	< 1.8 U	-	< 1.6 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	1.0 J	-	0.81 J	-	0.82 J	-	0.83 J	-	0.79 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 2.0 U	-	< 1.8 U	-	< 1.6 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	6.3	-	4.8	-	5.1	-	5.2	-	5.2
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	6.5	-	5.2	-	5.2	-	5.8	-	5.8
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.33 J	-	0.29 J	-	0.31 J	-	< 1.8 U	-	0.28 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	5.0	-	4.5	-	3.8	-	4.4	-	4.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.9 U	-	< 1.9 U	-	< 2.0 U	-	< 1.8 U	-	< 1.6 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.9 U	-	< 1.9 U	-	< 2.0 U	-	< 1.8 U	-	< 1.6 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0044-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0045-PLW	23B-0046-PLW	23B-0046-PLW
				Sample Name	23B-0044-PLW-AS-F	23B-0044-PLW-AS-T	23B-0044-PLW-BS-F	23B-0044-PLW-BS-T	23B-0045-PLW-AS-F	23B-0045-PLW-AS-T	23B-0045-PLW-AT-F	23B-0045-PLW-AT-T	23B-0046-PLW-AS-F	23B-0046-PLW-AS-T
				Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
				Sample Type	N	N	N	N	N	N	FD	FD	N	N
				Depth Interval	1 - 1 ft	1 - 1 ft	4.1 - 4.1 ft	4.1 - 4.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	2.8 - 2.8 ft	2.8 - 2.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.9 U	-	< 1.9 U	-	< 2.0 U	-	< 1.8 U	-	< 1.6 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.6	-	8.5	-	8.29	-	-	-	8.98
Oxidation-Reduction Potential	ORP	mv			-	129	-	125.1	-	143.6	-	-	-	146.1
pH	PH	su			-	6.6	-	6.58	-	6.65	-	-	-	6.8
Specific Conductance	SC	us/cm			-	414.8	-	415.5	-	409.4	-	-	-	406.6
Temperature	TEMP	deg c			-	12.2	-	12.1	-	13	-	-	-	12.6
Turbidity	TURB	NTU			-	0.89	-	1.07	-	1.29	-	-	-	1.13

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0047-PLW	23B-0047-PLW	23B-0048-PLW	23B-0048-PLW	23B-0049-PLW	23B-0049-PLW	23B-0050-PLW	23B-0050-PLW	23B-0051-PLW	23B-0051-PLW
					Sample Name	23B-0047-PLW-AS-F	23B-0047-PLW-AS-T	23B-0048-PLW-AS-F	23B-0048-PLW-AS-T	23B-0049-PLW-AS-F	23B-0049-PLW-AS-T	23B-0050-PLW-AS-F	23B-0050-PLW-AS-T	23B-0051-PLW-AS-F	23B-0051-PLW-AS-T
					Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.7 - 0.7 ft	0.7 - 0.7 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	0.65 - 0.65 ft	0.65 - 0.65 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.51 U	-	< 0.51 U	-	< 0.51 U	-	< 0.50 U	-	< 0.51 U	
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.051 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	2.61 JN	-	1.86 JN	-	3.27 JN	-	17.1 JN	-	< 1.42 U	
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.2 U	-	< 0.777 U	-	< 0.855 U	-	< 1 U	-	< 0.994 U	
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.6 U	-	< 1.38 U	-	< 1.83 U	-	< 3.04 U	-	< 1.62 U	
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.11 U	-	< 0.854 U	-	< 0.978 U	-	< 1.12 U	-	< 0.887 U	
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.8 U	-	< 1.44 U	-	< 1.87 U	-	< 2.7 U	-	< 1.68 U	
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.05 U	-	< 0.835 U	-	< 0.96 U	-	< 1.05 U	-	< 0.886 U	
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.64 U	-	< 1.49 U	-	< 1.79 U	-	< 2.72 U	-	< 1.87 U	
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.32 U	-	< 0.996 U	-	< 1.19 U	-	< 1.27 U	-	< 1.11 U	
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.86 U	-	< 1.19 U	-	< 1.34 U	-	< 1.65 UJ	-	< 1.47 U	
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.45 U	-	< 0.932 U	-	< 0.994 U	-	< 1.1 U	-	< 1.4 U	
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	1.44 JN	-	< 0.639 U	-	3.41 J	-	10.2 JN	-	< 0.695 U	
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.31 U	-	< 0.914 U	-	< 1.03 U	-	< 1.21 U	-	< 0.884 U	
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.38 U	-	< 0.919 U	-	< 0.923 U	-	< 1.07 U	-	< 1.19 U	
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.9 UJ	-	< 9.91 UJ	-	< 9.93 UJ	-	< 10.6 UJ	-	< 10 UJ	
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 1.09 U	-	< 0.757 U	-	< 0.943 U	-	< 0.969 U	-	< 1.04 U	
OCDD	3268-87-9	pg/L	400	31	-	13.7 J	-	15.1 J	-	17.7 JN	-	104	-	< 2.11 U	
OCDF	39001-02-0	pg/L	400	31	-	2.97 JN	-	< 1.05 U	-	< 1.17 U	-	7.78 JN	-	< 1.47 U	
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	2.61	-	1.86	-	3.27	-	17.1	-	< 1.42 U	
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	1.44 U	-	< 0.777 U	-	3.41	-	10.2	-	< 0.994 U	
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 1.8 U	-	< 1.49 U	-	< 1.87 U	-	< 3.04 U	-	< 1.87 U	
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.32 U	-	< 0.996 U	-	< 1.19 U	-	< 1.27 U	-	< 1.11 U	
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.86 U	-	< 1.19 U	-	< 1.34 U	-	< 1.65 U	-	< 1.47 U	
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.45 U	-	< 0.932 U	-	< 0.994 U	-	< 1.1 U	-	< 1.4 U	
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.9 U	-	< 9.91 U	-	< 9.93 U	-	< 10.6 U	-	< 10 U	
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 1.09 U	-	< 0.757 U	-	< 0.943 U	-	< 0.969 U	-	< 1.04 U	
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	5.16 JN	-	19.7 J	-	70.4 J	-	290 J	-	20.9 JN	
PCB-002	2051-61-8	pg/L	64	14000	-	< 2.61 U	-	< 3.3 U	-	< 3.09 U	-	< 4.32 U	-	< 2.91 U	
PCB-003	2051-62-9	pg/L	64	14000	-	< 2.64 UJ	-	14.7 J	-	15.6 J	-	90.2 J	-	10.1 JN	
PCB-004	13029-08-8	pg/L	64	14000	-	279 J	-	226 J	-	408 J	-	993 J	-	1810 J	
PCB-005	16605-91-7	pg/L	64	14000	-	< 5.16 U	-	< 7.64 U	-	< 6.87 U	-	< 10.4 U	-	< 6.61 U	
PCB-006	25569-80-6	pg/L	64	14000	-	5.61 JN	-	9.6 JN	-	11.2 JN	-	71.1 JN	-	13.6 JN	
PCB-007	33284-50-3	pg/L	64	14000	-	< 4.94 U	-	< 7.1 U	-	< 6.56 U	-	< 9.68 U	-	< 6.32 U	
PCB-008	34883-43-7	pg/L	64	14000	-	14.7 JN	-	30.4 JN	-	46.1 JN	-	254 J	-	48.4 JN	
PCB-009	34883-39-1	pg/L	64	14000	-	< 4.51 U	-	< 6.4 U	-	< 5.95 U	-	6.9 JN	-	< 5.72 U	
PCB-010	33146-45-1	pg/L	64	14000	-	49.8 JN	-	177	-	772	-	1740	-	365	

Table 17
Surface Water Analytical Results
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					Location	23B-0047-PLW	23B-0047-PLW	23B-0048-PLW	23B-0048-PLW	23B-0049-PLW	23B-0049-PLW	23B-0050-PLW	23B-0050-PLW	23B-0051-PLW	23B-0051-PLW
					Sample Name	23B-0047-PLW-AS-F	23B-0047-PLW-AS-T	23B-0048-PLW-AS-F	23B-0048-PLW-AS-T	23B-0049-PLW-AS-F	23B-0049-PLW-AS-T	23B-0050-PLW-AS-F	23B-0050-PLW-AS-T	23B-0051-PLW-AS-F	23B-0051-PLW-AS-T
					Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.7 - 0.7 ft	0.7 - 0.7 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	0.65 - 0.65 ft	0.65 - 0.65 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	< 173 U	-	122 J	-	140 J	-	205 J	-	180 J
PCB-012/013	PCB-12/13	pg/L			-	12.2 JN	-	< 7.26 UJ	-	10.7 JN	-	50.2 JN	-	14.8 JN
PCB-014	34883-41-5	pg/L	64	14000	-	< 5.03 U	-	< 7.22 U	-	< 6.55 U	-	< 9.85 U	-	< 6.31 U
PCB-015	2050-68-2	pg/L	64	14000	-	123 J	-	222 J	-	263 J	-	1040 J	-	322 J
PCB-016	38444-78-9	pg/L	64	14000	-	14.5	-	21.8	-	19.6 JN	-	53.4 JN	-	46.1 JN
PCB-017	37680-66-3	pg/L	64	14000	-	94.2 JN	-	90.6 J	-	143 J	-	486 J	-	419 J
PCB-018/030	PCB-18/30	pg/L			-	82.6	-	73.9 J	-	125 J	-	300 J	-	281 J
PCB-019	38444-73-4	pg/L	64	14000	-	267 J	-	514 J	-	837 J	-	2670 J	-	709 J
PCB-020/028	PCB-20/28	pg/L			-	101	-	126 J	-	180 J	-	517 J	-	253 J
PCB-021/033	PCB-21/33	pg/L			-	7.37 J	-	20.4 J	-	28.5 J	-	48.2 J	-	29.2 J
PCB-022	38444-85-8	pg/L	64	14000	-	< 7.64 U	-	13.3 J	-	21.4 J	-	65 J	-	17.1 JN
PCB-023	55720-44-0	pg/L	64	14000	-	< 8.36 U	-	< 14.3 U	-	< 11.2 U	-	< 18.3 U	-	< 15 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 6 U	-	< 9.78 U	-	< 11.6 U	-	< 12.6 U	-	< 10.8 U
PCB-025	55712-37-3	pg/L	64	14000	-	28.3	-	17.8 JN	-	27 J	-	179 J	-	109 J
PCB-026/029	PCB-26/29	pg/L			-	62	-	40.3 JN	-	62 J	-	357 J	-	256 J
PCB-027	38444-76-7	pg/L	64	14000	-	137	-	245 J	-	320 J	-	1010 J	-	330 J
PCB-031	16606-02-3	pg/L	64	14000	-	55.9	-	56.7 J	-	79.4 J	-	372 J	-	223 J
PCB-032	38444-77-8	pg/L	64	14000	-	72.6	-	255 J	-	305 J	-	1220 J	-	328 J
PCB-034	37680-68-5	pg/L	64	14000	-	< 9.24 U	-	< 14.8 U	-	< 11.4 U	-	< 19 U	-	< 15.3 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 8.62 U	-	< 13.1 U	-	< 10.3 U	-	< 16.8 U	-	< 13.7 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 7.7 U	-	< 11.6 U	-	< 9.03 U	-	< 14.9 U	-	< 12.1 U
PCB-037	38444-90-5	pg/L	64	14000	-	15.6 J	-	29.1 J	-	37.3 J	-	128 J	-	27.3 JN
PCB-038	53555-66-1	pg/L	64	14000	-	< 8.27 U	-	< 12.9 U	-	< 9.85 U	-	< 16.6 U	-	< 13.2 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 8.33 U	-	< 13 U	-	< 9.96 U	-	< 16.7 U	-	< 13.3 U
PCB-040/071	PCB-40/71	pg/L			-	69.4 JN	-	90.6 J	-	131 J	-	498 J	-	153 J
PCB-041	52663-59-9	pg/L	64	14000	-	< 6.93 U	-	6.48 J	-	8.37 JN	-	15.5 JN	-	6.61 J
PCB-042	36559-22-5	pg/L	64	14000	-	46.3	-	67.4 J	-	86.4 J	-	309 J	-	104 J
PCB-043	70362-46-8	pg/L	64	14000	-	8.31 J	-	9.61 J	-	17.2	-	49.7	-	20.5
PCB-044/047/065	PCB-44/47/65	pg/L			-	254	-	339 J	-	437 J	-	1520 J	-	453 J
PCB-045	70362-45-7	pg/L	64	14000	-	25.1 JN	-	36.6	-	35.7 JN	-	137	-	61.6
PCB-046	41464-47-5	pg/L	64	14000	-	24.2	-	33.6 J	-	36.1 J	-	113 J	-	41 J
PCB-048	70362-47-9	pg/L	64	14000	-	13	-	15.2 JN	-	23.2 JN	-	65.3 J	-	17.9 JN
PCB-049/069	PCB-49/69	pg/L			-	184	-	227 J	-	287 J	-	1140 J	-	339 J
PCB-050/053	PCB-50/53	pg/L			-	167	-	215	-	243	-	737	-	251
PCB-051	68194-04-7	pg/L	64	14000	-	15.4 JN	-	61	-	64.5	-	258	-	48.8 JN
PCB-052	35693-99-3	pg/L	64	14000	-	288	-	361 J	-	435 J	-	1390 J	-	457 J
PCB-054	15968-05-5	pg/L	64	14000	-	12.3	-	15.5 JN	-	22 J	-	49.3 J	-	18.8 J
PCB-055	74338-24-2	pg/L	64	14000	-	< 4.37 U	-	< 6.08 U	-	< 5.41 U	-	< 6.4 U	-	< 7.18 U
PCB-056	41464-43-1	pg/L	64	14000	-	15.6 JN	-	11.7 J	-	29.2 J	-	112 J	-	29.7 J
PCB-057	70424-67-8	pg/L	64	14000	-	< 4.82 U	-	< 6.81 U	-	< 5.98 U	-	9.69 J	-	< 7.93 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 4.34 U	-	< 5.93 U	-	< 5.26 U	-	< 6.24 U	-	< 6.98 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	20.8 J	-	25.3 JN	-	39.4 J	-	108 J	-	35.3 J
PCB-060	33025-41-1	pg/L	64	14000	-	< 5.12 U	-	9.4 JN	-	14.5 J	-	49.1 J	-	< 8.57 UJ
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	100	-	115 J	-	178 J	-	549 J	-	157 J
PCB-063	74472-34-7	pg/L	64	14000	-	< 5.15 U	-	< 7.31 UJ	-	12.2 JN	-	48.3 J	-	11.3 JN
PCB-064	52663-58-8	pg/L	64	14000	-	54.8	-	81.2 J	-	109 J	-	327 J	-	116 J
PCB-066	32598-10-0	pg/L	64	14000	-	71.3	-	95.8 J	-	124 J	-	421 J	-	94.3 J
PCB-067	73575-53-8	pg/L	64	14000	-	< 4.12 U	-	< 5.75 U	-	< 5.1 U	-	15.1	-	< 6.76 U
PCB-068	73575-52-7	pg/L	64	14000	-	4.68 JN	-	< 6.89 UJ	-	< 6.04 UJ	-	31.5 J	-	< 8.01 UJ
PCB-072	41464-42-0	pg/L	64	14000	-	6.1 J	-	5.6 JN	-	8.97 JN	-	34.7 J	-	5.68 JN
PCB-073	74338-23-1	pg/L	64	14000	-	9.62 J	-	10.3 J	-	7.74 JN	-	42.5 J	-	10.1 J
PCB-077	32598-13-3	pg/L	64	14000	-	< 5.14 U	-	9.93 JN	-	13.6 J	-	50.6 JN	-	10.8 J
PCB-078	70362-49-1	pg/L	64	14000	-	< 4.74 U	-	< 6.67 U	-	< 5.85 U	-	< 7.02 U	-	< 7.76 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 4.14 U	-	< 5.56 U	-	< 4.89 U	-	< 5.85 U	-	< 6.49 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 4.49 U	-	< 6.19 U	-	< 5.46 U	-	< 6.51 U	-	< 7.25 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 4.53 U	-	< 6.17 U	-	< 5.47 U	-	< 6.49 U	-	< 7.25 U
PCB-082	52663-62-4	pg/L	64	14000	-	16.2 J	-	< 8.63 UJ	-	15.5 JN	-	66.2 JN	-	14.4 J
PCB-083	60145-20-2	pg/L	64	14000	-	13.1 JN	-	< 11.4 UJ	-	17.8 J	-	53.5 JN	-	9.06 JN
PCB-084	52663-60-2	pg/L	64	14000	-	68	-	58 J	-	75.1 J	-	214 J	-	71.3 J

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0047-PLW	23B-0047-PLW	23B-0048-PLW	23B-0048-PLW	23B-0049-PLW	23B-0049-PLW	23B-0050-PLW	23B-0050-PLW	23B-0051-PLW	23B-0051-PLW
					Sample Name	23B-0047-PLW-AS-F	23B-0047-PLW-AS-T	23B-0048-PLW-AS-F	23B-0048-PLW-AS-T	23B-0049-PLW-AS-F	23B-0049-PLW-AS-T	23B-0050-PLW-AS-F	23B-0050-PLW-AS-T	23B-0051-PLW-AS-F	23B-0051-PLW-AS-T
					Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.7 - 0.7 ft	0.7 - 0.7 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	0.65 - 0.65 ft	0.65 - 0.65 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	26	-	16.6 JN	-	36 J	-	119 J	-	17.3 JN
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	108 JN	-	85.9 J	-	123 J	-	415 J	-	99 J
PCB-088	55215-17-3	pg/L	64	14000	-	< 7.12 U	-	< 9.38 U	-	< 10.3 U	-	< 11.1 U	-	< 10.7 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 6.57 U	-	< 8.65 U	-	< 8.24 U	-	11.9	-	< 8.55 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	196	-	136 J	-	213 J	-	616 J	-	160 J
PCB-091	68194-05-8	pg/L	64	14000	-	38.1 JN	-	37.5 J	-	46.8 J	-	187 J	-	42.6 JN
PCB-092	52663-61-3	pg/L	64	14000	-	49.2 JN	-	40.1 JN	-	66.1 JN	-	203 J	-	57.8 J
PCB-093/100	PCB-93/100	pg/L			-	5.76 JN	-	< 9 U	-	< 8.97 U	-	34.3 JN	-	< 9.31 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 7.46 U	-	< 10 UJ	-	7.2 JN	-	22.1 JN	-	< 9.99 UJ
PCB-095	38379-99-6	pg/L	64	14000	-	194	-	150 J	-	210 J	-	595 J	-	189 J
PCB-096	73575-54-9	pg/L	64	14000	-	< 2.02 U	-	< 5.4 U	-	5.09 J	-	9.44 JN	-	< 3.17 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 5.59 U	-	< 8.04 U	-	< 8.26 U	-	7.37 JN	-	< 8.57 U
PCB-099	38380-01-7	pg/L	64	14000	-	73.6	-	54.9 JN	-	88 J	-	322 J	-	69 J
PCB-102	68194-06-9	pg/L	64	14000	-	5.35 JN	-	8.85 J	-	8.05 JN	-	39.6 J	-	10.7 JN
PCB-103	60145-21-3	pg/L	64	14000	-	< 6.36 U	-	< 8.76 UJ	-	< 8.32 UJ	-	17.9 J	-	< 8.64 UJ
PCB-104	56558-16-8	pg/L	64	14000	-	< 1.75 U	-	< 4.68 U	-	< 3.41 U	-	< 7.6 U	-	< 2.72 U
PCB-105	32598-14-4	pg/L	64	14000	-	29.4 J	-	24.1 J	-	40 J	-	136 J	-	17.5 JN
PCB-106	70424-69-0	pg/L	64	14000	-	< 4.38 U	-	< 6.08 U	-	< 5.91 U	-	< 7.17 U	-	< 6.14 U
PCB-107	70424-68-9	pg/L	64	14000	-	7.97 JN	-	8.63 JN	-	10.1 J	-	41.5 J	-	7.8 JN
PCB-108/124	PCB-108/124	pg/L			-	6.86 J	-	< 6.56 U	-	< 6.32 U	-	21.8	-	< 6.57 U
PCB-110	38380-03-9	pg/L	64	14000	-	234	-	145 J	-	221 J	-	747 J	-	175 J
PCB-111	39635-32-0	pg/L	64	14000	-	< 4.82 U	-	< 6.28 U	-	< 6.04 U	-	< 7.4 U	-	< 6.27 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 4.03 U	-	< 5.28 U	-	< 5.04 U	-	4.43 JN	-	< 5.24 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 4.36 U	-	< 6.04 U	-	< 5.2 U	-	< 6.87 U	-	< 5.12 U
PCB-115	74472-38-1	pg/L	64	14000	-	5.83 JN	-	< 5.37 U	-	< 5.32 U	-	< 6.33 U	-	< 5.52 U
PCB-117	68194-11-6	pg/L	64	14000	-	6.52 JN	-	8.73 JN	-	9.31 J	-	33.7 J	-	11 J
PCB-118	31508-00-6	pg/L	64	14000	-	99.3	-	67.5 J	-	110 J	-	391 J	-	72.9 J
PCB-120	68194-12-7	pg/L	64	14000	-	< 3.93 U	-	< 5.27 U	-	< 4.96 U	-	< 6.22 U	-	< 5.15 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 4.32 U	-	< 5.83 U	-	< 5.49 U	-	< 6.87 U	-	< 5.71 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 5.64 U	-	< 7.71 U	-	< 6.84 U	-	< 8.78 U	-	< 6.73 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 4.49 U	-	< 5.75 U	-	< 5.47 U	-	9.89 J	-	< 5.68 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 3.21 U	-	< 4.63 U	-	< 4.85 U	-	< 4.9 U	-	< 5.3 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 4.38 U	-	< 6.32 U	-	< 5.9 U	-	< 7.3 U	-	< 6.26 U
PCB-128/166	PCB-128/166	pg/L			-	29.4	-	14.5 J	-	27.4 J	-	91.4 JN	-	16.1 JN
PCB-129/138/163	PCB-129/138/163	pg/L			-	183	-	98.1 J	-	185 J	-	593 J	-	115 J
PCB-130	52663-66-8	pg/L	64	14000	-	15.5	-	< 4.93 UJ	-	12.8 JN	-	37 J	-	< 7.06 UJ
PCB-131	61798-70-7	pg/L	64	14000	-	< 3.25 U	-	< 4.36 U	-	< 3.66 U	-	6.61 JN	-	< 6.48 U
PCB-132	38380-05-1	pg/L	64	14000	-	63.6	-	33.1 J	-	65.1 J	-	190 J	-	41.2 J
PCB-133	35694-04-3	pg/L	64	14000	-	< 2.98 U	-	< 3.9 U	-	< 3.14 U	-	8.13 JN	-	< 5.57 U
PCB-134	52704-70-8	pg/L	64	14000	-	7.45 JN	-	< 5.75 UJ	-	14.6 J	-	50.1 J	-	7.09 JN
PCB-135/151	PCB-135/151	pg/L			-	48.3	-	21.9 JN	-	51.4 J	-	142 J	-	31 J
PCB-136	38411-22-2	pg/L	64	14000	-	16.2 JN	-	11.4 JN	-	19.5 JN	-	68.7 J	-	13.1 J
PCB-137	35694-06-5	pg/L	64	14000	-	< 3.26 U	-	4.89 JN	-	11.3 JN	-	20.5 JN	-	8.07 JN
PCB-139/140	PCB-139/140	pg/L			-	< 2.97 U	-	< 3.88 U	-	< 3.17 U	-	11.3 JN	-	< 5.62 U
PCB-141	52712-04-6	pg/L	64	14000	-	11.3 JN	-	7.84 JN	-	21.3 JN	-	78.3 J	-	14.2 JN
PCB-142	41411-61-4	pg/L	64	14000	-	< 3.31 U	-	< 4.48 U	-	< 3.57 U	-	< 5.22 U	-	< 6.33 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 3.17 U	-	< 3.77 U	-	< 3.11 U	-	< 4.39 U	-	< 5.51 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 3.12 U	-	< 4.11 UJ	-	6.55 JN	-	13.7 JN	-	< 5.93 UJ
PCB-145	74472-40-5	pg/L	64	14000	-	< 2.28 U	-	< 3.11 U	-	< 2.33 U	-	< 3.84 U	-	< 4.14 U
PCB-146	51908-16-8	pg/L	64	14000	-	12.2 JN	-	8.56 JN	-	17.9 J	-	62.4 J	-	13.9 J
PCB-147/149	PCB-147/149	pg/L			-	109	-	58.4 JN	-	126 J	-	362 J	-	68.7 JN
PCB-148	74472-41-6	pg/L	64	14000	-	< 3.07 U	-	< 4.02 U	-	< 3.27 U	-	< 4.69 U	-	< 5.8 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 2.36 U	-	< 3.21 U	-	< 2.46 U	-	< 3.97 U	-	< 4.37 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 2.23 U	-	< 2.92 U	-	< 2.18 U	-	< 3.61 U	-	< 3.88 U
PCB-153/168	PCB-153/168	pg/L			-	115	-	61.3 J	-	113 J	-	372 J	-	77.7 J
PCB-154	60145-22-4	pg/L	64	14000	-	< 2.73 U	-	< 3.75 U	-	< 3.04 U	-	10.5 JN	-	< 5.39 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0047-PLW	23B-0047-PLW	23B-0048-PLW	23B-0048-PLW	23B-0049-PLW	23B-0049-PLW	23B-0050-PLW	23B-0050-PLW	23B-0051-PLW	23B-0051-PLW
					Sample Name	23B-0047-PLW-AS-F	23B-0047-PLW-AS-T	23B-0048-PLW-AS-F	23B-0048-PLW-AS-T	23B-0049-PLW-AS-F	23B-0049-PLW-AS-T	23B-0050-PLW-AS-F	23B-0050-PLW-AS-T	23B-0051-PLW-AS-F	23B-0051-PLW-AS-T
					Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.7 - 0.7 ft	0.7 - 0.7 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	0.65 - 0.65 ft	0.65 - 0.65 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 2.04 U	-	< 2.69 U	-	< 2.02 U	-	< 3.32 U	-	< 3.58 U
PCB-156/157	PCB-156/157	pg/L			-	13.3 J	-	8.75 J	-	19.3 J	-	61 J	-	10 JN
PCB-158	74472-42-7	pg/L	64	14000	-	13.3 JN	-	5.79 JN	-	15.5 JN	-	61.1 J	-	9.51 J
PCB-159	39635-35-3	pg/L	64	14000	-	< 2.66 U	-	< 3.35 U	-	< 3.95 U	-	< 5.54 U	-	< 4.26 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 2.42 U	-	< 3.48 U	-	< 2.83 U	-	< 4.06 U	-	< 5.02 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 2.11 U	-	< 2.98 U	-	< 2.4 U	-	< 3.47 U	-	< 4.26 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 3.11 U	-	< 3.97 U	-	< 4.72 U	-	< 6.57 U	-	< 5.08 U
PCB-164	74472-45-0	pg/L	64	14000	-	6.16 JN	-	4.32 JN	-	11.5 J	-	39.9 JN	-	3.76 JN
PCB-165	74472-46-1	pg/L	64	14000	-	< 2.57 U	-	< 3.43 U	-	< 2.76 U	-	< 4 U	-	< 4.89 U
PCB-167	52663-72-6	pg/L	64	14000	-	5.65 J	-	4.16 JN	-	6.29 J	-	26.1 JN	-	< 4.79 UJ
PCB-169	32774-16-6	pg/L	4	14000	-	< 2.79 U	-	< 6.55 U	-	< 6.69 U	-	< 9.18 U	-	< 7.78 U
PCB-170	35065-30-6	pg/L	64	14000	-	16.4	-	13.6 J	-	25 J	-	85.2 J	-	9.63 JN
PCB-171/173	PCB-171/173	pg/L			-	< 8.07 U	-	< 11.6 U	-	9.81 J	-	23.2 JN	-	< 6.57 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 7.61 U	-	< 11.1 U	-	< 6.89 U	-	10 J	-	< 6.24 U
PCB-174	38411-25-5	pg/L	64	14000	-	13.6 JN	-	< 10.2 UJ	-	19.8 J	-	57.9 JN	-	8.36 JN
PCB-175	40186-70-7	pg/L	64	14000	-	< 7.85 U	-	< 11.2 U	-	< 7.05 U	-	< 9.17 U	-	< 6.39 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 3.08 U	-	< 4.36 U	-	< 5.5 U	-	9.86 JN	-	< 4.5 U
PCB-177	52663-70-4	pg/L	64	14000	-	< 7.23 U	-	< 10.6 UJ	-	< 6.51 UJ	-	37.6 JN	-	7.3 JN
PCB-178	52663-67-9	pg/L	64	14000	-	< 3.99 U	-	< 5.4 U	-	< 6.94 U	-	22.8	-	< 5.68 U
PCB-179	52663-64-6	pg/L	64	14000	-	4.63 JN	-	< 3.77 UJ	-	10.9 JN	-	32.7 J	-	< 3.93 UJ
PCB-180/193	PCB-180/193	pg/L			-	39.9 J	-	24.2 J	-	51.5 J	-	163 J	-	26.7 JN
PCB-181	74472-47-2	pg/L	64	14000	-	< 6.94 U	-	< 9.92 U	-	< 6.17 U	-	< 8.08 U	-	< 5.59 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 6.43 U	-	< 9.28 U	-	< 5.78 U	-	< 7.56 U	-	< 5.24 U
PCB-183	52663-69-1	pg/L	64	14000	-	9.76 JN	-	< 10.5 UJ	-	13.7 J	-	43.2 J	-	8.81 JN
PCB-184	74472-48-3	pg/L	64	14000	-	< 2.87 U	-	< 4.04 U	-	< 5.17 U	-	< 6.2 U	-	< 4.23 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 7.82 U	-	< 11.5 U	-	< 7.2 U	-	10.2 J	-	< 6.53 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 2.62 U	-	< 3.63 U	-	< 4.6 U	-	< 5.57 U	-	< 3.76 U
PCB-187	52663-68-0	pg/L	64	14000	-	17.8 JN	-	12.4 JN	-	25.4 JN	-	74.7 JN	-	16.4 J
PCB-188	74487-85-7	pg/L	64	14000	-	< 2.89 U	-	< 3.55 U	-	< 4.69 U	-	< 5.45 U	-	< 3.84 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 2.28 U	-	< 3.95 U	-	2.31 JN	-	< 5.68 U	-	< 5.24 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 5.88 U	-	< 8.95 U	-	3.66 JN	-	15.6 JN	-	< 5.31 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 5.87 U	-	< 8.92 U	-	< 5.57 U	-	< 7.27 U	-	< 5.05 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 5.22 U	-	< 7.81 U	-	< 4.88 U	-	< 6.36 U	-	< 4.42 U
PCB-194	35694-08-7	pg/L	64	14000	-	4.92 JN	-	< 1.49 UJ	-	7.98 JN	-	38.2 J	-	5.14 JN
PCB-195	52663-78-2	pg/L	64	14000	-	< 3.48 U	-	< 1.58 U	-	4.34 J	-	13.1	-	< 2.4 U
PCB-196	42740-50-1	pg/L	64	14000	-	1.89 JN	-	< 1.98 UJ	-	4.42 JN	-	22.8 JN	-	< 2.76 UJ
PCB-197	33091-17-7	pg/L	64	14000	-	< 1.39 U	-	< 1.5 U	-	< 2.31 U	-	< 2.58 U	-	< 2.11 U
PCB-198/199	PCB-198/199	pg/L			-	5.21 JN	-	4.37 JN	-	14.5 J	-	38.7	-	4.45 JN
PCB-200	52663-73-7	pg/L	64	14000	-	< 1.44 U	-	< 1.59 U	-	< 2.4 U	-	4.6 JN	-	< 2.2 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 1.54 U	-	< 1.63 U	-	< 2.47 U	-	5.21 JN	-	< 2.26 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 1.22 U	-	1.52 JN	-	2.04 JN	-	9.35 J	-	< 1.81 U
PCB-203	52663-76-0	pg/L	64	14000	-	2.41 JN	-	< 1.61 UJ	-	6.99 JN	-	24.9 J	-	2.87 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 1.34 U	-	< 1.42 U	-	< 2.17 U	-	< 2.44 U	-	< 1.99 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 2.77 U	-	< 1.28 U	-	< 3.22 U	-	< 4.95 U	-	< 1.93 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 20 UJ	-	< 19.8 UJ	-	< 19.8 UJ	-	36 J	-	< 20 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 4.4 U	-	< 7.26 U	-	< 5.44 U	-	< 6.62 U	-	< 6.7 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 3.8 U	-	< 6.28 U	-	< 4.64 U	-	11.2	-	< 5.72 U
PCB-209	2051-24-3	pg/L	64	14000	-	4.46 JN	-	4.73 JN	-	10.4 J	-	31.1 JN	-	4.94 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	4.46	-	4.73	-	10.4	-	31.1	-	4.94
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	102	-	50.2	-	162	-	586	-	77.2
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	649	-	343	-	724	-	2310	-	429
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	14.4	-	5.89	-	40.3	-	157	-	12.5
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	4770	-	5410	-	8520	-	27700	-	9800
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	1180	-	842	-	1300	-	4320	-	1020
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	484	-	787	-	1650	-	4360	-	2750
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	5.16	-	34.4	-	86.0	-	380	-	31.0
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 20 U	-	< 19.8 U	-	< 19.8 U	-	47.2	-	< 20 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1390	-	1840	-	2360	-	8080	-	2440
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	938	-	1500	-	2190	-	7410	-	3030

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0047-PLW	23B-0047-PLW	23B-0048-PLW	23B-0048-PLW	23B-0049-PLW	23B-0049-PLW	23B-0050-PLW	23B-0050-PLW	23B-0051-PLW	23B-0051-PLW
					Sample Name	23B-0047-PLW-AS-F	23B-0047-PLW-AS-T	23B-0048-PLW-AS-F	23B-0048-PLW-AS-T	23B-0049-PLW-AS-F	23B-0049-PLW-AS-T	23B-0050-PLW-AS-F	23B-0050-PLW-AS-T	23B-0051-PLW-AS-F	23B-0051-PLW-AS-T
					Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.7 - 0.7 ft	0.7 - 0.7 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	0.65 - 0.65 ft	0.65 - 0.65 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	34 J+	67	25	44	27	72	31	92	25	54
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	0.17 J	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150	0.44 J	0.48 J	0.41 J	0.54 J	0.39 J	0.86 J	0.48 J	0.62 J	0.41 J	0.55 J
Barium	7440-39-3	ug/L	380	220	33	36	41	43	41	44	41	44	40	43
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	14000	14000	16000	17000	16000	17000	16000	17000	16000	17000
Chromium, Total	7440-47-3	ug/L	100	44	0.79 J	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.19 J	0.26 J	0.39 J	0.25 J	0.22 J	0.33 J	0.25 J	0.37 J	0.34 J	0.26 J
Copper	7440-50-8	ug/L	80	5	2.0	1.9 J	1.4 J	2.5	1.3 J	2.5	1.6 J	2.4	1.3 J	1.9 J
Iron	7439-89-6	ug/L	1400	1000	540	980	650	1300	1100	1500	1100	1600	900	1400
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	1.7	< 1.0 U	1.6	< 1.0 U	2.4	1.1	4.2	< 1.0 U	1.8
Magnesium	7439-95-4	ug/L		82000	3600	3500	4000	4100	4100	4200	4100	4300	4000	4200
Manganese	7439-96-5	ug/L	43	93	86	130	140	140	140	160	160	190	130	160
Nickel	7440-02-0	ug/L	39	27	0.92 J	1.0 J+	1.2 J+	0.82 J	1.1 J+	1.1	< 1.0 U	0.98 J	1.1 J+	0.84 J
Potassium	7440-09-7	ug/L		53000	3000	2800	2800	2900	2800	3000	2800	2900	2700	2900
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	62000	56000	70000	70000	72000	72000	71000	72000	69000	71000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.53 J	0.77 J	0.58 J	0.73 J	0.61 J	0.88 J	0.66 J	1.1 J	0.60 J	0.77 J
Zinc	7440-66-6	ug/L	600	11.8	6.8 J+	7.1 J+	9.0	6.1 J+	< 5.0 U	9.6 J+	8.8	11 J+	8.1 J+	7.6 J+
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 R	< 0.20 UJ	< 0.20 R	< 0.20 UJ	< 0.20 R	< 0.20 UJ	< 0.20 R	< 0.20 UJ
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	6.6 J	-	4.4 J	-	< 10 U	-	6.1 J	-	7.0 J
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 R	-	< 10 R	-	< 10 R	-	< 10 R	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	0.42 J	-	0.88	-	0.28 J	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	0.22 J	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	0.50 J	-	0.14 J	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0047-PLW	23B-0047-PLW	23B-0048-PLW	23B-0048-PLW	23B-0049-PLW	23B-0049-PLW	23B-0050-PLW	23B-0050-PLW	23B-0051-PLW	23B-0051-PLW
					Sample Name	23B-0047-PLW-AS-F	23B-0047-PLW-AS-T	23B-0048-PLW-AS-F	23B-0048-PLW-AS-T	23B-0049-PLW-AS-F	23B-0049-PLW-AS-T	23B-0050-PLW-AS-F	23B-0050-PLW-AS-T	23B-0051-PLW-AS-F	23B-0051-PLW-AS-T
					Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.7 - 0.7 ft	0.7 - 0.7 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	0.65 - 0.65 ft	0.65 - 0.65 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	0.67 J+	-	0.69 J+	-	< 0.50 U	-	< 0.50 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.11 J	-	< 0.50 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	0.21 J	-	< 0.50 U	-	< 0.50 U
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	0.27 J	-	0.74	-	0.22 J	-	< 0.50 U
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	0.90	-	2.4	-	0.69	-	< 0.50 U
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	0.37 J	-	1.0	-	0.25 J	-	< 0.50 U
Styrene	100-42-5	ug/L	100	32	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	0.73 J	-	3.5 J	-	0.95 J	-	< 0.50 U
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.1 U	-	< 5.1 U	-	< 5.1 UJ	-	< 5.0 U	-	< 5.1 U
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.1 U	-	< 5.1 U	-	< 5.1 UJ	-	< 5.0 UJ	-	< 5.1 UJ
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 U
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
Acetophenone	98-86-2	ug/L	190		-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0047-PLW	23B-0047-PLW	23B-0048-PLW	23B-0048-PLW	23B-0049-PLW	23B-0049-PLW	23B-0050-PLW	23B-0050-PLW	23B-0051-PLW	23B-0051-PLW
					Sample Name	23B-0047-PLW-AS-F	23B-0047-PLW-AS-T	23B-0048-PLW-AS-F	23B-0048-PLW-AS-T	23B-0049-PLW-AS-F	23B-0049-PLW-AS-T	23B-0050-PLW-AS-F	23B-0050-PLW-AS-T	23B-0051-PLW-AS-F	23B-0051-PLW-AS-T
					Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.7 - 0.7 ft	0.7 - 0.7 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	0.65 - 0.65 ft	0.65 - 0.65 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.1 UJ	-	< 5.1 UJ	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
FLUORENE	86-73-7	ug/L	29	19	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.1 UJ	-	< 5.1 UJ	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.1 UJ	-	< 5.1 UJ	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.1 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	2.6	-	2.8	-	3.1	-	2.9	-	2.7	
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	4.0	-	4.4	-	4.7	-	5.3 J-	-	3.5 J-	
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.32 J	-	< 1.8 U	-	0.33 J	-	0.29 J	-	< 1.9 U	
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	1.9	-	1.9	-	2.1	-	2.0	-	2.0	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.0	-	2.4	-	2.8	-	2.4	-	2.3	
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.7	-	3.9	-	4.4	-	3.7	-	3.8	
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.79 J	-	0.77 J	-	0.76 J	-	0.79 J	-	0.75 J	
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	5.1	-	5.4	-	5.3	-	7.2 J	-	5.6	
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.0	-	5.3	-	5.7	-	5.6	-	5.3	
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.29 J	-	0.32 J	-	0.36 J	-	0.48 J	-	0.30 J	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	3.7	-	3.7	-	4.4	-	4.5	-	3.7	
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0047-PLW	23B-0047-PLW	23B-0048-PLW	23B-0048-PLW	23B-0049-PLW	23B-0049-PLW	23B-0050-PLW	23B-0050-PLW	23B-0051-PLW	23B-0051-PLW
				Sample Name	23B-0047-PLW-AS-F	23B-0047-PLW-AS-T	23B-0048-PLW-AS-F	23B-0048-PLW-AS-T	23B-0049-PLW-AS-F	23B-0049-PLW-AS-T	23B-0050-PLW-AS-F	23B-0050-PLW-AS-T	23B-0051-PLW-AS-F	23B-0051-PLW-AS-T
				Sample Date	10/23/2023	10/23/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023	10/20/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.7 - 0.7 ft	0.7 - 0.7 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	1 - 1 ft	0.65 - 0.65 ft	0.65 - 0.65 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U	-	< 1.9 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.62	-	8.78	-	8.43	-	8.4	-	8.35
Oxidation-Reduction Potential	ORP	mv			-	124.5	-	93.5	-	106.9	-	159.4	-	215.7
pH	PH	su			-	6.75	-	6.99	-	6.92	-	6.86	-	6.64
Specific Conductance	SC	us/cm			-	406.3	-	500	-	502	-	493.8	-	493.4
Temperature	TEMP	deg c			-	12.5	-	13.8	-	13.5	-	13.2	-	13
Turbidity	TURB	NTU			-	1.2	-	5.72	-	2.11	-	1.88	-	2.08

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0052-PLW	23B-0052-PLW	23B-0053-PLW	23B-0053-PLW	23B-0054-PLW	23B-0054-PLW	23B-0055-PLW	23B-0055-PLW	23B-0056-PLW	23B-0056-PLW
					Sample Name	23B-0052-PLW-AS-F	23B-0052-PLW-AS-T	23B-0053-PLW-AS-F	23B-0053-PLW-AS-T	23B-0054-PLW-AS-F	23B-0054-PLW-AS-T	23B-0055-PLW-AS-F	23B-0055-PLW-AS-T	23B-0056-PLW-AS-F	23B-0056-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.35 - 2.35 ft	2.35 - 2.35 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	0.55 - 0.55 ft	0.55 - 0.55 ft	1.55 - 1.55 ft	1.55 - 1.55 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.51 U	-	< 0.51 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.051 U	-	< 0.051 U	-	< 0.050 U	-	< 0.050 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.62 U	-	< 1.57 U	-	4.91 JN	-	4.29 J	-	2.92 J
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.12 U	-	< 1.21 U	-	< 0.942 U	-	< 0.97 U	-	< 1.11 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.55 U	-	< 1.57 U	-	< 1.46 U	-	< 1.38 U	-	< 0.898 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.34 U	-	< 1.03 U	-	< 0.947 U	-	< 0.832 U	-	< 0.998 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.71 U	-	< 1.64 U	-	< 1.59 U	-	< 1.14 U	-	< 0.986 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.35 U	-	< 1.02 U	-	< 0.953 U	-	< 0.753 U	-	< 0.991 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.58 U	-	< 1.53 U	-	< 1.65 U	-	< 1.16 U	-	< 0.869 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.78 U	-	< 1.19 U	-	< 1.11 U	-	< 0.91 U	-	< 1.25 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.79 U	-	< 1.43 U	-	< 1.54 UJ	-	< 2.05 U	-	< 1.41 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.25 U	-	< 1.15 U	-	< 1.06 U	-	< 1.2 U	-	< 1.06 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 0.896 U	-	< 1.08 U	-	3.68 JN	-	< 0.897 U	-	< 0.792 U
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.38 U	-	< 1.07 U	-	< 0.991 U	-	< 0.779 U	-	< 1.08 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.13 U	-	< 1.05 U	-	< 1.01 U	-	< 1.47 U	-	< 1 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.83 UJ	-	< 9.89 UJ	-	< 9.52 UJ	-	< 9.73 UJ	-	< 9.51 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 1.24 U	-	< 1.31 U	-	< 1.83 UJ	-	< 1.07 U	-	< 0.928 U
OCDD	3268-87-9	pg/L	400	31	-	6.83 JN	-	5.24 JN	-	37.7 J	-	20.1 JN	-	10.6 J
OCDF	39001-02-0	pg/L	400	31	-	< 2.58 U	-	< 1.33 U	-	5.11 J	-	3.77 J	-	< 2.1 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.62 U	-	< 1.57 U	-	4.91	-	4.29 U	-	2.92
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 1.12 U	-	< 1.21 U	-	3.68	-	< 0.97 U	-	< 1.11 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 1.71 U	-	< 1.64 U	-	< 1.65 U	-	< 1.38 U	-	< 0.986 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.78 U	-	< 1.19 U	-	< 1.11 U	-	< 0.91 U	-	< 1.25 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.79 U	-	< 1.43 U	-	< 1.54 U	-	< 2.05 U	-	< 1.41 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.25 U	-	< 1.15 U	-	< 1.06 U	-	< 1.47 U	-	< 1.06 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.83 U	-	< 9.89 U	-	< 9.52 U	-	< 9.73 U	-	< 9.51 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 1.24 U	-	< 1.31 U	-	< 1.83 U	-	< 1.07 U	-	< 0.928 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	19.1 JN	-	19 J	-	65.6 J	-	65 J	-	37 J
PCB-002	2051-61-8	pg/L	64	14000	-	< 3.68 U	-	< 3.45 U	-	< 3.29 U	-	< 4.41 U	-	< 3.52 U
PCB-003	2051-62-9	pg/L	64	14000	-	18.2 JN	-	< 3.54 UJ	-	21.6 JN	-	36.8 JN	-	13.4 JN
PCB-004	13029-08-8	pg/L	64	14000	-	1640 J	-	1760 J	-	1220 J	-	399 J	-	2110 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 10.6 U	-	< 5.98 U	-	< 8.23 U	-	< 9.31 U	-	< 5.38 U
PCB-006	25569-80-6	pg/L	64	14000	-	8.74 JN	-	8.85 JN	-	23 JN	-	33.7 JN	-	14 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 10.2 U	-	< 5.72 U	-	4.78 JN	-	< 8.9 U	-	< 5.21 U
PCB-008	34883-43-7	pg/L	64	14000	-	31.4 JN	-	37.7 JN	-	91.2 JN	-	168 J	-	65.6 JN
PCB-009	34883-39-1	pg/L	64	14000	-	< 9.16 U	-	< 5.18 U	-	< 7.03 U	-	< 8.06 U	-	< 4.67 U
PCB-010	33146-45-1	pg/L	64	14000	-	278	-	314 JN	-	382	-	490	-	424

Table 17
Surface Water Analytical Results
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					Location	23B-0052-PLW	23B-0052-PLW	23B-0053-PLW	23B-0053-PLW	23B-0054-PLW	23B-0054-PLW	23B-0055-PLW	23B-0055-PLW	23B-0056-PLW	23B-0056-PLW
					Sample Name	23B-0052-PLW-AS-F	23B-0052-PLW-AS-T	23B-0053-PLW-AS-F	23B-0053-PLW-AS-T	23B-0054-PLW-AS-F	23B-0054-PLW-AS-T	23B-0055-PLW-AS-F	23B-0055-PLW-AS-T	23B-0056-PLW-AS-F	23B-0056-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.35 - 2.35 ft	2.35 - 2.35 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	0.55 - 0.55 ft	0.55 - 0.55 ft	1.55 - 1.55 ft	1.55 - 1.55 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	78.3 JN	-	178 J	-	156 J	-	156 J	-	84.4 J+
PCB-012/013	PCB-12/13	pg/L			-	9.42 JN	-	< 5.62 UJ	-	21.6 JN	-	36.9 JN	-	14.3 JN
PCB-014	34883-41-5	pg/L	64	14000	-	< 9.96 U	-	< 5.71 U	-	< 7.74 U	-	< 8.89 U	-	< 5.08 U
PCB-015	2050-68-2	pg/L	64	14000	-	266 J	-	277 J	-	422 J	-	870 J	-	331 J
PCB-016	38444-78-9	pg/L	64	14000	-	40.6 JN	-	51.4	-	34.9 JN	-	35.5	-	45.1
PCB-017	37680-66-3	pg/L	64	14000	-	325	-	308 J	-	358 J	-	328 J	-	381
PCB-018/030	PCB-18/30	pg/L			-	221	-	216 J	-	253 J	-	148 J	-	250
PCB-019	38444-73-4	pg/L	64	14000	-	584 J	-	596 J	-	741 J	-	1300 J	-	719 J
PCB-020/028	PCB-20/28	pg/L			-	166	-	170 J	-	308 J	-	339 J	-	221
PCB-021/033	PCB-21/33	pg/L			-	< 16.5 U	-	23.4 J	-	25.1 J	-	23.6 J	-	13.9 JN
PCB-022	38444-85-8	pg/L	64	14000	-	< 15.1 UJ	-	< 12.3 UJ	-	25.7 J	-	34.5 J	-	< 12.3 UJ
PCB-023	55720-44-0	pg/L	64	14000	-	< 17.7 U	-	< 14.3 U	-	< 10.1 U	-	< 14 U	-	< 14.3 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 11.4 U	-	< 9.84 U	-	< 7.98 U	-	< 11.2 U	-	< 10.4 U
PCB-025	55712-37-3	pg/L	64	14000	-	62.1 JN	-	74.4 J	-	95.8 J	-	93.3 J	-	101
PCB-026/029	PCB-26/29	pg/L			-	173	-	168 J	-	220 J	-	161 J	-	221
PCB-027	38444-76-7	pg/L	64	14000	-	258	-	250 J	-	395 J	-	678 J	-	331
PCB-031	16606-02-3	pg/L	64	14000	-	160	-	167 J	-	205 J	-	186 J	-	213
PCB-032	38444-77-8	pg/L	64	14000	-	273	-	264 J	-	391 J	-	912 J	-	326
PCB-034	37680-68-5	pg/L	64	14000	-	< 17.8 U	-	< 14.6 U	-	< 10.4 U	-	< 14.3 U	-	< 14.4 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 15.9 U	-	< 13.1 U	-	< 9.33 U	-	< 12.8 U	-	< 12.9 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 14.2 U	-	< 11.6 U	-	< 8.24 U	-	< 11.3 U	-	< 11.5 U
PCB-037	38444-90-5	pg/L	64	14000	-	23.4 JN	-	20.4 JN	-	52.2 J	-	75.2 J	-	29.4
PCB-038	53555-66-1	pg/L	64	14000	-	< 15.6 U	-	< 12.6 U	-	< 8.93 U	-	< 12.3 U	-	< 12.7 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 15.8 U	-	< 12.7 U	-	< 9.04 U	-	< 12.4 U	-	< 12.8 U
PCB-040/071	PCB-40/71	pg/L			-	88.4	-	90.7 J	-	168 J	-	393 J	-	101
PCB-041	52663-59-9	pg/L	64	14000	-	6.84 J	-	8.82 J	-	10.3 JN	-	9.9 JN	-	< 7.35 U
PCB-042	36559-22-5	pg/L	64	14000	-	61.4	-	66.2 J	-	123 J	-	262 J	-	72.8
PCB-043	70362-46-8	pg/L	64	14000	-	8.29 JN	-	11.5 JN	-	15.8 JN	-	40.3	-	15.7
PCB-044/047/065	PCB-44/47/65	pg/L			-	317	-	340 J	-	620 J	-	1280 J	-	381
PCB-045	70362-45-7	pg/L	64	14000	-	29.3 JN	-	24.7 JN	-	48.5	-	186	-	46.8
PCB-046	41464-47-5	pg/L	64	14000	-	29.6 JN	-	38 J	-	44.5 J	-	72.1 J	-	30.1
PCB-048	70362-47-9	pg/L	64	14000	-	13.4 JN	-	21.8 J	-	38.6 J	-	36.4 J	-	20.7 JN
PCB-049/069	PCB-49/69	pg/L			-	232	-	233 J	-	428 J	-	787 J	-	271
PCB-050/053	PCB-50/53	pg/L			-	199	-	207	-	260	-	490	-	223
PCB-051	68194-04-7	pg/L	64	14000	-	50.3	-	52.1 JN	-	76.8	-	168	-	48.2
PCB-052	35693-99-3	pg/L	64	14000	-	336	-	340 J	-	526 J	-	1030 J	-	367
PCB-054	15968-05-5	pg/L	64	14000	-	15.5 JN	-	14.9 JN	-	24.3 JN	-	32 J	-	20.3
PCB-055	74338-24-2	pg/L	64	14000	-	< 6.89 U	-	< 6.27 U	-	< 4.8 U	-	< 6.09 U	-	< 5.22 U
PCB-056	41464-43-1	pg/L	64	14000	-	19.8	-	20.4 J	-	62.1 J	-	35.3 J	-	27.2
PCB-057	70424-67-8	pg/L	64	14000	-	< 7.58 U	-	< 6.93 U	-	< 5.31 U	-	< 6.72 U	-	< 5.74 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 6.65 U	-	< 6.1 U	-	< 4.62 U	-	< 5.92 U	-	< 5.04 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	20.5 JN	-	25.1 J	-	49.7 J	-	120 J	-	29
PCB-060	33025-41-1	pg/L	64	14000	-	< 8.27 U	-	< 7.49 UJ	-	25.4 J	-	22 J	-	10.9
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	118	-	129 J	-	354 J	-	278 J	-	163
PCB-063	74472-34-7	pg/L	64	14000	-	8.2 JN	-	7.88 JN	-	22.8 J	-	33.8 J	-	10.2
PCB-064	52663-58-8	pg/L	64	14000	-	71.5	-	69.7 J	-	145 J	-	398 J	-	89.3
PCB-066	32598-10-0	pg/L	64	14000	-	77.6	-	79.4 J	-	253 J	-	206 J	-	105
PCB-067	73575-53-8	pg/L	64	14000	-	< 6.59 U	-	< 5.91 U	-	6.18 JN	-	9.5 JN	-	< 4.99 U
PCB-068	73575-52-7	pg/L	64	14000	-	< 7.62 U	-	5.69 JN	-	12.3 J	-	23.4 J	-	8.16 J
PCB-072	41464-42-0	pg/L	64	14000	-	5.01 JN	-	7.08 JN	-	16.4 J	-	29.7 J	-	5.99 JN
PCB-073	74338-23-1	pg/L	64	14000	-	7.56 JN	-	6.87 JN	-	12.5 JN	-	25 J	-	9.79 J
PCB-077	32598-13-3	pg/L	64	14000	-	< 7.28 U	-	< 6.01 UJ	-	29.9 J	-	25.9 JN	-	8.55 JN
PCB-078	70362-49-1	pg/L	64	14000	-	< 7.46 U	-	< 6.78 U	-	< 5.08 U	-	< 6.58 U	-	< 5.65 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 6.25 U	-	< 5.67 U	-	< 4.33 U	-	< 5.5 U	-	< 4.74 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 7.06 U	-	< 6.33 U	-	< 4.83 U	-	< 6.14 U	-	< 5.35 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 7.04 U	-	< 6.34 U	-	< 5 U	-	< 6.15 U	-	< 5.33 U
PCB-082	52663-62-4	pg/L	64	14000	-	< 7.94 UJ	-	11.5 JN	-	41.5 J	-	36 J	-	9.63 JN
PCB-083	60145-20-2	pg/L	64	14000	-	8.64 JN	-	12.5 JN	-	18.1 JN	-	25.8 JN	-	16.8 JN
PCB-084	52663-60-2	pg/L	64	14000	-	50.6	-	55.9 J	-	115 J	-	144 J	-	51.6

Table 17
Surface Water Analytical Results
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					Location	23B-0052-PLW	23B-0052-PLW	23B-0053-PLW	23B-0053-PLW	23B-0054-PLW	23B-0054-PLW	23B-0055-PLW	23B-0055-PLW	23B-0056-PLW	23B-0056-PLW
					Sample Name	23B-0052-PLW-AS-F	23B-0052-PLW-AS-T	23B-0053-PLW-AS-F	23B-0053-PLW-AS-T	23B-0054-PLW-AS-F	23B-0054-PLW-AS-T	23B-0055-PLW-AS-F	23B-0055-PLW-AS-T	23B-0056-PLW-AS-F	23B-0056-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.35 - 2.35 ft	2.35 - 2.35 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	0.55 - 0.55 ft	0.55 - 0.55 ft	1.55 - 1.55 ft	1.55 - 1.55 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	15.2 JN	-	19.7 JN	-	50.9 J	-	64.4 J	-	20.2 JN
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	71.1	-	81.3 J	-	224 J	-	197 J	-	89.8
PCB-088	55215-17-3	pg/L	64	14000	-	< 9.2 U	-	< 9.03 U	-	< 10 U	-	< 10.1 U	-	< 9.9 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 7.94 U	-	< 7.21 U	-	< 7.95 U	-	< 8.06 U	-	< 8.54 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	135	-	144 J	-	344 J	-	301 J	-	160
PCB-091	68194-05-8	pg/L	64	14000	-	34.6	-	30.7 J	-	78.8 J	-	124 J	-	38.3 JN
PCB-092	52663-61-3	pg/L	64	14000	-	43.2	-	36.9 JN	-	103 J	-	132 J	-	52.2
PCB-093/100	PCB-93/100	pg/L			-	< 8.51 U	-	< 7.85 U	-	13.2 JN	-	21.9	-	< 9.16 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 9.15 U	-	< 8.42 UJ	-	9.81 JN	-	13.1 JN	-	< 9.85 U
PCB-095	38379-99-6	pg/L	64	14000	-	137	-	142 J	-	300 J	-	392 J	-	165
PCB-096	73575-54-9	pg/L	64	14000	-	< 4.53 U	-	3.79 JN	-	5.55 JN	-	9.62 J	-	< 4.25 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 7.12 U	-	< 7.23 U	-	< 7.89 U	-	< 8.07 U	-	< 7.67 U
PCB-099	38380-01-7	pg/L	64	14000	-	48.9	-	43.5 J	-	165 J	-	146 J	-	59.3
PCB-102	68194-06-9	pg/L	64	14000	-	< 7.32 U	-	< 5.73 UJ	-	19.5 J	-	28 JN	-	8.75 JN
PCB-103	60145-21-3	pg/L	64	14000	-	< 8.09 U	-	< 7.28 UJ	-	9.79 J	-	< 8.14 UJ	-	< 8.71 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 3.87 U	-	< 2.19 U	-	< 2.92 U	-	< 2.87 U	-	< 3.63 U
PCB-105	32598-14-4	pg/L	64	14000	-	14 JN	-	16.7 J	-	76.1 J	-	58 J	-	27.8
PCB-106	70424-69-0	pg/L	64	14000	-	< 5.43 U	-	< 5.18 U	-	< 5.27 U	-	< 5.79 U	-	< 5.84 U
PCB-107	70424-68-9	pg/L	64	14000	-	< 5.13 U	-	< 4.8 UJ	-	19.6 J	-	11.4 JN	-	7.28 J
PCB-108/124	PCB-108/124	pg/L			-	< 5.95 U	-	4.5 JN	-	10.4 JN	-	7.89 JN	-	< 6.41 U
PCB-110	38380-03-9	pg/L	64	14000	-	147	-	133 J	-	359 J	-	397 J	-	176
PCB-111	39635-32-0	pg/L	64	14000	-	< 5.81 U	-	< 5.28 U	-	< 5.81 U	-	< 5.9 U	-	< 6.25 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 5.07 U	-	< 4.42 U	-	< 4.9 U	-	< 4.93 U	-	< 5.46 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 5.77 U	-	< 5.31 U	-	< 6.1 U	-	< 5.36 U	-	< 5.98 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 4.62 U	-	< 4.65 U	-	< 5.18 U	-	20.8	-	< 4.97 U
PCB-117	68194-11-6	pg/L	64	14000	-	3.98 JN	-	< 5.35 UJ	-	20.2 JN	-	19 JN	-	< 6.91 U
PCB-118	31508-00-6	pg/L	64	14000	-	66.3	-	60.7 J	-	209 J	-	168 J	-	77.2
PCB-120	68194-12-7	pg/L	64	14000	-	< 4.82 U	-	< 4.34 U	-	< 4.81 U	-	< 4.85 U	-	< 5.19 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 5.4 U	-	< 4.81 U	-	< 5.37 U	-	< 5.37 U	-	< 5.81 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 7.44 U	-	< 6.99 U	-	< 7.9 U	-	< 7.06 U	-	< 7.7 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 5.36 U	-	< 4.79 U	-	5.71 J	-	< 5.35 U	-	< 5.77 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 5.45 U	-	< 3.55 U	-	< 5.2 U	-	< 4.64 U	-	< 4.9 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 5.99 U	-	< 5.43 U	-	< 5.49 U	-	< 5.85 U	-	< 5.67 U
PCB-128/166	PCB-128/166	pg/L			-	18.4 J	-	13.2 J	-	53.3 J	-	36.4 J	-	18.6 J
PCB-129/138/163	PCB-129/138/163	pg/L			-	111	-	78.8 J	-	295 J	-	230 J	-	130
PCB-130	52663-66-8	pg/L	64	14000	-	5.82 JN	-	< 4.35 UJ	-	21.5 JN	-	16.1 J	-	8.82 JN
PCB-131	61798-70-7	pg/L	64	14000	-	< 4.85 U	-	< 4 U	-	< 3.34 U	-	< 3.13 U	-	< 5.01 U
PCB-132	38380-05-1	pg/L	64	14000	-	37.9	-	27.1 JN	-	93.6 J	-	81.9 J	-	35.8 JN
PCB-133	35694-04-3	pg/L	64	14000	-	< 4.25 U	-	< 3.44 U	-	< 2.93 U	-	< 2.69 U	-	< 4.39 U
PCB-134	52704-70-8	pg/L	64	14000	-	< 5.61 U	-	< 4.96 UJ	-	14.8 JN	-	23.1 J	-	< 5.79 U
PCB-135/151	PCB-135/151	pg/L			-	23.2 JN	-	22.1 J	-	82.5 J	-	63.2 J	-	32.6 JN
PCB-136	38411-22-2	pg/L	64	14000	-	12.8 JN	-	10.6 JN	-	36.1 J	-	25.7 JN	-	18.6
PCB-137	35694-06-5	pg/L	64	14000	-	6.36 J	-	< 4.11 UJ	-	18.6 JN	-	16.9 J	-	< 4.96 U
PCB-139/140	PCB-139/140	pg/L			-	< 4.23 U	-	< 3.47 U	-	6.18 J	-	< 2.71 U	-	< 4.37 U
PCB-141	52712-04-6	pg/L	64	14000	-	15	-	14.2 JN	-	37.8 J	-	23.6 JN	-	20.1
PCB-142	41411-61-4	pg/L	64	14000	-	< 4.84 U	-	< 3.9 U	-	< 3.28 U	-	< 3.05 U	-	< 5 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 4.42 U	-	< 3.4 U	-	< 2.85 U	-	< 2.66 U	-	< 4.56 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 4.43 U	-	< 3.66 UJ	-	9.81 JN	-	7.01 JN	-	< 4.57 U
PCB-145	74472-40-5	pg/L	64	14000	-	< 3.41 U	-	< 2.88 U	-	< 2.1 U	-	< 2.34 U	-	< 3.18 U
PCB-146	51908-16-8	pg/L	64	14000	-	7.86 JN	-	7.33 JN	-	35.3 J	-	26.7 J	-	13.8 JN
PCB-147/149	PCB-147/149	pg/L			-	60.2	-	52.5 J	-	184 J	-	150 J	-	74.5
PCB-148	74472-41-6	pg/L	64	14000	-	< 4.37 U	-	< 3.57 U	-	< 2.97 U	-	< 2.8 U	-	< 4.51 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 3.56 U	-	< 3.04 U	-	< 2.2 U	-	< 2.46 U	-	< 3.32 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 3.29 U	-	< 2.7 U	-	< 1.98 U	-	< 2.19 U	-	< 3.07 U
PCB-153/168	PCB-153/168	pg/L			-	69 JN	-	61.2 J	-	196 J	-	137 J	-	79
PCB-154	60145-22-4	pg/L	64	14000	-	< 4.06 U	-	< 3.33 U	-	4.65 J	-	< 2.6 U	-	< 4.19 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0052-PLW	23B-0052-PLW	23B-0053-PLW	23B-0053-PLW	23B-0054-PLW	23B-0054-PLW	23B-0055-PLW	23B-0055-PLW	23B-0056-PLW	23B-0056-PLW
					Sample Name	23B-0052-PLW-AS-F	23B-0052-PLW-AS-T	23B-0053-PLW-AS-F	23B-0053-PLW-AS-T	23B-0054-PLW-AS-F	23B-0054-PLW-AS-T	23B-0055-PLW-AS-F	23B-0055-PLW-AS-T	23B-0056-PLW-AS-F	23B-0056-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.35 - 2.35 ft	2.35 - 2.35 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	0.55 - 0.55 ft	0.55 - 0.55 ft	1.55 - 1.55 ft	1.55 - 1.55 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 3.02 U	-	< 2.49 U	-	< 1.86 U	-	< 2.02 U	-	< 2.81 U
PCB-156/157	PCB-156/157	pg/L			-	11.1 J	-	7.12 J	-	26.1 JN	-	22.1 J	-	11.1 J
PCB-158	74472-42-7	pg/L	64	14000	-	8.66 JN	-	5.69 JN	-	22.4 JN	-	20.6 JN	-	11.1 JN
PCB-159	39635-35-3	pg/L	64	14000	-	< 4.47 U	-	< 2.97 U	-	< 5.41 U	-	< 2.87 U	-	< 3.99 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 3.53 U	-	< 3.1 U	-	< 2.61 U	-	1.37 JN	-	< 3.64 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 3.15 U	-	< 2.63 U	-	< 2.23 U	-	< 2.06 U	-	< 3.25 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 5.25 U	-	< 3.54 U	-	< 6.47 U	-	< 3.42 U	-	< 4.7 U
PCB-164	74472-45-0	pg/L	64	14000	-	4.25 JN	-	5.28 J	-	10.3 JN	-	11.9 J	-	6.38 JN
PCB-165	74472-46-1	pg/L	64	14000	-	< 3.67 U	-	< 3.02 U	-	< 2.58 U	-	< 2.36 U	-	< 3.78 U
PCB-167	52663-72-6	pg/L	64	14000	-	< 5.1 U	-	< 3.34 UJ	-	12.2 J	-	11.2 J	-	6.28 JN
PCB-169	32774-16-6	pg/L	4	14000	-	< 6.89 U	-	< 5.3 U	-	< 10.3 U	-	< 4.58 U	-	< 9.51 U
PCB-170	35065-30-6	pg/L	64	14000	-	12.8 JN	-	< 8.45 UJ	-	38.1 J	-	23.2 JN	-	13.8 JN
PCB-171/173	PCB-171/173	pg/L			-	< 10.4 U	-	< 9.44 U	-	12.8 JN	-	< 7.93 U	-	< 10.3 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 9.87 U	-	< 8.97 U	-	< 7.77 U	-	< 7.53 U	-	< 9.74 U
PCB-174	38411-25-5	pg/L	64	14000	-	8.21 JN	-	< 8.32 UJ	-	30.5 J	-	24.7 J	-	8.14 JN
PCB-175	40186-70-7	pg/L	64	14000	-	< 10 U	-	< 9.17 U	-	< 8.13 U	-	< 7.7 U	-	< 9.88 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 6.08 U	-	< 4.18 U	-	< 6.83 U	-	< 3.45 U	-	< 3.55 U
PCB-177	52663-70-4	pg/L	64	14000	-	< 9.42 U	-	< 8.47 UJ	-	16.7 JN	-	12.7 JN	-	< 9.3 U
PCB-178	52663-67-9	pg/L	64	14000	-	< 7.6 U	-	< 5.28 U	-	8.63 J	-	8.13 J	-	< 4.44 U
PCB-179	52663-64-6	pg/L	64	14000	-	< 5.32 U	-	4.41 JN	-	12.5 JN	-	9.61 J	-	6.89 JN
PCB-180/193	PCB-180/193	pg/L			-	31.8 J+	-	16.1 J	-	68.9 J	-	57.9 J	-	23.8 J+
PCB-181	74472-47-2	pg/L	64	14000	-	< 8.76 U	-	< 8.02 U	-	< 7.05 U	-	< 6.74 U	-	< 8.65 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 8.31 U	-	< 7.52 U	-	< 6.66 U	-	< 6.32 U	-	< 8.2 U
PCB-183	52663-69-1	pg/L	64	14000	-	< 9.02 U	-	< 8.43 UJ	-	17.6 JN	-	17.5 J	-	< 8.9 U
PCB-184	74472-48-3	pg/L	64	14000	-	< 5.66 U	-	< 3.93 U	-	< 6.29 U	-	< 3.25 U	-	< 3.3 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 10.4 U	-	< 9.37 U	-	< 8.16 U	-	< 7.87 U	-	< 10.2 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 5.08 U	-	< 3.5 U	-	< 5.7 U	-	< 2.89 U	-	< 2.97 U
PCB-187	52663-68-0	pg/L	64	14000	-	8.52 JN	-	10.9 J	-	33.8 J	-	31.5 J	-	15.7 J
PCB-188	74487-85-7	pg/L	64	14000	-	< 5.15 U	-	< 3.57 U	-	< 5.6 U	-	< 2.94 U	-	< 3.01 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 4.67 U	-	< 3.67 U	-	< 4.74 U	-	< 5.28 U	-	< 5.78 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 7.21 U	-	< 6.08 U	-	< 6.18 U	-	< 6.83 U	-	< 7.81 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 7.93 U	-	< 7.25 U	-	< 6.29 U	-	< 6.08 U	-	< 7.82 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 6.99 U	-	< 6.35 U	-	< 5.53 U	-	< 5.33 U	-	< 6.9 U
PCB-194	35694-08-7	pg/L	64	14000	-	6.29 J	-	4.5 JN	-	17.3 J	-	16.9 J	-	8.45 JN
PCB-195	52663-78-2	pg/L	64	14000	-	4.27 JN	-	< 3.66 U	-	6.22 J	-	< 3.55 U	-	< 4.75 U
PCB-196	42740-50-1	pg/L	64	14000	-	< 2.9 U	-	< 2.28 UJ	-	9.97 J	-	9.96 J	-	< 1.78 U
PCB-197	33091-17-7	pg/L	64	14000	-	< 2.14 U	-	< 1.75 U	-	< 4.46 U	-	< 2.09 U	-	< 1.31 U
PCB-198/199	PCB-198/199	pg/L			-	7.22 J	-	4.77 J	-	12.1 J	-	18.6 J	-	7.02 JN
PCB-200	52663-73-7	pg/L	64	14000	-	< 2.33 U	-	< 1.82 U	-	< 4.8 U	-	< 2.17 U	-	< 1.43 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 2.37 U	-	< 1.87 U	-	< 4.9 U	-	< 2.23 U	-	< 1.45 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 1.96 U	-	< 1.5 U	-	< 3.92 U	-	< 1.79 U	-	1.81 JN
PCB-203	52663-76-0	pg/L	64	14000	-	< 2.35 U	-	< 1.88 UJ	-	9.69 JN	-	7.64 JN	-	3.34 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 2.09 U	-	< 1.64 U	-	< 4.32 U	-	< 1.96 U	-	< 1.28 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 4.2 U	-	< 2.95 U	-	< 5.69 U	-	< 2.86 U	-	< 3.79 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 19.6 UJ	-	< 19.8 UJ	-	17.9 J	-	< 19.4 UJ	-	< 19.04 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 7.13 U	-	< 4.98 U	-	< 6.98 U	-	< 5.45 U	-	< 6.07 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 6.26 U	-	< 4.25 U	-	< 6.08 U	-	< 4.65 U	-	< 5.32 U
PCB-209	2051-24-3	pg/L	64	14000	-	< 2.48 U	-	< 2.75 UJ	-	14.8 J	-	10.1 J	-	< 7.78 U
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	< 2.48 U	-	< 2.75 U	-	14.8	-	10.1	-	< 7.78 U
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	61.3	-	31.4	-	240	-	185	-	68.3
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	392	-	305	-	1160	-	905	-	467
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	17.8	-	9.27	-	55.3	-	53.1	-	20.6
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	7600	-	7850	-	12600	-	16000	-	9530
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	776	-	797	-	2200	-	2320	-	960
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	2310	-	2580	-	2320	-	2150	-	3040
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	37.3	-	19	-	87.2	-	102	-	50.4
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 19.6 U	-	< 19.8 U	-	17.9	-	< 19.4 U	-	< 19.04 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1720	-	1800	-	3370	-	5990	-	2060
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	2290	-	2310	-	3100	-	4310	-	2850

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0052-PLW	23B-0052-PLW	23B-0053-PLW	23B-0053-PLW	23B-0054-PLW	23B-0054-PLW	23B-0055-PLW	23B-0055-PLW	23B-0056-PLW	23B-0056-PLW
				Sample Name	23B-0052-PLW-AS-F	23B-0052-PLW-AS-T	23B-0053-PLW-AS-F	23B-0053-PLW-AS-T	23B-0054-PLW-AS-F	23B-0054-PLW-AS-T	23B-0055-PLW-AS-F	23B-0055-PLW-AS-T	23B-0056-PLW-AS-F	23B-0056-PLW-AS-T
				Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.35 - 2.35 ft	2.35 - 2.35 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	0.55 - 0.55 ft	0.55 - 0.55 ft	1.55 - 1.55 ft	1.55 - 1.55 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	ug/L	2000	87	22 J+	40	< 20 U	58	22 J+	68	24 J+	53 J+	27 J+	300 J+
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.31 J	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150	0.40 J	0.47 J	< 1.0 U	0.47 J	< 1.0 U	0.39 J	0.37 J	0.57 J	< 1.0 U	0.44 J
Barium	7440-39-3	ug/L	380	220	40	42	42	43	40	42	38	43	40	44
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	16000	16000	17000	18000	16000	18000	15000	16000	16000	18000
Chromium, Total	7440-47-3	ug/L	100	44	< 2.0 U	< 2.0 U	< 2.0 UJ	2.5 J+	< 2.0 UJ	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 UJ	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.21 J	0.25 J	0.20 J	0.29 J	0.18 J	0.24 J	0.20 J	< 1.0 U	0.20 J	< 1.0 U
Copper	7440-50-8	ug/L	80	5	1.2 J	2.4	1.2 J	1.8 J	1.1 J	1.4 J	1.2 J	1.6 J	1.5 J	1.6 J
Iron	7439-89-6	ug/L	1400	1000	720	1300	520	1500	650	1500	530	1300	560	1500
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	1.4	0.65 J	1.2 J+	0.55 J	1.3	< 1.0 U	1.7 J+	1.2	1.5 J+
Magnesium	7439-95-4	ug/L		82000	4000	4000	4100	4600	3900	4500	3800	4100	3900	4300
Manganese	7439-96-5	ug/L	43	93	130	140	130	160	130	160	130	150	130	150
Nickel	7440-02-0	ug/L	39	27	1.0 J+	0.85 J	1.3 J+	2.0 J-	< 1.0 U	0.81 J-	< 1.0 U	< 1.0 U	1.5 J+	< 1.0 UJ
Potassium	7440-09-7	ug/L		53000	2800	3000	3000	3400	2800	3300	2700	3000	2800	3200
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 UJ
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	69000	69000	70000	78000	66000	75000	67000	70000	67000	73000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.51 J	0.75 J	0.44 J	0.87 J	0.49 J	0.79 J	0.40 J	< 5.0 U	0.43 J	< 5.0 U
Zinc	7440-66-6	ug/L	600	11.8	5.5 J+	< 5.0 U	7.2 J+	12 J+	< 5.0 U	12 J+	7.6 J+	7.1 J+	7.0 J+	7.6 J+
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 R	< 0.20 UJ	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 R	< 0.20 UJ	< 0.20 U	< 0.20 U
Total Cyanide														
CYANIDE	57-12-5	ug/L	0.15	5.2	-	2.8 J	-	< 10 U	-	< 10 U	-	6.8 J	-	< 10 U
Hexavalent Chromium														
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	1.1	-	0.12 J
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.27 J	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.48 J	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0052-PLW	23B-0052-PLW	23B-0053-PLW	23B-0053-PLW	23B-0054-PLW	23B-0054-PLW	23B-0055-PLW	23B-0055-PLW	23B-0056-PLW	23B-0056-PLW
					Sample Name	23B-0052-PLW-AS-F	23B-0052-PLW-AS-T	23B-0053-PLW-AS-F	23B-0053-PLW-AS-T	23B-0054-PLW-AS-F	23B-0054-PLW-AS-T	23B-0055-PLW-AS-F	23B-0055-PLW-AS-T	23B-0056-PLW-AS-F	23B-0056-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.35 - 2.35 ft	2.35 - 2.35 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	0.55 - 0.55 ft	0.55 - 0.55 ft	1.55 - 1.55 ft	1.55 - 1.55 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	0.84	-	< 0.50 U	-	< 0.50 U	-	0.89 J+	
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.17 J	-	< 0.50 U	
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.85	-	0.090 J	
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	2.9	-	< 0.50 U	
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.25 J	-	< 0.50 U	
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	1.3	-	< 0.50 U	
Styrene	100-42-5	ug/L	100	32	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	3.9	-	< 0.50 U	
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 R	-	< 0.50 R	-	< 0.50 R	-	< 0.50 U	-	< 0.50 U	
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.1 UJ	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0052-PLW	23B-0052-PLW	23B-0053-PLW	23B-0053-PLW	23B-0054-PLW	23B-0054-PLW	23B-0055-PLW	23B-0055-PLW	23B-0056-PLW	23B-0056-PLW
					Sample Name	23B-0052-PLW-AS-F	23B-0052-PLW-AS-T	23B-0053-PLW-AS-F	23B-0053-PLW-AS-T	23B-0054-PLW-AS-F	23B-0054-PLW-AS-T	23B-0055-PLW-AS-F	23B-0055-PLW-AS-T	23B-0056-PLW-AS-F	23B-0056-PLW-AS-T
					Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.35 - 2.35 ft	2.35 - 2.35 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	0.55 - 0.55 ft	0.55 - 0.55 ft	1.55 - 1.55 ft	1.55 - 1.55 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.1 U	-	< 5.1 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 U	
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
FLUORENE	86-73-7	ug/L	29	19	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.1 U	-	< 5.1 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 U	
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	2.7 J+	-	2.6 J+	-	3.2	-	3.0	-	2.5 J+	
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	4.1	-	4.4	-	4.0	-	4.2	-	3.1	
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.28 J	-	< 1.8 U	-	0.33 J	-	< 1.8 U	-	0.29 J	
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.1	-	2.1	-	2.0	-	2.0	-	1.7 J	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.7	-	2.2	-	2.7	-	2.4	-	2.3	
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.2	-	3.0	-	3.9	-	3.9	-	3.0	
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.74 J	-	0.68 J	-	0.91 J	-	0.86 J	-	0.65 J	
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	5.1	-	4.7	-	5.9	-	5.8	-	5.0	
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.5	-	4.9	-	5.8	-	5.8	-	4.7	
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.36 J	-	0.42 J+	-	0.41 J	-	0.44 J	-	0.30 J+	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.4	-	4.1	-	4.1	-	4.3	-	3.3	
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	

Table 17
Surface Water Analytical Results
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				Location	23B-0052-PLW	23B-0052-PLW	23B-0053-PLW	23B-0053-PLW	23B-0054-PLW	23B-0054-PLW	23B-0055-PLW	23B-0055-PLW	23B-0056-PLW	23B-0056-PLW
				Sample Name	23B-0052-PLW-AS-F	23B-0052-PLW-AS-T	23B-0053-PLW-AS-F	23B-0053-PLW-AS-T	23B-0054-PLW-AS-F	23B-0054-PLW-AS-T	23B-0055-PLW-AS-F	23B-0055-PLW-AS-T	23B-0056-PLW-AS-F	23B-0056-PLW-AS-T
				Sample Date	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/19/2023	10/18/2023	10/18/2023	10/18/2023	10/18/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.35 - 2.35 ft	2.35 - 2.35 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	0.55 - 0.55 ft	0.55 - 0.55 ft	1.55 - 1.55 ft	1.55 - 1.55 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.6	-	8.63	-	8.52	-	9.05	-	8.72
Oxidation-Reduction Potential	ORP	mv			-	195.8	-	191.2	-	150.6	-	161.8	-	183.6
pH	PH	su			-	6.86	-	6.82	-	6.69	-	6.98	-	6.86
Specific Conductance	SC	us/cm			-	488.4	-	491	-	488.7	-	485.4	-	485.5
Temperature	TEMP	deg c			-	13.2	-	13.1	-	13	-	13.4	-	13
Turbidity	TURB	NTU			-	1.7	-	1.91	-	1.98	-	2.22	-	1.8

Table 17
Surface Water Analytical Results
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					Location	23B-0057-PLW	23B-0057-PLW	23B-0058-B1W	23B-0058-B1W	23B-0059-PLW	23B-0059-PLW	23B-0060-PLW	23B-0060-PLW	23B-0061-PLW	23B-0061-PLW
					Sample Name	23B-0057-PLW-AS-F	23B-0057-PLW-AS-T	23B-0058-B1W-AS-F	23B-0058-B1W-AS-T	23B-0059-PLW-AS-F	23B-0059-PLW-AS-T	23B-0060-PLW-AS-F	23B-0060-PLW-AS-T	23B-0061-PLW-AS-F	23B-0061-PLW-AS-T
					Sample Date	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/24/2023	10/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.9 - 0.9 ft	0.9 - 0.9 ft	2.2 - 2.2 ft	2.2 - 2.2 ft	2.7 - 2.7 ft	2.7 - 2.7 ft	1.75 - 1.75 ft	1.75 - 1.75 ft	1.05 - 1.05 ft	1.05 - 1.05 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.051 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.051 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.051 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.051 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.051 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.051 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.051 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.051 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.051 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.51 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.1 U	-	< 5.0 U	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.051 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.43 U	-	< 1.97 U	-	2.22 JN	-	2.08 J	-	3.87 J+
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.21 U	-	< 1.37 U	-	< 0.712 U	-	< 0.913 U	-	< 1.4 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.73 U	-	< 1.89 U	-	< 1.48 U	-	< 1.79 U	-	< 1.63 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.23 U	-	< 1.38 U	-	< 0.749 U	-	< 1.02 U	-	< 0.978 UJ
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.72 U	-	< 2.08 U	-	< 1.48 U	-	< 1.82 U	-	< 1.59 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.25 U	-	< 1.34 U	-	< 0.714 U	-	< 0.968 U	-	< 0.935 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.59 U	-	< 1.81 U	-	< 1.7 U	-	< 1.76 U	-	< 1.49 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.47 U	-	< 1.58 U	-	< 0.958 U	-	< 1.14 U	-	< 1.14 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.84 U	-	< 1.9 U	-	< 1.08 U	-	< 0.752 U	-	< 1.41 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.35 U	-	< 1.54 U	-	< 0.659 U	-	< 0.848 U	-	< 1.53 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 1.08 U	-	< 1.03 U	-	< 0.619 U	-	2.97 J	-	2.42 JN
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.39 U	-	< 1.52 U	-	< 0.768 U	-	< 1.04 U	-	< 1.11 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.24 U	-	< 1.51 U	-	< 0.691 U	-	< 0.857 U	-	< 1.1 R
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 10.1 UJ	-	< 9.64 UJ	-	< 10.1 UJ	-	< 9.5 UJ	-	< 10.2 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 1.11 U	-	< 1.6 U	-	< 0.791 U	-	< 1.03 U	-	< 0.919 U
OCDD	3268-87-9	pg/L	400	31	-	6.08 JN	-	8.94 J	-	5.16 J+	-	16.4 J	-	19.2 J
OCDF	39001-02-0	pg/L	400	31	-	< 2.38 U	-	< 2.86 U	-	< 1.17 U	-	< 1.3 U	-	< 2.27 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.43 U	-	< 1.97 U	-	2.22 U	-	2.08	-	3.87
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 1.21 U	-	< 1.37 U	-	< 0.712 U	-	2.97	-	2.42 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 1.73 U	-	< 2.08 U	-	< 1.7 U	-	< 1.82 U	-	< 1.63 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.47 U	-	< 1.58 U	-	< 0.958 U	-	< 1.14 U	-	< 1.14 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.84 U	-	< 1.9 U	-	< 1.08 U	-	< 0.752 U	-	< 1.41 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.35 U	-	< 1.54 U	-	< 0.691 U	-	< 0.857 U	-	< 1.53 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 10.1 U	-	< 9.64 U	-	< 10.1 U	-	< 9.5 U	-	< 10.2 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 1.11 U	-	< 1.6 U	-	< 0.791 U	-	< 1.03 U	-	< 0.919 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	22.1 J	-	190 J	-	38.1	-	86.1	-	20.8
PCB-002	2051-61-8	pg/L	64	14000	-	< 2.76 U	-	< 3 U	-	< 3.64 U	-	< 4.86 U	-	3.92 JN
PCB-003	2051-62-9	pg/L	64	14000	-	9.07 J+	-	26.4 J+	-	8.97 J	-	30.4 J	-	13.3 J+
PCB-004	13029-08-8	pg/L	64	14000	-	2140 J	-	2790 J	-	2880 J	-	1280 J	-	632 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 5.73 U	-	< 3.99 U	-	< 18.8 U	-	< 7.77 U	-	< 4.54 U
PCB-006	25569-80-6	pg/L	64	14000	-	11.4 JN	-	32 JN	-	17.9 JN	-	26.1 JN	-	14.5 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 5.46 U	-	< 3.8 U	-	< 18 U	-	< 7.29 U	-	< 4.26 U
PCB-008	34883-43-7	pg/L	64	14000	-	34.2 JN	-	167	-	53.4 JN	-	88.8 JN	-	84.8
PCB-009	34883-39-1	pg/L	64	14000	-	< 4.87 U	-	4 JN	-	< 16.1 U	-	< 6.68 U	-	2.82 JN
PCB-010	33146-45-1	pg/L	64	14000	-	476	-	521	-	548	-	625	-	99.6

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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					Location	23B-0057-PLW	23B-0057-PLW	23B-0058-B1W	23B-0058-B1W	23B-0059-PLW	23B-0059-PLW	23B-0060-PLW	23B-0060-PLW	23B-0061-PLW	23B-0061-PLW
					Sample Name	23B-0057-PLW-AS-F	23B-0057-PLW-AS-T	23B-0058-B1W-AS-F	23B-0058-B1W-AS-T	23B-0059-PLW-AS-F	23B-0059-PLW-AS-T	23B-0060-PLW-AS-F	23B-0060-PLW-AS-T	23B-0061-PLW-AS-F	23B-0061-PLW-AS-T
					Sample Date	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/24/2023	10/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.9 - 0.9 ft	0.9 - 0.9 ft	2.2 - 2.2 ft	2.2 - 2.2 ft	2.7 - 2.7 ft	2.7 - 2.7 ft	1.75 - 1.75 ft	1.75 - 1.75 ft	1.05 - 1.05 ft	1.05 - 1.05 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	108 J+	-	105 J+	-	27.9 JN	-	25.1 JN	-	294 J+
PCB-012/013	PCB-12/13	pg/L			-	12.6 JN	-	< 3.74 U	-	< 17.7 UJ	-	21.5 JN	-	8.5 JN
PCB-014	34883-41-5	pg/L	64	14000	-	< 5.35 U	-	< 3.72 U	-	< 17.5 U	-	< 7.36 U	-	< 4.22 U
PCB-015	2050-68-2	pg/L	64	14000	-	349 J	-	345 J	-	342 J	-	571 J	-	211 J
PCB-016	38444-78-9	pg/L	64	14000	-	51.3	-	52.8	-	47.7	-	< 20.5 U	-	68.6
PCB-017	37680-66-3	pg/L	64	14000	-	393	-	481	-	474	-	433	-	195
PCB-018/030	PCB-18/30	pg/L			-	270	-	300	-	292	-	237	-	201
PCB-019	38444-73-4	pg/L	64	14000	-	812 J	-	861 J	-	911 J	-	1120 J	-	363 J
PCB-020/028	PCB-20/28	pg/L			-	206	-	306	-	251	-	311	-	259
PCB-021/033	PCB-21/33	pg/L			-	22.4 J+	-	21.9 JN	-	< 21.4 U	-	< 19.2 U	-	95.1
PCB-022	38444-85-8	pg/L	64	14000	-	13.6 J	-	16.2 JN	-	< 19.7 U	-	< 17.5 U	-	48.7
PCB-023	55720-44-0	pg/L	64	14000	-	< 8.74 U	-	< 11.6 U	-	< 22.9 U	-	< 20.2 U	-	< 12.2 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 8.27 U	-	< 9.88 U	-	< 14.8 U	-	< 14.6 U	-	< 7.78 U
PCB-025	55712-37-3	pg/L	64	14000	-	98.1	-	123	-	131	-	85.8	-	56 J
PCB-026/029	PCB-26/29	pg/L			-	211	-	292	-	270	-	212	-	133
PCB-027	38444-76-7	pg/L	64	14000	-	352	-	370	-	390	-	591	-	187
PCB-031	16606-02-3	pg/L	64	14000	-	201	-	305	-	260	-	182	-	186
PCB-032	38444-77-8	pg/L	64	14000	-	361	-	383	-	463	-	628	-	136
PCB-034	37680-68-5	pg/L	64	14000	-	< 8.85 U	-	< 11.8 U	-	< 22.9 U	-	< 20.1 U	-	< 12.4 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 7.82 U	-	< 10.4 U	-	< 21 U	-	< 18.5 U	-	< 11.4 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 7.03 U	-	< 9.37 U	-	< 18.7 U	-	< 16.6 U	-	< 9.91 U
PCB-037	38444-90-5	pg/L	64	14000	-	31.3	-	34	-	23.9	-	42.7 JN	-	36.4 JN
PCB-038	53555-66-1	pg/L	64	14000	-	< 7.81 U	-	< 10.4 U	-	< 20.5 U	-	< 18.2 U	-	< 10.8 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 7.83 U	-	< 10.4 U	-	< 20.3 U	-	< 18.3 U	-	< 11 U
PCB-040/071	PCB-40/71	pg/L			-	98.6	-	98.9	-	107	-	194	-	101
PCB-041	52663-59-9	pg/L	64	14000	-	6.26 JN	-	11 JN	-	< 9.7 U	-	< 8.5 U	-	9.95 JN
PCB-042	36559-22-5	pg/L	64	14000	-	72.4	-	77.3	-	78.3	-	122	-	75.4
PCB-043	70362-46-8	pg/L	64	14000	-	10.5 JN	-	14.6	-	14.2	-	22.3	-	11.3
PCB-044/047/065	PCB-44/47/65	pg/L			-	374	-	425	-	425	-	672	-	350
PCB-045	70362-45-7	pg/L	64	14000	-	35 JN	-	32.9 JN	-	45.7 J	-	71.1 J	-	30.5 JN
PCB-046	41464-47-5	pg/L	64	14000	-	34.4	-	28.9 JN	-	38.5	-	49.2	-	30
PCB-048	70362-47-9	pg/L	64	14000	-	20	-	24.9	-	13.9 JN	-	17.6 JN	-	30
PCB-049/069	PCB-49/69	pg/L			-	265	-	277	-	289	-	451	-	227
PCB-050/053	PCB-50/53	pg/L			-	227	-	234	-	261	-	358	-	170
PCB-051	68194-04-7	pg/L	64	14000	-	51.1 JN	-	57 JN	-	87.2	-	83	-	31.3 J
PCB-052	35693-99-3	pg/L	64	14000	-	397	-	397	-	426	-	592	-	354
PCB-054	15968-05-5	pg/L	64	14000	-	19.8	-	22.8	-	23.6 JN	-	32.7	-	12.6 JN
PCB-055	74338-24-2	pg/L	64	14000	-	< 4.99 U	-	< 6.85 U	-	< 5.96 U	-	< 6.46 U	-	< 5.67 U
PCB-056	41464-43-1	pg/L	64	14000	-	22.6 JN	-	30.5	-	24.5	-	29.4	-	37.5
PCB-057	70424-67-8	pg/L	64	14000	-	< 5.53 U	-	< 7.58 U	-	5.28 JN	-	< 6.92 U	-	< 6.16 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 4.87 U	-	< 6.68 U	-	< 5.89 U	-	< 6.23 U	-	< 5.47 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	27.3 J	-	27.1 JN	-	29.3 J	-	49 JN	-	27.1 J
PCB-060	33025-41-1	pg/L	64	14000	-	9.53 JN	-	11.2 JN	-	< 7.21 UJ	-	11.9 JN	-	20.6 J
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	141	-	159	-	138	-	197	-	184
PCB-063	74472-34-7	pg/L	64	14000	-	8.73 JN	-	13.9	-	14.5 JN	-	21.8 JN	-	11.2
PCB-064	52663-58-8	pg/L	64	14000	-	86.3	-	95.4	-	93.7	-	171	-	83.7
PCB-066	32598-10-0	pg/L	64	14000	-	85.3	-	92.8	-	79.2	-	143	-	116 J
PCB-067	73575-53-8	pg/L	64	14000	-	< 4.77 U	-	< 6.55 U	-	< 5.82 U	-	< 6.24 U	-	5.29 JN
PCB-068	73575-52-7	pg/L	64	14000	-	< 5.52 U	-	8.42 J	-	8.5 JN	-	16	-	8.19 J
PCB-072	41464-42-0	pg/L	64	14000	-	< 5.37 U	-	7.25 JN	-	9.12 J	-	14.3	-	6.97 JN
PCB-073	74338-23-1	pg/L	64	14000	-	7.96 J	-	7.28 JN	-	7.2 JN	-	19.7	-	5.79 JN
PCB-077	32598-13-3	pg/L	64	14000	-	< 5.86 U	-	9.27 JN	-	11.1	-	15.8	-	9.96 J
PCB-078	70362-49-1	pg/L	64	14000	-	< 5.35 U	-	< 7.34 U	-	< 6.57 U	-	< 7.23 U	-	< 6.19 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 4.62 U	-	< 6.33 U	-	< 5.53 U	-	< 6.16 U	-	< 5.19 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 5.09 U	-	< 6.98 U	-	< 6.08 U	-	< 6.51 U	-	< 5.74 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 5.16 U	-	< 7.09 U	-	< 6.18 U	-	< 6.63 U	-	< 5.99 U
PCB-082	52663-62-4	pg/L	64	14000	-	< 6.95 UJ	-	10.9 JN	-	< 10.6 U	-	22.1	-	20.6
PCB-083	60145-20-2	pg/L	64	14000	-	11.8 J	-	6.46 JN	-	< 12.4 UJ	-	16.8 JN	-	24.7 J
PCB-084	52663-60-2	pg/L	64	14000	-	48.2	-	53.9	-	58.4	-	78.9	-	77.5 J

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0057-PLW	23B-0057-PLW	23B-0058-B1W	23B-0058-B1W	23B-0059-PLW	23B-0059-PLW	23B-0060-PLW	23B-0060-PLW	23B-0061-PLW	23B-0061-PLW
					Sample Name	23B-0057-PLW-AS-F	23B-0057-PLW-AS-T	23B-0058-B1W-AS-F	23B-0058-B1W-AS-T	23B-0059-PLW-AS-F	23B-0059-PLW-AS-T	23B-0060-PLW-AS-F	23B-0060-PLW-AS-T	23B-0061-PLW-AS-F	23B-0061-PLW-AS-T
					Sample Date	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/24/2023	10/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.9 - 0.9 ft	0.9 - 0.9 ft	2.2 - 2.2 ft	2.2 - 2.2 ft	2.7 - 2.7 ft	2.7 - 2.7 ft	1.75 - 1.75 ft	1.75 - 1.75 ft	1.05 - 1.05 ft	1.05 - 1.05 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	18.3 J	-	20.1	-	14.9 JN	-	27.6 JN	-	40.7	
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	69.9 JN	-	81.8	-	73.7 JN	-	115	-	146	
PCB-088	55215-17-3	pg/L	64	14000	-	< 8.67 U	-	< 9.5 U	-	< 12.2 U	-	< 10.1 U	-	< 8.24 U	
PCB-089	73575-57-2	pg/L	64	14000	-	< 7 U	-	< 7.67 U	-	< 10.2 U	-	< 8.87 U	-	< 7.13 U	
PCB-090/101/113	PCB-90/101/113	pg/L			-	135	-	145	-	141	-	198	-	260	
PCB-091	68194-05-8	pg/L	64	14000	-	30.7	-	37.9	-	42.9	-	65.5	-	52.5 J	
PCB-092	52663-61-3	pg/L	64	14000	-	46.3	-	45.9	-	47.2 JN	-	66.9 J	-	72.7 J	
PCB-093/100	PCB-93/100	pg/L			-	< 7.74 U	-	< 8.49 U	-	< 10.9 U	-	16.8 JN	-	< 7.54 U	
PCB-094	73575-55-0	pg/L	64	14000	-	< 8.25 U	-	< 9.04 U	-	< 11.9 U	-	8.34 JN	-	< 8.18 U	
PCB-095	38379-99-6	pg/L	64	14000	-	143	-	163	-	157	-	201	-	231 J	
PCB-096	73575-54-9	pg/L	64	14000	-	< 3.88 U	-	< 3.52 U	-	< 5.14 U	-	< 5.03 U	-	< 4.04 U	
PCB-098	60233-25-2	pg/L	64	14000	-	< 5.94 U	-	< 6.51 U	-	< 8.75 U	-	< 8.52 U	-	< 6.23 U	
PCB-099	38380-01-7	pg/L	64	14000	-	53.4	-	58.5	-	53.2 JN	-	77.3	-	113 J	
PCB-102	68194-06-9	pg/L	64	14000	-	< 6.72 U	-	13.7	-	< 9.68 UJ	-	13.8 JN	-	< 6.49 UJ	
PCB-103	60145-21-3	pg/L	64	14000	-	< 7.1 U	-	< 7.78 U	-	< 10.2 U	-	< 8.91 U	-	< 7.1 U	
PCB-104	56558-16-8	pg/L	64	14000	-	< 3.36 U	-	< 3.04 U	-	< 4.59 U	-	< 4.59 U	-	< 3.57 U	
PCB-105	32598-14-4	pg/L	64	14000	-	20.1	-	20.2 JN	-	16.3 JN	-	33.7	-	43.9 J	
PCB-106	70424-69-0	pg/L	64	14000	-	< 4.74 U	-	< 5.2 U	-	< 7.09 U	-	< 6.46 U	-	< 4.87 U	
PCB-107	70424-68-9	pg/L	64	14000	-	< 4.76 U	-	5.31 JN	-	< 7.1 U	-	8.64 JN	-	13.8	
PCB-108/124	PCB-108/124	pg/L			-	< 5.25 U	-	< 5.75 U	-	< 7.88 U	-	< 7.02 U	-	< 5.33 U	
PCB-110	38380-03-9	pg/L	64	14000	-	127	-	140	-	135	-	224	-	292 J	
PCB-111	39635-32-0	pg/L	64	14000	-	< 5.16 U	-	< 5.66 U	-	< 7.57 U	-	< 6.9 U	-	< 5.24 U	
PCB-112	74472-36-9	pg/L	64	14000	-	< 4.47 U	-	< 4.9 U	-	< 6.5 U	-	< 5.85 U	-	< 4.5 U	
PCB-114	74472-37-0	pg/L	64	14000	-	< 5.27 U	-	< 5.59 U	-	< 6.9 U	-	< 7 U	-	< 5.03 U	
PCB-115	74472-38-1	pg/L	64	14000	-	3.54 JN	-	2.59 J	-	< 7.06 U	-	9.37 J	-	< 4.19 U	
PCB-117	68194-11-6	pg/L	64	14000	-	< 5.77 U	-	9.61 J	-	9.23 JN	-	13.7 JN	-	10.2 J	
PCB-118	31508-00-6	pg/L	64	14000	-	62.9	-	74	-	64.9	-	112	-	127 J	
PCB-120	68194-12-7	pg/L	64	14000	-	< 4.25 U	-	< 4.66 U	-	< 6.27 U	-	< 5.73 U	-	< 4.35 U	
PCB-121	56558-18-0	pg/L	64	14000	-	< 4.82 U	-	< 5.28 U	-	< 7.02 U	-	< 6.34 U	-	< 4.81 U	
PCB-122	76842-07-4	pg/L	64	14000	-	< 6.79 U	-	< 7.21 U	-	< 8.98 U	-	< 9.12 U	-	< 6.4 U	
PCB-123	65510-44-3	pg/L	64	14000	-	< 4.7 U	-	< 5.15 U	-	< 7.09 U	-	< 6.57 U	-	< 4.94 U	
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 3.82 U	-	< 4.98 U	-	< 5.33 U	-	< 6.85 U	-	< 7.5 U	
PCB-127	39635-33-1	pg/L	64	14000	-	< 5.27 U	-	< 5.64 U	-	< 7.79 U	-	< 6.57 U	-	< 5.33 U	
PCB-128/166	PCB-128/166	pg/L			-	13.4 J	-	14.1 JN	-	15.7 J	-	22.7	-	35.5 JN	
PCB-129/138/163	PCB-129/138/163	pg/L			-	94.6	-	105	-	96.4 JN	-	192	-	213 J	
PCB-130	52663-66-8	pg/L	64	14000	-	< 5.89 U	-	< 4.86 U	-	< 4.7 U	-	14	-	15.2 J	
PCB-131	61798-70-7	pg/L	64	14000	-	< 5.55 U	-	< 4.58 U	-	< 4.34 U	-	< 5.49 U	-	< 5.13 U	
PCB-132	38380-05-1	pg/L	64	14000	-	30.1	-	29.8	-	29.5	-	51.1 JN	-	78.3 J	
PCB-133	35694-04-3	pg/L	64	14000	-	< 4.84 U	-	< 3.99 U	-	< 3.76 U	-	< 4.76 U	-	< 4.48 U	
PCB-134	52704-70-8	pg/L	64	14000	-	< 6.4 U	-	< 5.28 U	-	< 5.09 U	-	< 6.08 U	-	< 5.78 UJ	
PCB-135/151	PCB-135/151	pg/L			-	27.2	-	33.5	-	32 JN	-	51.4	-	79 J	
PCB-136	38411-22-2	pg/L	64	14000	-	13.4	-	9.18 JN	-	12.1 JN	-	17.2 J	-	26.2	
PCB-137	35694-06-5	pg/L	64	14000	-	4.92 JN	-	< 4.48 U	-	< 4.39 U	-	16	-	11.4	
PCB-139/140	PCB-139/140	pg/L			-	< 4.81 U	-	< 3.97 U	-	< 3.76 U	-	< 4.78 U	-	6.29 JN	
PCB-141	52712-04-6	pg/L	64	14000	-	11.5	-	15.6	-	11.2 JN	-	24.9 J	-	27.7 JN	
PCB-142	41411-61-4	pg/L	64	14000	-	< 5.39 U	-	< 4.45 U	-	< 4.19 U	-	< 5.45 U	-	< 5.17 U	
PCB-143	68194-15-0	pg/L	64	14000	-	< 4.83 U	-	< 3.98 U	-	< 3.8 U	-	< 5.03 U	-	< 4.82 U	
PCB-144	68194-14-9	pg/L	64	14000	-	< 4.97 U	-	< 4.1 U	-	< 3.94 U	-	< 5 U	-	11.7	
PCB-145	74472-40-5	pg/L	64	14000	-	< 3.64 U	-	< 3.21 U	-	< 2.87 U	-	< 3.21 U	-	< 2.99 U	
PCB-146	51908-16-8	pg/L	64	14000	-	10.4 JN	-	14.1 J	-	10.9 JN	-	18.7	-	27.7 J	
PCB-147/149	PCB-147/149	pg/L			-	69.8	-	67.6	-	75	-	120	-	159 J	
PCB-148	74472-41-6	pg/L	64	14000	-	< 4.93 U	-	< 4.07 U	-	< 3.86 U	-	< 4.84 U	-	< 4.67 U	
PCB-150	68194-08-1	pg/L	64	14000	-	< 3.85 U	-	< 3.39 U	-	< 3.03 U	-	< 3.33 U	-	< 3.08 U	
PCB-152	68194-09-2	pg/L	64	14000	-	< 3.39 U	-	< 2.99 U	-	< 2.7 U	-	< 3.03 U	-	< 2.88 U	
PCB-153/168	PCB-153/168	pg/L			-	69.6	-	71.4	-	72.5	-	125	-	167 J	
PCB-154	60145-22-4	pg/L	64	14000	-	< 4.54 U	-	< 3.74 U	-	< 3.53 U	-	< 4.55 U	-	< 4.31 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0057-PLW	23B-0057-PLW	23B-0058-B1W	23B-0058-B1W	23B-0059-PLW	23B-0059-PLW	23B-0060-PLW	23B-0060-PLW	23B-0061-PLW	23B-0061-PLW
					Sample Name	23B-0057-PLW-AS-F	23B-0057-PLW-AS-T	23B-0058-B1W-AS-F	23B-0058-B1W-AS-T	23B-0059-PLW-AS-F	23B-0059-PLW-AS-T	23B-0060-PLW-AS-F	23B-0060-PLW-AS-T	23B-0061-PLW-AS-F	23B-0061-PLW-AS-T
					Sample Date	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/24/2023	10/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.9 - 0.9 ft	0.9 - 0.9 ft	2.2 - 2.2 ft	2.2 - 2.2 ft	2.7 - 2.7 ft	2.7 - 2.7 ft	1.75 - 1.75 ft	1.75 - 1.75 ft	1.05 - 1.05 ft	1.05 - 1.05 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 3.2 U	-	< 2.82 U	-	< 2.59 U	-	< 2.99 U	-	< 2.71 U
PCB-156/157	PCB-156/157	pg/L			-	6.22 JN	-	9.24 J	-	9.5 JN	-	11.8 JN	-	23.9
PCB-158	74472-42-7	pg/L	64	14000	-	7.24 JN	-	10.1	-	10.8	-	11.4 JN	-	18.5 J
PCB-159	39635-35-3	pg/L	64	14000	-	< 4.93 U	-	< 2.91 U	-	< 3.17 U	-	< 4.79 U	-	< 7.71 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 3.91 U	-	< 3.23 U	-	< 3.11 U	-	< 4.12 U	-	< 3.82 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 3.49 U	-	< 2.88 U	-	< 2.78 U	-	< 3.56 U	-	< 3.37 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 5.8 U	-	< 3.43 U	-	< 3.69 U	-	< 5.54 U	-	< 9.22 U
PCB-164	74472-45-0	pg/L	64	14000	-	4.08 J	-	< 2.88 U	-	< 2.78 U	-	8.87 JN	-	15.4
PCB-165	74472-46-1	pg/L	64	14000	-	< 4.14 U	-	< 3.41 U	-	< 3.25 U	-	< 4.19 U	-	< 3.93 U
PCB-167	52663-72-6	pg/L	64	14000	-	< 5.67 U	-	4.89 JN	-	< 3.51 U	-	7.09 J	-	< 8.94 U
PCB-169	32774-16-6	pg/L	4	14000	-	< 8.79 U	-	< 4.15 U	-	< 5.27 U	-	< 6.52 U	-	< 14.3 U
PCB-170	35065-30-6	pg/L	64	14000	-	9.85 JN	-	< 7.07 U	-	14.2	-	26.4	-	31.6 J
PCB-171/173	PCB-171/173	pg/L			-	< 6.14 U	-	< 7.37 U	-	< 9.05 U	-	< 11.2 U	-	< 11.2 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 5.75 U	-	< 6.89 U	-	< 8.5 U	-	< 10.6 U	-	< 10.7 U
PCB-174	38411-25-5	pg/L	64	14000	-	7.04 JN	-	11.7 JN	-	< 7.97 U	-	18.6	-	25.2 JN
PCB-175	40186-70-7	pg/L	64	14000	-	< 5.9 U	-	< 7.07 U	-	< 8.74 U	-	< 10.6 U	-	< 10.9 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 3.69 U	-	< 4.98 U	-	< 7.15 U	-	< 4.85 U	-	6.2 J
PCB-177	52663-70-4	pg/L	64	14000	-	< 5.48 U	-	9.44 J	-	< 8.01 U	-	8.7 JN	-	18.6 J
PCB-178	52663-67-9	pg/L	64	14000	-	< 4.63 U	-	< 6.26 U	-	< 9.03 U	-	< 6.14 U	-	< 4.51 U
PCB-179	52663-64-6	pg/L	64	14000	-	4.61 JN	-	4.22 JN	-	< 6.22 U	-	8.81 J	-	11.5 JN
PCB-180/193	PCB-180/193	pg/L			-	18.5 JN	-	27.1 J+	-	23.8 JN	-	47.3 J	-	59.6 J
PCB-181	74472-47-2	pg/L	64	14000	-	< 5.2 U	-	< 6.24 U	-	< 7.62 U	-	< 9.39 U	-	< 9.56 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 4.89 U	-	< 5.87 U	-	< 7.21 U	-	< 8.8 U	-	< 9.02 U
PCB-183	52663-69-1	pg/L	64	14000	-	5.83 JN	-	< 6.4 U	-	< 7.73 U	-	12.8	-	13.8 JN
PCB-184	74472-48-3	pg/L	64	14000	-	< 3.46 U	-	< 4.68 U	-	< 6.68 U	-	< 4.49 U	-	< 3.41 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 5.98 U	-	< 7.17 U	-	< 8.82 U	-	< 11.7 U	-	< 12 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 3.11 U	-	< 4.2 U	-	< 5.98 U	-	< 4.07 U	-	< 3.05 U
PCB-187	52663-68-0	pg/L	64	14000	-	11.2 J	-	11.3 JN	-	< 7.03 UJ	-	23.3 J	-	33.4
PCB-188	74487-85-7	pg/L	64	14000	-	< 3.12 U	-	< 4.21 U	-	< 6.47 U	-	< 4.25 U	-	< 3.27 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 3.76 U	-	< 3.07 U	-	< 4.77 U	-	< 5.55 U	-	< 6.05 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 4.96 U	-	< 5.22 U	-	< 6.83 U	-	< 8.74 U	-	< 8.05 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 4.69 U	-	< 5.63 U	-	< 7.12 U	-	< 8.63 U	-	< 8.58 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 4.16 U	-	< 4.98 U	-	< 6.11 U	-	< 7.46 U	-	< 7.56 U
PCB-194	35694-08-7	pg/L	64	14000	-	3.11 JN	-	4.97 JN	-	4.66 JN	-	9.56	-	10.8
PCB-195	52663-78-2	pg/L	64	14000	-	< 2.96 U	-	< 3.49 U	-	< 4.88 U	-	< 2.37 U	-	< 5.34 U
PCB-196	42740-50-1	pg/L	64	14000	-	< 1.86 U	-	< 3.1 U	-	5.92 J	-	< 5.79 U	-	< 5.73 U
PCB-197	33091-17-7	pg/L	64	14000	-	< 1.37 U	-	< 2.28 U	-	< 2.18 U	-	< 4.37 U	-	< 4.39 U
PCB-198/199	PCB-198/199	pg/L			-	3.03 JN	-	6.69 JN	-	4.91 JN	-	14.7 JN	-	11.8 J
PCB-200	52663-73-7	pg/L	64	14000	-	< 1.49 U	-	< 2.48 U	-	< 2.36 U	-	< 4.37 U	-	< 4.48 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 1.53 U	-	< 2.54 U	-	< 2.42 U	-	< 4.63 U	-	4.51 JN
PCB-202	2136-99-4	pg/L	64	14000	-	< 1.24 U	-	< 2.06 U	-	< 1.97 U	-	3.12 J	-	4.01 JN
PCB-203	52663-76-0	pg/L	64	14000	-	2.81 JN	-	5.15 JN	-	< 2.46 U	-	< 4.77 U	-	8.13 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 1.35 U	-	< 2.24 U	-	< 2.09 U	-	< 4.01 U	-	< 4.11 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 2.35 U	-	< 2.77 U	-	< 4.15 U	-	< 1.98 U	-	< 4.3 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 20.2 UJ	-	< 19.24 UJ	-	< 20.2 UJ	-	< 19.1 UJ	-	12.5 JN
PCB-207	52663-79-3	pg/L	64	14000	-	< 4.55 U	-	< 5.04 U	-	< 5.12 U	-	< 6.35 U	-	< 6.04 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 3.98 U	-	< 4.4 U	-	< 4.56 U	-	< 5.67 U	-	< 5.35 U
PCB-209	2051-24-3	pg/L	64	14000	-	< 4.2 U	-	< 5.69 U	-	< 2.53 U	-	8.38 J	-	13
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	< 4.2 U	-	< 5.69 U	-	< 2.53 U	-	8.38	-	13
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	57.0	-	63.8	-	38.0	-	146	-	200
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	362	-	385	-	376	-	692	-	916
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	8.95	-	16.8	-	15.5	-	27.4	-	39.3
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	9380	-	11200	-	10900	-	12100	-	8010
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	770	-	889	-	814	-	1310	-	1530
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	3130	-	3960	-	3870	-	2640	-	1350
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	31.2	-	216	-	47.1	-	117	-	38.0
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 20.2 U	-	< 19.24 U	-	< 20.2 U	-	< 19.1 U	-	12.5
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	2000	-	2160	-	2230	-	3350	-	1950
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	3020	-	3550	-	3510	-	3840	-	1960

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0057-PLW	23B-0057-PLW	23B-0058-B1W	23B-0058-B1W	23B-0059-PLW	23B-0059-PLW	23B-0060-PLW	23B-0060-PLW	23B-0061-PLW	23B-0061-PLW
				Sample Name	23B-0057-PLW-AS-F	23B-0057-PLW-AS-T	23B-0058-B1W-AS-F	23B-0058-B1W-AS-T	23B-0059-PLW-AS-F	23B-0059-PLW-AS-T	23B-0060-PLW-AS-F	23B-0060-PLW-AS-T	23B-0061-PLW-AS-F	23B-0061-PLW-AS-T
				Sample Date	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/24/2023	10/24/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.9 - 0.9 ft	0.9 - 0.9 ft	2.2 - 2.2 ft	2.2 - 2.2 ft	2.7 - 2.7 ft	2.7 - 2.7 ft	1.75 - 1.75 ft	1.75 - 1.75 ft	1.05 - 1.05 ft	1.05 - 1.05 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	ug/L	2000	87	31 J	55 J+	25 J	49 J+	39 J	75 J+	36 J	65 J+	58 J+	48
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150	0.43 J	0.56 J	0.35 J	0.57 J	0.60 J	0.50 J	0.49 J	0.59 J	0.48 J	0.38 J
Barium	7440-39-3	ug/L	380	220	39	42	39	40	41	41	39	42	33	35
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	17000	17000	17000	16000	17000	17000	16000	17000	13000	14000
Chromium, Total	7440-47-3	ug/L	100	44	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.74 J	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.23 J	< 1.0 U	0.24 J	< 1.0 U	0.24 J	< 1.0 U	0.25 J	< 1.0 U	0.16 J	0.19 J
Copper	7440-50-8	ug/L	80	5	1.3 J	1.8 J	1.1 J	1.5 J	1.5 J	1.5 J	1.4 J	1.6 J	1.4 J	1.6 J
Iron	7439-89-6	ug/L	1400	1000	910	1500	690	1500	1300	1500	1100	1600	560	870
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	1.4 J+	< 1.0 U	1.3 J+	< 1.0 U	1.2 J+	< 1.0 U	1.5 J+	< 1.0 U	1.3
Magnesium	7439-95-4	ug/L		82000	4500	4400	4400	4300	4400	4300	4200	4300	3400	3400
Manganese	7439-96-5	ug/L	43	93	160	160	150	150	150	160	150	170	77	93
Nickel	7440-02-0	ug/L	39	27	< 1.0 UJ	2.0 J	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	0.77 J	< 1.0 U
Potassium	7440-09-7	ug/L		53000	3400	3300	3300	3300	3300	3300	3200	3300	2800	2800
Selenium	7782-49-2	ug/L	10	5	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	76000	74000	75000	73000	74000	73000	71000	72000	57000	55000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.56 J	< 5.0 U	0.50 J	< 5.0 U	0.70 J	< 5.0 U	0.64 J	< 5.0 U	0.48 J	0.62 J
Zinc	7440-66-6	ug/L	600	11.8	7.5 J+	23 J	5.6 J+	9.0 J	6.5 J+	10 J	16	9.5 J	< 5.0 U	5.1 J+
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide														
CYANIDE	57-12-5	ug/L	0.15	5.2	-	5.8 J	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
Hexavalent Chromium														
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.14 J	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0057-PLW	23B-0057-PLW	23B-0058-B1W	23B-0058-B1W	23B-0059-PLW	23B-0059-PLW	23B-0060-PLW	23B-0060-PLW	23B-0061-PLW	23B-0061-PLW
					Sample Name	23B-0057-PLW-AS-F	23B-0057-PLW-AS-T	23B-0058-B1W-AS-F	23B-0058-B1W-AS-T	23B-0059-PLW-AS-F	23B-0059-PLW-AS-T	23B-0060-PLW-AS-F	23B-0060-PLW-AS-T	23B-0061-PLW-AS-F	23B-0061-PLW-AS-T
					Sample Date	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/24/2023	10/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.9 - 0.9 ft	0.9 - 0.9 ft	2.2 - 2.2 ft	2.2 - 2.2 ft	2.7 - 2.7 ft	2.7 - 2.7 ft	1.75 - 1.75 ft	1.75 - 1.75 ft	1.05 - 1.05 ft	1.05 - 1.05 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	1.3 J+	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	1.5 J+	
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.11 J	-	< 0.50 U	
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Styrene	100-42-5	ug/L	100	32	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 R	
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ	
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.1 U	-	< 5.0 U	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 U	
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 U	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.1 U	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 U	
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 U	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 U	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 U	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0057-PLW	23B-0057-PLW	23B-0058-B1W	23B-0058-B1W	23B-0059-PLW	23B-0059-PLW	23B-0060-PLW	23B-0060-PLW	23B-0061-PLW	23B-0061-PLW
					Sample Name	23B-0057-PLW-AS-F	23B-0057-PLW-AS-T	23B-0058-B1W-AS-F	23B-0058-B1W-AS-T	23B-0059-PLW-AS-F	23B-0059-PLW-AS-T	23B-0060-PLW-AS-F	23B-0060-PLW-AS-T	23B-0061-PLW-AS-F	23B-0061-PLW-AS-T
					Sample Date	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/24/2023	10/24/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.9 - 0.9 ft	0.9 - 0.9 ft	2.2 - 2.2 ft	2.2 - 2.2 ft	2.7 - 2.7 ft	2.7 - 2.7 ft	1.75 - 1.75 ft	1.75 - 1.75 ft	1.05 - 1.05 ft	1.05 - 1.05 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.1 U	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.1 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 2.0 U	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 2.0 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 2.0 U	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 2.0 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 2.0 U	-	0.59 J	-	< 1.7 U	-	< 1.7 U	-	< 2.0 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 2.0 U	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 2.0 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 2.0 U	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 2.0 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.1 J	-	3.1	-	3.0	-	2.9	-	3.3
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	4.3 J	-	22 J-	-	5.1	-	4.7 J-	-	4.8
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 2.0 U	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 2.0 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.33 J	-	0.34 J	-	0.28 J	-	0.28 J	-	0.34 J
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 2.0 U	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 2.0 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 2.0 U	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 2.0 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.1	-	2.2	-	2.1	-	2.1	-	2.2
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.4	-	2.8	-	2.6	-	2.5	-	2.2
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.8	-	4.1	-	4.2	-	4.4	-	4.0
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 2.0 U	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 2.0 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.83 J	-	0.89 J	-	0.86 J	-	0.80 J	-	0.85 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 2.0 U	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 2.0 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	5.6	-	6.6	-	6.0	-	5.4	-	6.2
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.4	-	6.3	-	5.9	-	5.9	-	6.3
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.40 J	-	0.43 J	-	0.37 J	-	0.46 J	-	0.42 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.3 J	-	4.6 J-	-	4.1	-	4.1	-	4.8
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 2.0 U	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 2.0 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 2.0 U	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 2.0 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0057-PLW	23B-0057-PLW	23B-0058-B1W	23B-0058-B1W	23B-0059-PLW	23B-0059-PLW	23B-0060-PLW	23B-0060-PLW	23B-0061-PLW	23B-0061-PLW
				Sample Name	23B-0057-PLW-AS-F	23B-0057-PLW-AS-T	23B-0058-B1W-AS-F	23B-0058-B1W-AS-T	23B-0059-PLW-AS-F	23B-0059-PLW-AS-T	23B-0060-PLW-AS-F	23B-0060-PLW-AS-T	23B-0061-PLW-AS-F	23B-0061-PLW-AS-T
				Sample Date	10/18/2023	10/18/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/24/2023	10/24/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.9 - 0.9 ft	0.9 - 0.9 ft	2.2 - 2.2 ft	2.2 - 2.2 ft	2.7 - 2.7 ft	2.7 - 2.7 ft	1.75 - 1.75 ft	1.75 - 1.75 ft	1.05 - 1.05 ft	1.05 - 1.05 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 2.0 U	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 2.0 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.84	-	8.78	-	8.8	-	9.44	-	8.87
Oxidation-Reduction Potential	ORP	mv			-	155.3	-	218.6	-	169.2	-	173.8	-	133.2
pH	PH	su			-	7.01	-	7.08	-	6.92	-	6.95	-	6.71
Specific Conductance	SC	us/cm			-	485.3	-	478.2	-	476.4	-	473.4	-	411.3
Temperature	TEMP	deg c			-	12.8	-	13.2	-	13	-	13	-	12.1
Turbidity	TURB	NTU			-	1.87	-	1.66	-	1.78	-	2.07	-	0.87

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0063-PLW	23B-0063-PLW	23B-0064-PLW	23B-0064-PLW	23B-0065-PLW	23B-0065-PLW
					Sample Name	23B-0062-PLW-AS-F	23B-0062-PLW-AS-T	23B-0062-PLW-AT-F	23B-0062-PLW-AT-T	23B-0063-PLW-AS-F	23B-0063-PLW-AS-T	23B-0064-PLW-AS-F	23B-0064-PLW-AS-T	23B-0065-PLW-AS-F	23B-0065-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	FD	FD	N	N	N	N	N	N
					Depth Interval	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.4 - 0.4 ft	0.4 - 0.4 ft	2.75 - 2.75 ft	2.75 - 2.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.50 U	-	< 0.50 U	-	< 0.51 U	-	< 0.51 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.68 U	-	< 1.38 U	-	2.45 JN	-	8.5 J+	-	3.45 JN
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.71 U	-	< 1.81 U	-	< 0.829 U	-	< 1.19 U	-	< 1.35 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.77 U	-	< 1.7 U	-	< 1.21 U	-	< 1.58 U	-	< 1.38 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.3 UJ	-	< 1.17 UJ	-	< 0.957 UJ	-	< 1.02 UJ	-	< 1.08 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.84 U	-	< 1.61 U	-	< 1.32 U	-	< 1.63 U	-	< 1.48 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.33 U	-	< 1.17 U	-	< 0.944 U	-	< 1.04 U	-	< 1.04 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.79 U	-	< 1.57 U	-	< 1.18 U	-	< 1.55 U	-	< 1.41 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.48 U	-	< 1.42 U	-	< 1.06 U	-	< 1.27 U	-	< 1.35 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.6 UJ	-	< 1.94 UJ	-	< 1.26 UJ	-	< 1.73 UJ	-	< 1.91 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.32 U	-	< 1 U	-	< 0.923 U	-	< 1.33 U	-	< 1.54 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	2.62 JN	-	< 1.46 U	-	< 0.671 U	-	6.02 JN	-	3.67 JN
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.38 U	-	< 1.25 U	-	< 0.972 U	-	< 1.12 U	-	< 1.26 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.23 R	-	< 1.15 U	-	< 0.866 U	-	< 1.34 R	-	< 1.5 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 10.1 UJ	-	< 9.7 UJ	-	< 9.6 UJ	-	< 9.9 UJ	-	< 10 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 0.881 U	-	< 0.879 U	-	< 0.741 U	-	< 1.08 U	-	< 1.13 U
OCDD	3268-87-9	pg/L	400	31	-	10.6 J	-	9.71 J	-	15.6 J	-	39.7 JN	-	29 J
OCDF	39001-02-0	pg/L	400	31	-	< 2.62 U	-	< 2.32 U	-	< 2.29 U	-	5 JN	-	4.15 JN
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.68 U	-	< 1.38 U	-	2.45	-	8.5	-	3.45
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	2.62 U	-	< 1.81 U	-	< 0.829 U	-	6.02	-	3.67
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 1.84 U	-	< 1.7 U	-	< 1.32 U	-	< 1.63 U	-	< 1.48 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.48 U	-	< 1.42 U	-	< 1.06 U	-	< 1.27 U	-	< 1.35 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.6 U	-	< 1.94 U	-	< 1.26 U	-	< 1.73 U	-	< 1.91 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.32 U	-	< 1.15 U	-	< 0.923 U	-	< 1.33 U	-	< 1.54 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 10.1 U	-	< 9.7 U	-	< 9.6 U	-	< 9.9 U	-	< 10 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 0.881 U	-	< 0.879 U	-	< 0.741 U	-	< 1.08 U	-	< 1.13 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	104	-	77.4	-	24.9 JN	-	137	-	10.5 J
PCB-002	2051-61-8	pg/L	64	14000	-	< 4.17 U	-	< 3.68 U	-	2.56 JN	-	< 3.04 U	-	< 2.58 U
PCB-003	2051-62-9	pg/L	64	14000	-	88.1 J	-	40.6 J	-	15.7 J+	-	81.1	-	8.96 J
PCB-004	13029-08-8	pg/L	64	14000	-	3590 J	-	3790 J	-	1770 J	-	3070 J	-	495 J
PCB-005	16605-91-7	pg/L	64	14000	-	4.67 JN	-	< 5.52 U	-	< 3.54 U	-	< 6.78 U	-	< 10.7 U
PCB-006	25569-80-6	pg/L	64	14000	-	98.2 J	-	51 J	-	26.8 JN	-	93.6	-	7.31 JN
PCB-007	33284-50-3	pg/L	64	14000	-	12.3 JN	-	6.04 JN	-	3.15 JN	-	10.3 JN	-	< 10.2 U
PCB-008	34883-43-7	pg/L	64	14000	-	516 J	-	232 J	-	121	-	507	-	27.2 JN
PCB-009	34883-39-1	pg/L	64	14000	-	17.9 JN	-	< 4.75 U	-	3.2 JN	-	9.21 JN	-	< 9.31 U
PCB-010	33146-45-1	pg/L	64	14000	-	387	-	375	-	211	-	433	-	99.2 JN

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
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					Location	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0063-PLW	23B-0063-PLW	23B-0064-PLW	23B-0064-PLW	23B-0065-PLW	23B-0065-PLW
					Sample Name	23B-0062-PLW-AS-F	23B-0062-PLW-AS-T	23B-0062-PLW-AT-F	23B-0062-PLW-AT-T	23B-0063-PLW-AS-F	23B-0063-PLW-AS-T	23B-0064-PLW-AS-F	23B-0064-PLW-AS-T	23B-0065-PLW-AS-F	23B-0065-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	FD	FD	N	N	N	N	N	N
					Depth Interval	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.4 - 0.4 ft	0.4 - 0.4 ft	2.75 - 2.75 ft	2.75 - 2.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	953 J	-	300 J	-	247 J+	-	255 J+	-	211 J+
PCB-012/013	PCB-12/13	pg/L			-	70.2 JN	-	50.4 JN	-	20.5 JN	-	78	-	< 10.5 U
PCB-014	34883-41-5	pg/L	64	14000	-	< 5.08 U	-	< 5.17 U	-	< 3.29 U	-	< 6.29 U	-	< 10.4 U
PCB-015	2050-68-2	pg/L	64	14000	-	1840 J	-	1700 J	-	768 J	-	2420 J	-	246 J
PCB-016	38444-78-9	pg/L	64	14000	-	394 J	-	163 J	-	105	-	416	-	22
PCB-017	37680-66-3	pg/L	64	14000	-	2070 J	-	1460 J	-	694	-	2060	-	154
PCB-018/030	PCB-18/30	pg/L			-	1120 J	-	642 J	-	369	-	1320	-	109
PCB-019	38444-73-4	pg/L	64	14000	-	1870 J	-	1650 J	-	858 J	-	2280 J	-	432 J
PCB-020/028	PCB-20/28	pg/L			-	2020 J	-	1070 J	-	469	-	2100	-	131
PCB-021/033	PCB-21/33	pg/L			-	422 J	-	124 J	-	92.4 J+	-	140	-	8.84 J
PCB-022	38444-85-8	pg/L	64	14000	-	290 J	-	107 J	-	52.4	-	205	-	8.83 J
PCB-023	55720-44-0	pg/L	64	14000	-	< 20.6 U	-	< 16.9 U	-	< 8.63 U	-	< 10.6 U	-	< 6.55 U
PCB-024	55702-45-9	pg/L	64	14000	-	35.3	-	22.6	-	11.9	-	70.6	-	< 5.92 U
PCB-025	55712-37-3	pg/L	64	14000	-	423 J	-	302 J	-	144 J	-	440 J	-	40.4
PCB-026/029	PCB-26/29	pg/L			-	829 J	-	574 J	-	282	-	885	-	85.8
PCB-027	38444-76-7	pg/L	64	14000	-	1030	-	872	-	470	-	1270	-	203
PCB-031	16606-02-3	pg/L	64	14000	-	1300 J	-	670 J	-	335	-	977	-	72.7
PCB-032	38444-77-8	pg/L	64	14000	-	1060 J	-	724 J	-	377	-	917	-	127
PCB-034	37680-68-5	pg/L	64	14000	-	< 20.8 U	-	< 17 U	-	< 8.8 U	-	15.3	-	< 7.24 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 19 U	-	< 15.5 U	-	< 8.03 U	-	15.7	-	< 6.76 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 16.7 U	-	< 13.7 U	-	< 7.01 U	-	< 8.58 U	-	< 6.03 U
PCB-037	38444-90-5	pg/L	64	14000	-	336 J	-	168 J	-	68.7	-	425	-	22.3 J
PCB-038	53555-66-1	pg/L	64	14000	-	< 18.5 U	-	< 15.1 U	-	< 7.64 U	-	< 9.36 U	-	< 6.48 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 18.5 U	-	< 15.1 U	-	< 7.79 U	-	10.1	-	< 6.53 U
PCB-040/071	PCB-40/71	pg/L			-	583 J	-	320 J	-	150	-	715	-	80.8
PCB-041	52663-59-9	pg/L	64	14000	-	107 J	-	54.8 J	-	18.7 J	-	86.6 J	-	4.63 JN
PCB-042	36559-22-5	pg/L	64	14000	-	408 J	-	238 J	-	114	-	565	-	50.4
PCB-043	70362-46-8	pg/L	64	14000	-	68 J	-	35.6 J	-	19.8	-	74.3	-	11.1 JN
PCB-044/047/065	PCB-44/47/65	pg/L			-	1680 J	-	1090 J	-	549	-	2290	-	316
PCB-045	70362-45-7	pg/L	64	14000	-	302 J	-	146 JN	-	72.2 JN	-	321	-	25.4 J
PCB-046	41464-47-5	pg/L	64	14000	-	124 J	-	80.7 J	-	45.4	-	172	-	26.5
PCB-048	70362-47-9	pg/L	64	14000	-	184 J	-	84.4 J	-	36.8 JN	-	175	-	18.4
PCB-049/069	PCB-49/69	pg/L			-	1010 J	-	643 J	-	342	-	1450	-	212
PCB-050/053	PCB-50/53	pg/L			-	610	-	464	-	273	-	827	-	186
PCB-051	68194-04-7	pg/L	64	14000	-	107 J	-	71.1 JN	-	35.3 JN	-	188 J	-	26.4
PCB-052	35693-99-3	pg/L	64	14000	-	1350 J	-	863 J	-	478	-	1760	-	321
PCB-054	15968-05-5	pg/L	64	14000	-	37.2	-	35.7 JN	-	20 JN	-	50.3	-	12.4 JN
PCB-055	74338-24-2	pg/L	64	14000	-	24.2	-	12.2	-	< 4.36 U	-	20.2	-	< 4.14 U
PCB-056	41464-43-1	pg/L	64	14000	-	296 J	-	138 J	-	53.8	-	398	-	25.5
PCB-057	70424-67-8	pg/L	64	14000	-	15.8	-	9.55 JN	-	4.88 JN	-	18.1	-	< 4.56 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 6.19 U	-	< 6.15 U	-	< 4.21 U	-	< 4.88 U	-	< 4.1 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	182 J	-	105 J	-	46.6	-	217	-	20.9 JN
PCB-060	33025-41-1	pg/L	64	14000	-	166 J	-	75.3 J	-	25.5 JN	-	229 J	-	8.93 J
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	995 J	-	532 J	-	241	-	1300	-	126
PCB-063	74472-34-7	pg/L	64	14000	-	64.9 J	-	37.2 J	-	16.5 JN	-	99.3	-	7.1 JN
PCB-064	52663-58-8	pg/L	64	14000	-	559 J	-	334 J	-	145	-	739	-	64.7
PCB-066	32598-10-0	pg/L	64	14000	-	729 J	-	374 J	-	159 J	-	998 J	-	91.4
PCB-067	73575-53-8	pg/L	64	14000	-	30.4	-	13.4	-	7.43 J	-	38.5	-	< 3.9 U
PCB-068	73575-52-7	pg/L	64	14000	-	21	-	11.7 JN	-	8.67 J	-	28.2	-	6.84 JN
PCB-072	41464-42-0	pg/L	64	14000	-	20.9	-	15.9 JN	-	11.7	-	37	-	6.66 JN
PCB-073	74338-23-1	pg/L	64	14000	-	24.8	-	17.9 JN	-	11.9 JN	-	35.4	-	8.01 J
PCB-077	32598-13-3	pg/L	64	14000	-	70 J	-	31.7 JN	-	15.8 JN	-	129	-	8.84 J
PCB-078	70362-49-1	pg/L	64	14000	-	< 6.95 U	-	< 6.9 U	-	< 4.76 U	-	< 5.52 U	-	< 4.48 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 5.87 U	-	< 5.83 U	-	< 3.99 U	-	< 4.63 U	-	< 3.92 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 6.6 U	-	< 6.55 U	-	< 4.41 U	-	< 5.12 U	-	< 4.24 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 6.8 U	-	< 6.75 U	-	< 4.61 U	-	< 5.34 U	-	< 4.29 U
PCB-082	52663-62-4	pg/L	64	14000	-	55.4 JN	-	38.1	-	19.6	-	89.8	-	16 JN
PCB-083	60145-20-2	pg/L	64	14000	-	41.2 JN	-	24.9 JN	-	13.9 JN	-	56.1 J	-	13.6 JN
PCB-084	52663-60-2	pg/L	64	14000	-	183 J	-	105 J	-	65.9 J	-	240 J	-	72.2

Table 17
Surface Water Analytical Results
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					Location	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0063-PLW	23B-0063-PLW	23B-0064-PLW	23B-0064-PLW	23B-0065-PLW	23B-0065-PLW
					Sample Name	23B-0062-PLW-AS-F	23B-0062-PLW-AS-T	23B-0062-PLW-AT-F	23B-0062-PLW-AT-T	23B-0063-PLW-AS-F	23B-0063-PLW-AS-T	23B-0064-PLW-AS-F	23B-0064-PLW-AS-T	23B-0065-PLW-AS-F	23B-0065-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	FD	FD	N	N	N	N	N	N
					Depth Interval	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.4 - 0.4 ft	0.4 - 0.4 ft	2.75 - 2.75 ft	2.75 - 2.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	93.1	-	56.8	-	32.2	-	136	-	34.4
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	307 J	-	174 J	-	122	-	434	-	136
PCB-088	55215-17-3	pg/L	64	14000	-	< 15 U	-	< 10.2 U	-	< 7.12 U	-	< 7.12 U	-	< 6.29 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 13.2 U	-	< 9 U	-	< 6.16 U	-	15.3	-	< 5.81 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	385 J	-	235 J	-	192	-	581	-	241
PCB-091	68194-05-8	pg/L	64	14000	-	135 J	-	90.3 J	-	47.9 J	-	188 J	-	49.3
PCB-092	52663-61-3	pg/L	64	14000	-	118 J	-	86.4 J	-	60.5 J	-	185 J	-	67.4
PCB-093/100	PCB-93/100	pg/L			-	< 14.2 U	-	17.4 J	-	< 6.51 U	-	30.2	-	9.83 JN
PCB-094	73575-55-0	pg/L	64	14000	-	< 15.5 U	-	< 10.5 U	-	6.49 J	-	18.9	-	7.56 J
PCB-095	38379-99-6	pg/L	64	14000	-	425 J	-	288 J	-	207 J	-	585 J	-	216
PCB-096	73575-54-9	pg/L	64	14000	-	12.1	-	9.89	-	4.48 JN	-	17.2	-	< 2.45 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 12.2 U	-	< 8.29 U	-	< 5.38 U	-	6.92 J	-	< 4.94 U
PCB-099	38380-01-7	pg/L	64	14000	-	168 J	-	108 J	-	87 J	-	309 J	-	87.7
PCB-102	68194-06-9	pg/L	64	14000	-	38 J	-	22.9 J	-	15 J	-	51 J	-	8.46 J
PCB-103	60145-21-3	pg/L	64	14000	-	13.7 JN	-	7.4 JN	-	< 6.13 U	-	14.2 JN	-	< 5.62 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 3.71 U	-	< 3.49 U	-	< 2.38 U	-	< 2.8 U	-	< 2.12 U
PCB-105	32598-14-4	pg/L	64	14000	-	124 J	-	62.1 JN	-	35.9 JN	-	218 J	-	35.6 J
PCB-106	70424-69-0	pg/L	64	14000	-	< 9.19 U	-	< 6.25 U	-	< 4.21 U	-	< 4.21 U	-	< 3.87 U
PCB-107	70424-68-9	pg/L	64	14000	-	21.8 JN	-	14.1	-	7.99 JN	-	40.7	-	11.3
PCB-108/124	PCB-108/124	pg/L			-	13.1 JN	-	< 6.82 U	-	5.65 JN	-	23.3	-	< 4.34 U
PCB-110	38380-03-9	pg/L	64	14000	-	443 J	-	283 J	-	237 J	-	828 J	-	272
PCB-111	39635-32-0	pg/L	64	14000	-	< 9.81 U	-	< 6.68 U	-	< 4.53 U	-	< 4.52 U	-	< 4.26 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 8.64 U	-	2.77 JN	-	< 3.89 U	-	5.56 J	-	< 3.56 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 8.94 U	-	< 5.97 U	-	< 4.41 U	-	13	-	< 4.37 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 8.09 U	-	3.43 JN	-	2.74 JN	-	< 3.61 U	-	< 3.33 U
PCB-117	68194-11-6	pg/L	64	14000	-	25.2 JN	-	16.7 JN	-	8.35 JN	-	45.9	-	6.75 JN
PCB-118	31508-00-6	pg/L	64	14000	-	238 J	-	133 J	-	126 J	-	419 J	-	127
PCB-120	68194-12-7	pg/L	64	14000	-	< 8.08 U	-	< 5.5 U	-	< 3.76 U	-	< 3.75 U	-	< 3.48 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 8.99 U	-	< 6.12 U	-	< 4.16 U	-	< 4.16 U	-	< 3.82 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 11.2 U	-	< 7.45 U	-	< 5.61 U	-	8.11 JN	-	< 5.65 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 9.09 U	-	< 6.19 U	-	< 4.27 U	-	16.7	-	5.01 JN
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 7.64 U	-	< 5.58 U	-	< 3.2 U	-	< 4.17 U	-	< 2.98 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 9.27 U	-	< 6.27 U	-	< 4.86 U	-	< 5.01 U	-	< 4.23 U
PCB-128/166	PCB-128/166	pg/L			-	33.2 J	-	19.7 JN	-	24 J	-	70.9 J	-	41.9
PCB-129/138/163	PCB-129/138/163	pg/L			-	195 J	-	145 J	-	165 J	-	450 J	-	242
PCB-130	52663-66-8	pg/L	64	14000	-	11.2 JN	-	< 4.09 UJ	-	12.7 J	-	31.2 JN	-	14.5
PCB-131	61798-70-7	pg/L	64	14000	-	< 3.82 U	-	< 3.76 U	-	2.63 JN	-	4.91 JN	-	< 2.67 U
PCB-132	38380-05-1	pg/L	64	14000	-	59.3 J	-	45 JN	-	43.7 JN	-	139 J	-	68.3 JN
PCB-133	35694-04-3	pg/L	64	14000	-	< 3.38 U	-	< 3.33 U	-	< 2.46 U	-	7.88 JN	-	6.48 J
PCB-134	52704-70-8	pg/L	64	14000	-	10.3 JN	-	9.22 J	-	7.53 JN	-	28.2 J	-	13.9
PCB-135/151	PCB-135/151	pg/L			-	53.7 J	-	39.5 J	-	43.6 JN	-	109 J	-	57.8
PCB-136	38411-22-2	pg/L	64	14000	-	31.5	-	18.5 JN	-	19.6	-	54.9	-	28.6 JN
PCB-137	35694-06-5	pg/L	64	14000	-	8.99 JN	-	< 3.6 U	-	6.98 JN	-	29	-	15.6
PCB-139/140	PCB-139/140	pg/L			-	< 3.41 U	-	< 3.36 U	-	< 2.48 U	-	9.52 JN	-	< 2.45 U
PCB-141	52712-04-6	pg/L	64	14000	-	32.4 J	-	19.1 J	-	18.9 J	-	57.2 J	-	27.9
PCB-142	41411-61-4	pg/L	64	14000	-	< 3.85 U	-	< 3.79 U	-	< 2.83 U	-	< 1.89 U	-	< 2.73 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 3.69 U	-	< 3.63 U	-	< 2.64 U	-	< 1.76 U	-	< 2.61 U
PCB-144	68194-14-9	pg/L	64	14000	-	6.35 J	-	< 3.52 U	-	6.59 JN	-	11.1 JN	-	5.18 JN
PCB-145	74472-40-5	pg/L	64	14000	-	< 2.16 U	-	< 2.51 U	-	< 1.89 U	-	< 1.35 U	-	< 1.91 U
PCB-146	51908-16-8	pg/L	64	14000	-	23.7 JN	-	15.3 J	-	19.3 J	-	43.2 J	-	29.8
PCB-147/149	PCB-147/149	pg/L			-	133 J	-	97.9 J	-	98.1 J	-	264 J	-	155
PCB-148	74472-41-6	pg/L	64	14000	-	< 3.54 U	-	< 3.48 U	-	< 2.56 U	-	< 1.71 U	-	< 2.53 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 2.25 U	-	< 2.61 U	-	< 1.95 U	-	< 1.39 U	-	< 1.98 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 2.04 U	-	< 2.37 U	-	< 1.82 U	-	< 1.3 U	-	< 1.87 U
PCB-153/168	PCB-153/168	pg/L			-	136 J	-	93.1 J	-	105 J	-	261 J	-	154
PCB-154	60145-22-4	pg/L	64	14000	-	< 3.25 U	-	< 3.19 U	-	< 2.36 U	-	7.74 J	-	3.07 JN

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0063-PLW	23B-0063-PLW	23B-0064-PLW	23B-0064-PLW	23B-0065-PLW	23B-0065-PLW
					Sample Name	23B-0062-PLW-AS-F	23B-0062-PLW-AS-T	23B-0062-PLW-AT-F	23B-0062-PLW-AT-T	23B-0063-PLW-AS-F	23B-0063-PLW-AS-T	23B-0064-PLW-AS-F	23B-0064-PLW-AS-T	23B-0065-PLW-AS-F	23B-0065-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	FD	FD	N	N	N	N	N	N
					Depth Interval	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.4 - 0.4 ft	0.4 - 0.4 ft	2.75 - 2.75 ft	2.75 - 2.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 1.96 U	-	< 2.27 U	-	< 1.72 U	-	< 1.22 U	-	< 1.71 U
PCB-156/157	PCB-156/157	pg/L			-	23.8	-	12.9 JN	-	13.8 J	-	42.5 JN	-	20.1 JN
PCB-158	74472-42-7	pg/L	64	14000	-	14.1 JN	-	15.7 JN	-	12.7 JN	-	41 J	-	19.7 J
PCB-159	39635-35-3	pg/L	64	14000	-	< 4.07 U	-	< 3.79 U	-	< 2.85 U	-	< 3.29 U	-	< 3.06 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 2.89 U	-	< 2.84 U	-	< 2.1 U	-	< 1.4 U	-	< 1.99 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 2.53 U	-	< 2.49 U	-	< 1.85 U	-	< 1.23 U	-	< 1.74 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 4.85 U	-	< 4.52 U	-	< 3.41 U	-	< 3.94 U	-	< 3.57 U
PCB-164	74472-45-0	pg/L	64	14000	-	10.5 JN	-	8.78 J	-	8.09 J	-	23.3	-	12.3 JN
PCB-165	74472-46-1	pg/L	64	14000	-	< 2.94 U	-	< 2.9 U	-	< 2.16 U	-	< 1.44 U	-	< 2.12 U
PCB-167	52663-72-6	pg/L	64	14000	-	8.71 JN	-	4.02 JN	-	5.91 JN	-	16.4	-	9.05 J
PCB-169	32774-16-6	pg/L	4	14000	-	< 7.51 U	-	< 6.27 U	-	< 5.62 U	-	< 5.92 U	-	< 3.82 U
PCB-170	35065-30-6	pg/L	64	14000	-	26.7 JN	-	15.8 J	-	20.9 J	-	66.1 J	-	23.1
PCB-171/173	PCB-171/173	pg/L			-	10.5 JN	-	< 9.25 U	-	< 7.64 U	-	21.1	-	9.05 J
PCB-172	52663-74-8	pg/L	64	14000	-	< 9.89 U	-	< 8.68 U	-	< 7.29 U	-	10.8	-	< 6.05 U
PCB-174	38411-25-5	pg/L	64	14000	-	26.2 J	-	< 8.02 UJ	-	16	-	43	-	20.8 J
PCB-175	40186-70-7	pg/L	64	14000	-	< 10.2 U	-	< 8.95 U	-	< 7.4 U	-	< 6.68 U	-	< 6.24 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 5.53 U	-	< 6.15 U	-	< 3.43 U	-	6.53 JN	-	3.95 J
PCB-177	52663-70-4	pg/L	64	14000	-	17.1 J	-	< 8.27 UJ	-	< 6.95 UJ	-	30.1 J	-	11.9
PCB-178	52663-67-9	pg/L	64	14000	-	8.42 JN	-	6.16 JN	-	< 4.28 U	-	11.2	-	< 4.08 U
PCB-179	52663-64-6	pg/L	64	14000	-	8.87 JN	-	6.24 JN	-	8.06 J	-	17.7 JN	-	9.42 J
PCB-180/193	PCB-180/193	pg/L			-	58.5 J	-	29.2 J	-	36.3 J	-	105 J	-	53.1 J
PCB-181	74472-47-2	pg/L	64	14000	-	< 8.9 U	-	< 7.81 U	-	< 6.5 U	-	< 5.87 U	-	< 5.52 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 8.49 U	-	< 7.46 U	-	< 6.13 U	-	< 5.53 U	-	< 5.11 U
PCB-183	52663-69-1	pg/L	64	14000	-	18.4 J	-	< 8.37 UJ	-	9.39 J	-	24.3 JN	-	12 JN
PCB-184	74472-48-3	pg/L	64	14000	-	< 5.18 U	-	< 5.77 U	-	< 3.24 U	-	< 3.14 U	-	< 2.93 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 10.3 U	-	< 9.02 U	-	< 8.13 U	-	< 7.34 U	-	1.14 JN
PCB-186	74472-49-4	pg/L	64	14000	-	< 4.59 U	-	< 5.11 U	-	< 2.89 U	-	< 2.8 U	-	< 2.68 U
PCB-187	52663-68-0	pg/L	64	14000	-	34.1	-	14.6 JN	-	16.4 JN	-	54	-	26.6 J
PCB-188	74487-85-7	pg/L	64	14000	-	< 4.74 U	-	< 5.27 U	-	< 3.1 U	-	< 3 U	-	< 2.95 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 8.55 U	-	< 5.99 U	-	< 3.63 U	-	< 3.67 U	-	< 3.44 U
PCB-190	41411-64-7	pg/L	64	14000	-	8.67 J	-	< 7.71 U	-	< 5.19 U	-	13.1	-	4.25 JN
PCB-191	74472-50-7	pg/L	64	14000	-	< 7.93 U	-	< 6.97 U	-	< 5.83 U	-	< 5.26 U	-	< 4.67 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 6.95 U	-	< 6.11 U	-	< 5.14 U	-	< 4.64 U	-	< 4.15 U
PCB-194	35694-08-7	pg/L	64	14000	-	13	-	< 5.44 U	-	5.69 JN	-	21.3 JN	-	4.71 JN
PCB-195	52663-78-2	pg/L	64	14000	-	< 5.79 U	-	< 5.83 U	-	2.49 JN	-	9.31 J	-	< 2.39 U
PCB-196	42740-50-1	pg/L	64	14000	-	5.51 J	-	< 3.31 U	-	2.19 JN	-	10.8 JN	-	< 4.46 U
PCB-197	33091-17-7	pg/L	64	14000	-	< 3.06 U	-	< 2.6 U	-	< 1.32 U	-	< 2.32 U	-	< 3.4 U
PCB-198/199	PCB-198/199	pg/L			-	15.1 JN	-	7.69 JN	-	7.91 JN	-	25.9 JN	-	9.24 JN
PCB-200	52663-73-7	pg/L	64	14000	-	4.92 JN	-	< 2.64 U	-	< 1.34 U	-	2.33 JN	-	< 3.53 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 3.27 U	-	< 2.79 U	-	1.76 J	-	3.59 JN	-	< 3.77 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 2.68 U	-	< 2.28 U	-	0.758 JN	-	3.57 JN	-	< 2.98 U
PCB-203	52663-76-0	pg/L	64	14000	-	11 JN	-	5.8 J	-	4.95 J	-	23.6	-	6.77 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 2.85 U	-	< 2.43 U	-	< 1.23 U	-	< 2.17 U	-	< 3.27 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 4.73 U	-	< 4.77 U	-	< 2.86 U	-	< 3.01 U	-	< 1.9 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 20.2 UJ	-	< 19.42 UJ	-	< 19.04 UJ	-	21.9 JN	-	12.1 JN
PCB-207	52663-79-3	pg/L	64	14000	-	< 9.99 U	-	< 8.39 U	-	< 5.15 U	-	< 6.06 U	-	< 6.22 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 8.86 U	-	< 7.45 U	-	< 4.56 U	-	6.83 JN	-	< 5.37 U
PCB-209	2051-24-3	pg/L	64	14000	-	8.12 J	-	5.37 JN	-	5.61 JN	-	21.2	-	12.5
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	8.12	-	5.37	-	5.61	-	21.2	-	12.5
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	217	-	72.0	-	107	-	403	-	175
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	792	-	544	-	614	-	1700	-	925
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	49.5	-	13.5	-	25.7	-	100	-	20.7
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	34600	-	23400	-	12500	-	40400	-	6750
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	2840	-	1780	-	1300	-	4580	-	1420
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	7490	-	6500	-	3170	-	6880	-	1090
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	192	-	118	-	43.2	-	218	-	19.5
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 20.2 U	-	< 19.42 U	-	< 19.04 U	-	28.7	-	12.1
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	9770	-	5830	-	2900	-	13000	-	1670
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	13200	-	8550	-	4330	-	13500	-	1420

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0063-PLW	23B-0063-PLW	23B-0064-PLW	23B-0064-PLW	23B-0065-PLW	23B-0065-PLW
					Sample Name	23B-0062-PLW-AS-F	23B-0062-PLW-AS-T	23B-0062-PLW-AT-F	23B-0062-PLW-AT-T	23B-0063-PLW-AS-F	23B-0063-PLW-AS-T	23B-0064-PLW-AS-F	23B-0064-PLW-AS-T	23B-0065-PLW-AS-F	23B-0065-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	FD	FD	N	N	N	N	N	N
					Depth Interval	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.4 - 0.4 ft	0.4 - 0.4 ft	2.75 - 2.75 ft	2.75 - 2.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	31 J+	48	30 J+	49	30 J+	47	32 J+	290	38 J+	56	
Antimony	7440-36-0	ug/L	0.78	190	0.16 J	0.16 J	< 2.0 U	0.16 J	0.16 J	0.16 J	< 2.0 U	0.23 J	0.18 J	0.16 J	
Arsenic	7440-38-2	ug/L	0.018	150	0.41 J	0.40 J	0.36 J	0.54 J	0.31 J	0.26 J	0.43 J	0.89 J	0.57 J	0.40 J	
Barium	7440-39-3	ug/L	380	220	34	37	33	36	31	34	39	52	33	36	
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	
Calcium	7440-70-2	ug/L		116000	13000	14000	13000	14000	12000	13000	14000	14000	13000	14000	
Chromium, Total	7440-47-3	ug/L	100	44	0.78 J	< 2.0 U	0.74 J	< 2.0 U	0.78 J	< 2.0 U	0.69 J	2.7	460	< 2.0 U	
Cobalt	7440-48-4	ug/L	0.6	19	0.20 J	0.24 J	0.18 J	0.22 J	0.17 J	0.19 J	0.43 J	0.77 J	5.8 J	0.19 J	
Copper	7440-50-8	ug/L	80	5	1.7 J	1.8 J	1.6 J	1.7 J	1.6 J	1.6 J	1.4 J	4.0	12	1.7 J	
Iron	7439-89-6	ug/L	1400	1000	690	1100	700	910	640	830	990	3000	2800	930	
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	1.6	< 1.0 U	1.3	< 1.0 U	1.3	< 1.0 U	7.3	1.2	1.4	
Magnesium	7439-95-4	ug/L		82000	3500	3500	3400	3500	3100	3200	3500	3500	3400	3500	
Manganese	7439-96-5	ug/L	43	93	130	150	130	120	90	97	290	390	140	110	
Nickel	7440-02-0	ug/L	39	27	0.85 J	< 1.0 U	0.80 J	1.0 J+	0.76 J	1.0 J+	0.82 J	1.5 J+	310 J	< 1.0 U	
Potassium	7440-09-7	ug/L		53000	2900	2900	2800	2900	2600	2700	2900	3000	2900	2900	
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	
Sodium	7440-23-5	ug/L		680000	58000	57000	56000	57000	53000	52000	61000	59000	57000	56000	
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	
Vanadium	7440-62-2	ug/L	8.6	27	0.49 J	0.61 J	0.44 J	0.65 J	0.48 J	0.62 J	0.56 J	1.8 J	2.6 J	0.73 J	
Zinc	7440-66-6	ug/L	600	11.8	8.4 J+	9.5 J+	9.2 J+	10 J+	5.7 J+	7.8 J+	6.0 J+	23 J+	11 J+	5.4 J+	
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	0.091 J	< 0.20 U	< 0.20 U	
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	4.1 J	-	< 10 U	-	< 10 U	
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	3.6	-	2.9	-	0.58	-	6.3	-	< 0.50 U	
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.87	-	< 0.50 U	
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	1.5	-	1.3	-	0.28 J	-	1.3	-	< 0.50 U	
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.22 J	-	< 0.50 U	
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
CHLOROETHANE	75-00-3	ug/L	830		-	0.33 J	-	< 0.50 U	-	< 0.50 U	-	0.28 J	-	< 0.50 U	
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0063-PLW	23B-0063-PLW	23B-0064-PLW	23B-0064-PLW	23B-0065-PLW	23B-0065-PLW
					Sample Name	23B-0062-PLW-AS-F	23B-0062-PLW-AS-T	23B-0062-PLW-AT-F	23B-0062-PLW-AT-T	23B-0063-PLW-AS-F	23B-0063-PLW-AS-T	23B-0064-PLW-AS-F	23B-0064-PLW-AS-T	23B-0065-PLW-AS-F	23B-0065-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	FD	FD	N	N	N	N	N	N
					Depth Interval	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.4 - 0.4 ft	0.4 - 0.4 ft	2.75 - 2.75 ft	2.75 - 2.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	0.71 J+	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	3.9	-	3.1	-	0.90	-	13	-	< 0.50 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Styrene	100-42-5	ug/L	100	32	-	< 0.50 R	-	< 0.50 R	-	< 0.50 R	-	< 0.50 U	-	< 0.50 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.15 J	-	< 0.50 U
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	1.2	-	< 0.50 U
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	0.49 J	-	< 0.50 U
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	0.76	-	0.58	-	0.23 J	-	1.5	-	< 0.50 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.1 UJ	-	< 5.1 U	-	< 5.0 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0063-PLW	23B-0063-PLW	23B-0064-PLW	23B-0064-PLW	23B-0065-PLW	23B-0065-PLW
					Sample Name	23B-0062-PLW-AS-F	23B-0062-PLW-AS-T	23B-0062-PLW-AT-F	23B-0062-PLW-AT-T	23B-0063-PLW-AS-F	23B-0063-PLW-AS-T	23B-0064-PLW-AS-F	23B-0064-PLW-AS-T	23B-0065-PLW-AS-F	23B-0065-PLW-AS-T
					Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
					Sample Type	N	N	FD	FD	N	N	N	N	N	N
					Depth Interval	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.4 - 0.4 ft	0.4 - 0.4 ft	2.75 - 2.75 ft	2.75 - 2.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.1 UJ	-	< 5.1 UJ	-	< 5.0 UJ
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.1 UJ	-	< 5.1 UJ	-	< 5.0 UJ
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	1.3 J	-	< 10 U	-	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.3 J	-	3.1 J	-	3.3 J	-	2.5	-	2.9
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	5.1 J	-	5.3 J	-	5.2 J	-	3.7	-	5.6
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.34 J	-	0.35 J	-	0.41 J	-	0.34 J	-	0.35 J
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.3	-	2.5	-	2.2	-	1.8	-	2.3
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.0	-	2.3	-	2.0	-	1.8	-	2.3
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	4.1	-	4.5	-	3.9	-	3.9	-	4.2
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.75 J	-	0.78 J	-	0.85 J	-	0.77 J	-	0.76 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	0.33 J
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	6.0	-	5.8	-	5.8	-	5.3	-	5.4
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	6.4	-	6.0	-	5.9	-	5.0	-	5.2
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.40 J	-	0.33 J	-	0.30 J	-	< 1.8 U	-	0.35 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	5.0 J	-	4.8 J	-	4.7 J	-	3.5	-	4.0
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0062-PLW	23B-0063-PLW	23B-0063-PLW	23B-0064-PLW	23B-0064-PLW	23B-0065-PLW	23B-0065-PLW
				Sample Name	23B-0062-PLW-AS-F	23B-0062-PLW-AS-T	23B-0062-PLW-AT-F	23B-0062-PLW-AT-T	23B-0063-PLW-AS-F	23B-0063-PLW-AS-T	23B-0064-PLW-AS-F	23B-0064-PLW-AS-T	23B-0065-PLW-AS-F	23B-0065-PLW-AS-T
				Sample Date	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/24/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
				Sample Type	N	N	FD	FD	N	N	N	N	N	N
				Depth Interval	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.5 - 0.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	0.4 - 0.4 ft	0.4 - 0.4 ft	2.75 - 2.75 ft	2.75 - 2.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.72	-	-	-	8.64	-	8.99	-	8.74
Oxidation-Reduction Potential	ORP	mv			-	108.4	-	-	-	128.3	-	118.2	-	158.5
pH	PH	su			-	6.71	-	-	-	6.61	-	6.8	-	6.77
Specific Conductance	SC	us/cm			-	408.1	-	-	-	410.8	-	411.3	-	407.5
Temperature	TEMP	deg c			-	12.1	-	-	-	12.2	-	13.9	-	12.8
Turbidity	TURB	NTU			-	0.87	-	-	-	0.83	-	0.94	-	1.11

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0067-PLW	23B-0067-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW
					Sample Name	23B-0066-PLW-AS-F	23B-0066-PLW-AS-T	23B-0066-PLW-BS-F	23B-0066-PLW-BS-T	23B-0067-PLW-AS-F	23B-0067-PLW-AS-T	23B-0068-PLW-AS-F	23B-0068-PLW-AS-T	23B-0068-PLW-BS-F	23B-0068-PLW-BS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.2 - 5.2 ft	5.2 - 5.2 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.0 U	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.050 U	-	< 0.050 UJ	-	< 0.050 UJ	-	< 0.050 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.4 U	-	1.53 JN	-	< 1.22 U	-	< 1.85 U	-	2.67 JN
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 0.902 U	-	< 0.953 U	-	< 1.21 U	-	< 1.09 U	-	< 1.15 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	2.06 J	-	2.23 J	-	< 2.05 U	-	< 1.95 U	-	< 1.97 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.06 U	-	< 0.945 U	-	< 0.985 U	-	< 0.991 U	-	< 0.729 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.43 U	-	< 1.47 U	-	< 2.09 U	-	< 1.88 U	-	< 1.87 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.04 U	-	< 0.863 U	-	< 0.862 U	-	< 0.901 U	-	< 0.758 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.54 U	-	< 1.48 U	-	< 2.14 U	-	< 1.83 U	-	< 2.01 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.21 U	-	< 1.11 U	-	< 1.13 U	-	< 1.12 U	-	< 0.867 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 0.945 UJ	-	< 1.02 UJ	-	< 1.54 UJ	-	< 1.16 U	-	< 1.3 UJ
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 0.895 U	-	< 0.813 U	-	< 1.12 U	-	< 1.18 U	-	< 0.768 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 0.765 U	-	1.18 JN	-	< 0.953 U	-	< 0.823 U	-	2.23 JN
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.1 U	-	< 0.971 U	-	< 1.01 U	-	< 1.09 U	-	< 0.79 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 0.904 U	-	< 0.709 U	-	< 1.17 U	-	< 1.04 U	-	< 0.759 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 10.1 UJ	-	< 9.6 UJ	-	< 9.9 UJ	-	< 9.5 UJ	-	< 9.5 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 0.788 U	-	< 0.97 U	-	< 0.854 U	-	< 0.886 U	-	< 0.923 U
OCDD	3268-87-9	pg/L	400	31	-	4.11 J+	-	4.34 J+	-	10.1 J+	-	7.59 J+	-	24.4 J
OCDF	39001-02-0	pg/L	400	31	-	< 1.28 U	-	< 1.71 U	-	< 1.65 U	-	< 1.52 U	-	3.3 JN
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.4 U	-	1.53	-	< 1.22 U	-	< 1.85 U	-	2.67
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 0.902 U	-	1.18 U	-	< 1.21 U	-	< 1.09 U	-	2.23 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	2.06 U	-	2.23 U	-	< 2.14 U	-	< 1.95 U	-	< 2.01 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.21 U	-	< 1.11 U	-	< 1.13 U	-	< 1.12 U	-	< 0.867 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 0.945 U	-	< 1.02 U	-	< 1.54 U	-	< 1.16 U	-	< 1.3 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 0.904 U	-	< 0.813 U	-	< 1.17 U	-	< 1.18 U	-	< 0.768 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 10.1 U	-	< 9.6 U	-	< 9.9 U	-	< 9.5 U	-	< 9.5 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 0.788 U	-	< 0.97 U	-	< 0.854 U	-	< 0.886 U	-	< 0.923 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	33.3	-	184	-	394	-	46.3	-	96.9
PCB-002	2051-61-8	pg/L	64	14000	-	< 5.09 U	-	< 2.85 U	-	< 3.76 U	-	< 3.75 U	-	< 4.01 U
PCB-003	2051-62-9	pg/L	64	14000	-	9.81 J	-	12.2 J	-	111 J	-	16.9 J	-	37.3 JN
PCB-004	13029-08-8	pg/L	64	14000	-	2170 J	-	2690 J	-	1210 J	-	820 J	-	1130 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 6.93 U	-	< 5.18 U	-	< 7.44 U	-	< 9.21 U	-	< 7.83 U
PCB-006	25569-80-6	pg/L	64	14000	-	< 5.7 UJ	-	30.1 JN	-	40 JN	-	13.9 JN	-	44.5 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 6.5 U	-	< 4.91 U	-	< 6.98 U	-	< 8.65 U	-	7.11 JN
PCB-008	34883-43-7	pg/L	64	14000	-	22.4 JN	-	130	-	252	-	72.2 JN	-	143 JN
PCB-009	34883-39-1	pg/L	64	14000	-	< 5.96 U	-	6.52 JN	-	< 6.39 U	-	< 7.92 U	-	< 6.73 U
PCB-010	33146-45-1	pg/L	64	14000	-	481	-	479	-	2140	-	479	-	615

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0067-PLW	23B-0067-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW
					Sample Name	23B-0066-PLW-AS-F	23B-0066-PLW-AS-T	23B-0066-PLW-BS-F	23B-0066-PLW-BS-T	23B-0067-PLW-AS-F	23B-0067-PLW-AS-T	23B-0068-PLW-AS-F	23B-0068-PLW-AS-T	23B-0068-PLW-BS-F	23B-0068-PLW-BS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.2 - 5.2 ft	5.2 - 5.2 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	20.5 JN	-	428 J+	-	25.9 JN	-	16.6 JN	-	25.6 JN
PCB-012/013	PCB-12/13	pg/L			-	9.6 JN	-	21.4 JN	-	42.6 JN	-	17.5 JN	-	38.1 JN
PCB-014	34883-41-5	pg/L	64	14000	-	< 6.56 U	-	< 4.86 U	-	< 7.05 U	-	< 8.73 U	-	< 7.42 U
PCB-015	2050-68-2	pg/L	64	14000	-	278 J	-	258 J	-	928 J	-	446 J	-	863 J
PCB-016	38444-78-9	pg/L	64	14000	-	33.2	-	45.5	-	< 15.9 U	-	28.2 JN	-	40 JN
PCB-017	37680-66-3	pg/L	64	14000	-	369	-	458	-	654	-	331	-	579
PCB-018/030	PCB-18/30	pg/L			-	233	-	273	-	333	-	200	-	336
PCB-019	38444-73-4	pg/L	64	14000	-	796 J	-	807 J	-	3060 J	-	919 J	-	1390 J
PCB-020/028	PCB-20/28	pg/L			-	195	-	274	-	307	-	289	-	462
PCB-021/033	PCB-21/33	pg/L			-	< 20 U	-	18.2 JN	-	< 16.4 U	-	< 17.6 U	-	< 17.1 U
PCB-022	38444-85-8	pg/L	64	14000	-	< 18.2 U	-	14.8	-	< 15 U	-	18.8 JN	-	36.1
PCB-023	55720-44-0	pg/L	64	14000	-	< 21.1 U	-	< 11.1 U	-	< 17.3 U	-	< 18.6 U	-	< 18 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 14.4 U	-	< 8.54 U	-	< 11.3 U	-	3.82 JN	-	24.6
PCB-025	55712-37-3	pg/L	64	14000	-	98	-	122	-	130	-	71.3	-	183
PCB-026/029	PCB-26/29	pg/L			-	211	-	270	-	333	-	173	-	479
PCB-027	38444-76-7	pg/L	64	14000	-	352	-	381	-	1520	-	465	-	866
PCB-031	16606-02-3	pg/L	64	14000	-	210	-	278	-	332	-	171	-	344
PCB-032	38444-77-8	pg/L	64	14000	-	371	-	359	-	1240	-	478	-	1010
PCB-034	37680-68-5	pg/L	64	14000	-	< 20.9 U	-	< 11.3 U	-	< 17.2 U	-	< 18.5 U	-	< 17.9 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 19.2 U	-	< 10.3 U	-	< 15.8 U	-	< 17 U	-	< 16.4 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 17.2 U	-	< 9.01 U	-	< 14.2 U	-	< 15.2 U	-	< 14.7 U
PCB-037	38444-90-5	pg/L	64	14000	-	< 18.4 U	-	31.7	-	61.2	-	47.5	-	93
PCB-038	53555-66-1	pg/L	64	14000	-	< 19 U	-	< 10 U	-	< 15.6 U	-	< 16.8 U	-	< 16.2 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 19.1 U	-	< 10.1 U	-	< 15.7 U	-	< 16.8 U	-	< 16.3 U
PCB-040/071	PCB-40/71	pg/L			-	89.5	-	91.9	-	351	-	157	-	434
PCB-041	52663-59-9	pg/L	64	14000	-	< 11.2 U	-	9.49 JN	-	< 6.57 U	-	8.96 JN	-	< 9.07 U
PCB-042	36559-22-5	pg/L	64	14000	-	63	-	73.1	-	163	-	108	-	281
PCB-043	70362-46-8	pg/L	64	14000	-	13.9 JN	-	14 JN	-	48	-	18.5 JN	-	40
PCB-044/047/065	PCB-44/47/65	pg/L			-	389	-	433	-	1180	-	615	-	1390
PCB-045	70362-45-7	pg/L	64	14000	-	33 JN	-	42.1 J	-	91.9 J	-	33.1 JN	-	114 JN
PCB-046	41464-47-5	pg/L	64	14000	-	31.1	-	33.9	-	80.4	-	45.1	-	78.7 JN
PCB-048	70362-47-9	pg/L	64	14000	-	13.7 JN	-	20.4	-	29.8	-	27	-	33.5 JN
PCB-049/069	PCB-49/69	pg/L			-	254	-	286	-	870	-	384	-	947
PCB-050/053	PCB-50/53	pg/L			-	235	-	240	-	908	-	327	-	693
PCB-051	68194-04-7	pg/L	64	14000	-	53.3	-	52.6	-	193	-	79.9	-	161
PCB-052	35693-99-3	pg/L	64	14000	-	368	-	392	-	1030	-	528	-	1260
PCB-054	15968-05-5	pg/L	64	14000	-	18.6 JN	-	21.1 JN	-	86.9	-	19.7 JN	-	40.1 JN
PCB-055	74338-24-2	pg/L	64	14000	-	< 7.93 U	-	< 4.93 U	-	< 6.48 U	-	< 4.97 U	-	< 6.25 U
PCB-056	41464-43-1	pg/L	64	14000	-	26.5	-	24.8 JN	-	22.8	-	31.7	-	49.6 JN
PCB-057	70424-67-8	pg/L	64	14000	-	< 8.49 U	-	< 5.53 U	-	10.3	-	< 5.32 U	-	8.92 JN
PCB-058	41464-49-7	pg/L	64	14000	-	< 7.64 U	-	< 4.86 U	-	< 6.24 U	-	< 4.79 U	-	< 6.02 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	28.8 J	-	35.1	-	69.1	-	45	-	104
PCB-060	33025-41-1	pg/L	64	14000	-	< 9.77 UJ	-	8.55 JN	-	12.5 JN	-	14.3 JN	-	18.5 JN
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	112	-	143	-	193	-	197	-	361
PCB-063	74472-34-7	pg/L	64	14000	-	11 JN	-	19 J	-	63.2 J	-	22.8 J	-	43.3 J
PCB-064	52663-58-8	pg/L	64	14000	-	86.7	-	91.8	-	184	-	143	-	331
PCB-066	32598-10-0	pg/L	64	14000	-	75.4	-	91.9	-	146	-	132	-	262
PCB-067	73575-53-8	pg/L	64	14000	-	< 7.66 U	-	< 4.84 U	-	< 6.25 U	-	< 4.8 U	-	8.72 JN
PCB-068	73575-52-7	pg/L	64	14000	-	7.63 JN	-	9.94	-	33.9	-	13.2	-	21.6 JN
PCB-072	41464-42-0	pg/L	64	14000	-	< 8.41 U	-	9.75	-	37.9	-	10.8 JN	-	28.9
PCB-073	74338-23-1	pg/L	64	14000	-	11.9	-	12.7	-	39.2 JN	-	20.5	-	29.8
PCB-077	32598-13-3	pg/L	64	14000	-	< 9.65 U	-	10.4	-	15.7	-	13.7	-	31.4
PCB-078	70362-49-1	pg/L	64	14000	-	< 8.87 U	-	< 5.56 U	-	< 7.24 U	-	< 5.56 U	-	< 6.99 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 7.55 U	-	< 4.68 U	-	< 6.17 U	-	< 4.73 U	-	< 5.96 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 7.99 U	-	< 5.14 U	-	< 6.53 U	-	< 5.01 U	-	< 6.3 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 8.13 U	-	< 5.57 U	-	< 6.64 U	-	< 5.09 U	-	< 6.41 U
PCB-082	52663-62-4	pg/L	64	14000	-	< 9.9 U	-	< 8.89 U	-	14.2 JN	-	15 JN	-	21 JN
PCB-083	60145-20-2	pg/L	64	14000	-	12.8 JN	-	15.4 J	-	19.3 JN	-	< 12 UJ	-	38.4 J
PCB-084	52663-60-2	pg/L	64	14000	-	43.2 JN	-	51.5	-	92.7	-	57 JN	-	142

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0067-PLW	23B-0067-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW
					Sample Name	23B-0066-PLW-AS-F	23B-0066-PLW-AS-T	23B-0066-PLW-BS-F	23B-0066-PLW-BS-T	23B-0067-PLW-AS-F	23B-0067-PLW-AS-T	23B-0068-PLW-AS-F	23B-0068-PLW-AS-T	23B-0068-PLW-BS-F	23B-0068-PLW-BS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.2 - 5.2 ft	5.2 - 5.2 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	17 J	-	22.2 J	-	29.6 J	-	24.1 J	-	51.2 J
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	72.8	-	88.9	-	142	-	89.4 JN	-	182
PCB-088	55215-17-3	pg/L	64	14000	-	< 10.7 U	-	< 10.4 U	-	< 9.31 U	-	< 9.62 U	-	< 9.54 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 9.37 U	-	< 8.72 U	-	< 8.16 U	-	< 8.44 U	-	< 8.37 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	122	-	153	-	240	-	178	-	291
PCB-091	68194-05-8	pg/L	64	14000	-	35.1	-	39.7	-	108	-	59.2	-	117
PCB-092	52663-61-3	pg/L	64	14000	-	46.4 J	-	53 J	-	143 J	-	58 J	-	121 J
PCB-093/100	PCB-93/100	pg/L			-	< 10.8 U	-	< 9.4 U	-	29.3	-	< 9.7 U	-	22.5 JN
PCB-094	73575-55-0	pg/L	64	14000	-	< 11.2 U	-	< 10.2 U	-	21.3	-	< 10.1 U	-	12.3 JN
PCB-095	38379-99-6	pg/L	64	14000	-	140	-	150	-	232	-	178	-	328
PCB-096	73575-54-9	pg/L	64	14000	-	< 6.06 U	-	3.1 JN	-	< 4.43 U	-	6.26 JN	-	8.16 JN
PCB-098	60233-25-2	pg/L	64	14000	-	< 9 U	-	< 7.56 U	-	< 7.84 U	-	< 8.11 U	-	< 8.04 U
PCB-099	38380-01-7	pg/L	64	14000	-	40.3 JN	-	61.6	-	95.6	-	70.8	-	111 JN
PCB-102	68194-06-9	pg/L	64	14000	-	8.14 J	-	12.5 JN	-	25.3 J	-	9.68 JN	-	27 J
PCB-103	60145-21-3	pg/L	64	14000	-	< 9.41 U	-	< 8.84 U	-	12.9 JN	-	< 8.48 U	-	12.5 JN
PCB-104	56558-16-8	pg/L	64	14000	-	< 5.53 U	-	< 2.35 U	-	< 4.05 U	-	< 4.79 U	-	< 2.48 U
PCB-105	32598-14-4	pg/L	64	14000	-	14.5 JN	-	28.2	-	36.5	-	33.1	-	62
PCB-106	70424-69-0	pg/L	64	14000	-	< 6.82 U	-	< 6.19 U	-	< 5.95 U	-	< 6.15 U	-	< 6.1 U
PCB-107	70424-68-9	pg/L	64	14000	-	< 6.54 U	-	6.51 JN	-	14.2	-	8.58 JN	-	18.5
PCB-108/124	PCB-108/124	pg/L			-	< 7.41 U	-	< 6.75 U	-	< 6.46 U	-	< 6.68 U	-	< 6.62 U
PCB-110	38380-03-9	pg/L	64	14000	-	135	-	169	-	294	-	212	-	401
PCB-111	39635-32-0	pg/L	64	14000	-	< 7.29 U	-	< 6.59 U	-	< 6.35 U	-	< 6.57 U	-	< 6.51 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 6.18 U	-	< 5.71 U	-	< 5.39 U	-	< 5.57 U	-	< 5.52 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 6.3 U	-	< 7.25 U	-	< 5.82 U	-	< 5.91 U	-	< 6.49 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 5.89 U	-	< 5.28 U	-	< 5.13 U	-	< 5.3 U	-	< 5.26 U
PCB-117	68194-11-6	pg/L	64	14000	-	< 7.72 U	-	8.74 J	-	38.7	-	10.4 JN	-	28
PCB-118	31508-00-6	pg/L	64	14000	-	52.3	-	81	-	105	-	94.1	-	167
PCB-120	68194-12-7	pg/L	64	14000	-	< 6.05 U	-	< 5.51 U	-	< 5.27 U	-	< 5.45 U	-	< 5.4 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 6.69 U	-	< 5.96 U	-	< 5.83 U	-	< 6.03 U	-	< 5.98 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 8.2 U	-	< 9.2 U	-	< 7.58 U	-	< 7.69 U	-	< 8.45 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 6.94 U	-	< 6.19 U	-	< 6.05 U	-	< 6.25 U	-	< 6.2 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 6.88 U	-	< 3.87 U	-	< 5.68 U	-	< 4.21 U	-	< 3.58 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 6.76 U	-	< 6.48 U	-	< 5.87 U	-	< 6.84 U	-	< 6.74 U
PCB-128/166	PCB-128/166	pg/L			-	10.8 JN	-	20.1	-	31.4	-	17.9 J	-	31.9
PCB-129/138/163	PCB-129/138/163	pg/L			-	82.8 JN	-	115	-	186	-	151	-	204
PCB-130	52663-66-8	pg/L	64	14000	-	< 6.87 U	-	7.01 J	-	12.4 JN	-	7.7 JN	-	14.7 JN
PCB-131	61798-70-7	pg/L	64	14000	-	< 6.21 U	-	< 3.88 U	-	< 5.69 U	-	< 3.96 U	-	< 4.25 U
PCB-132	38380-05-1	pg/L	64	14000	-	26.4	-	34.5	-	59.8	-	40.4	-	71.2
PCB-133	35694-04-3	pg/L	64	14000	-	< 5.38 U	-	< 3.37 U	-	4.28 JN	-	< 3.43 U	-	6.09 J
PCB-134	52704-70-8	pg/L	64	14000	-	8.48 JN	-	< 4.44 U	-	11.2	-	12.5	-	< 4.7 U
PCB-135/151	PCB-135/151	pg/L			-	26.7	-	36.8	-	69.9	-	38.1	-	66.5
PCB-136	38411-22-2	pg/L	64	14000	-	11.6 JN	-	12.6 JN	-	22.2 J	-	9.41 JN	-	29.7 J
PCB-137	35694-06-5	pg/L	64	14000	-	< 6.23 U	-	< 3.83 U	-	14 JN	-	8.4 J	-	5.71 JN
PCB-139/140	PCB-139/140	pg/L			-	< 5.41 U	-	< 3.4 U	-	5.6 JN	-	< 3.45 U	-	< 3.7 U
PCB-141	52712-04-6	pg/L	64	14000	-	9.19 JN	-	11.2 JN	-	16.3 JN	-	20.3 JN	-	21.3 JN
PCB-142	41411-61-4	pg/L	64	14000	-	< 6.16 U	-	< 3.89 U	-	< 5.65 U	-	< 3.93 U	-	< 4.21 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 5.69 U	-	< 3.57 U	-	< 5.21 U	-	< 3.63 U	-	< 3.89 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 5.65 U	-	< 3.58 U	-	< 5.18 U	-	4.07 JN	-	< 3.86 U
PCB-145	74472-40-5	pg/L	64	14000	-	< 3.68 U	-	< 2.68 U	-	< 3.39 U	-	< 2.48 U	-	< 2.78 U
PCB-146	51908-16-8	pg/L	64	14000	-	13.1	-	11 JN	-	30.4	-	11.1 JN	-	32.6 JN
PCB-147/149	PCB-147/149	pg/L			-	58.6	-	66.5	-	144	-	89	-	147
PCB-148	74472-41-6	pg/L	64	14000	-	< 5.48 U	-	< 3.51 U	-	< 5.02 U	-	< 3.49 U	-	< 3.74 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 3.82 U	-	< 2.86 U	-	< 3.51 U	-	< 2.57 U	-	< 2.88 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 3.48 U	-	< 2.46 U	-	< 3.2 U	-	< 2.34 U	-	< 2.62 U
PCB-153/168	PCB-153/168	pg/L			-	61.4	-	77	-	126	-	86.2 JN	-	148
PCB-154	60145-22-4	pg/L	64	14000	-	< 5.15 U	-	< 3.26 U	-	7.03 J	-	< 3.28 U	-	5.95 JN

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0067-PLW	23B-0067-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW
					Sample Name	23B-0066-PLW-AS-F	23B-0066-PLW-AS-T	23B-0066-PLW-BS-F	23B-0066-PLW-BS-T	23B-0067-PLW-AS-F	23B-0067-PLW-AS-T	23B-0068-PLW-AS-F	23B-0068-PLW-AS-T	23B-0068-PLW-BS-F	23B-0068-PLW-BS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.2 - 5.2 ft	5.2 - 5.2 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 3.43 U	-	< 2.38 U	-	< 3.16 U	-	< 2.31 U	-	< 2.59 U
PCB-156/157	PCB-156/157	pg/L			-	6.64 J	-	12.2 J	-	12.2 J	-	10.9 J	-	19.7
PCB-158	74472-42-7	pg/L	64	14000	-	< 4.35 U	-	10.2	-	12.9 JN	-	12.7 JN	-	18.8
PCB-159	39635-35-3	pg/L	64	14000	-	< 4.05 U	-	< 4.38 U	-	< 3.1 U	-	< 2.69 U	-	< 3.56 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 4.67 U	-	< 2.89 U	-	< 4.27 U	-	< 2.97 U	-	< 3.19 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 4.03 U	-	< 2.52 U	-	< 3.69 U	-	< 2.57 U	-	< 2.75 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 4.68 U	-	< 5.27 U	-	< 3.58 U	-	< 3.1 U	-	< 4.11 U
PCB-164	74472-45-0	pg/L	64	14000	-	< 4.14 U	-	4.9 JN	-	7.01 J	-	7.97 J	-	12.3
PCB-165	74472-46-1	pg/L	64	14000	-	< 4.74 U	-	< 3.01 U	-	< 4.34 U	-	< 3.02 U	-	< 3.24 U
PCB-167	52663-72-6	pg/L	64	14000	-	< 4.49 U	-	< 5.18 U	-	< 3.43 U	-	3.65 JN	-	8.77 J
PCB-169	32774-16-6	pg/L	4	14000	-	< 7.9 U	-	< 5.87 U	-	< 7.12 U	-	< 4.86 U	-	< 6 U
PCB-170	35065-30-6	pg/L	64	14000	-	< 10.2 U	-	18.6	-	32.2	-	15.2 JN	-	28.9
PCB-171/173	PCB-171/173	pg/L			-	< 10.4 U	-	< 8.47 U	-	8.45 JN	-	< 8.56 U	-	12.7 J
PCB-172	52663-74-8	pg/L	64	14000	-	< 9.89 U	-	< 7.95 U	-	< 8.68 U	-	< 8.15 U	-	< 8.48 U
PCB-174	38411-25-5	pg/L	64	14000	-	< 8.86 U	-	12.9	-	25	-	11.4 JN	-	23.9
PCB-175	40186-70-7	pg/L	64	14000	-	< 9.81 U	-	< 8.05 U	-	< 8.61 U	-	< 8.09 U	-	< 8.41 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 4.63 U	-	< 3.68 U	-	< 4.72 U	-	< 3.41 U	-	< 3.89 U
PCB-177	52663-70-4	pg/L	64	14000	-	< 9.07 U	-	6.12 JN	-	20.6	-	7.42 JN	-	12.4 JN
PCB-178	52663-67-9	pg/L	64	14000	-	< 5.86 U	-	< 4.57 U	-	< 5.98 U	-	< 4.32 U	-	9.25 JN
PCB-179	52663-64-6	pg/L	64	14000	-	< 4.02 U	-	< 3.17 U	-	13 JN	-	< 2.96 U	-	10.5 JN
PCB-180/193	PCB-180/193	pg/L			-	22.3 JN	-	34.4 JN	-	66.9 J	-	38.9 J	-	63 J
PCB-181	74472-47-2	pg/L	64	14000	-	< 8.73 U	-	< 7.15 U	-	< 7.66 U	-	< 7.2 U	-	< 7.49 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 8.18 U	-	< 6.8 U	-	< 7.18 U	-	< 6.75 U	-	< 7.02 U
PCB-183	52663-69-1	pg/L	64	14000	-	< 8.86 U	-	7.94 JN	-	19.7	-	10.6 JN	-	18.2
PCB-184	74472-48-3	pg/L	64	14000	-	< 4.29 U	-	< 3.41 U	-	< 4.38 U	-	< 3.16 U	-	< 3.61 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 10.9 U	-	< 9 U	-	< 9.54 U	-	< 8.97 U	-	< 9.33 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 3.88 U	-	< 3.06 U	-	< 3.96 U	-	< 2.86 U	-	< 3.26 U
PCB-187	52663-68-0	pg/L	64	14000	-	11.7 J	-	12.6 JN	-	38.5 J	-	22.6 J	-	24.7 JN
PCB-188	74487-85-7	pg/L	64	14000	-	< 4.06 U	-	< 3.04 U	-	< 4.13 U	-	< 2.99 U	-	< 3.41 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 6.16 U	-	< 5.87 U	-	< 5.46 U	-	< 3.43 U	-	< 4.25 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 7.53 U	-	< 6.83 U	-	< 7.33 U	-	< 7.19 U	-	< 7.6 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 8.02 U	-	< 6.46 U	-	< 7.04 U	-	< 6.62 U	-	< 6.88 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 6.94 U	-	< 5.69 U	-	< 6.08 U	-	< 5.72 U	-	< 5.95 U
PCB-194	35694-08-7	pg/L	64	14000	-	5.94 JN	-	7.16 JN	-	15.9	-	< 4.3 U	-	16.3
PCB-195	52663-78-2	pg/L	64	14000	-	< 2.77 U	-	< 5.26 U	-	6.12 J	-	< 4.42 U	-	4.98 JN
PCB-196	42740-50-1	pg/L	64	14000	-	< 1.89 U	-	< 3.42 U	-	7.43 JN	-	3.46 JN	-	4.32 JN
PCB-197	33091-17-7	pg/L	64	14000	-	< 1.43 U	-	< 2.7 U	-	< 2.06 U	-	< 1.75 U	-	< 1.25 U
PCB-198/199	PCB-198/199	pg/L			-	4.69 J	-	9.56 JN	-	20.3	-	6.62 JN	-	14.2 JN
PCB-200	52663-73-7	pg/L	64	14000	-	< 1.43 U	-	< 2.69 U	-	< 2.05 U	-	< 1.75 U	-	< 1.25 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 1.51 U	-	< 2.87 U	-	< 2.18 U	-	< 1.86 U	-	1.98 JN
PCB-202	2136-99-4	pg/L	64	14000	-	< 1.25 U	-	< 2.35 U	-	2.63 JN	-	< 1.53 U	-	3.4 J
PCB-203	52663-76-0	pg/L	64	14000	-	< 1.56 U	-	4.51 JN	-	6.3 JN	-	4.11 J	-	5.47 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 1.31 U	-	< 2.47 U	-	< 1.89 U	-	< 1.61 U	-	< 1.15 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 2.32 U	-	< 4.18 U	-	< 3.27 U	-	< 3.69 U	-	< 2.58 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 20.2 UJ	-	< 19.2 UJ	-	11.7 JN	-	< 19.1 UJ	-	< 19.0 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 6.3 U	-	< 5.05 U	-	< 6.03 U	-	< 4.85 U	-	< 7.23 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 5.63 U	-	< 4.47 U	-	< 5.39 U	-	< 4.33 U	-	< 6.45 U
PCB-209	2051-24-3	pg/L	64	14000	-	< 3.15 U	-	6.67 J	-	9.42 J	-	< 2.57 U	-	10
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	< 3.15 U	-	6.67	-	9.42	-	< 2.57 U	-	10
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	34.0	-	92.6	-	224	-	106	-	204
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	316	-	419	-	773	-	531	-	844
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	10.6	-	21.2	-	58.7	-	14.2	-	50.6
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	8910	-	11200	-	21700	-	9870	-	18900
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	740	-	944	-	1690	-	1100	-	2160
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	2980	-	4040	-	4640	-	1870	-	2870
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	43.1	-	196	-	505	-	63.2	-	134
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 20.2 U	-	< 19.2 U	-	11.7	-	< 19.1 U	-	< 19 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1920	-	2170	-	5860	-	3000	-	6770
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	2870	-	3330	-	7970	-	3200	-	5840

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0067-PLW	23B-0067-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW
					Sample Name	23B-0066-PLW-AS-F	23B-0066-PLW-AS-T	23B-0066-PLW-BS-F	23B-0066-PLW-BS-T	23B-0067-PLW-AS-F	23B-0067-PLW-AS-T	23B-0068-PLW-AS-F	23B-0068-PLW-AS-T	23B-0068-PLW-BS-F	23B-0068-PLW-BS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.2 - 5.2 ft	5.2 - 5.2 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	57 J	74 J+	43 J	46 J+	30 J	70 J+	32 J	47 J+	28 J	63 J+
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150	0.46 J	0.44 J	0.45 J	0.50 J	0.43 J	0.51 J	0.47 J	0.51 J	0.42 J	0.59 J
Barium	7440-39-3	ug/L	380	220	41	41	38	39	37	41	41	40	38	41
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	17000	17000	16000	16000	15000	17000	17000	16000	16000	17000
Chromium, Total	7440-47-3	ug/L	100	44	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	3.0 J+	14 J+	< 2.0 U	< 2.0 U	38
Cobalt	7440-48-4	ug/L	0.6	19	0.24 J	< 1.0 U	0.23 J	< 1.0 U	0.22 J	< 1.0 U	0.36 J	< 1.0 U	0.24 J	< 1.0 U
Copper	7440-50-8	ug/L	80	5	1.4 J	1.5 J	1.2 J	1.4 J	1.3 J	1.8 J	2.0	1.4 J	1.2 J	2.0
Iron	7439-89-6	ug/L	1400	1000	1300	1500	910	1500	940	1800	870	1400	740	1600
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	1.2 J+	< 1.0 U	1.1 J+	< 1.0 U	1.7 J+	< 1.0 U	1.4 J+	< 1.0 U	1.4 J+
Magnesium	7439-95-4	ug/L		82000	4300	4400	4200	4200	4000	4300	4200	4100	4000	4200
Manganese	7439-96-5	ug/L	43	93	150	160	140	150	150	170	150	150	140	150
Nickel	7440-02-0	ug/L	39	27	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	3.2 J	11	< 1.0 UJ	< 1.0 UJ	16 J
Potassium	7440-09-7	ug/L		53000	3300	3300	3200	3200	3100	3300	3300	3200	3100	3200
Selenium	7782-49-2	ug/L	10	5	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	73000	73000	71000	70000	68000	71000	71000	70000	68000	70000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.72 J	< 5.0 U	0.54 J	< 5.0 U	0.49 J	< 5.0 U	0.57 J	< 5.0 U	0.49 J	< 5.0 U
Zinc	7440-66-6	ug/L	600	11.8	8.8	9.8 J	7.4 J+	8.2 J	11	13 J	35	8.8 J	11	11 J
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	< 0.50 U	-	0.13 J	-	0.13 J	-	0.12 J
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0067-PLW	23B-0067-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW
					Sample Name	23B-0066-PLW-AS-F	23B-0066-PLW-AS-T	23B-0066-PLW-BS-F	23B-0066-PLW-BS-T	23B-0067-PLW-AS-F	23B-0067-PLW-AS-T	23B-0068-PLW-AS-F	23B-0068-PLW-AS-T	23B-0068-PLW-BS-F	23B-0068-PLW-BS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.2 - 5.2 ft	5.2 - 5.2 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	1.7 J+	-	< 0.50 U	-	0.69 J+
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	0.10 J	-	0.11 J	-	0.10 J
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	0.50	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Styrene	100-42-5	ug/L	100	32	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TCL SVOCs														
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ	-	< 5.0 U
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0067-PLW	23B-0067-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW
					Sample Name	23B-0066-PLW-AS-F	23B-0066-PLW-AS-T	23B-0066-PLW-BS-F	23B-0066-PLW-BS-T	23B-0067-PLW-AS-F	23B-0067-PLW-AS-T	23B-0068-PLW-AS-F	23B-0068-PLW-AS-T	23B-0068-PLW-BS-F	23B-0068-PLW-BS-T
					Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.2 - 5.2 ft	5.2 - 5.2 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.0 J	-	2.5 J+	-	2.8 J	-	2.5 J+	-	3.1 J
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	4.1 J	-	3.8	-	3.7 J	-	4.3 J-	-	5.0 J
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.33 J	-	< 1.8 U	-	0.32 J	-	0.30 J	-	0.36 J
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.3	-	1.7 J	-	2.0	-	2.0	-	2.3
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.6	-	2.3	-	2.5	-	2.4	-	2.6
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	4.1	-	3.0	-	4.1	-	3.6	-	3.9
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.91 J	-	0.63 J	-	0.83 J	-	0.74 J	-	0.76 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	5.9	-	4.5	-	5.4	-	5.6	-	5.8
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.7	-	4.9	-	5.2	-	5.6	-	6.0
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.46 J	-	0.33 J+	-	0.45 J	-	0.30 J+	-	0.52 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.6 J	-	3.4	-	4.2 J	-	3.4	-	4.4 J
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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				Location	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0066-PLW	23B-0067-PLW	23B-0067-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW	23B-0068-PLW
				Sample Name	23B-0066-PLW-AS-F	23B-0066-PLW-AS-T	23B-0066-PLW-BS-F	23B-0066-PLW-BS-T	23B-0067-PLW-AS-F	23B-0067-PLW-AS-T	23B-0068-PLW-AS-F	23B-0068-PLW-AS-T	23B-0068-PLW-BS-F	23B-0068-PLW-BS-T
				Sample Date	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023	10/17/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 1 ft	1 - 1 ft	5.2 - 5.2 ft	5.2 - 5.2 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1 - 1 ft	1 - 1 ft	4.7 - 4.7 ft	4.7 - 4.7 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.7 U	-	< 1.8 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.72	-	8.81	-	8.71	-	8.9	-	8.85
Oxidation-Reduction Potential	ORP	mv			-	170.1	-	178.3	-	53.8	-	147.7	-	208.1
pH	PH	su			-	7.08	-	7.2	-	6.96	-	6.78	-	6.5
Specific Conductance	SC	us/cm			-	477.6	-	475.3	-	476.6	-	473.9	-	473
Temperature	TEMP	deg c			-	13.2	-	12.9	-	13	-	12.9	-	12.9
Turbidity	TURB	NTU			-	1.64	-	1.76	-	1.7	-	2.03	-	1.79

Table 17
Surface Water Analytical Results
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					Location	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0070-PLW	23B-0070-PLW	23B-0071-PLW	23B-0071-PLW	23B-0072-PLW	23B-0072-PLW
					Sample Name	23B-0069-PLW-AS-F	23B-0069-PLW-AS-T	23B-0069-PLW-BS-F	23B-0069-PLW-BS-T	23B-0070-PLW-AS-F	23B-0070-PLW-AS-T	23B-0071-PLW-AS-F	23B-0071-PLW-AS-T	23B-0072-PLW-AS-F	23B-0072-PLW-AS-T
					Sample Date	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.8 - 5.8 ft	5.8 - 5.8 ft	1.15 - 1.15 ft	1.15 - 1.15 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1.2 - 1.2 ft	1.2 - 1.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.050 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.050 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.050 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.050 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.050 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.050 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.050 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.51 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ	-	< 5.1 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.050 U	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.26 U	-	< 1.15 U	-	1.54 JN	-	< 1.78 U	-	< 1.43 U
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 0.772 U	-	< 0.767 U	-	< 0.665 U	-	< 1.49 U	-	< 1.23 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.67 U	-	< 1.73 U	-	< 1.51 U	-	< 2.24 U	-	< 1.66 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 0.832 U	-	< 0.937 U	-	< 0.824 U	-	< 1.17 U	-	< 0.866 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.77 U	-	< 1.82 U	-	< 1.51 U	-	< 2.22 U	-	< 1.82 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 0.741 U	-	< 0.819 U	-	< 0.775 U	-	< 1.17 U	-	< 0.85 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.72 U	-	< 1.69 U	-	< 1.5 U	-	< 2.27 U	-	< 1.6 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 0.877 U	-	< 1.05 U	-	< 0.957 U	-	< 1.58 U	-	< 1.09 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.05 UJ	-	< 0.752 U	-	< 1.08 U	-	< 1.96 U	-	< 2.22 U
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.02 U	-	< 1.16 U	-	< 0.944 U	-	< 1.1 U	-	< 1.15 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 0.669 U	-	< 0.556 U	-	0.794 JN	-	< 1.1 U	-	< 0.885 U
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 0.798 U	-	< 0.887 U	-	< 0.794 U	-	< 1.29 U	-	< 0.965 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.06 U	-	< 1.04 U	-	< 0.804 U	-	< 1.11 U	-	< 1.28 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.6 UJ	-	< 9.5 UJ	-	< 9.6 UJ	-	< 9.9 UJ	-	< 10.1 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 0.875 U	-	< 0.768 U	-	< 0.926 U	-	< 1.28 U	-	< 1.07 U
OCDD	3268-87-9	pg/L	400	31	-	4.56 J+	-	5.91 J+	-	6.22 J+	-	< 3.21 U	-	10 J
OCDF	39001-02-0	pg/L	400	31	-	< 1.11 U	-	< 0.881 U	-	< 1.17 U	-	< 3.12 U	-	< 3.59 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.26 U	-	< 1.15 U	-	1.54	-	< 1.78 U	-	< 1.43 U
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 0.772 U	-	< 0.767 U	-	0.794	-	< 1.49 U	-	< 1.23 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 1.77 U	-	< 1.82 U	-	< 1.51 U	-	< 2.27 U	-	< 1.82 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 0.877 U	-	< 1.05 U	-	< 0.957 U	-	< 1.58 U	-	< 1.09 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.05 U	-	< 0.752 U	-	< 1.08 U	-	< 1.96 U	-	< 2.22 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.06 U	-	< 1.16 U	-	< 0.944 U	-	< 1.11 U	-	< 1.28 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.6 U	-	< 9.5 U	-	< 9.6 U	-	< 9.9 U	-	< 10.1 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 0.875 U	-	< 0.768 U	-	< 0.926 U	-	< 1.28 U	-	< 1.07 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	96.6	-	31.2	-	38.5	-	33.5 J+	-	12 J+
PCB-002	2051-61-8	pg/L	64	14000	-	< 4.4 U	-	< 4.7 U	-	< 4.17 U	-	< 3.27 U	-	< 3.21 U
PCB-003	2051-62-9	pg/L	64	14000	-	37 J	-	< 4.82 UJ	-	10.9 JN	-	11.4 J+	-	5.84 JN
PCB-004	13029-08-8	pg/L	64	14000	-	2510 J	-	2670 J	-	2920 J	-	172 JN	-	87.5 JN
PCB-005	16605-91-7	pg/L	64	14000	-	< 4.98 U	-	< 10.4 U	-	< 10.3 U	-	< 12.3 U	-	< 3.99 U
PCB-006	25569-80-6	pg/L	64	14000	-	21.9 JN	-	8.46 JN	-	12.3 JN	-	11.9 JN	-	5.26 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 4.75 U	-	< 9.89 U	-	< 9.71 U	-	< 11.8 U	-	< 3.83 U
PCB-008	34883-43-7	pg/L	64	14000	-	90 JN	-	27.1 JN	-	38.7 JN	-	79.3 J+	-	31.5 J+
PCB-009	34883-39-1	pg/L	64	14000	-	< 4.26 U	-	< 8.87 U	-	< 8.9 U	-	< 10.6 U	-	4.2 JN
PCB-010	33146-45-1	pg/L	64	14000	-	511	-	512	-	626	-	55.1 JN	-	22 JN

Table 17
Surface Water Analytical Results
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					Location	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0070-PLW	23B-0070-PLW	23B-0071-PLW	23B-0071-PLW	23B-0072-PLW	23B-0072-PLW
					Sample Name	23B-0069-PLW-AS-F	23B-0069-PLW-AS-T	23B-0069-PLW-BS-F	23B-0069-PLW-BS-T	23B-0070-PLW-AS-F	23B-0070-PLW-AS-T	23B-0071-PLW-AS-F	23B-0071-PLW-AS-T	23B-0072-PLW-AS-F	23B-0072-PLW-AS-T
					Sample Date	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.8 - 5.8 ft	5.8 - 5.8 ft	1.15 - 1.15 ft	1.15 - 1.15 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1.2 - 1.2 ft	1.2 - 1.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	23 JN	-	23.8 JN	-	17.9 JN	-	314 J	-	< 229 UJ
PCB-012/013	PCB-12/13	pg/L			-	22.2 JN	-	12 JN	-	10.8 JN	-	< 11.7 U	-	< 3.8 U
PCB-014	34883-41-5	pg/L	64	14000	-	< 4.63 U	-	< 9.63 U	-	< 9.81 U	-	< 11.8 U	-	< 3.81 U
PCB-015	2050-68-2	pg/L	64	14000	-	396 J	-	303 J	-	385 J	-	34.7 JN	-	15 JN
PCB-016	38444-78-9	pg/L	64	14000	-	< 17.7 U	-	46	-	34.2 JN	-	< 9.9 U	-	< 9.4 U
PCB-017	37680-66-3	pg/L	64	14000	-	431	-	400	-	448	-	49.6 J	-	27.6 J
PCB-018/030	PCB-18/30	pg/L			-	256	-	240	-	247	-	27.1 J+	-	18.1 J+
PCB-019	38444-73-4	pg/L	64	14000	-	852 J	-	772 J	-	929 J	-	87.6 J	-	43.7 J
PCB-020/028	PCB-20/28	pg/L			-	246	-	225	-	219	-	31.4 J+	-	28 J+
PCB-021/033	PCB-21/33	pg/L			-	< 17.3 U	-	< 22.3 U	-	< 16.8 U	-	9.8 J	-	< 7.89 U
PCB-022	38444-85-8	pg/L	64	14000	-	< 15.9 U	-	< 20.6 U	-	< 15.3 U	-	< 7.72 U	-	< 7.37 U
PCB-023	55720-44-0	pg/L	64	14000	-	< 18.5 U	-	< 23.9 U	-	< 17.7 U	-	< 8.93 U	-	< 8.52 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 13.5 U	-	< 17.4 U	-	< 14.7 U	-	< 7.11 U	-	< 6.75 U
PCB-025	55712-37-3	pg/L	64	14000	-	115	-	109	-	112	-	7.22 J	-	< 6.97 U
PCB-026/029	PCB-26/29	pg/L			-	256	-	248	-	234	-	19.3 J	-	11.9 J
PCB-027	38444-76-7	pg/L	64	14000	-	366	-	367	-	403	-	30.4	-	14.6 JN
PCB-031	16606-02-3	pg/L	64	14000	-	264	-	244	-	245	-	38.2 J	-	22 JN
PCB-032	38444-77-8	pg/L	64	14000	-	405	-	352	-	386	-	57.9	-	30.8 J+
PCB-034	37680-68-5	pg/L	64	14000	-	< 18.5 U	-	< 23.9 U	-	< 17.5 U	-	< 9.33 U	-	< 8.9 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 17 U	-	< 21.9 U	-	< 16.1 U	-	< 8.42 U	-	< 8.03 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 15.1 U	-	< 19.5 U	-	< 14.5 U	-	< 7.38 U	-	< 7.04 U
PCB-037	38444-90-5	pg/L	64	14000	-	< 15.8 U	-	< 20.3 U	-	27.6	-	< 7.99 UJ	-	< 7.62 UJ
PCB-038	53555-66-1	pg/L	64	14000	-	< 16.5 U	-	< 21.4 U	-	< 15.9 U	-	< 8.1 U	-	< 7.73 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 16.4 U	-	< 21.2 U	-	< 16 U	-	< 8.18 U	-	< 7.8 U
PCB-040/071	PCB-40/71	pg/L			-	107	-	94.9	-	102	-	12 JN	-	12.2 J
PCB-041	52663-59-9	pg/L	64	14000	-	4.65 JN	-	< 7.32 U	-	< 8.41 U	-	< 6.14 U	-	< 4.6 U
PCB-042	36559-22-5	pg/L	64	14000	-	68.9	-	64.1	-	75.2	-	7.72 J	-	7.17 JN
PCB-043	70362-46-8	pg/L	64	14000	-	13.2	-	9.19 JN	-	14.2	-	< 4.21 U	-	< 3.15 U
PCB-044/047/065	PCB-44/47/65	pg/L			-	402	-	385	-	396	-	39.7 JN	-	40.7 J
PCB-045	70362-45-7	pg/L	64	14000	-	25.2 JN	-	45.3 J	-	53.5 J	-	2.92 JN	-	3.15 J
PCB-046	41464-47-5	pg/L	64	14000	-	32.2	-	32	-	39.1	-	< 5.52 U	-	< 4.13 U
PCB-048	70362-47-9	pg/L	64	14000	-	17.3	-	13.3 JN	-	14.7 JN	-	< 4.56 U	-	< 3.41 U
PCB-049/069	PCB-49/69	pg/L			-	284	-	246	-	287	-	20.5 JN	-	23.7 J+
PCB-050/053	PCB-50/53	pg/L			-	230	-	220	-	254	-	10.6 JN	-	10.9 J
PCB-051	68194-04-7	pg/L	64	14000	-	62.9	-	36.3	-	46.1	-	7.84 JN	-	7.03 JN
PCB-052	35693-99-3	pg/L	64	14000	-	372	-	348	-	387	-	38.8 J	-	42.3 J
PCB-054	15968-05-5	pg/L	64	14000	-	22.2	-	16.3 JN	-	25.4	-	< 3.31 U	-	< 2.78 U
PCB-055	74338-24-2	pg/L	64	14000	-	< 5.2 U	-	< 7.37 U	-	< 10.6 U	-	< 4.75 U	-	< 4.16 U
PCB-056	41464-43-1	pg/L	64	14000	-	22.5 JN	-	23	-	27.2	-	< 5.12 UJ	-	< 4.47 UJ
PCB-057	70424-67-8	pg/L	64	14000	-	< 5.7 U	-	< 8.08 U	-	< 11.4 U	-	< 5.41 U	-	< 4.73 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 5.14 U	-	< 7.28 U	-	< 10.3 U	-	< 4.72 U	-	< 4.12 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	24.5 J	-	25.1 J	-	31.1	-	< 3.53 U	-	3.77 J
PCB-060	33025-41-1	pg/L	64	14000	-	7.31 J	-	< 8.92 UJ	-	< 13.1 UJ	-	< 5.81 U	-	< 5.08 U
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	135	-	139	-	134	-	24.2 J	-	30.1 J
PCB-063	74472-34-7	pg/L	64	14000	-	8.62 JN	-	13.3 J	-	12.5 JN	-	< 5.61 U	-	< 4.91 U
PCB-064	52663-58-8	pg/L	64	14000	-	80.4	-	77.4	-	88	-	9.82 J+	-	9.05 JN
PCB-066	32598-10-0	pg/L	64	14000	-	86	-	87.8	-	84.7	-	12.6 JN	-	15.7
PCB-067	73575-53-8	pg/L	64	14000	-	< 5.08 U	-	< 7.2 U	-	< 10.3 U	-	< 4.62 U	-	< 4.04 U
PCB-068	73575-52-7	pg/L	64	14000	-	< 5.72 U	-	< 8.11 U	-	< 11.6 U	-	< 5.39 U	-	< 4.72 U
PCB-072	41464-42-0	pg/L	64	14000	-	6.47 JN	-	9.39 JN	-	< 11.3 U	-	< 5.16 U	-	< 4.51 U
PCB-073	74338-23-1	pg/L	64	14000	-	12.3	-	9.97 JN	-	11.2	-	< 3.42 U	-	< 2.56 U
PCB-077	32598-13-3	pg/L	64	14000	-	9.1 J	-	8.52 JN	-	< 11.3 U	-	< 5.08 U	-	< 4.89 U
PCB-078	70362-49-1	pg/L	64	14000	-	< 5.73 U	-	< 8.12 U	-	< 11.9 U	-	< 5.28 U	-	< 4.62 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 4.82 U	-	< 6.84 U	-	< 10.1 U	-	< 4.38 U	-	< 3.83 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 5.31 U	-	< 7.52 U	-	< 10.7 U	-	< 4.94 U	-	< 4.32 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 5.39 U	-	< 7.65 U	-	< 10.9 U	-	< 5.15 U	-	< 4.5 U
PCB-082	52663-62-4	pg/L	64	14000	-	< 11.8 U	-	< 10.1 U	-	< 9.78 U	-	< 4.27 U	-	< 7.63 U
PCB-083	60145-20-2	pg/L	64	14000	-	< 13.8 UJ	-	16.3 J	-	< 13.1 UJ	-	< 6.1 U	-	< 10.9 U
PCB-084	52663-60-2	pg/L	64	14000	-	45.8 JN	-	47.8	-	56	-	6.73 JN	-	11.9 J

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0070-PLW	23B-0070-PLW	23B-0071-PLW	23B-0071-PLW	23B-0072-PLW	23B-0072-PLW
					Sample Name	23B-0069-PLW-AS-F	23B-0069-PLW-AS-T	23B-0069-PLW-BS-F	23B-0069-PLW-BS-T	23B-0070-PLW-AS-F	23B-0070-PLW-AS-T	23B-0071-PLW-AS-F	23B-0071-PLW-AS-T	23B-0072-PLW-AS-F	23B-0072-PLW-AS-T
					Sample Date	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.8 - 5.8 ft	5.8 - 5.8 ft	1.15 - 1.15 ft	1.15 - 1.15 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1.2 - 1.2 ft	1.2 - 1.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	14.5 JN	-	18.3 JN	-	12.9 JN	-	< 3.9 U	-	11.3 J
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	78.9	-	88.7	-	87.9	-	20.5 J+	-	27.3 J+
PCB-088	55215-17-3	pg/L	64	14000	-	1.88 JN	-	< 11.7 U	-	< 10.5 U	-	< 5.01 U	-	< 8.95 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 11.3 U	-	< 9.76 U	-	< 9.25 U	-	< 4.34 U	-	< 7.77 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	132	-	138	-	146	-	34.5 J	-	43.7 J
PCB-091	68194-05-8	pg/L	64	14000	-	29.9 JN	-	39.9	-	37.8	-	< 4.16 U	-	6.71 JN
PCB-092	52663-61-3	pg/L	64	14000	-	39.3 JN	-	52.3 J	-	50.3 J	-	< 4.6 UJ	-	8 JN
PCB-093/100	PCB-93/100	pg/L			-	< 12.1 U	-	< 10.4 U	-	< 10.6 U	-	< 4.61 U	-	< 8.25 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 13.2 U	-	< 11.4 U	-	< 11.1 U	-	< 4.98 U	-	< 8.91 U
PCB-095	38379-99-6	pg/L	64	14000	-	136	-	151	-	147	-	23.6 J	-	34.3 J
PCB-096	73575-54-9	pg/L	64	14000	-	< 4.48 U	-	< 5.67 U	-	< 5.84 U	-	< 2.07 U	-	< 2.26 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 9.74 U	-	< 8.4 U	-	< 8.89 U	-	< 3.78 U	-	< 6.75 U
PCB-099	38380-01-7	pg/L	64	14000	-	44.3 JN	-	65.1	-	54.9	-	11.6 J	-	18.1 JN
PCB-102	68194-06-9	pg/L	64	14000	-	< 10.8 UJ	-	< 9.29 UJ	-	9.2 JN	-	< 3.92 U	-	< 7.01 U
PCB-103	60145-21-3	pg/L	64	14000	-	< 11.4 U	-	< 9.79 U	-	< 9.29 U	-	< 4.36 U	-	< 7.79 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 4 U	-	< 5.06 U	-	< 5.33 U	-	< 1.75 U	-	< 1.91 U
PCB-105	32598-14-4	pg/L	64	14000	-	15.9 JN	-	18.9	-	21.4	-	9.96 J	-	12.2 JN
PCB-106	70424-69-0	pg/L	64	14000	-	< 7.89 U	-	< 6.81 U	-	< 6.74 U	-	< 2.93 U	-	< 5.24 U
PCB-107	70424-68-9	pg/L	64	14000	-	< 7.9 U	-	< 6.81 U	-	< 6.46 U	-	< 3.02 U	-	< 5.41 U
PCB-108/124	PCB-108/124	pg/L			-	< 8.77 U	-	< 7.56 U	-	< 7.32 U	-	< 3.19 U	-	< 5.71 U
PCB-110	38380-03-9	pg/L	64	14000	-	134	-	141	-	166	-	30.1 J	-	43.7 JN
PCB-111	39635-32-0	pg/L	64	14000	-	< 8.43 U	-	< 7.27 U	-	< 7.2 U	-	< 3.14 U	-	< 5.62 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 7.24 U	-	< 6.24 U	-	< 6.1 U	-	< 2.69 U	-	< 4.81 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 8.52 U	-	< 7.15 U	-	< 6.52 U	-	< 3.1 U	-	< 5.54 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 7.86 U	-	< 6.78 U	-	< 5.81 U	-	< 2.55 U	-	< 4.55 U
PCB-117	68194-11-6	pg/L	64	14000	-	7.03 JN	-	12.2	-	< 7.62 U	-	< 3.41 U	-	< 6.1 U
PCB-118	31508-00-6	pg/L	64	14000	-	62.4	-	65.3	-	68.3	-	25.2 J	-	34.2 J
PCB-120	68194-12-7	pg/L	64	14000	-	< 6.98 U	-	< 6.02 U	-	< 5.97 U	-	< 2.6 U	-	< 4.66 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 7.82 U	-	< 6.74 U	-	< 6.61 U	-	< 2.89 U	-	< 5.17 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 11.1 U	-	< 9.3 U	-	< 8.49 U	-	< 3.95 U	-	< 7.06 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 7.89 U	-	< 6.81 U	-	< 6.85 U	-	< 2.97 U	-	< 5.32 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 5.19 U	-	< 6.64 U	-	< 6.09 U	-	< 3.91 U	-	< 2.73 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 8.18 U	-	< 7.99 U	-	< 6.59 U	-	< 3.17 U	-	< 5.69 U
PCB-128/166	PCB-128/166	pg/L			-	13.5 J	-	15 J	-	10.8 JN	-	< 4.14 U	-	8.54 J
PCB-129/138/163	PCB-129/138/163	pg/L			-	101	-	109	-	103 JN	-	35.5 J	-	60.4 J
PCB-130	52663-66-8	pg/L	64	14000	-	< 3.57 U	-	< 5.02 U	-	< 7.55 U	-	< 6.26 U	-	4.57 JN
PCB-131	61798-70-7	pg/L	64	14000	-	< 3.29 U	-	< 4.63 U	-	< 6.83 U	-	< 5.65 U	-	< 1.98 U
PCB-132	38380-05-1	pg/L	64	14000	-	31.9	-	33.4	-	33.6 JN	-	< 5.52 UJ	-	15.2 J
PCB-133	35694-04-3	pg/L	64	14000	-	< 2.85 U	-	< 4.01 U	-	< 5.92 U	-	< 5.01 U	-	< 1.76 U
PCB-134	52704-70-8	pg/L	64	14000	-	< 3.86 U	-	9.36 JN	-	< 7.56 U	-	< 6.27 U	-	< 2.2 U
PCB-135/151	PCB-135/151	pg/L			-	22.6 JN	-	25 JN	-	29.3 JN	-	8.04 JN	-	9.98 JN
PCB-136	38411-22-2	pg/L	64	14000	-	14.1 JN	-	9.59 JN	-	16.4 J	-	< 4.11 U	-	5.31 JN
PCB-137	35694-06-5	pg/L	64	14000	-	< 3.33 U	-	< 4.68 U	-	< 6.85 U	-	< 5.39 U	-	< 1.89 U
PCB-139/140	PCB-139/140	pg/L			-	< 2.85 U	-	< 4.02 U	-	< 5.95 U	-	< 4.96 U	-	< 1.74 U
PCB-141	52712-04-6	pg/L	64	14000	-	8.43 JN	-	9.9 J	-	10.9 JN	-	4.09 JN	-	9.86 J
PCB-142	41411-61-4	pg/L	64	14000	-	< 3.18 U	-	< 4.47 U	-	< 6.77 U	-	< 5.73 U	-	< 2.01 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 2.88 U	-	< 4.05 U	-	< 6.25 U	-	< 5.48 U	-	< 1.92 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 2.99 U	-	< 4.21 U	-	< 6.21 U	-	< 5.33 U	-	< 1.87 U
PCB-145	74472-40-5	pg/L	64	14000	-	< 2.16 U	-	< 2.6 U	-	< 5.22 U	-	< 3.64 U	-	< 1.34 U
PCB-146	51908-16-8	pg/L	64	14000	-	11.8	-	15.8	-	9.9 JN	-	4.16 JN	-	5.59 J
PCB-147/149	PCB-147/149	pg/L			-	58.7	-	65.8 JN	-	68.1 JN	-	24.1 J	-	29 JN
PCB-148	74472-41-6	pg/L	64	14000	-	< 2.93 U	-	< 4.12 U	-	< 6.02 U	-	< 5.17 U	-	< 1.81 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 2.28 U	-	< 2.75 U	-	< 5.41 U	-	< 3.81 U	-	< 1.4 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 2.03 U	-	< 2.45 U	-	< 4.93 U	-	< 3.49 U	-	< 1.28 U
PCB-153/168	PCB-153/168	pg/L			-	68.7	-	76.5	-	81.5	-	30.5 J	-	41.7 JN
PCB-154	60145-22-4	pg/L	64	14000	-	< 2.68 U	-	< 3.77 U	-	< 5.66 U	-	< 4.81 U	-	< 1.69 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0070-PLW	23B-0070-PLW	23B-0071-PLW	23B-0071-PLW	23B-0072-PLW	23B-0072-PLW
					Sample Name	23B-0069-PLW-AS-F	23B-0069-PLW-AS-T	23B-0069-PLW-BS-F	23B-0069-PLW-BS-T	23B-0070-PLW-AS-F	23B-0070-PLW-AS-T	23B-0071-PLW-AS-F	23B-0071-PLW-AS-T	23B-0072-PLW-AS-F	23B-0072-PLW-AS-T
					Sample Date	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.8 - 5.8 ft	5.8 - 5.8 ft	1.15 - 1.15 ft	1.15 - 1.15 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1.2 - 1.2 ft	1.2 - 1.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 1.95 U	-	< 2.35 U	-	< 4.86 U	-	< 3.22 U	-	< 1.18 U
PCB-156/157	PCB-156/157	pg/L			-	5.57 JN	-	8.92 J	-	8.61 JN	-	3.16 JN	-	5.86 J
PCB-158	74472-42-7	pg/L	64	14000	-	7.98 JN	-	9.82	-	7.55 JN	-	3.15 J	-	5.93 J
PCB-159	39635-35-3	pg/L	64	14000	-	< 3.8 U	-	< 3.93 U	-	< 4.24 U	-	< 3.1 U	-	< 2.64 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 2.36 U	-	< 3.31 U	-	< 5.13 U	-	< 4.23 U	-	< 1.48 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 2.11 U	-	< 2.96 U	-	< 4.43 U	-	< 3.67 U	-	< 1.29 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 4.42 U	-	< 4.57 U	-	< 4.89 U	-	< 3.69 U	-	< 3.14 U
PCB-164	74472-45-0	pg/L	64	14000	-	< 2.11 U	-	< 2.97 U	-	4.87 JN	-	< 3.83 U	-	6.06 JN
PCB-165	74472-46-1	pg/L	64	14000	-	< 2.47 U	-	< 3.47 U	-	< 5.21 U	-	< 4.32 U	-	< 1.52 U
PCB-167	52663-72-6	pg/L	64	14000	-	4.42 J	-	< 4.35 U	-	4.96 JN	-	< 3.57 U	-	< 3.04 U
PCB-169	32774-16-6	pg/L	4	14000	-	< 8.52 U	-	< 5.91 U	-	< 7.53 U	-	< 4.06 U	-	< 3.56 U
PCB-170	35065-30-6	pg/L	64	14000	-	< 10.2 U	-	< 10 U	-	16.2	-	7.12 JN	-	9.99 JN
PCB-171/173	PCB-171/173	pg/L			-	< 8.35 U	-	< 10.3 U	-	< 8.89 U	-	< 5.72 U	-	< 7.44 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 7.83 U	-	< 9.62 U	-	< 8.48 U	-	< 5.47 U	-	< 7.11 U
PCB-174	38411-25-5	pg/L	64	14000	-	6.39 JN	-	< 9.03 U	-	10.4	-	5.72 J	-	10.2 J
PCB-175	40186-70-7	pg/L	64	14000	-	< 8.06 U	-	< 9.9 U	-	< 8.41 U	-	< 5.57 U	-	< 7.24 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 3.53 U	-	< 3.98 U	-	< 4.68 U	-	< 3.98 U	-	< 2.35 U
PCB-177	52663-70-4	pg/L	64	14000	-	< 7.39 U	-	< 9.08 U	-	< 7.78 U	-	< 5.17 U	-	< 6.73 U
PCB-178	52663-67-9	pg/L	64	14000	-	< 4.46 U	-	< 5.02 U	-	< 5.92 U	-	< 5.07 U	-	< 2.99 U
PCB-179	52663-64-6	pg/L	64	14000	-	< 3.07 U	-	< 3.46 U	-	< 4.06 U	-	< 3.52 U	-	3.82 JN
PCB-180/193	PCB-180/193	pg/L			-	18.2 JN	-	20.1 JN	-	25.4 JN	-	17.2 J	-	28.1 J
PCB-181	74472-47-2	pg/L	64	14000	-	< 7.02 U	-	< 8.63 U	-	< 7.48 U	-	< 4.9 U	-	< 6.37 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 6.65 U	-	< 8.17 U	-	< 7.01 U	-	< 4.59 U	-	< 5.97 U
PCB-183	52663-69-1	pg/L	64	14000	-	6.42 JN	-	< 8.76 U	-	6.9 JN	-	< 5.21 U	-	6.02 J
PCB-184	74472-48-3	pg/L	64	14000	-	< 3.3 U	-	< 3.71 U	-	< 4.34 U	-	< 3.7 U	-	< 2.18 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 8.13 U	-	< 9.99 U	-	< 9.32 U	-	< 5.58 U	-	< 7.26 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 2.95 U	-	< 3.32 U	-	< 3.93 U	-	< 3.32 U	-	< 1.96 U
PCB-187	52663-68-0	pg/L	64	14000	-	8.9 JN	-	10.6 JN	-	14.6 J	-	7.18 J	-	13.4 J
PCB-188	74487-85-7	pg/L	64	14000	-	< 3.19 U	-	< 3.6 U	-	< 4.1 U	-	< 3.28 U	-	< 1.93 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 4.67 U	-	< 5.18 U	-	< 4.67 U	-	< 2.85 U	-	< 2.83 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 7.39 U	-	< 7.29 U	-	< 6.98 U	-	< 3.85 U	-	< 5.59 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 6.57 U	-	< 8.07 U	-	< 6.88 U	-	< 4.3 U	-	< 5.59 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 5.64 U	-	< 6.93 U	-	< 5.94 U	-	< 3.74 U	-	< 4.87 U
PCB-194	35694-08-7	pg/L	64	14000	-	< 3.74 U	-	5.57 JN	-	< 7.78 U	-	2.59 JN	-	5.91 J
PCB-195	52663-78-2	pg/L	64	14000	-	< 3.8 U	-	< 3.73 U	-	< 8.01 U	-	< 2.89 U	-	3.16 JN
PCB-196	42740-50-1	pg/L	64	14000	-	< 3.61 U	-	< 3.66 U	-	3.64 JN	-	< 1.7 U	-	2.99 JN
PCB-197	33091-17-7	pg/L	64	14000	-	< 2.58 U	-	< 2.61 U	-	< 2.92 U	-	< 1.31 U	-	< 1.81 U
PCB-198/199	PCB-198/199	pg/L			-	5.32 J	-	6.78 JN	-	6.74 J	-	5.23 J+	-	7.51 JN
PCB-200	52663-73-7	pg/L	64	14000	-	< 2.8 U	-	< 2.84 U	-	< 2.91 U	-	< 1.33 U	-	< 1.83 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 2.87 U	-	< 2.91 U	-	< 3.09 U	-	< 1.42 U	-	< 1.96 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 2.33 U	-	< 2.37 U	-	< 2.55 U	-	< 1.12 U	-	2.19 JN
PCB-203	52663-76-0	pg/L	64	14000	-	< 2.92 U	-	< 2.96 U	-	4.72 J	-	< 1.38 U	-	7.51 J
PCB-204	74472-52-9	pg/L	64	14000	-	< 2.47 U	-	< 2.5 U	-	< 2.67 U	-	< 1.23 U	-	< 1.69 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 3.23 U	-	< 3.17 U	-	< 6.69 U	-	< 2.28 U	-	< 1.48 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 19.2 UJ	-	< 19.1 UJ	-	< 19.2 UJ	-	< 19.8 UJ	-	16 JN
PCB-207	52663-79-3	pg/L	64	14000	-	< 6.96 U	-	< 6.89 U	-	< 7.75 U	-	< 5.09 U	-	< 4.74 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 6.21 U	-	< 6.15 U	-	< 6.92 U	-	4.82 J	-	8.89 J
PCB-209	2051-24-3	pg/L	64	14000	-	< 1.92 U	-	< 2.8 U	-	< 3.78 U	-	17.3 J	-	26.7 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	< 1.92 U	-	< 2.8 U	-	< 3.78 U	-	17.3	-	26.7
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	39.9	-	30.7	-	73.5	-	37.2	-	71.5
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	349	-	388	-	389	-	113	-	208
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	5.32	-	12.4	-	15.1	-	7.82	-	29.3
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	10100	-	9780	-	10800	-	1600	-	1200
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	742	-	855	-	858	-	162	-	251
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	3570	-	3560	-	4010	-	667	-	165
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	134	-	31.2	-	49.4	-	44.9	-	17.8
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 19.2 U	-	< 19.1 U	-	< 19.2 U	-	4.82	-	24.9
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	2030	-	1900	-	2080	-	187	-	206
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	3190	-	3000	-	3280	-	359	-	197

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0070-PLW	23B-0070-PLW	23B-0071-PLW	23B-0071-PLW	23B-0072-PLW	23B-0072-PLW
					Sample Name	23B-0069-PLW-AS-F	23B-0069-PLW-AS-T	23B-0069-PLW-BS-F	23B-0069-PLW-BS-T	23B-0070-PLW-AS-F	23B-0070-PLW-AS-T	23B-0071-PLW-AS-F	23B-0071-PLW-AS-T	23B-0072-PLW-AS-F	23B-0072-PLW-AS-T
					Sample Date	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.8 - 5.8 ft	5.8 - 5.8 ft	1.15 - 1.15 ft	1.15 - 1.15 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1.2 - 1.2 ft	1.2 - 1.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	40 J	45 J+	33 J	56 J+	33 J	57 J+	20 J	270	26 J	54
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150	0.38 J	0.44 J	0.56 J	0.50 J	0.40 J	0.57 J	0.25 J	0.33 J	0.18 J	0.28 J
Barium	7440-39-3	ug/L	380	220	40	38	39	40	40	41	29	31	29	31
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ
Calcium	7440-70-2	ug/L		116000	17000	16000	16000	16000	17000	16000	13000	14000	13000	13000
Chromium, Total	7440-47-3	ug/L	100	44	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.58 J	0.62 J	0.53 J	0.78 J
Cobalt	7440-48-4	ug/L	0.6	19	0.24 J	< 1.0 U	0.21 J	< 1.0 U	0.28 J	< 1.0 U	0.12 J	0.15 J	0.12 J	0.17 J
Copper	7440-50-8	ug/L	80	5	1.5 J	1.3 J	1.3 J	1.5 J	1.5 J	1.5 J	< 2.0 U	< 2.0 U	< 2.0 U	0.87 J
Iron	7439-89-6	ug/L	1400	1000	1300	1400	1200	1500	840	1500	430	750	520	840
Lead	7439-92-1	ug/L	15	0.54	1.0	1.1 J+	< 1.0 U	1.2 J+	< 1.0 U	1.3 J+	< 1.0 U	< 1.0 U	< 1.0 U	1.4
Magnesium	7439-95-4	ug/L		82000	4100	4100	4300	4300	4300	4300	3100	3200	3200	3200
Manganese	7439-96-5	ug/L	43	93	140	140	150	150	150	160	65	77	67	98
Nickel	7440-02-0	ug/L	39	27	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	1.1 J	< 1.0 UJ	0.19 J-	0.19 J-	0.33 J-	0.33 J-
Potassium	7440-09-7	ug/L		53000	3200	3100	3300	3300	3300	3300	3600	3700	3700	3700
Selenium	7782-49-2	ug/L	10	5	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 UJ	< 5.0 U	< 5.0 U	1.2 J	1.3 J	1.3 J
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	69000	68000	72000	70000	72000	71000	52000	53000	53000	53000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.73 J	< 5.0 U	0.61 J	< 5.0 U	0.58 J	< 5.0 U	0.20 J	0.29 J	0.22 J	0.33 J
Zinc	7440-66-6	ug/L	600	11.8	15	6.5 J	7.0 J+	11 J	7.1 J+	11 J	< 5.0 U	69	< 5.0 U	7.1 J+
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0070-PLW	23B-0070-PLW	23B-0071-PLW	23B-0071-PLW	23B-0072-PLW	23B-0072-PLW
					Sample Name	23B-0069-PLW-AS-F	23B-0069-PLW-AS-T	23B-0069-PLW-BS-F	23B-0069-PLW-BS-T	23B-0070-PLW-AS-F	23B-0070-PLW-AS-T	23B-0071-PLW-AS-F	23B-0071-PLW-AS-T	23B-0072-PLW-AS-F	23B-0072-PLW-AS-T
					Sample Date	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.8 - 5.8 ft	5.8 - 5.8 ft	1.15 - 1.15 ft	1.15 - 1.15 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1.2 - 1.2 ft	1.2 - 1.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	0.86 J+	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Styrene	100-42-5	ug/L	100	32	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.0 U	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 UJ
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 UJ
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 UJ
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 UJ
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 U	-	< 10 UJ
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0070-PLW	23B-0070-PLW	23B-0071-PLW	23B-0071-PLW	23B-0072-PLW	23B-0072-PLW
					Sample Name	23B-0069-PLW-AS-F	23B-0069-PLW-AS-T	23B-0069-PLW-BS-F	23B-0069-PLW-BS-T	23B-0070-PLW-AS-F	23B-0070-PLW-AS-T	23B-0071-PLW-AS-F	23B-0071-PLW-AS-T	23B-0072-PLW-AS-F	23B-0072-PLW-AS-T
					Sample Date	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1 - 1 ft	1 - 1 ft	5.8 - 5.8 ft	5.8 - 5.8 ft	1.15 - 1.15 ft	1.15 - 1.15 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1.2 - 1.2 ft	1.2 - 1.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
FLUORENE	86-73-7	ug/L	29	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.2	-	2.9	-	3.7	-	2.9	-	3.0	
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	5.8 J-	-	3.7	-	5.6 J-	-	5.2	-	5.1	
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.36 J	-	0.27 J	-	0.37 J	-	< 1.8 U	-	< 1.9 U	
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.6	-	2.1	-	2.4	-	2.1	-	2.1	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	3.0	-	2.4	-	3.4	-	2.0	-	1.9	
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	4.4	-	4.0	-	4.1	-	4.0	-	4.0	
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.98 J	-	0.86 J	-	1.2 J	-	0.66 J	-	0.52 J	
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	0.34 J	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	6.4	-	4.7	-	6.6	-	4.0	-	4.0	
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	18	-	4.7	-	7.7	-	5.2	-	5.2	
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.40 J	-	0.36 J	-	0.57 J	-	0.32 J	-	< 1.9 U	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.6	-	3.9	-	4.4	-	4.3	-	4.5	
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0069-PLW	23B-0070-PLW	23B-0070-PLW	23B-0071-PLW	23B-0071-PLW	23B-0072-PLW	23B-0072-PLW
				Sample Name	23B-0069-PLW-AS-F	23B-0069-PLW-AS-T	23B-0069-PLW-BS-F	23B-0069-PLW-BS-T	23B-0070-PLW-AS-F	23B-0070-PLW-AS-T	23B-0071-PLW-AS-F	23B-0071-PLW-AS-T	23B-0072-PLW-AS-F	23B-0072-PLW-AS-T
				Sample Date	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1 - 1 ft	1 - 1 ft	5.8 - 5.8 ft	5.8 - 5.8 ft	1.15 - 1.15 ft	1.15 - 1.15 ft	1.35 - 1.35 ft	1.35 - 1.35 ft	1.2 - 1.2 ft	1.2 - 1.2 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.7 U	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.55	-	8.63	-	8.6	-	11.43	-	11.64
Oxidation-Reduction Potential	ORP	mv			-	166.9	-	170	-	162	-	269.8	-	243.2
pH	PH	su			-	6.93	-	6.91	-	6.86	-	6.53	-	6.9
Specific Conductance	SC	us/cm			-	460	-	460.3	-	460.3	-	412.5	-	413.1
Temperature	TEMP	deg c			-	13.4	-	13.3	-	13.2	-	8.9	-	8.8
Turbidity	TURB	NTU			-	1.46	-	1.51	-	1.15	-	1.02	-	1.79

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0073-PLW	23B-0073-PLW	23B-0074-PLW	23B-0074-PLW	23B-0075-PLW	23B-0075-PLW	23B-0076-PLW	23B-0076-PLW	23B-0077-PLW	23B-0077-PLW
					Sample Name	23B-0073-PLW-AS-F	23B-0073-PLW-AS-T	23B-0074-PLW-AS-F	23B-0074-PLW-AS-T	23B-0075-PLW-AS-F	23B-0075-PLW-AS-T	23B-0076-PLW-AS-F	23B-0076-PLW-AS-T	23B-0077-PLW-AS-F	23B-0077-PLW-AS-T
					Sample Date	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.4 - 0.4 ft	0.4 - 0.4 ft	0.45 - 0.45 ft	0.45 - 0.45 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.50 U	-	< 0.51 U	-	< 0.50 U	-	< 0.51 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.85 U	-	62.7	-	3.65 J	-	< 1.42 U	-	< 3.51 U
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.89 U	-	< 1.62 U	-	< 1.43 U	-	< 1.1 U	-	< 1.39 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.96 U	-	< 1.99 U	-	< 1.89 U	-	< 1.44 U	-	< 2.02 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.57 U	-	10.6 J	-	< 0.997 U	-	< 1.13 U	-	< 1.16 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 2.1 U	-	< 2.16 U	-	< 1.9 U	-	< 1.77 U	-	< 2.08 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.55 U	-	4.52 JN	-	< 0.992 U	-	< 1.09 U	-	< 1.1 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 2.1 U	-	< 1.96 U	-	< 1.9 U	-	< 1.66 U	-	< 2.06 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 2.15 U	-	< 2.81 U	-	< 1.31 U	-	< 1.5 U	-	< 1.53 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.99 U	-	< 2.35 U	-	< 1.85 U	-	< 1.61 U	-	< 2.02 U
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.48 U	-	< 2.07 U	-	< 0.979 U	-	< 1.2 U	-	< 1.49 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 1.48 U	-	84.3	-	5.31 JN	-	< 0.88 U	-	2.55 JN
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.78 U	-	2.79 JN	-	< 1.13 U	-	< 1.35 U	-	< 1.33 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.44 U	-	3.5 J	-	< 1.02 U	-	< 1.17 U	-	< 1.51 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.8 UJ	-	< 10.2 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10.52 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 1.59 U	-	< 1.38 U	-	< 0.957 U	-	< 0.976 U	-	< 1.48 U
OCDD	3268-87-9	pg/L	400	31	-	< 4.2 U	-	403	-	23.8 J	-	4.92 JN	-	14.1 J
OCDF	39001-02-0	pg/L	400	31	-	< 3.8 U	-	96	-	4.93 JN	-	< 1.6 U	-	< 3.92 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.85 U	-	62.7	-	3.65	-	< 1.42 U	-	< 3.51 U
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 1.89 U	-	84.3	-	5.31	-	< 1.1 U	-	2.55 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 2.1 U	-	< 2.16 U	-	< 1.9 U	-	< 1.77 U	-	< 2.08 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 2.15 U	-	17.9	-	< 1.31 U	-	< 1.5 U	-	< 1.53 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.99 U	-	< 2.35 U	-	< 1.85 U	-	< 1.61 U	-	< 2.02 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.48 U	-	3.5	-	< 1.02 U	-	< 1.2 U	-	< 1.51 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.8 U	-	< 10.2 U	-	< 10 U	-	< 10 U	-	< 10.52 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 1.59 U	-	< 1.38 U	-	< 0.957 U	-	< 0.976 U	-	< 1.48 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	11.3 JN	-	11.6 JN	-	8.95 J+	-	12.6 JN	-	17.6 J
PCB-002	2051-61-8	pg/L	64	14000	-	< 3.77 U	-	6.21 J+	-	< 2.64 U	-	< 3.35 U	-	< 2.87 U
PCB-003	2051-62-9	pg/L	64	14000	-	< 3.91 U	-	9.61 J+	-	4.33 JN	-	< 3.47 U	-	7.47 JN
PCB-004	13029-08-8	pg/L	64	14000	-	53.6 JN	-	48.5 JN	-	45.5 JN	-	77.5 JN	-	82.5 JN
PCB-005	16605-91-7	pg/L	64	14000	-	< 5.83 U	-	< 8.77 U	-	< 7.93 U	-	< 7.16 U	-	< 9.6 U
PCB-006	25569-80-6	pg/L	64	14000	-	5.5 JN	-	< 7.22 U	-	< 6.53 U	-	8.09 JN	-	6.99 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 5.47 U	-	< 8.22 U	-	< 7.44 U	-	< 6.72 U	-	< 9.01 U
PCB-008	34883-43-7	pg/L	64	14000	-	23.3 JN	-	28 JN	-	< 17.4 U	-	27.1 JN	-	35.6 JN
PCB-009	34883-39-1	pg/L	64	14000	-	< 5.04 U	-	< 7.58 U	-	< 6.86 U	-	< 6.19 U	-	< 8.3 U
PCB-010	33146-45-1	pg/L	64	14000	-	14.2 JN	-	9.35 JN	-	< 8.19 U	-	12.9 JN	-	16.8 JN

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0073-PLW	23B-0073-PLW	23B-0074-PLW	23B-0074-PLW	23B-0075-PLW	23B-0075-PLW	23B-0076-PLW	23B-0076-PLW	23B-0077-PLW	23B-0077-PLW
					Sample Name	23B-0073-PLW-AS-F	23B-0073-PLW-AS-T	23B-0074-PLW-AS-F	23B-0074-PLW-AS-T	23B-0075-PLW-AS-F	23B-0075-PLW-AS-T	23B-0076-PLW-AS-F	23B-0076-PLW-AS-T	23B-0077-PLW-AS-F	23B-0077-PLW-AS-T
					Sample Date	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.4 - 0.4 ft	0.4 - 0.4 ft	0.45 - 0.45 ft	0.45 - 0.45 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	267 J	-	289 J	-	284 J	-	< 216 UJ	-	< 191 UJ
PCB-012/013	PCB-12/13	pg/L			-	< 5.65 U	-	10.3 JN	-	< 7.69 U	-	6.82 JN	-	< 9.31 U
PCB-014	34883-41-5	pg/L	64	14000	-	< 5.57 U	-	< 8.38 U	-	< 7.58 U	-	< 6.84 U	-	< 9.17 U
PCB-015	2050-68-2	pg/L	64	14000	-	7.99 JN	-	56.2 J	-	7.19 JN	-	19.6 JN	-	17.9 JN
PCB-016	38444-78-9	pg/L	64	14000	-	< 10.1 U	-	13 JN	-	< 8.07 U	-	< 9.88 U	-	< 10.1 U
PCB-017	37680-66-3	pg/L	64	14000	-	20.5 JN	-	49.7 J	-	20 JN	-	53.1 J	-	41.4 J
PCB-018/030	PCB-18/30	pg/L			-	9.99 JN	-	40.7 J+	-	17.4 JN	-	30.1 J+	-	22.6 JN
PCB-019	38444-73-4	pg/L	64	14000	-	18.5 J	-	30.3 JN	-	18.2 J	-	38.2 J	-	36.1 J
PCB-020/028	PCB-20/28	pg/L			-	19.8 J+	-	124	-	30.3 J+	-	58.8 J+	-	38.5 J+
PCB-021/033	PCB-21/33	pg/L			-	< 9.57 U	-	22.4	-	< 5.62 U	-	< 8.33 U	-	< 7.44 U
PCB-022	38444-85-8	pg/L	64	14000	-	< 8.95 U	-	15.7 JN	-	< 5.25 U	-	< 7.79 U	-	< 6.96 U
PCB-023	55720-44-0	pg/L	64	14000	-	< 10.1 U	-	< 7.25 U	-	< 5.95 U	-	< 8.82 U	-	< 7.89 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 7.6 U	-	< 6.8 U	-	< 6.08 U	-	< 7.44 U	-	< 7.62 U
PCB-025	55712-37-3	pg/L	64	14000	-	< 8.46 U	-	21.2	-	< 4.96 U	-	18.4	-	9.12 J
PCB-026/029	PCB-26/29	pg/L			-	< 10.3 U	-	29.3	-	10.8 J	-	21.4 JN	-	15.5 J
PCB-027	38444-76-7	pg/L	64	14000	-	< 7.75 U	-	26.1	-	< 6.2 U	-	12.4 JN	-	15.5 JN
PCB-031	16606-02-3	pg/L	64	14000	-	13.8 JN	-	61.2 J	-	20 J	-	37.3 JN	-	31.5 J
PCB-032	38444-77-8	pg/L	64	14000	-	17.5 JN	-	51.7	-	17.4 J+	-	41 J+	-	33.2 J
PCB-034	37680-68-5	pg/L	64	14000	-	< 10.5 U	-	< 7.54 U	-	< 6.19 U	-	< 9.17 U	-	< 8.2 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 9.9 U	-	5.71 JN	-	< 5.81 U	-	< 8.61 U	-	< 7.7 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 8.75 U	-	< 6.25 U	-	< 5.13 U	-	< 7.61 U	-	< 6.8 U
PCB-037	38444-90-5	pg/L	64	14000	-	< 9.97 UJ	-	48 J	-	< 5.85 UJ	-	< 8.67 UJ	-	< 7.75 UJ
PCB-038	53555-66-1	pg/L	64	14000	-	< 9.58 U	-	< 6.85 U	-	< 5.62 U	-	< 8.33 U	-	< 7.45 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 9.5 U	-	< 6.79 U	-	< 5.58 U	-	< 8.27 U	-	< 7.39 U
PCB-040/071	PCB-40/71	pg/L			-	7.42 JN	-	137 J	-	11.9 JN	-	14.4 JN	-	12.4 JN
PCB-041	52663-59-9	pg/L	64	14000	-	< 7.66 U	-	10.6	-	< 4.31 U	-	< 6.54 U	-	< 5.65 U
PCB-042	36559-22-5	pg/L	64	14000	-	< 6.29 UJ	-	55.1 J	-	6.17 JN	-	6.44 J	-	4.31 JN
PCB-043	70362-46-8	pg/L	64	14000	-	< 5.71 U	-	8.38 JN	-	< 3.21 U	-	< 4.87 U	-	< 4.21 U
PCB-044/047/065	PCB-44/47/65	pg/L			-	19.5 JN	-	280 J	-	41.2 J	-	40.1 J	-	37.8 J
PCB-045	70362-45-7	pg/L	64	14000	-	< 7.83 U	-	26.6	-	< 4.4 U	-	6.15 JN	-	2.92 JN
PCB-046	41464-47-5	pg/L	64	14000	-	< 7.32 U	-	15.1 JN	-	< 4.12 U	-	< 6.25 U	-	< 5.4 U
PCB-048	70362-47-9	pg/L	64	14000	-	< 6.07 U	-	27.5	-	3.12 JN	-	< 5.18 U	-	< 4.47 U
PCB-049/069	PCB-49/69	pg/L			-	10.5 JN	-	175	-	22.1 J+	-	25.4 J+	-	21.7 J+
PCB-050/053	PCB-50/53	pg/L			-	< 6.03 U	-	73.1	-	10.9 J	-	10.9 J	-	10.4 J
PCB-051	68194-04-7	pg/L	64	14000	-	< 5.44 U	-	26	-	3.14 JN	-	3.84 JN	-	4.01 JN
PCB-052	35693-99-3	pg/L	64	14000	-	17.6 JN	-	382 J	-	39.3 J	-	43.8 J	-	34.5 J
PCB-054	15968-05-5	pg/L	64	14000	-	< 3.17 U	-	< 2.1 U	-	< 2.61 U	-	< 2.36 U	-	< 3.14 U
PCB-055	74338-24-2	pg/L	64	14000	-	< 4.8 U	-	< 5.42 U	-	< 3.66 U	-	< 4.75 U	-	< 3.64 U
PCB-056	41464-43-1	pg/L	64	14000	-	< 5.19 UJ	-	74.6 J	-	8.69 J	-	< 5.14 UJ	-	5.23 JN
PCB-057	70424-67-8	pg/L	64	14000	-	< 5.49 U	-	< 6.19 U	-	< 4.18 U	-	< 5.43 U	-	< 4.16 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 5.02 U	-	< 5.66 U	-	< 3.82 U	-	< 4.97 U	-	< 3.8 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	< 4.93 U	-	26.9 J	-	4.22 J	-	< 4.21 U	-	2.86 JN
PCB-060	33025-41-1	pg/L	64	14000	-	< 5.94 U	-	28	-	< 4.53 U	-	< 5.89 U	-	< 4.51 U
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	14.3 J	-	408 J	-	35.9 J	-	23.4 J	-	23.6 J
PCB-063	74472-34-7	pg/L	64	14000	-	< 5.81 U	-	9.04 JN	-	< 4.43 U	-	< 5.76 U	-	< 4.41 U
PCB-064	52663-58-8	pg/L	64	14000	-	< 5.46 U	-	93	-	10.5 J+	-	11.6 JN	-	9.78 J+
PCB-066	32598-10-0	pg/L	64	14000	-	7.05 J	-	223	-	16.4 JN	-	11.4 JN	-	17.5
PCB-067	73575-53-8	pg/L	64	14000	-	< 4.54 U	-	5.5 J	-	< 3.46 U	-	< 4.49 U	-	< 3.44 U
PCB-068	73575-52-7	pg/L	64	14000	-	< 5.15 U	-	< 5.81 U	-	< 3.92 U	-	< 5.1 U	-	< 3.9 U
PCB-072	41464-42-0	pg/L	64	14000	-	< 5.3 U	-	6.44 J	-	< 4.04 U	-	< 5.25 U	-	< 4.02 U
PCB-073	74338-23-1	pg/L	64	14000	-	< 4.47 U	-	4.05 JN	-	< 2.52 U	-	< 3.82 U	-	< 3.29 U
PCB-077	32598-13-3	pg/L	64	14000	-	< 4.79 U	-	38.8	-	< 4.58 U	-	< 5.98 U	-	< 3.94 U
PCB-078	70362-49-1	pg/L	64	14000	-	< 5.52 U	-	< 6.23 U	-	< 4.21 U	-	< 5.47 U	-	< 4.19 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 4.62 U	-	6.47 JN	-	< 3.52 U	-	< 4.57 U	-	< 3.5 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 4.97 U	-	< 5.6 U	-	< 3.78 U	-	< 4.92 U	-	< 3.77 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 5.26 U	-	< 5.94 U	-	< 4.01 U	-	< 5.21 U	-	< 3.99 U
PCB-082	52663-62-4	pg/L	64	14000	-	< 6.12 U	-	116	-	< 5.92 U	-	< 7.18 U	-	< 5.21 U
PCB-083	60145-20-2	pg/L	64	14000	-	< 8.31 U	-	59.6	-	< 8.03 U	-	< 9.75 U	-	< 7.07 U
PCB-084	52663-60-2	pg/L	64	14000	-	< 7.24 UJ	-	243 J	-	15.8 J	-	9.33 J	-	9.5 J

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0073-PLW	23B-0073-PLW	23B-0074-PLW	23B-0074-PLW	23B-0075-PLW	23B-0075-PLW	23B-0076-PLW	23B-0076-PLW	23B-0077-PLW	23B-0077-PLW
					Sample Name	23B-0073-PLW-AS-F	23B-0073-PLW-AS-T	23B-0074-PLW-AS-F	23B-0074-PLW-AS-T	23B-0075-PLW-AS-F	23B-0075-PLW-AS-T	23B-0076-PLW-AS-F	23B-0076-PLW-AS-T	23B-0077-PLW-AS-F	23B-0077-PLW-AS-T
					Sample Date	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.4 - 0.4 ft	0.4 - 0.4 ft	0.45 - 0.45 ft	0.45 - 0.45 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	< 5.35 U	-	176	-	13 JN	-	< 6.28 U	-	6.14 JN
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	12.2 J+	-	712	-	46.1 J+	-	20.9 JN	-	29.7 J+
PCB-088	55215-17-3	pg/L	64	14000	-	< 7.89 U	-	< 14.4 U	-	< 7.64 U	-	< 9.27 U	-	< 6.72 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 6.32 U	-	< 11.5 U	-	< 6.11 U	-	< 7.42 U	-	< 5.38 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	16.7 J	-	1120 J	-	83.4 J	-	30.9 JN	-	46.9 J
PCB-091	68194-05-8	pg/L	64	14000	-	< 5.38 U	-	132	-	9.77 JN	-	< 6.32 U	-	< 4.58 U
PCB-092	52663-61-3	pg/L	64	14000	-	< 6.52 UJ	-	222 J	-	15.3 JN	-	< 7.66 UJ	-	7.85 JN
PCB-093/100	PCB-93/100	pg/L			-	< 6.76 U	-	13.9 J	-	< 6.54 U	-	< 7.94 U	-	< 5.75 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 7.07 U	-	< 12.9 U	-	< 6.84 U	-	< 8.3 U	-	< 6.02 U
PCB-095	38379-99-6	pg/L	64	14000	-	11.9 J	-	744 J	-	53.9 J	-	26.6 J	-	32.9 J
PCB-096	73575-54-9	pg/L	64	14000	-	< 3.24 U	-	5.77 JN	-	< 2.23 U	-	< 2.94 U	-	< 2.89 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 6 U	-	< 10.9 U	-	< 5.8 U	-	< 7.04 U	-	< 5.1 U
PCB-099	38380-01-7	pg/L	64	14000	-	4.39 JN	-	467 J	-	32.1 J	-	14.5 J	-	16.1 JN
PCB-102	68194-06-9	pg/L	64	14000	-	< 4.83 U	-	35	-	< 4.67 U	-	< 5.67 U	-	< 4.11 U
PCB-103	60145-21-3	pg/L	64	14000	-	< 5.97 U	-	< 10.9 U	-	< 5.78 U	-	< 7.01 U	-	< 5.08 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 2.89 U	-	< 1.75 U	-	< 1.99 U	-	< 2.62 U	-	< 2.58 U
PCB-105	32598-14-4	pg/L	64	14000	-	3.75 JN	-	424 JN	-	20.2 JN	-	10.5 J	-	15.3 J
PCB-106	70424-69-0	pg/L	64	14000	-	< 4.33 U	-	< 7.9 U	-	< 4.19 U	-	< 5.08 U	-	< 3.69 U
PCB-107	70424-68-9	pg/L	64	14000	-	< 4.41 U	-	69.7	-	< 4.26 U	-	< 5.17 U	-	< 3.75 U
PCB-108/124	PCB-108/124	pg/L			-	< 4.61 U	-	43 JN	-	< 4.46 U	-	< 5.42 U	-	< 3.93 U
PCB-110	38380-03-9	pg/L	64	14000	-	9.89 JN	-	1220 J	-	84.3 J	-	30.1 J	-	45.5 J
PCB-111	39635-32-0	pg/L	64	14000	-	< 4.57 U	-	< 8.33 U	-	< 4.42 U	-	< 5.37 U	-	< 3.89 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 3.7 U	-	< 6.75 U	-	< 3.58 U	-	< 4.34 U	-	< 3.15 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 4.45 U	-	22.8	-	< 4.04 U	-	< 5.22 U	-	< 3.75 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 3.78 U	-	< 6.89 U	-	< 3.66 U	-	< 4.44 U	-	< 3.22 U
PCB-117	68194-11-6	pg/L	64	14000	-	< 5.36 U	-	31.7	-	< 5.18 U	-	< 6.29 U	-	< 4.56 U
PCB-118	31508-00-6	pg/L	64	14000	-	8.76 JN	-	956 J	-	57.3 J	-	21.4 J	-	31.9 JN
PCB-120	68194-12-7	pg/L	64	14000	-	< 3.76 U	-	< 6.86 U	-	< 3.64 U	-	< 4.42 U	-	< 3.2 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 4.19 U	-	< 7.63 U	-	< 4.05 U	-	< 4.91 U	-	< 3.56 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 5.41 U	-	17.3	-	< 4.91 U	-	< 6.35 U	-	< 4.56 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 4.35 U	-	19.6	-	< 4.21 U	-	< 5.11 U	-	< 3.7 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 4.17 U	-	< 6.16 U	-	< 3.33 U	-	< 4.29 U	-	< 3.4 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 4.38 U	-	< 8.62 U	-	< 4.16 U	-	< 5.24 U	-	< 3.74 U
PCB-128/166	PCB-128/166	pg/L			-	< 3.51 U	-	293	-	17.9 JN	-	7.68 JN	-	7.88 JN
PCB-129/138/163	PCB-129/138/163	pg/L			-	14.1 JN	-	1740 J	-	119 J	-	39.9 JN	-	61.2 J
PCB-130	52663-66-8	pg/L	64	14000	-	< 3.59 U	-	117	-	7.9 J	-	< 3.69 U	-	< 3.68 U
PCB-131	61798-70-7	pg/L	64	14000	-	< 3.16 U	-	18	-	< 2.15 U	-	< 3.25 U	-	< 3.24 U
PCB-132	38380-05-1	pg/L	64	14000	-	< 3.13 UJ	-	525 J	-	34.5 J	-	6.42 JN	-	15 JN
PCB-133	35694-04-3	pg/L	64	14000	-	< 2.8 U	-	18.3 JN	-	< 1.9 U	-	< 2.88 U	-	< 2.87 U
PCB-134	52704-70-8	pg/L	64	14000	-	< 3.91 U	-	94	-	< 2.66 U	-	< 4.03 U	-	< 4.02 U
PCB-135/151	PCB-135/151	pg/L			-	< 2.93 U	-	387	-	31.3	-	8.32 J	-	12.1 JN
PCB-136	38411-22-2	pg/L	64	14000	-	< 2.39 U	-	159	-	9.52 J	-	3.59 JN	-	3.24 JN
PCB-137	35694-06-5	pg/L	64	14000	-	< 3.37 U	-	96.5	-	6.65 JN	-	< 3.46 U	-	4.72 J
PCB-139/140	PCB-139/140	pg/L			-	< 2.79 U	-	32.5	-	< 1.9 U	-	< 2.87 U	-	< 2.86 U
PCB-141	52712-04-6	pg/L	64	14000	-	< 2.86 UJ	-	248 J	-	16.6 JN	-	6.52 J	-	7.89 J
PCB-142	41411-61-4	pg/L	64	14000	-	< 3.09 U	-	< 2.15 U	-	< 2.1 U	-	< 3.18 U	-	< 3.17 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 2.71 U	-	9.32 J	-	< 1.84 U	-	< 2.79 U	-	< 2.78 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 2.94 U	-	60.1	-	< 2 U	-	< 3.02 U	-	< 3.01 U
PCB-145	74472-40-5	pg/L	64	14000	-	< 2.04 U	-	< 1.44 U	-	< 1.24 U	-	< 2.15 U	-	< 2.18 U
PCB-146	51908-16-8	pg/L	64	14000	-	< 2.44 U	-	182	-	13.8	-	5.08 JN	-	6.8 J
PCB-147/149	PCB-147/149	pg/L			-	14.4 JN	-	969 J	-	68.6 J	-	14 JN	-	35.1 J
PCB-148	74472-41-6	pg/L	64	14000	-	< 2.83 U	-	< 1.97 U	-	< 1.93 U	-	< 2.91 U	-	< 2.9 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 2.19 U	-	< 1.55 U	-	< 1.33 U	-	< 2.31 U	-	< 2.33 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 1.99 U	-	< 1.41 U	-	< 1.21 U	-	< 2.1 U	-	< 2.12 U
PCB-153/168	PCB-153/168	pg/L			-	18 J	-	1200 J	-	84.5 J	-	29.2 J	-	49.5 J
PCB-154	60145-22-4	pg/L	64	14000	-	< 2.61 U	-	18	-	< 1.78 U	-	< 2.68 U	-	< 2.68 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0073-PLW	23B-0073-PLW	23B-0074-PLW	23B-0074-PLW	23B-0075-PLW	23B-0075-PLW	23B-0076-PLW	23B-0076-PLW	23B-0077-PLW	23B-0077-PLW
					Sample Name	23B-0073-PLW-AS-F	23B-0073-PLW-AS-T	23B-0074-PLW-AS-F	23B-0074-PLW-AS-T	23B-0075-PLW-AS-F	23B-0075-PLW-AS-T	23B-0076-PLW-AS-F	23B-0076-PLW-AS-T	23B-0077-PLW-AS-F	23B-0077-PLW-AS-T
					Sample Date	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.4 - 0.4 ft	0.4 - 0.4 ft	0.45 - 0.45 ft	0.45 - 0.45 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 1.85 U	-	< 1.31 U	-	< 1.13 U	-	< 1.95 U	-	< 1.97 U
PCB-156/157	PCB-156/157	pg/L			-	< 4.39 U	-	187	-	10.1 J	-	4.12 JN	-	5.79 J
PCB-158	74472-42-7	pg/L	64	14000	-	< 2.07 U	-	167	-	11.6	-	< 2.13 U	-	6.33 JN
PCB-159	39635-35-3	pg/L	64	14000	-	< 2.64 U	-	10.2	-	< 4.38 U	-	< 2.82 U	-	< 3.21 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 2.35 U	-	< 1.63 U	-	< 1.6 U	-	< 2.42 U	-	< 2.41 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 2.08 U	-	< 1.45 U	-	< 1.42 U	-	< 2.14 U	-	< 2.14 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 3.13 U	-	44.1 JN	-	< 5.18 U	-	< 3.34 U	-	< 3.79 U
PCB-164	74472-45-0	pg/L	64	14000	-	< 1.95 U	-	101	-	3.93 JN	-	< 2 U	-	3.27 JN
PCB-165	74472-46-1	pg/L	64	14000	-	< 2.39 U	-	< 1.66 U	-	< 1.63 U	-	< 2.46 U	-	< 2.45 U
PCB-167	52663-72-6	pg/L	64	14000	-	< 3.03 U	-	66.7	-	< 5.01 U	-	< 3.23 U	-	< 3.67 U
PCB-169	32774-16-6	pg/L	4	14000	-	< 3.47 U	-	< 4.95 U	-	< 5.69 U	-	< 3.45 U	-	< 3.96 U
PCB-170	35065-30-6	pg/L	64	14000	-	< 9.53 UJ	-	375 J	-	23.7 J	-	< 8.49 UJ	-	14.1 J
PCB-171/173	PCB-171/173	pg/L			-	< 8.79 U	-	105	-	< 8.24 U	-	< 8.81 U	-	< 11.1 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 8.45 U	-	60.6	-	< 7.93 U	-	< 8.47 U	-	< 10.7 U
PCB-174	38411-25-5	pg/L	64	14000	-	< 7.72 UJ	-	304 J	-	19.7 J	-	< 7.74 UJ	-	10.5 JN
PCB-175	40186-70-7	pg/L	64	14000	-	< 8.95 U	-	12.9	-	< 8.39 U	-	< 8.97 U	-	< 11.3 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 2.73 U	-	41.6	-	< 2.57 U	-	< 3.08 U	-	< 3.35 U
PCB-177	52663-70-4	pg/L	64	14000	-	< 8.08 U	-	170	-	13.4	-	< 8.1 U	-	< 10.2 U
PCB-178	52663-67-9	pg/L	64	14000	-	< 3.44 U	-	78.1	-	< 3.24 U	-	< 3.89 U	-	< 4.23 U
PCB-179	52663-64-6	pg/L	64	14000	-	< 2.39 U	-	123	-	6.41 JN	-	< 2.7 U	-	6.82 J
PCB-180/193	PCB-180/193	pg/L			-	13.6 J	-	720 J	-	48.8 J	-	22.1 J	-	32.6 J
PCB-181	74472-47-2	pg/L	64	14000	-	< 7.67 U	-	< 6.79 U	-	< 7.19 U	-	< 7.69 U	-	< 9.7 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 7.08 U	-	< 6.26 U	-	< 6.63 U	-	< 7.09 U	-	< 8.95 U
PCB-183	52663-69-1	pg/L	64	14000	-	< 8.02 U	-	194	-	11 JN	-	< 8.04 U	-	< 10.2 U
PCB-184	74472-48-3	pg/L	64	14000	-	< 2.52 U	-	< 1.91 U	-	< 2.38 U	-	< 2.85 U	-	< 3.1 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 8.67 U	-	39	-	< 8.13 U	-	< 8.69 U	-	< 11 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 2.22 U	-	< 1.69 U	-	< 2.09 U	-	< 2.51 U	-	< 2.73 U
PCB-187	52663-68-0	pg/L	64	14000	-	< 7.1 UJ	-	390 J	-	21.5 JN	-	< 7.11 UJ	-	14.4 J
PCB-188	74487-85-7	pg/L	64	14000	-	< 2.34 U	-	< 1.77 U	-	< 2.2 U	-	< 2.64 U	-	< 2.88 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 3.94 U	-	16.3	-	< 2.15 U	-	< 3.57 U	-	< 3.05 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 6.86 U	-	78.8	-	< 5.5 U	-	< 6.11 U	-	< 8 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 6.71 U	-	10.6 JN	-	< 6.29 U	-	< 6.72 U	-	< 8.48 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 5.87 U	-	< 5.19 U	-	< 5.5 U	-	< 5.88 U	-	< 7.43 U
PCB-194	35694-08-7	pg/L	64	14000	-	< 3.33 U	-	192	-	7.74 JN	-	6.85 J	-	8.44 J
PCB-195	52663-78-2	pg/L	64	14000	-	< 3.56 U	-	67.7	-	3.77 JN	-	< 2.91 U	-	< 2.73 U
PCB-196	42740-50-1	pg/L	64	14000	-	< 1.13 U	-	110	-	6.29 J	-	< 4.29 U	-	< 1.88 U
PCB-197	33091-17-7	pg/L	64	14000	-	< 0.809 U	-	7.15 J	-	< 1.59 U	-	< 3.06 U	-	< 1.34 U
PCB-198/199	PCB-198/199	pg/L			-	< 0.98 U	-	244	-	15.8 J	-	4.77 JN	-	10.3 J+
PCB-200	52663-73-7	pg/L	64	14000	-	< 0.832 U	-	23.4 JN	-	< 1.64 U	-	< 3.15 U	-	< 1.38 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 0.913 U	-	30.6	-	< 1.8 U	-	< 3.46 U	-	< 1.52 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 0.738 U	-	43 JN	-	4.98 J	-	< 2.8 U	-	2.82 JN
PCB-203	52663-76-0	pg/L	64	14000	-	< 0.874 U	-	137	-	7.47 JN	-	< 3.31 U	-	6.66 J
PCB-204	74472-52-9	pg/L	64	14000	-	< 0.786 U	-	< 1.62 U	-	< 1.55 U	-	< 2.98 U	-	< 1.3 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 2.83 U	-	8.9 JN	-	< 2.93 U	-	< 2.31 U	-	< 2.18 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 19.6 UJ	-	445 J	-	32.1 J	-	10.6 JN	-	19.1 JN
PCB-207	52663-79-3	pg/L	64	14000	-	< 5.25 U	-	37.1 JN	-	< 4.4 U	-	< 5.82 U	-	< 4.46 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 4.72 U	-	170	-	12.6	-	< 5.23 U	-	10.1 J
PCB-209	2051-24-3	pg/L	64	14000	-	4.04 JN	-	591 J	-	51.6 J	-	19.6 J	-	36.9 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	4.04	-	591	-	51.6	-	19.6	-	36.9
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	13.6	-	2720	-	145	-	22.1	-	78.4
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	46.5	-	6740	-	436	-	125	-	219
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	< 3.56 U	-	864	-	46.1	-	11.6	-	28.2
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	691	-	21600	-	1850	-	1030	-	1250
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	67.6	-	6850	-	431	-	164	-	242
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	372	-	441	-	337	-	152	-	160
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	11.3	-	27.4	-	13.3	-	12.6	-	25.1
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 19.6 U	-	652	-	44.7	-	10.6	-	29.2
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	76.4	-	2140	-	214	-	197	-	187
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	100	-	539	-	134	-	311	-	243

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0073-PLW	23B-0073-PLW	23B-0074-PLW	23B-0074-PLW	23B-0075-PLW	23B-0075-PLW	23B-0076-PLW	23B-0076-PLW	23B-0077-PLW	23B-0077-PLW
					Sample Name	23B-0073-PLW-AS-F	23B-0073-PLW-AS-T	23B-0074-PLW-AS-F	23B-0074-PLW-AS-T	23B-0075-PLW-AS-F	23B-0075-PLW-AS-T	23B-0076-PLW-AS-F	23B-0076-PLW-AS-T	23B-0077-PLW-AS-F	23B-0077-PLW-AS-T
					Sample Date	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.4 - 0.4 ft	0.4 - 0.4 ft	0.45 - 0.45 ft	0.45 - 0.45 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	22 J	220	24 J	38 J+	23 J	160	27 J	36 J+	31 J	520 J
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150	0.29 J	0.27 J	0.22 J	0.33 J	0.32 J	0.47 J	0.21 J	0.27 J	0.32 J	0.41 J
Barium	7440-39-3	ug/L	380	220	29	30	30	28	32	34	30	32	31	34
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ
Calcium	7440-70-2	ug/L		116000	13000	13000	14000	13000	13000	14000	14000	15000	14000	14000
Chromium, Total	7440-47-3	ug/L	100	44	0.63 J	1.1 J	1.2 J	0.66 J	0.58 J	1.2 J	0.56 J	0.85 J	0.78 J	0.91 J
Cobalt	7440-48-4	ug/L	0.6	19	0.12 J	0.15 J	0.14 J	0.12 J	0.17 J	0.24 J	0.11 J	0.12 J	0.14 J	0.25 J
Copper	7440-50-8	ug/L	80	5	< 2.0 U	0.92 J	< 2.0 U	< 2.0 U	< 2.0 U	1.4 J	< 2.0 U	< 2.0 U	< 2.0 U	1.8 J
Iron	7439-89-6	ug/L	1400	1000	600	770	420	770	720	1000	430	770	790	1200
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	3.6	< 1.0 U	< 1.0 U	< 1.0 U	3.0
Magnesium	7439-95-4	ug/L		82000	3200	3200	3300	3200	3300	3100	3300	3200	3400	3300
Manganese	7439-96-5	ug/L	43	93	64	73	76	78	130	140	71	74	120	130 J
Nickel	7440-02-0	ug/L	39	27	0.16 J-	0.46 J-	0.53 J-	0.25 J-	0.23 J-	0.36 J-	0.29 J-	0.26 J-	0.26 J-	0.28 J-
Potassium	7440-09-7	ug/L		53000	3700	3700	3800	3800	3800	3600	3800	3700	3800	3700
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	1.1 J	1.2 J	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	53000	54000	55000	55000	54000	52000	55000	54000	56000	54000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.23 J	0.33 J	0.21 J	0.30 J	0.32 J	0.58 J	0.21 J	0.27 J	0.30 J	0.57 J
Zinc	7440-66-6	ug/L	600	11.8	6.2 J+	11 J+	< 5.0 U	5.7 J+	< 5.0 U	11 J+	5.6 J+	11 J+	5.9 J+	26 J
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	3.6 J	-	< 10 U	-	< 10 U
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0073-PLW	23B-0073-PLW	23B-0074-PLW	23B-0074-PLW	23B-0075-PLW	23B-0075-PLW	23B-0076-PLW	23B-0076-PLW	23B-0077-PLW	23B-0077-PLW
					Sample Name	23B-0073-PLW-AS-F	23B-0073-PLW-AS-T	23B-0074-PLW-AS-F	23B-0074-PLW-AS-T	23B-0075-PLW-AS-F	23B-0075-PLW-AS-T	23B-0076-PLW-AS-F	23B-0076-PLW-AS-T	23B-0077-PLW-AS-F	23B-0077-PLW-AS-T
					Sample Date	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.4 - 0.4 ft	0.4 - 0.4 ft	0.45 - 0.45 ft	0.45 - 0.45 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
Styrene	100-42-5	ug/L	100	32	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 U	
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ	
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.0 UJ	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ	-	< 5.0 UJ	
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 UJ	
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0073-PLW	23B-0073-PLW	23B-0074-PLW	23B-0074-PLW	23B-0075-PLW	23B-0075-PLW	23B-0076-PLW	23B-0076-PLW	23B-0077-PLW	23B-0077-PLW
					Sample Name	23B-0073-PLW-AS-F	23B-0073-PLW-AS-T	23B-0074-PLW-AS-F	23B-0074-PLW-AS-T	23B-0075-PLW-AS-F	23B-0075-PLW-AS-T	23B-0076-PLW-AS-F	23B-0076-PLW-AS-T	23B-0077-PLW-AS-F	23B-0077-PLW-AS-T
					Sample Date	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	0.4 - 0.4 ft	0.4 - 0.4 ft	0.45 - 0.45 ft	0.45 - 0.45 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 UJ
FLUORENE	86-73-7	ug/L	29	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	2.5	-	2.5	-	2.9	-	2.7	-	2.9
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	4.5 J-	-	5.0 J-	-	5.9	-	6.2 J-	-	5.1
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	1.9	-	1.8	-	2.2	-	1.9	-	2.1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	1.7 J	-	1.7 J	-	2.0	-	1.7 J	-	1.8 J
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.5	-	3.8	-	3.9	-	3.6	-	4.2
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.55 J	-	0.56 J	-	0.60 J	-	0.49 J	-	0.53 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	0.55 J	-	< 1.9 U	-	0.42 J
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	3.7	-	3.9	-	4.1	-	3.4	-	3.7
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	4.5	-	4.6	-	5.3	-	4.3	-	5.3
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	< 1.8 U	-	0.31 J	-	0.35 J	-	0.28 J	-	0.31 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	3.5	-	3.5	-	4.2	-	3.6	-	4.3
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0073-PLW	23B-0073-PLW	23B-0074-PLW	23B-0074-PLW	23B-0075-PLW	23B-0075-PLW	23B-0076-PLW	23B-0076-PLW	23B-0077-PLW	23B-0077-PLW
				Sample Name	23B-0073-PLW-AS-F	23B-0073-PLW-AS-T	23B-0074-PLW-AS-F	23B-0074-PLW-AS-T	23B-0075-PLW-AS-F	23B-0075-PLW-AS-T	23B-0076-PLW-AS-F	23B-0076-PLW-AS-T	23B-0077-PLW-AS-F	23B-0077-PLW-AS-T
				Sample Date	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/8/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	0.4 - 0.4 ft	0.4 - 0.4 ft	0.45 - 0.45 ft	0.45 - 0.45 ft	0.6 - 0.6 ft	0.6 - 0.6 ft	2.1 - 2.1 ft	2.1 - 2.1 ft	1.3 - 1.3 ft	1.3 - 1.3 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	11.7	-	11.43	-	11	-	11.34	-	10.88
Oxidation-Reduction Potential	ORP	mv			-	250.01	-	152.5	-	97.1	-	230.2	-	69.7
pH	PH	su			-	7.07	-	7.19	-	7.06	-	6.6	-	6.77
Specific Conductance	SC	us/cm			-	412.1	-	413.6	-	413.6	-	405.8	-	409.6
Temperature	TEMP	deg c			-	9.1	-	9.2	-	9.1	-	7.9	-	8
Turbidity	TURB	NTU			-	0.88	-	7.23	-	3.15	-	0.93	-	5.46

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0077-PLW	23B-0077-PLW	23B-0078-PLW	23B-0078-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0080-PLW	23B-0080-PLW
					Sample Name	23B-0077-PLW-AT-F	23B-0077-PLW-AT-T	23B-0078-PLW-AS-F	23B-0078-PLW-AS-T	23B-0079-PLW-AS-F	23B-0079-PLW-AS-T	23B-0079-PLW-AT-F	23B-0079-PLW-AT-T	23B-0080-PLW-AS-F	23B-0080-PLW-AS-T
					Sample Date	11/9/2023	11/9/2023	11/9/2023	11/9/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	FD	FD	N	N	N	N	FD	FD	N	N
					Depth Interval	1.3 - 1.3 ft	1.3 - 1.3 ft	2.3 - 2.3 ft	2.3 - 2.3 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	0.75 - 0.75 ft	0.75 - 0.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.50 U	-	< 0.50 UJ	-	< 0.51 U	-	< 0.51 U	-	< 0.50 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.0 U	-	< 5.0 UJ	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.050 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.051 U	-	< 0.050 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.69 U	-	< 1.77 U	-	< 2.42 U	-	2.75 JN	-	3.49 JN
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.59 U	-	< 1.34 U	-	< 1.21 U	-	< 1.55 U	-	< 1.42 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 2.16 U	-	< 1.87 U	-	< 1.97 U	-	< 1.57 U	-	< 1.57 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.05 U	-	< 1.08 U	-	< 0.933 UJ	-	< 1.11 UJ	-	< 1.38 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 2.16 U	-	< 1.95 U	-	< 2.1 U	-	< 1.7 U	-	< 1.55 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.01 U	-	< 1.01 U	-	< 0.989 U	-	< 1.21 U	-	< 1.34 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 2.08 U	-	< 1.8 U	-	< 1.85 U	-	< 1.52 U	-	< 1.57 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.25 U	-	< 1.38 U	-	< 1.09 U	-	< 1.42 U	-	< 1.82 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 2.26 U	-	< 2.34 U	-	< 1.97 UJ	-	< 1.94 UJ	-	< 1.81 U
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.35 U	-	< 1.38 U	-	< 1.22 U	-	< 1.48 U	-	< 1.32 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 1.23 U	-	< 1.07 U	-	3.25 J-	-	1.82 JN	-	< 1.11 U
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.21 U	-	< 1.2 U	-	< 1.01 U	-	< 1.27 U	-	< 1.52 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.34 U	-	< 1.33 U	-	< 1.23 R	-	< 1.52 R	-	< 1.27 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.9 UJ	-	< 10 UJ	-	< 9.96 UJ	-	< 10 UJ	-	< 9.9 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 1.01 U	-	< 1.42 U	-	< 1.15 U	-	< 1.18 U	-	< 2.65 U
OCDD	3268-87-9	pg/L	400	31	-	9.6 JN	-	4.81 JN	-	11.7 JN	-	13.6 JN	-	18.4 JN
OCDF	39001-02-0	pg/L	400	31	-	< 3.67 U	-	< 2.87 U	-	< 2.88 U	-	< 3 U	-	< 3.72 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.69 U	-	< 1.77 U	-	< 2.42 U	-	2.75	-	3.49
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 1.59 U	-	< 1.34 U	-	3.25 U	-	1.82 U	-	< 1.42 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 2.16 U	-	< 1.95 U	-	< 2.1 U	-	< 1.7 U	-	< 1.57 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.25 U	-	< 1.38 U	-	< 1.09 U	-	< 1.42 U	-	< 1.82 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 2.26 U	-	< 2.34 U	-	< 1.97 U	-	< 1.94 U	-	< 1.81 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.35 U	-	< 1.38 U	-	< 1.22 U	-	< 1.48 U	-	< 1.32 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.9 U	-	< 10 U	-	< 9.96 U	-	< 10 U	-	< 9.9 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 1.01 U	-	< 1.42 U	-	< 1.15 U	-	< 1.18 U	-	< 2.65 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	68.5 J	-	< 5.94 U	-	9.06 J	-	9.86 JN	-	22.8 J+
PCB-002	2051-61-8	pg/L	64	14000	-	< 2.45 U	-	< 3.02 U	-	< 3.4 U	-	< 3.15 U	-	< 2.75 U
PCB-003	2051-62-9	pg/L	64	14000	-	12.8 JN	-	< 3.12 U	-	< 3.59 U	-	< 3.32 U	-	8.72 J+
PCB-004	13029-08-8	pg/L	64	14000	-	391 J	-	30.6 JN	-	238 J	-	227 J	-	237 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 7.93 U	-	< 3.92 U	-	< 6.75 U	-	< 6.05 U	-	< 8.57 U
PCB-006	25569-80-6	pg/L	64	14000	-	16.4 JN	-	2.96 JN	-	11.9 JN	-	11.3 JN	-	11 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 7.44 U	-	< 3.68 U	-	< 6.38 U	-	< 5.72 U	-	< 8.23 U
PCB-008	34883-43-7	pg/L	64	14000	-	132 J	-	< 11 U	-	61 J+	-	62.7 J+	-	62.2 J+
PCB-009	34883-39-1	pg/L	64	14000	-	< 6.86 U	-	< 3.39 U	-	< 5.79 U	-	< 5.19 U	-	< 7.47 U
PCB-010	33146-45-1	pg/L	64	14000	-	96.1 J	-	< 6.03 U	-	19.2 JN	-	14.6 JN	-	19.7 JN

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0077-PLW	23B-0077-PLW	23B-0078-PLW	23B-0078-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0080-PLW	23B-0080-PLW
					Sample Name	23B-0077-PLW-AT-F	23B-0077-PLW-AT-T	23B-0078-PLW-AS-F	23B-0078-PLW-AS-T	23B-0079-PLW-AS-F	23B-0079-PLW-AS-T	23B-0079-PLW-AT-F	23B-0079-PLW-AT-T	23B-0080-PLW-AS-F	23B-0080-PLW-AS-T
					Sample Date	11/9/2023	11/9/2023	11/9/2023	11/9/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	FD	FD	N	N	N	N	FD	FD	N	N
					Depth Interval	1.3 - 1.3 ft	1.3 - 1.3 ft	2.3 - 2.3 ft	2.3 - 2.3 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	0.75 - 0.75 ft	0.75 - 0.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	< 128 UJ	-	< 163 UJ	-	220 J+	-	238 J+	-	648 J
PCB-012/013	PCB-12/13	pg/L			-	< 7.69 U	-	< 3.8 U	-	< 6.43 U	-	< 5.77 U	-	< 8.12 U
PCB-014	34883-41-5	pg/L	64	14000	-	< 7.58 U	-	< 3.74 U	-	< 6.39 U	-	< 5.73 U	-	< 8.27 U
PCB-015	2050-68-2	pg/L	64	14000	-	28.1 JN	-	< 100 UJ	-	33.4 JN	-	32.7 JN	-	26 JN
PCB-016	38444-78-9	pg/L	64	14000	-	< 8.38 U	-	< 7.58 U	-	55.7 JN	-	66.1	-	68.4 J
PCB-017	37680-66-3	pg/L	64	14000	-	92.2 J	-	12.7 J	-	154	-	160	-	152 J+
PCB-018/030	PCB-18/30	pg/L			-	28.3 J+	-	10.9 JN	-	175	-	169	-	179 J+
PCB-019	38444-73-4	pg/L	64	14000	-	165 J	-	< 20 UJ	-	195 J	-	196 J	-	198 J
PCB-020/028	PCB-20/28	pg/L			-	21.3 J+	-	< 16.5 U	-	135 J+	-	132 J+	-	125 J+
PCB-021/033	PCB-21/33	pg/L			-	< 5.82 U	-	< 6.47 U	-	81.7 J+	-	77 J+	-	79.3 J+
PCB-022	38444-85-8	pg/L	64	14000	-	< 5.44 U	-	< 6.05 U	-	40.6	-	40.8	-	38.7 J+
PCB-023	55720-44-0	pg/L	64	14000	-	< 6.17 U	-	< 6.86 U	-	< 10.8 U	-	< 8.86 U	-	< 7.07 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 6.31 U	-	< 5.71 U	-	< 8.41 U	-	< 7.7 U	-	< 5.29 U
PCB-025	55712-37-3	pg/L	64	14000	-	6.13 J	-	< 5.72 U	-	29.2 J	-	26.5 J	-	30.4 J+
PCB-026/029	PCB-26/29	pg/L			-	21.8	-	3.84 JN	-	70.7	-	74.3	-	67.4 J+
PCB-027	38444-76-7	pg/L	64	14000	-	64.3 J	-	< 5.82 U	-	109	-	113	-	100
PCB-031	16606-02-3	pg/L	64	14000	-	45.9 J	-	< 12.2 UJ	-	114 J+	-	116 J+	-	126 J+
PCB-032	38444-77-8	pg/L	64	14000	-	121 J	-	< 7.45 U	-	72.7	-	73.8	-	71.4 J+
PCB-034	37680-68-5	pg/L	64	14000	-	< 6.41 U	-	< 7.13 U	-	< 11.5 U	-	< 9.46 U	-	< 7.26 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 6.02 U	-	< 6.69 U	-	< 10.4 U	-	< 8.51 U	-	< 6.46 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 5.32 U	-	< 5.92 U	-	< 9.28 U	-	< 7.62 U	-	< 5.8 U
PCB-037	38444-90-5	pg/L	64	14000	-	< 6.06 UJ	-	< 6.74 UJ	-	21.5	-	23.7	-	20.8 J
PCB-038	53555-66-1	pg/L	64	14000	-	< 5.82 U	-	< 6.48 U	-	< 10.2 U	-	< 8.37 U	-	< 6.36 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 5.78 U	-	< 6.43 U	-	< 10.2 U	-	< 8.34 U	-	< 6.52 U
PCB-040/071	PCB-40/71	pg/L			-	12.8 J	-	6.1 JN	-	89.7	-	78.7	-	84.9 J+
PCB-041	52663-59-9	pg/L	64	14000	-	< 4.89 U	-	< 4.19 U	-	8.31 J	-	8.13 J	-	10.4 J+
PCB-042	36559-22-5	pg/L	64	14000	-	5.88 J	-	4.61 J	-	41.4 JN	-	41.4	-	41.1 J+
PCB-043	70362-46-8	pg/L	64	14000	-	< 3.64 U	-	< 3.12 U	-	5.93 JN	-	9.26 J	-	8.03 JN
PCB-044/047/065	PCB-44/47/65	pg/L			-	39.2 J	-	21.3 JN	-	229	-	225	-	226 J+
PCB-045	70362-45-7	pg/L	64	14000	-	3.79 JN	-	2.7 JN	-	21.3 JN	-	17.7 JN	-	34.8 J+
PCB-046	41464-47-5	pg/L	64	14000	-	< 4.67 U	-	< 4 U	-	23.8	-	20.5	-	25.2
PCB-048	70362-47-9	pg/L	64	14000	-	< 3.87 U	-	< 3.31 U	-	19 JN	-	22.4 J+	-	24.1 J+
PCB-049/069	PCB-49/69	pg/L			-	25.8 J+	-	12.6 J+	-	157	-	153	-	169
PCB-050/053	PCB-50/53	pg/L			-	18.5 J	-	6.79 J	-	166	-	169	-	163
PCB-051	68194-04-7	pg/L	64	14000	-	10.1	-	< 2.97 U	-	20.6 J	-	19 JN	-	21.2 J
PCB-052	35693-99-3	pg/L	64	14000	-	35.8 J	-	23.9 J	-	286	-	291	-	304
PCB-054	15968-05-5	pg/L	64	14000	-	< 2.48 U	-	< 2.19 U	-	18.9	-	14.5	-	14.3 JN
PCB-055	74338-24-2	pg/L	64	14000	-	< 3.41 U	-	< 4.49 U	-	< 3.93 U	-	< 4.64 U	-	< 4.24 U
PCB-056	41464-43-1	pg/L	64	14000	-	< 3.69 UJ	-	< 4.86 UJ	-	17.6 JN	-	17.7	-	17.9 J
PCB-057	70424-67-8	pg/L	64	14000	-	< 3.9 U	-	< 5.13 U	-	< 4.31 U	-	< 5.1 U	-	< 4.64 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 3.56 U	-	< 4.69 U	-	< 3.79 U	-	< 4.48 U	-	< 4.19 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	< 3.14 U	-	< 2.69 U	-	16.2 J	-	16.4 J	-	17.7 J+
PCB-060	33025-41-1	pg/L	64	14000	-	< 4.22 U	-	< 5.56 U	-	12.5 J	-	10.5 JN	-	9.29 JN
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	18 J	-	18 J	-	107	-	106	-	107 J+
PCB-063	74472-34-7	pg/L	64	14000	-	< 4.13 U	-	< 5.44 U	-	5.66 JN	-	< 5.4 U	-	< 4.91 U
PCB-064	52663-58-8	pg/L	64	14000	-	8.41 J+	-	6.82 J+	-	40.6	-	41.7	-	41.8 J
PCB-066	32598-10-0	pg/L	64	14000	-	10.6 JN	-	7.81 JN	-	68.6 J	-	70.2 J	-	62.7 J
PCB-067	73575-53-8	pg/L	64	14000	-	< 3.22 U	-	< 4.24 U	-	< 3.65 U	-	< 4.31 U	-	< 3.97 U
PCB-068	73575-52-7	pg/L	64	14000	-	< 3.66 U	-	< 4.82 U	-	4.14 JN	-	6.71 J	-	5.48 JN
PCB-072	41464-42-0	pg/L	64	14000	-	< 3.77 U	-	< 4.96 U	-	5.85 J	-	7.61 J	-	6.21 J
PCB-073	74338-23-1	pg/L	64	14000	-	< 2.85 U	-	< 2.44 U	-	7.89 J	-	6.06 J	-	6.7 JN
PCB-077	32598-13-3	pg/L	64	14000	-	< 3.54 U	-	< 4.67 U	-	< 4.3 U	-	< 4.76 U	-	< 4.48 U
PCB-078	70362-49-1	pg/L	64	14000	-	< 3.92 U	-	< 5.17 U	-	< 4.28 U	-	< 5.06 U	-	< 4.65 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 3.28 U	-	< 4.32 U	-	< 3.62 U	-	< 4.28 U	-	< 3.97 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 3.53 U	-	< 4.65 U	-	< 3.93 U	-	< 4.64 U	-	< 4.28 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 3.74 U	-	< 4.92 U	-	< 4.06 U	-	< 4.79 U	-	< 4.19 U
PCB-082	52663-62-4	pg/L	64	14000	-	< 4.89 U	-	< 6.98 U	-	11.2 JN	-	14.4	-	13.9
PCB-083	60145-20-2	pg/L	64	14000	-	< 6.64 U	-	< 9.48 U	-	8.97 JN	-	9.31 J	-	25.7 J
PCB-084	52663-60-2	pg/L	64	14000	-	5.68 JN	-	< 8.26 UJ	-	55.8 J	-	57.8 JN	-	72.4

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0077-PLW	23B-0077-PLW	23B-0078-PLW	23B-0078-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0080-PLW	23B-0080-PLW
					Sample Name	23B-0077-PLW-AT-F	23B-0077-PLW-AT-T	23B-0078-PLW-AS-F	23B-0078-PLW-AS-T	23B-0079-PLW-AS-F	23B-0079-PLW-AS-T	23B-0079-PLW-AT-F	23B-0079-PLW-AT-T	23B-0080-PLW-AS-F	23B-0080-PLW-AS-T
					Sample Date	11/9/2023	11/9/2023	11/9/2023	11/9/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	FD	FD	N	N	N	N	FD	FD	N	N
					Depth Interval	1.3 - 1.3 ft	1.3 - 1.3 ft	2.3 - 2.3 ft	2.3 - 2.3 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	0.75 - 0.75 ft	0.75 - 0.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	< 4.28 U	-	< 6.11 U	-	29.1	-	24.3	-	31.9
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	16.3 JN	-	20.1 J+	-	107	-	114	-	125
PCB-088	55215-17-3	pg/L	64	14000	-	< 6.31 U	-	< 9.01 U	-	< 8.27 U	-	< 6.19 U	-	< 6.08 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 5.05 U	-	< 7.21 U	-	< 7.74 U	-	< 5.79 U	-	< 5.52 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	30.6 J	-	36.6 J	-	192	-	213	-	234
PCB-091	68194-05-8	pg/L	64	14000	-	< 4.3 U	-	< 6.14 U	-	44.7 J	-	43.7 J	-	43.8
PCB-092	52663-61-3	pg/L	64	14000	-	7.57 J	-	< 7.44 UJ	-	54.6 J	-	55.8 JN	-	70.6
PCB-093/100	PCB-93/100	pg/L			-	< 5.41 U	-	< 7.72 U	-	< 8.58 U	-	< 6.42 U	-	< 5.76 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 5.66 U	-	< 8.07 U	-	< 9.16 U	-	< 6.85 U	-	< 6.42 U
PCB-095	38379-99-6	pg/L	64	14000	-	22.6 J	-	20.8 JN	-	204 J	-	218 J	-	231
PCB-096	73575-54-9	pg/L	64	14000	-	< 2.59 U	-	< 2.06 U	-	< 2.89 U	-	1.95 JN	-	2.9 JN
PCB-098	60233-25-2	pg/L	64	14000	-	< 4.79 U	-	< 6.84 U	-	< 7.62 U	-	< 5.7 U	-	< 4.97 U
PCB-099	38380-01-7	pg/L	64	14000	-	10.3 JN	-	8.37 J	-	74.3 J	-	87.4 J	-	74.7
PCB-102	68194-06-9	pg/L	64	14000	-	< 3.86 U	-	< 5.51 U	-	7.6 J	-	< 4.69 UJ	-	8.99 JN
PCB-103	60145-21-3	pg/L	64	14000	-	< 4.77 U	-	< 6.81 U	-	< 7.82 U	-	< 5.85 U	-	6.04 JN
PCB-104	56558-16-8	pg/L	64	14000	-	< 2.31 U	-	< 1.83 U	-	< 2.42 U	-	< 1.89 U	-	< 1.93 U
PCB-105	32598-14-4	pg/L	64	14000	-	9.84 JN	-	10.6 J	-	22 J	-	28 J	-	27.5
PCB-106	70424-69-0	pg/L	64	14000	-	< 3.46 U	-	< 4.94 U	-	< 5.36 U	-	< 4.01 U	-	< 3.74 U
PCB-107	70424-68-9	pg/L	64	14000	-	< 3.52 U	-	< 5.03 U	-	6.46 JN	-	10.3	-	10.9
PCB-108/124	PCB-108/124	pg/L			-	< 3.69 U	-	< 5.26 U	-	< 5.85 U	-	5.72 JN	-	6.22 JN
PCB-110	38380-03-9	pg/L	64	14000	-	28.6 J	-	26.3 J	-	174 J	-	192 J	-	241
PCB-111	39635-32-0	pg/L	64	14000	-	< 3.66 U	-	< 5.22 U	-	< 5.76 U	-	< 4.31 U	-	< 4.03 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 2.96 U	-	< 4.22 U	-	< 4.86 U	-	< 3.64 U	-	< 3.5 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 3.59 U	-	< 4.76 U	-	< 5.27 U	-	< 3.85 U	-	< 3.78 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 3.02 U	-	< 4.31 U	-	2.6 JN	-	< 4.02 U	-	< 3.3 U
PCB-117	68194-11-6	pg/L	64	14000	-	< 4.28 U	-	< 6.11 U	-	< 6.59 U	-	7.83 J	-	7.48 J
PCB-118	31508-00-6	pg/L	64	14000	-	19.8 J	-	22.8 J	-	93.3 J	-	99 J	-	118
PCB-120	68194-12-7	pg/L	64	14000	-	< 3.01 U	-	< 4.3 U	-	< 4.77 U	-	< 3.57 U	-	< 3.32 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 3.35 U	-	< 4.78 U	-	< 5.26 U	-	< 3.94 U	-	< 3.71 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 4.36 U	-	< 5.78 U	-	< 6.88 U	-	< 5.02 U	-	< 4.68 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 3.48 U	-	< 4.97 U	-	< 5.35 U	-	< 4.01 U	-	< 3.73 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 3.02 U	-	< 3.38 U	-	< 3.63 U	-	< 4.55 U	-	< 3.04 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 3.62 U	-	< 5.28 U	-	< 6.02 U	-	< 4.24 U	-	< 3.95 U
PCB-128/166	PCB-128/166	pg/L			-	5.36 JN	-	< 3.85 U	-	20.3 J	-	29.5 J	-	28.2 J
PCB-129/138/163	PCB-129/138/163	pg/L			-	42.6 J	-	41.7 J	-	160 J	-	194 J	-	204
PCB-130	52663-66-8	pg/L	64	14000	-	< 2.72 U	-	< 2.56 U	-	7.43 JN	-	14.4 J	-	16.3
PCB-131	61798-70-7	pg/L	64	14000	-	< 2.39 U	-	< 2.25 U	-	< 2.25 U	-	< 2.55 U	-	< 2.19 U
PCB-132	38380-05-1	pg/L	64	14000	-	9.35 JN	-	8.79 JN	-	50.6 J	-	57.7 J	-	59.5 J
PCB-133	35694-04-3	pg/L	64	14000	-	< 2.12 U	-	< 2 U	-	< 1.95 U	-	< 2.21 U	-	< 1.93 U
PCB-134	52704-70-8	pg/L	64	14000	-	< 2.97 U	-	< 2.79 U	-	9.71 JN	-	12 JN	-	10.7 JN
PCB-135/151	PCB-135/151	pg/L			-	9.8 J	-	5.31 JN	-	38.9 J	-	42.6 J	-	53.2
PCB-136	38411-22-2	pg/L	64	14000	-	3.57 JN	-	3.59 J	-	18.1 JN	-	21.3 JN	-	20.7 JN
PCB-137	35694-06-5	pg/L	64	14000	-	< 2.55 U	-	< 2.4 U	-	6.05 JN	-	4.64 JN	-	10.5 J
PCB-139/140	PCB-139/140	pg/L			-	< 2.12 U	-	< 1.99 U	-	< 1.94 U	-	< 2.2 U	-	3.23 JN
PCB-141	52712-04-6	pg/L	64	14000	-	7.45 JN	-	7.03 J	-	12.7 JN	-	27.7 J	-	23.7 JN
PCB-142	41411-61-4	pg/L	64	14000	-	< 2.34 U	-	< 2.21 U	-	< 2.22 U	-	< 2.51 U	-	< 2.17 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 2.06 U	-	< 1.93 U	-	< 2 U	-	< 2.27 U	-	< 2.16 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 2.23 U	-	< 2.1 U	-	5.27 JN	-	6.08 JN	-	4.13 JN
PCB-145	74472-40-5	pg/L	64	14000	-	< 1.56 U	-	< 1.43 U	-	< 1.41 U	-	< 1.72 U	-	< 1.32 U
PCB-146	51908-16-8	pg/L	64	14000	-	3.39 JN	-	2.21 JN	-	13.1 JN	-	18.3 JN	-	23.7
PCB-147/149	PCB-147/149	pg/L			-	21 J	-	18.2 JN	-	108 J	-	122 J	-	126
PCB-148	74472-41-6	pg/L	64	14000	-	< 2.15 U	-	< 2.02 U	-	< 1.98 U	-	< 2.25 U	-	< 1.96 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 1.67 U	-	< 1.53 U	-	< 1.52 U	-	< 1.84 U	-	< 1.39 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 1.52 U	-	< 1.39 U	-	< 1.35 U	-	< 1.64 U	-	< 1.26 U
PCB-153/168	PCB-153/168	pg/L			-	34.2 J	-	29.6 J	-	109 J	-	127 J	-	142
PCB-154	60145-22-4	pg/L	64	14000	-	< 1.98 U	-	< 1.86 U	-	< 1.85 U	-	< 2.1 U	-	< 1.84 U

Table 17
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Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0077-PLW	23B-0077-PLW	23B-0078-PLW	23B-0078-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0080-PLW	23B-0080-PLW
					Sample Name	23B-0077-PLW-AT-F	23B-0077-PLW-AT-T	23B-0078-PLW-AS-F	23B-0078-PLW-AS-T	23B-0079-PLW-AS-F	23B-0079-PLW-AS-T	23B-0079-PLW-AT-F	23B-0079-PLW-AT-T	23B-0080-PLW-AS-F	23B-0080-PLW-AS-T
					Sample Date	11/9/2023	11/9/2023	11/9/2023	11/9/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	FD	FD	N	N	N	N	FD	FD	N	N
					Depth Interval	1.3 - 1.3 ft	1.3 - 1.3 ft	2.3 - 2.3 ft	2.3 - 2.3 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	0.75 - 0.75 ft	0.75 - 0.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 1.41 U	-	< 1.3 U	-	< 1.23 U	-	< 1.5 U	-	< 1.26 U
PCB-156/157	PCB-156/157	pg/L			-	< 4.12 U	-	< 4.69 U	-	11 J	-	13.8 J	-	19.3 J
PCB-158	74472-42-7	pg/L	64	14000	-	< 1.57 U	-	< 1.48 U	-	14.5 JN	-	20.5 J	-	15.7 JN
PCB-159	39635-35-3	pg/L	64	14000	-	< 2.5 U	-	< 2.9 U	-	< 2.98 U	-	< 2.41 U	-	< 2.81 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 1.78 U	-	< 1.68 U	-	< 1.62 U	-	< 1.83 U	-	< 1.63 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 1.58 U	-	< 1.49 U	-	< 1.43 U	-	< 1.62 U	-	< 1.45 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 2.95 U	-	< 3.43 U	-	< 3.45 U	-	< 2.79 U	-	< 3.33 U
PCB-164	74472-45-0	pg/L	64	14000	-	< 1.48 U	-	< 1.39 U	-	7.21 JN	-	9.83 J	-	9.81 JN
PCB-165	74472-46-1	pg/L	64	14000	-	< 1.81 U	-	< 1.7 U	-	< 1.69 U	-	< 1.92 U	-	< 1.71 U
PCB-167	52663-72-6	pg/L	64	14000	-	< 2.86 U	-	< 3.32 U	-	4.03 JN	-	6.61 J	-	8.49 J
PCB-169	32774-16-6	pg/L	4	14000	-	< 3.19 U	-	< 3.51 U	-	< 4.8 U	-	< 3.72 U	-	< 4.77 U
PCB-170	35065-30-6	pg/L	64	14000	-	8.4 JN	-	< 4.71 UJ	-	12.5 JN	-	9.27 JN	-	20.6
PCB-171/173	PCB-171/173	pg/L			-	< 6.07 U	-	< 5.06 U	-	< 6.9 U	-	6.6 JN	-	6.85 JN
PCB-172	52663-74-8	pg/L	64	14000	-	< 5.84 U	-	< 4.86 U	-	< 6.48 U	-	< 4.82 U	-	< 4.49 U
PCB-174	38411-25-5	pg/L	64	14000	-	8.44 J	-	5.01 JN	-	13.1	-	10.3	-	15.5
PCB-175	40186-70-7	pg/L	64	14000	-	< 6.18 U	-	< 5.15 U	-	< 6.71 U	-	< 4.99 U	-	< 4.59 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 2.96 U	-	< 3.46 U	-	< 3.36 U	-	< 3.67 U	-	2.93 JN
PCB-177	52663-70-4	pg/L	64	14000	-	< 5.58 U	-	< 4.65 U	-	< 6.15 UJ	-	7.31 JN	-	8.94 JN
PCB-178	52663-67-9	pg/L	64	14000	-	< 3.74 U	-	< 4.36 U	-	2.78 JN	-	< 4.57 U	-	6.59 J
PCB-179	52663-64-6	pg/L	64	14000	-	< 2.6 U	-	< 3.03 U	-	4.08 JN	-	5.06 J	-	6.35 J
PCB-180/193	PCB-180/193	pg/L			-	23.2 J	-	13.5 JN	-	23.5 JN	-	33.3 J	-	37.7 J+
PCB-181	74472-47-2	pg/L	64	14000	-	< 5.3 U	-	< 4.41 U	-	< 5.8 U	-	< 4.31 U	-	< 4.05 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 4.89 U	-	< 4.07 U	-	< 5.53 U	-	< 4.11 U	-	< 3.78 U
PCB-183	52663-69-1	pg/L	64	14000	-	< 5.54 U	-	4.72 JN	-	8.66 J	-	9.38 JN	-	11.8 J
PCB-184	74472-48-3	pg/L	64	14000	-	< 2.74 U	-	< 3.2 U	-	< 3.14 U	-	< 3.43 U	-	< 2.43 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 5.99 U	-	< 4.99 U	-	< 7.36 U	-	< 5.47 U	-	< 4.6 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 2.42 U	-	< 2.82 U	-	< 2.79 U	-	< 3.05 U	-	< 2.16 U
PCB-187	52663-68-0	pg/L	64	14000	-	7.11 JN	-	5.07 JN	-	12.8	-	17.1	-	19.8
PCB-188	74487-85-7	pg/L	64	14000	-	< 2.54 U	-	< 2.96 U	-	< 2.75 U	-	< 3 U	-	< 2.48 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 2.76 U	-	< 1.85 U	-	< 4.23 U	-	< 3.51 U	-	< 3.48 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 4.32 U	-	< 3.39 U	-	< 5.53 U	-	< 3.76 U	-	< 3.34 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 4.63 U	-	< 3.86 U	-	< 5.24 U	-	< 3.89 U	-	< 3.55 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 4.05 U	-	< 3.38 U	-	< 4.59 U	-	< 3.41 U	-	< 3.13 U
PCB-194	35694-08-7	pg/L	64	14000	-	< 3.06 U	-	< 2.65 U	-	4.75 J	-	5.08 J	-	6.5 J
PCB-195	52663-78-2	pg/L	64	14000	-	< 3.28 U	-	< 2.83 U	-	< 2.79 U	-	3.18 JN	-	< 3.76 U
PCB-196	42740-50-1	pg/L	64	14000	-	2.1 JN	-	< 1.15 U	-	< 4.06 U	-	< 1.39 U	-	2.8 JN
PCB-197	33091-17-7	pg/L	64	14000	-	< 1.28 U	-	< 0.82 U	-	< 3.17 U	-	< 1.08 U	-	< 1.74 U
PCB-198/199	PCB-198/199	pg/L			-	5.83 JN	-	3.88 JN	-	4.71 JN	-	7.25 J	-	7.53 JN
PCB-200	52663-73-7	pg/L	64	14000	-	< 1.31 U	-	< 0.844 U	-	< 3.15 U	-	< 1.08 U	-	< 1.79 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 1.44 U	-	< 0.927 U	-	< 3.41 U	-	< 1.17 U	-	< 1.94 U
PCB-202	2136-99-4	pg/L	64	14000	-	1.99 J	-	1.41 JN	-	< 2.69 U	-	< 0.92 U	-	2.05 JN
PCB-203	52663-76-0	pg/L	64	14000	-	3.77 JN	-	2.13 JN	-	< 3.3 U	-	< 1.13 U	-	5.35 J
PCB-204	74472-52-9	pg/L	64	14000	-	< 1.24 U	-	< 0.798 U	-	< 2.97 U	-	< 1.02 U	-	< 1.68 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 2.61 U	-	< 2.25 U	-	< 2.33 U	-	< 2.64 U	-	< 2.94 U
PCB-206	40186-72-9	pg/L	64	14000	-	12.8 J	-	< 20 UJ	-	< 20 UJ	-	< 20 UJ	-	< 19.8 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 4.9 U	-	< 5.36 U	-	< 4.76 U	-	< 3.27 U	-	< 4.19 U
PCB-208	52663-77-1	pg/L	64	14000	-	5.72 J	-	5.96 J	-	< 4.23 U	-	< 2.91 U	-	< 3.8 U
PCB-209	2051-24-3	pg/L	64	14000	-	19.4 J	-	17.6 JN	-	3.28 J	-	< 2.49 U	-	5.9 JN
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	19.4	-	17.6	-	3.28	-	< 2.49 U	-	5.9
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	47.2	-	28.3	-	77.4	-	98.3	-	137
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	137	-	116	-	596	-	728	-	779
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	13.7	-	7.42	-	9.46	-	15.5	-	24.2
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	1890	-	493	-	4990	-	5240	-	5990
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	151	-	146	-	1090	-	1180	-	1350
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	664	-	33.6	-	583	-	586	-	1000
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	81.3	-	< 5.94 U	-	9.06	-	9.86	-	31.5
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	18.5	-	5.96	-	< 20 U	-	< 20 U	-	< 19.8 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	189	-	111	-	1370	-	1350	-	1400
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	566	-	27.4	-	1250	-	1270	-	1260

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0077-PLW	23B-0077-PLW	23B-0078-PLW	23B-0078-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0080-PLW	23B-0080-PLW
					Sample Name	23B-0077-PLW-AT-F	23B-0077-PLW-AT-T	23B-0078-PLW-AS-F	23B-0078-PLW-AS-T	23B-0079-PLW-AS-F	23B-0079-PLW-AS-T	23B-0079-PLW-AT-F	23B-0079-PLW-AT-T	23B-0080-PLW-AS-F	23B-0080-PLW-AS-T
					Sample Date	11/9/2023	11/9/2023	11/9/2023	11/9/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	FD	FD	N	N	N	N	FD	FD	N	N
					Depth Interval	1.3 - 1.3 ft	1.3 - 1.3 ft	2.3 - 2.3 ft	2.3 - 2.3 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	0.75 - 0.75 ft	0.75 - 0.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	28 J	130 J	20 J	34 J+	55 J+	66	54 J+	68	75 J	64
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.18 J	0.19 J
Arsenic	7440-38-2	ug/L	0.018	150	0.25 J	0.25 J	0.26 J	0.29 J	0.50 J	0.51 J	0.56 J	0.54 J	0.45 J	0.51 J
Barium	7440-39-3	ug/L	380	220	31	28	28	30	38	37	38	38	36	37
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	14000	13000	13000	14000	15000	15000	15000	15000	13000	14000
Chromium, Total	7440-47-3	ug/L	100	44	1.1 J	2.1	0.71 J	0.91 J	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.92 J	1.1 J
Cobalt	7440-48-4	ug/L	0.6	19	0.15 J	0.17 J	0.11 J	0.13 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.21 J	0.28 J
Copper	7440-50-8	ug/L	80	5	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	1.6 J	1.9 J	1.4 J	1.8 J	1.8 J	2.1
Iron	7439-89-6	ug/L	1400	1000	700	830	400	790	910	1300	1000	1300	640	1200
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	1.2 J+	< 1.0 U	1.1 J+	1.1 J+	1.5 J+	1.2 J+	1.7	< 1.0 U	1.7
Magnesium	7439-95-4	ug/L		82000	3300	3000	3300	3300	4300	4200	4200	4100	3600	4000
Manganese	7439-96-5	ug/L	43	93	98	92 J	74	80	140	160	140	160	120	150
Nickel	7440-02-0	ug/L	39	27	0.52 J-	0.48 J-	0.14 J-	0.33 J-	0.37 J-	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	0.90 J	0.92 J
Potassium	7440-09-7	ug/L		53000	3800	3500	3700	3800	2900	2800	2900	2800	2300	2600
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	55000	51000	54000	54000	69000	67000	68000	66000	59000	67000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.31 J	0.30 J	0.21 J	0.28 J	0.78 J	1.0 J	0.88 J	1.0 J	0.67 J	1.0 J
Zinc	7440-66-6	ug/L	600	11.8	7.5 J+	12 J	5.7 J+	6.3 J+	8.3	7.8 J	6.1	8.7 J	7.2 J+	7.9
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	2.9 J	-	< 10 U	-	< 10 U
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0077-PLW	23B-0077-PLW	23B-0078-PLW	23B-0078-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0080-PLW	23B-0080-PLW
					Sample Name	23B-0077-PLW-AT-F	23B-0077-PLW-AT-T	23B-0078-PLW-AS-F	23B-0078-PLW-AS-T	23B-0079-PLW-AS-F	23B-0079-PLW-AS-T	23B-0079-PLW-AT-F	23B-0079-PLW-AT-T	23B-0080-PLW-AS-F	23B-0080-PLW-AS-T
					Sample Date	11/9/2023	11/9/2023	11/9/2023	11/9/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	FD	FD	N	N	N	N	FD	FD	N	N
					Depth Interval	1.3 - 1.3 ft	1.3 - 1.3 ft	2.3 - 2.3 ft	2.3 - 2.3 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	0.75 - 0.75 ft	0.75 - 0.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Styrene	100-42-5	ug/L	100	32	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 R	-	< 0.50 R	
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Toluene	108-88-3	ug/L	57	62	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 UJ	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.0 U	-	< 5.0 UJ	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.0 U	-	< 5.0 UJ	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.1 UJ	-	< 5.1 UJ	-	< 5.0 UJ	
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 UJ	-	< 10 U	-	< 10 U	-	< 10 U	
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0077-PLW	23B-0077-PLW	23B-0078-PLW	23B-0078-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0080-PLW	23B-0080-PLW
					Sample Name	23B-0077-PLW-AT-F	23B-0077-PLW-AT-T	23B-0078-PLW-AS-F	23B-0078-PLW-AS-T	23B-0079-PLW-AS-F	23B-0079-PLW-AS-T	23B-0079-PLW-AT-F	23B-0079-PLW-AT-T	23B-0080-PLW-AS-F	23B-0080-PLW-AS-T
					Sample Date	11/9/2023	11/9/2023	11/9/2023	11/9/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	FD	FD	N	N	N	N	FD	FD	N	N
					Depth Interval	1.3 - 1.3 ft	1.3 - 1.3 ft	2.3 - 2.3 ft	2.3 - 2.3 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	0.75 - 0.75 ft	0.75 - 0.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.0 U	-	< 5.0 UJ	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
FLUORENE	86-73-7	ug/L	29	19	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	1.8 J	
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.0 U	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	2.8	-	2.7	-	2.2	-	2.1	-	2.3	
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	5.7 J-	-	6.8 J-	-	3.9	-	3.7	-	4.0	
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	< 1.7 U	-	< 1.7 U	-	0.38 J	-	0.34 J	-	0.37 J	
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	1.9	-	1.9	-	1.5 J-	-	1.5 J-	-	1.6 J-	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	1.7	-	1.7	-	1.9	-	1.9	-	1.9	
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.4	-	3.6	-	3.6	-	3.7	-	3.9	
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.56 J	-	0.50 J	-	0.71 J	-	0.66 J	-	0.69 J	
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.7 U	-	< 1.7 U	-	0.36 J	-	0.34 J	-	0.38 J	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	3.3	-	3.4	-	4.4	-	4.0	-	4.2	
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	4.3	-	4.2	-	4.3	-	4.3	-	4.5	
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.28 J	-	0.27 J	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	3.7	-	3.7	-	3.2	-	3.1	-	3.3	
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0077-PLW	23B-0077-PLW	23B-0078-PLW	23B-0078-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0079-PLW	23B-0080-PLW	23B-0080-PLW
				Sample Name	23B-0077-PLW-AT-F	23B-0077-PLW-AT-T	23B-0078-PLW-AS-F	23B-0078-PLW-AS-T	23B-0079-PLW-AS-F	23B-0079-PLW-AS-T	23B-0079-PLW-AT-F	23B-0079-PLW-AT-T	23B-0080-PLW-AS-F	23B-0080-PLW-AS-T
				Sample Date	11/9/2023	11/9/2023	11/9/2023	11/9/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
				Sample Type	FD	FD	N	N	N	N	FD	FD	N	N
				Depth Interval	1.3 - 1.3 ft	1.3 - 1.3 ft	2.3 - 2.3 ft	2.3 - 2.3 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	2.25 - 2.25 ft	0.75 - 0.75 ft	0.75 - 0.75 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.7 U	-	< 1.7 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	-	-	11.34	-	8.08	-	-	-	8.2
Oxidation-Reduction Potential	ORP	mv			-	-	-	180.5	-	125.5	-	-	-	98.3
pH	PH	su			-	-	-	6.98	-	6.47	-	-	-	6.68
Specific Conductance	SC	us/cm			-	-	-	406.4	-	454.9	-	-	-	456
Temperature	TEMP	deg c			-	-	-	7.9	-	12.1	-	-	-	12.3
Turbidity	TURB	NTU			-	-	-	1.08	-	1.27	-	-	-	1.34

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0081-PLW	23B-0081-PLW	23B-0082-PLW	23B-0082-PLW	23B-0083-PLW	23B-0083-PLW	23B-0084-PLW	23B-0084-PLW	23B-0085-PLW	23B-0085-PLW
					Sample Name	23B-0081-PLW-AS-F	23B-0081-PLW-AS-T	23B-0082-PLW-AS-F	23B-0082-PLW-AS-T	23B-0083-PLW-AS-F	23B-0083-PLW-AS-T	23B-0084-PLW-AS-F	23B-0084-PLW-AS-T	23B-0085-PLW-AS-F	23B-0085-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.9 - 2.9 ft	2.9 - 2.9 ft	3.4 - 3.4 ft	3.4 - 3.4 ft	2.65 - 2.65 ft	2.65 - 2.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1.8 - 1.8 ft	1.8 - 1.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.051 U	-	< 0.051 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 UJ
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.051 U	-	< 0.051 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 UJ
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.051 U	-	< 0.051 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 UJ
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.051 U	-	< 0.051 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 UJ
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 UJ
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.051 U	-	< 0.051 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 UJ
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.051 U	-	< 0.051 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 UJ
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 UJ
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 UJ
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 UJ
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 UJ
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 UJ
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.051 U	-	< 0.051 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 UJ
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.051 U	-	< 0.051 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 UJ
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.051 U	-	< 0.051 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 UJ
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.51 U	-	< 0.51 U	-	< 0.50 UJ	-	< 0.51 U	-	< 0.50 UJ
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 UJ
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 UJ
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 UJ
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.1 U	-	< 5.1 U	-	< 5.0 UJ	-	< 5.1 U	-	< 5.0 UJ
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.051 U	-	< 0.051 U	-	< 0.050 UJ	-	< 0.051 U	-	< 0.050 UJ
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 2 U	-	< 2.24 U	-	< 1.76 U	-	3.24 JN	-	< 1.38 U
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.37 U	-	< 1.58 U	-	< 1.24 U	-	< 2.12 U	-	< 1.5 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.97 U	-	< 1.97 U	-	< 1.55 U	-	< 2.35 U	-	< 1.81 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.48 U	-	< 1.42 U	-	< 0.983 U	-	< 1.51 U	-	< 1.23 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.94 U	-	< 2.07 U	-	< 1.69 U	-	< 2.71 U	-	< 1.94 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.47 U	-	< 1.54 U	-	< 0.946 U	-	< 1.51 U	-	< 1.18 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 2 U	-	< 2.08 U	-	< 1.61 U	-	< 2.33 U	-	< 1.78 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.92 U	-	< 1.94 U	-	< 1.22 U	-	< 1.89 U	-	< 1.63 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 1.78 U	-	< 1.87 U	-	< 1.42 U	-	< 2.46 U	-	< 1.62 U
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.26 U	-	< 1.94 U	-	< 1.25 U	-	< 1.69 U	-	< 1.63 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 1.02 U	-	< 1.33 U	-	< 0.966 U	-	2.16 J	-	1.59 J
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.7 U	-	< 1.59 U	-	< 1.13 U	-	< 1.68 U	-	< 1.36 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.21 U	-	< 1.83 U	-	< 1.26 U	-	< 1.72 U	-	< 1.44 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.8 UJ	-	< 10.1 UJ	-	< 9.8 UJ	-	< 9.9 UJ	-	< 10 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 2.65 U	-	< 2.85 U	-	< 1.66 U	-	< 1.83 U	-	< 1.31 U
OCDD	3268-87-9	pg/L	400	31	-	12.8 JN	-	9.34 JN	-	13.4 JN	-	12.5 J	-	18.4 J
OCDF	39001-02-0	pg/L	400	31	-	< 3.26 U	-	< 4.86 U	-	< 2.74 U	-	< 3.58 U	-	< 2.72 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 2 U	-	< 2.24 U	-	< 1.76 U	-	3.24	-	< 1.38 U
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 1.37 U	-	< 1.58 U	-	< 1.24 U	-	2.16 U	-	1.59
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 2 U	-	< 2.08 U	-	< 1.69 U	-	< 2.71 U	-	< 1.94 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.92 U	-	< 1.94 U	-	< 1.22 U	-	< 1.89 U	-	< 1.63 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 1.78 U	-	< 1.87 U	-	< 1.42 U	-	< 2.46 U	-	< 1.62 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.26 U	-	< 1.94 U	-	< 1.26 U	-	< 1.72 U	-	< 1.63 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.8 U	-	< 10.1 U	-	< 9.8 U	-	< 9.9 U	-	< 10 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 2.65 U	-	< 2.85 U	-	< 1.66 U	-	< 1.83 U	-	< 1.31 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	13.2 J+	-	13.6 J+	-	21.7 JN	-	19.5 J+	-	21.4 J+
PCB-002	2051-61-8	pg/L	64	14000	-	< 2.36 U	-	4.37 J	-	< 2.92 U	-	3.99 J	-	< 2.57 U
PCB-003	2051-62-9	pg/L	64	14000	-	< 2.51 U	-	5.9 J+	-	7.53 JN	-	7.56 J+	-	8.31 J+
PCB-004	13029-08-8	pg/L	64	14000	-	205 J	-	222 J	-	204 J	-	224 J	-	199 JN
PCB-005	16605-91-7	pg/L	64	14000	-	< 5.01 U	-	< 4.57 U	-	< 3.82 U	-	< 5.49 U	-	< 5.92 U
PCB-006	25569-80-6	pg/L	64	14000	-	< 5.37 U	-	9.85 JN	-	14.5 JN	-	< 8.65 U	-	13.3 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 4.71 U	-	< 4.29 U	-	< 3.66 U	-	< 5.27 U	-	< 5.6 U
PCB-008	34883-43-7	pg/L	64	14000	-	< 33.8 U	-	52.1 J+	-	70.3 J+	-	63 J+	-	60.2 J+
PCB-009	34883-39-1	pg/L	64	14000	-	< 4.29 U	-	3.03 JN	-	3.55 JN	-	< 4.78 U	-	< 5.2 U
PCB-010	33146-45-1	pg/L	64	14000	-	15.3 JN	-	17.7 JN	-	18.6 JN	-	16.2 JN	-	19.5 JN

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0081-PLW	23B-0081-PLW	23B-0082-PLW	23B-0082-PLW	23B-0083-PLW	23B-0083-PLW	23B-0084-PLW	23B-0084-PLW	23B-0085-PLW	23B-0085-PLW
					Sample Name	23B-0081-PLW-AS-F	23B-0081-PLW-AS-T	23B-0082-PLW-AS-F	23B-0082-PLW-AS-T	23B-0083-PLW-AS-F	23B-0083-PLW-AS-T	23B-0084-PLW-AS-F	23B-0084-PLW-AS-T	23B-0085-PLW-AS-F	23B-0085-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.9 - 2.9 ft	2.9 - 2.9 ft	3.4 - 3.4 ft	3.4 - 3.4 ft	2.65 - 2.65 ft	2.65 - 2.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1.8 - 1.8 ft	1.8 - 1.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	< 379 UJ	-	519 J	-	721 J	-	632 J	-	546 J
PCB-012/013	PCB-12/13	pg/L			-	< 4.64 U	-	< 4.23 U	-	8.59 JN	-	8.62 JN	-	< 5.88 U
PCB-014	34883-41-5	pg/L	64	14000	-	< 4.65 U	-	< 4.23 U	-	< 3.68 U	-	< 5.29 U	-	< 5.83 U
PCB-015	2050-68-2	pg/L	64	14000	-	21.4 JN	-	24.8 JN	-	25.4 JN	-	24.8 JN	-	38.2 JN
PCB-016	38444-78-9	pg/L	64	14000	-	42.2 J	-	45.5 JN	-	74.4 J	-	68.5 J	-	46.9 JN
PCB-017	37680-66-3	pg/L	64	14000	-	111 J+	-	129 J+	-	149 J+	-	140 J+	-	134 J+
PCB-018/030	PCB-18/30	pg/L			-	120 J+	-	141 J+	-	181 J+	-	165 J+	-	152 J+
PCB-019	38444-73-4	pg/L	64	14000	-	184 J	-	195 J	-	204 J	-	203 J	-	197 J
PCB-020/028	PCB-20/28	pg/L			-	72.4 J+	-	97.5 J+	-	140 J+	-	118 J+	-	113 J+
PCB-021/033	PCB-21/33	pg/L			-	41 J+	-	55.2 J+	-	88.8 J+	-	73.6 J+	-	64 J+
PCB-022	38444-85-8	pg/L	64	14000	-	< 15.6 U	-	28.4 J+	-	38.9 J+	-	32.2 J+	-	28.7 JN
PCB-023	55720-44-0	pg/L	64	14000	-	< 6.35 U	-	< 7.53 U	-	< 7.73 U	-	< 9.07 U	-	< 9.61 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 5.33 U	-	< 5.7 U	-	< 5.16 U	-	< 6.34 U	-	< 7.23 U
PCB-025	55712-37-3	pg/L	64	14000	-	18.3 JN	-	25.6 J+	-	29.7 J+	-	26.3 J+	-	25.7 J+
PCB-026/029	PCB-26/29	pg/L			-	52.1 J+	-	63.6 J+	-	70.7 J+	-	60.1 JN	-	60.6 J+
PCB-027	38444-76-7	pg/L	64	14000	-	96.5	-	91.8	-	100	-	106	-	106
PCB-031	16606-02-3	pg/L	64	14000	-	< 62.7 U	-	90.7 J+	-	125 J+	-	113 J+	-	97 J+
PCB-032	38444-77-8	pg/L	64	14000	-	50.5 J+	-	57.2 J+	-	79.3 J+	-	65.4 JN	-	72.8 J+
PCB-034	37680-68-5	pg/L	64	14000	-	< 6.48 U	-	< 7.69 U	-	< 7.93 U	-	< 9.31 U	-	< 9.98 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 5.72 U	-	< 6.78 U	-	< 7.06 U	-	< 8.29 U	-	< 9.18 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 5.09 U	-	< 6.05 U	-	< 6.34 U	-	< 7.44 U	-	< 8.21 U
PCB-037	38444-90-5	pg/L	64	14000	-	12.2 J	-	14.7 JN	-	21.8 J	-	17.9 JN	-	17.4 J
PCB-038	53555-66-1	pg/L	64	14000	-	< 5.64 U	-	< 6.7 U	-	< 6.95 U	-	< 8.16 U	-	< 9.01 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 5.69 U	-	< 6.75 U	-	< 7.12 U	-	< 8.36 U	-	< 9.12 U
PCB-040/071	PCB-40/71	pg/L			-	62.3 J+	-	69 J+	-	84.5 J+	-	77.6 J+	-	67.1 J+
PCB-041	52663-59-9	pg/L	64	14000	-	< 3.56 U	-	8.55 J+	-	9.94 J+	-	10 JN	-	7.18 J+
PCB-042	36559-22-5	pg/L	64	14000	-	33.1 J+	-	33.1 J+	-	42.5 J+	-	42 J+	-	37.6 J+
PCB-043	70362-46-8	pg/L	64	14000	-	5.32 JN	-	7.35 JN	-	8.01 J	-	6.33 JN	-	8.3 JN
PCB-044/047/065	PCB-44/47/65	pg/L			-	185 J+	-	191 J+	-	231	-	234	-	213 J+
PCB-045	70362-45-7	pg/L	64	14000	-	12.3 JN	-	12.8 JN	-	26.6 JN	-	21.6 JN	-	16.7 JN
PCB-046	41464-47-5	pg/L	64	14000	-	18.7	-	22.2	-	21.6 JN	-	22.6	-	23.2
PCB-048	70362-47-9	pg/L	64	14000	-	< 13.1 U	-	19 J+	-	23.8 JN	-	22.1 J+	-	18.1 J+
PCB-049/069	PCB-49/69	pg/L			-	130 J+	-	138 J+	-	151 J+	-	159	-	143 J+
PCB-050/053	PCB-50/53	pg/L			-	152	-	158	-	167	-	171	-	148
PCB-051	68194-04-7	pg/L	64	14000	-	22.3 J	-	23 JN	-	17.7 JN	-	22.6 J	-	22.8 J
PCB-052	35693-99-3	pg/L	64	14000	-	253	-	259	-	304	-	295	-	255
PCB-054	15968-05-5	pg/L	64	14000	-	18.5	-	15.9	-	16.6	-	15.8 JN	-	13.3 JN
PCB-055	74338-24-2	pg/L	64	14000	-	< 2.61 U	-	< 3.54 U	-	< 3.74 U	-	< 4 U	-	< 8.15 U
PCB-056	41464-43-1	pg/L	64	14000	-	13.5 J	-	14.8 J	-	17.1 JN	-	13.2 JN	-	14.3 JN
PCB-057	70424-67-8	pg/L	64	14000	-	< 2.94 U	-	< 3.99 U	-	< 4.09 U	-	< 4.38 U	-	< 9.34 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 2.57 U	-	< 3.48 U	-	< 3.7 U	-	< 3.96 U	-	< 8.22 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	11.8 J+	-	17.1 J+	-	15.4 JN	-	18 J+	-	14.4 J+
PCB-060	33025-41-1	pg/L	64	14000	-	< 3.14 U	-	< 6.86 U	-	8.91 JN	-	< 6.92 U	-	< 10 U
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	71.9 J+	-	83.5 J+	-	103 J+	-	98.5 J+	-	92.5 J+
PCB-063	74472-34-7	pg/L	64	14000	-	3.78 J	-	4.94 J	-	< 4.33 U	-	< 4.64 U	-	< 10 U
PCB-064	52663-58-8	pg/L	64	14000	-	30.2 J	-	36.1 J	-	44.6 J	-	39.2 J	-	37.4 J
PCB-066	32598-10-0	pg/L	64	14000	-	42.3 J	-	53.2 J	-	64 J	-	62.7 J	-	60.3 J
PCB-067	73575-53-8	pg/L	64	14000	-	< 2.55 U	-	3.1 JN	-	< 3.51 U	-	< 3.75 U	-	< 7.93 U
PCB-068	73575-52-7	pg/L	64	14000	-	5.84 J	-	5.58 J	-	7.68 J	-	5.82 J	-	< 9.03 U
PCB-072	41464-42-0	pg/L	64	14000	-	4.38 JN	-	6.13 J	-	5.03 JN	-	6.7 J	-	< 8.96 U
PCB-073	74338-23-1	pg/L	64	14000	-	4.53 JN	-	5.77 JN	-	8.21 J	-	7.19 JN	-	5.57 JN
PCB-077	32598-13-3	pg/L	64	14000	-	< 3 U	-	< 4.23 U	-	< 4.09 U	-	4.26 J	-	< 8.7 U
PCB-078	70362-49-1	pg/L	64	14000	-	< 2.82 U	-	< 3.83 U	-	< 4.1 U	-	< 4.39 U	-	< 9.52 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 2.4 U	-	< 3.25 U	-	< 3.51 U	-	< 3.75 U	-	< 7.89 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 2.73 U	-	< 3.7 U	-	< 3.78 U	-	< 4.05 U	-	< 8.49 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 2.84 U	-	< 3.85 U	-	< 3.69 U	-	< 3.95 U	-	< 9.1 U
PCB-082	52663-62-4	pg/L	64	14000	-	11.6 JN	-	< 5.36 U	-	10.6	-	10.8 JN	-	< 6.67 U
PCB-083	60145-20-2	pg/L	64	14000	-	11.9 JN	-	15.6 JN	-	8.74 J	-	13.3 J	-	15 J
PCB-084	52663-60-2	pg/L	64	14000	-	60.6	-	60.5	-	66.2	-	64.8 JN	-	58.3

Table 17
Surface Water Analytical Results
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					Location	23B-0081-PLW	23B-0081-PLW	23B-0082-PLW	23B-0082-PLW	23B-0083-PLW	23B-0083-PLW	23B-0084-PLW	23B-0084-PLW	23B-0085-PLW	23B-0085-PLW
					Sample Name	23B-0081-PLW-AS-F	23B-0081-PLW-AS-T	23B-0082-PLW-AS-F	23B-0082-PLW-AS-T	23B-0083-PLW-AS-F	23B-0083-PLW-AS-T	23B-0084-PLW-AS-F	23B-0084-PLW-AS-T	23B-0085-PLW-AS-F	23B-0085-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.9 - 2.9 ft	2.9 - 2.9 ft	3.4 - 3.4 ft	3.4 - 3.4 ft	2.65 - 2.65 ft	2.65 - 2.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1.8 - 1.8 ft	1.8 - 1.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	22.1	-	21.6 JN	-	24.2	-	29.4	-	23.7 JN
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	114	-	108	-	104	-	122	-	104
PCB-088	55215-17-3	pg/L	64	14000	-	< 5.99 U	-	< 6.16 U	-	< 7.07 U	-	< 5.54 U	-	< 7.45 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 5.35 U	-	< 5.5 U	-	< 6.42 U	-	< 5.03 U	-	< 6.63 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	202	-	195	-	196	-	224	-	186
PCB-091	68194-05-8	pg/L	64	14000	-	42.9	-	39	-	34.7 JN	-	34.6 JN	-	37.8
PCB-092	52663-61-3	pg/L	64	14000	-	60.6	-	61.7	-	62.9	-	59.7 JN	-	53.1
PCB-093/100	PCB-93/100	pg/L			-	< 5.77 U	-	< 5.93 U	-	< 6.7 U	-	< 5.25 U	-	< 6.99 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 6.23 U	-	< 6.4 U	-	< 7.47 U	-	< 5.85 U	-	< 7.7 U
PCB-095	38379-99-6	pg/L	64	14000	-	208	-	206	-	221	-	223	-	181
PCB-096	73575-54-9	pg/L	64	14000	-	2.81 J	-	< 3.06 U	-	< 2.49 U	-	< 2.77 U	-	< 3.1 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 4.82 U	-	< 4.96 U	-	< 5.78 U	-	< 4.53 U	-	< 5.66 U
PCB-099	38380-01-7	pg/L	64	14000	-	70.1	-	60.7	-	76.6	-	78.3	-	69.7
PCB-102	68194-06-9	pg/L	64	14000	-	< 4.84 U	-	< 4.98 U	-	7.25 JN	-	8.7 J	-	< 6.02 U
PCB-103	60145-21-3	pg/L	64	14000	-	7.34 J	-	< 5.49 U	-	< 6.35 U	-	< 4.98 U	-	< 6.36 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 2.15 U	-	< 2.7 U	-	< 2.26 U	-	< 2.51 U	-	< 2.63 U
PCB-105	32598-14-4	pg/L	64	14000	-	20.6	-	19.4	-	22.6	-	23.2	-	14.4 JN
PCB-106	70424-69-0	pg/L	64	14000	-	< 3.59 U	-	< 3.69 U	-	< 4.35 U	-	< 3.41 U	-	< 4.58 U
PCB-107	70424-68-9	pg/L	64	14000	-	8.88 J	-	9.08 JN	-	7.69 JN	-	11.1 JN	-	< 4.56 U
PCB-108/124	PCB-108/124	pg/L			-	6.06 J	-	6.82 JN	-	7.07 J	-	8.97 J	-	< 4.97 U
PCB-110	38380-03-9	pg/L	64	14000	-	190	-	195	-	192	-	212	-	167
PCB-111	39635-32-0	pg/L	64	14000	-	< 3.88 U	-	< 3.99 U	-	< 4.69 U	-	< 3.68 U	-	< 4.96 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 3.38 U	-	< 3.48 U	-	< 4.07 U	-	< 3.19 U	-	< 4.3 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 3.27 U	-	< 3.62 U	-	< 4.42 U	-	< 3.82 U	-	< 5.05 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 3.14 U	-	< 3.23 U	-	12.6 JN	-	< 3.01 U	-	< 4.13 U
PCB-117	68194-11-6	pg/L	64	14000	-	6.47 JN	-	< 4.28 U	-	6.77 J	-	5.53 JN	-	< 5.13 U
PCB-118	31508-00-6	pg/L	64	14000	-	93.2	-	91.3	-	87.4	-	105	-	83.8
PCB-120	68194-12-7	pg/L	64	14000	-	< 3.19 U	-	< 3.28 U	-	< 3.86 U	-	< 3.02 U	-	< 4.03 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 3.64 U	-	< 3.74 U	-	< 4.31 U	-	< 3.38 U	-	< 4.51 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 4.03 U	-	< 4.46 U	-	< 5.48 U	-	< 4.73 U	-	< 6.4 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 3.64 U	-	< 3.74 U	-	< 4.34 U	-	< 3.4 U	-	< 4.66 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 3.2 U	-	< 2.99 U	-	< 3.49 U	-	< 3.12 U	-	< 2.93 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 3.54 U	-	< 3.62 U	-	< 4.14 U	-	< 3.9 U	-	< 5.31 U
PCB-128/166	PCB-128/166	pg/L			-	21.3 JN	-	24 J	-	27.5 J	-	30 J	-	18.9 JN
PCB-129/138/163	PCB-129/138/163	pg/L			-	163	-	157	-	150	-	188	-	159
PCB-130	52663-66-8	pg/L	64	14000	-	11.7	-	10.2 JN	-	9.73 JN	-	14.9 JN	-	9.41 JN
PCB-131	61798-70-7	pg/L	64	14000	-	< 1.65 U	-	< 2.78 U	-	< 2.17 U	-	< 2.04 U	-	< 4.3 U
PCB-132	38380-05-1	pg/L	64	14000	-	57.7 J	-	48.8 J	-	48.7 J	-	65.2 J	-	55.5 J
PCB-133	35694-04-3	pg/L	64	14000	-	< 1.47 U	-	< 2.47 U	-	< 1.92 U	-	< 1.81 U	-	2.83 JN
PCB-134	52704-70-8	pg/L	64	14000	-	9.88 JN	-	11.5	-	6.52 JN	-	12.2 JN	-	10.3 JN
PCB-135/151	PCB-135/151	pg/L			-	38.1 JN	-	41.5	-	41.4	-	51.5	-	39.6 JN
PCB-136	38411-22-2	pg/L	64	14000	-	16.8 JN	-	16.6	-	18.4 JN	-	26.7	-	21.3
PCB-137	35694-06-5	pg/L	64	14000	-	4.74 JN	-	7.06 JN	-	7.35 JN	-	9.44 JN	-	8.58 JN
PCB-139/140	PCB-139/140	pg/L			-	4.59 J	-	< 2.51 U	-	< 1.92 U	-	< 1.81 U	-	< 3.75 U
PCB-141	52712-04-6	pg/L	64	14000	-	19.1 JN	-	19.5 JN	-	19.1 JN	-	24.9	-	15.9 JN
PCB-142	41411-61-4	pg/L	64	14000	-	< 1.65 U	-	< 2.78 U	-	< 2.15 U	-	< 2.03 U	-	< 4.32 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 1.59 U	-	< 2.68 U	-	< 2.14 U	-	< 2.01 U	-	< 4.24 U
PCB-144	68194-14-9	pg/L	64	14000	-	4.94 JN	-	< 2.53 U	-	6.31 JN	-	4.97 JN	-	< 3.84 U
PCB-145	74472-40-5	pg/L	64	14000	-	< 1.07 U	-	< 1.68 U	-	< 1.39 U	-	< 1.25 U	-	< 2.83 U
PCB-146	51908-16-8	pg/L	64	14000	-	17.6	-	19	-	18.1	-	16.3 JN	-	18
PCB-147/149	PCB-147/149	pg/L			-	106	-	106	-	106	-	122	-	102
PCB-148	74472-41-6	pg/L	64	14000	-	< 1.49 U	-	< 2.51 U	-	< 1.95 U	-	< 1.83 U	-	< 3.78 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 1.11 U	-	< 1.74 U	-	< 1.45 U	-	< 1.31 U	-	< 2.94 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 1.04 U	-	< 1.64 U	-	< 1.33 U	-	< 1.2 U	-	< 2.73 U
PCB-153/168	PCB-153/168	pg/L			-	117	-	113	-	114	-	142	-	120
PCB-154	60145-22-4	pg/L	64	14000	-	< 1.39 U	-	< 2.35 U	-	< 1.83 U	-	< 1.72 U	-	< 3.55 U

Table 17
Surface Water Analytical Results
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					Location	23B-0081-PLW	23B-0081-PLW	23B-0082-PLW	23B-0082-PLW	23B-0083-PLW	23B-0083-PLW	23B-0084-PLW	23B-0084-PLW	23B-0085-PLW	23B-0085-PLW
					Sample Name	23B-0081-PLW-AS-F	23B-0081-PLW-AS-T	23B-0082-PLW-AS-F	23B-0082-PLW-AS-T	23B-0083-PLW-AS-F	23B-0083-PLW-AS-T	23B-0084-PLW-AS-F	23B-0084-PLW-AS-T	23B-0085-PLW-AS-F	23B-0085-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.9 - 2.9 ft	2.9 - 2.9 ft	3.4 - 3.4 ft	3.4 - 3.4 ft	2.65 - 2.65 ft	2.65 - 2.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1.8 - 1.8 ft	1.8 - 1.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 0.979 U	-	< 1.54 U	-	< 1.33 U	-	< 1.2 U	-	< 2.6 U
PCB-156/157	PCB-156/157	pg/L			-	14.5 J	-	12.5 J	-	9.59 JN	-	14.1 JN	-	12.6 JN
PCB-158	74472-42-7	pg/L	64	14000	-	10.7 JN	-	15.4 J	-	11.9 J	-	13.5 JN	-	11.4 J
PCB-159	39635-35-3	pg/L	64	14000	-	< 2.14 U	-	< 2.43 U	-	< 4.56 U	-	< 2.25 U	-	< 2.26 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 1.23 U	-	< 2.07 U	-	< 1.62 U	-	< 1.53 U	-	< 3.35 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 1.07 U	-	< 1.81 U	-	< 1.44 U	-	< 1.35 U	-	< 2.81 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 2.56 U	-	< 2.91 U	-	< 5.38 U	-	< 2.66 U	-	< 2.65 U
PCB-164	74472-45-0	pg/L	64	14000	-	13.4 J	-	7.53 JN	-	8.95 JN	-	10.7 J	-	7.39 JN
PCB-165	74472-46-1	pg/L	64	14000	-	< 1.25 U	-	< 2.11 U	-	< 1.69 U	-	< 1.6 U	-	< 3.25 U
PCB-167	52663-72-6	pg/L	64	14000	-	5.91 JN	-	6.92 J	-	< 5.18 U	-	7.89 JN	-	5.54 JN
PCB-169	32774-16-6	pg/L	4	14000	-	< 3.83 U	-	< 4.44 U	-	< 8.52 U	-	< 4.18 U	-	< 4.02 U
PCB-170	35065-30-6	pg/L	64	14000	-	13.5	-	15.4 JN	-	19	-	18.2 JN	-	20.8
PCB-171/173	PCB-171/173	pg/L			-	< 5.62 U	-	< 5.99 U	-	< 8.49 U	-	< 7.04 U	-	< 8.69 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 5.39 U	-	< 5.75 U	-	< 7.94 U	-	< 6.59 U	-	< 8.16 U
PCB-174	38411-25-5	pg/L	64	14000	-	12.2 JN	-	10.3	-	< 7.29 U	-	< 6.05 U	-	13 JN
PCB-175	40186-70-7	pg/L	64	14000	-	< 5.41 U	-	< 5.77 U	-	< 8.12 U	-	< 6.74 U	-	< 8.5 U
PCB-176	52663-65-7	pg/L	64	14000	-	3.73 JN	-	< 3.46 U	-	< 3.49 U	-	< 3.43 U	-	< 2.84 U
PCB-177	52663-70-4	pg/L	64	14000	-	7.06 JN	-	4.86 JN	-	8.29 JN	-	< 6.39 U	-	< 7.8 U
PCB-178	52663-67-9	pg/L	64	14000	-	< 3.4 U	-	< 4.43 U	-	< 4.32 U	-	< 4.24 U	-	< 3.7 U
PCB-179	52663-64-6	pg/L	64	14000	-	6.83 JN	-	7.91 J	-	4.46 JN	-	5.3 J	-	5.24 JN
PCB-180/193	PCB-180/193	pg/L			-	31.1 J+	-	24.2 J+	-	32.5 J+	-	32.9 J+	-	41 J+
PCB-181	74472-47-2	pg/L	64	14000	-	< 4.8 U	-	< 5.12 U	-	< 7.17 U	-	< 5.95 U	-	< 7.33 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 4.53 U	-	< 4.83 U	-	< 6.69 U	-	< 5.55 U	-	< 6.83 U
PCB-183	52663-69-1	pg/L	64	14000	-	7.56 JN	-	11.3 J	-	< 7.56 UJ	-	9.33 JN	-	< 7.71 UJ
PCB-184	74472-48-3	pg/L	64	14000	-	< 2.5 U	-	< 3.27 U	-	< 3.26 U	-	< 3.19 U	-	< 2.6 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 5.44 U	-	< 5.79 U	-	< 8.15 U	-	< 6.76 U	-	< 8.33 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 2.23 U	-	< 2.91 U	-	< 2.9 U	-	< 2.84 U	-	< 2.37 U
PCB-187	52663-68-0	pg/L	64	14000	-	15.3	-	14.5	-	14.7 JN	-	15.7	-	17.2
PCB-188	74487-85-7	pg/L	64	14000	-	< 2.32 U	-	< 3.03 U	-	< 3.32 U	-	< 3.26 U	-	< 2.33 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 3.12 U	-	< 2.87 U	-	< 3.5 U	-	< 4.12 U	-	< 3.07 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 4.7 U	-	< 4.49 U	-	< 6.27 U	-	< 5.05 U	-	< 6.17 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 4.28 U	-	< 4.57 U	-	< 6.29 U	-	< 5.22 U	-	< 6.5 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 3.73 U	-	< 3.98 U	-	< 5.54 U	-	< 4.59 U	-	< 5.76 U
PCB-194	35694-08-7	pg/L	64	14000	-	4.7 J	-	5.07 J	-	5.4 JN	-	7.72 J	-	5.06 JN
PCB-195	52663-78-2	pg/L	64	14000	-	< 2.34 U	-	1.82 JN	-	< 2.12 U	-	< 2.41 U	-	< 1.67 U
PCB-196	42740-50-1	pg/L	64	14000	-	< 3.83 U	-	< 2.32 U	-	< 1.86 U	-	< 1.32 U	-	< 1.2 U
PCB-197	33091-17-7	pg/L	64	14000	-	< 2.8 U	-	< 1.7 U	-	< 1.4 U	-	< 0.991 U	-	< 0.893 U
PCB-198/199	PCB-198/199	pg/L			-	< 3.45 U	-	3.4 J	-	8.06 J	-	6.52 JN	-	7.64 JN
PCB-200	52663-73-7	pg/L	64	14000	-	< 2.91 U	-	< 1.76 U	-	< 1.44 U	-	< 1.02 U	-	< 0.955 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 3.05 U	-	< 1.85 U	-	< 1.56 U	-	< 1.11 U	-	< 0.983 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 2.5 U	-	< 1.51 U	-	1.52 JN	-	< 0.905 U	-	< 0.787 U
PCB-203	52663-76-0	pg/L	64	14000	-	4.22 JN	-	3.32 JN	-	2.38 JN	-	< 1.07 U	-	6.26 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 2.69 U	-	< 1.63 U	-	< 1.35 U	-	< 0.959 U	-	< 0.867 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 1.9 U	-	< 1.34 U	-	< 1.66 U	-	< 1.89 U	-	< 1.38 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 19.6 UJ	-	< 20.2 UJ	-	< 19.6 UJ	-	< 19.8 UJ	-	< 20 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 3.79 U	-	< 4.53 U	-	< 5.24 U	-	< 5.07 U	-	< 5.71 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 3.39 U	-	< 4.05 U	-	< 4.75 U	-	< 4.6 U	-	< 5.14 U
PCB-209	2051-24-3	pg/L	64	14000	-	5.01 JN	-	4.76 J	-	3.95 JN	-	4.17 JN	-	10.7 JN
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	5.01	-	4.76	-	3.95	-	4.17	-	10.7
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	97.3	-	88.5	-	79.0	-	81.4	-	97.2
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	637	-	617	-	604	-	754	-	618
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	8.92	-	13.6	-	17.4	-	14.2	-	19.0
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	4020	-	4910	-	5630	-	5630	-	4960
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	1140	-	1090	-	1150	-	1230	-	994
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	242	-	848	-	1070	-	969	-	876
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	13.2	-	23.9	-	29.2	-	31.1	-	29.7
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 19.6 U	-	< 20.2 U	-	< 19.6 U	-	< 19.8 U	-	< 20 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1080	-	1190	-	1380	-	1360	-	1200
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	800	-	1040	-	1300	-	1190	-	1120

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
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				Location	23B-0081-PLW	23B-0081-PLW	23B-0082-PLW	23B-0082-PLW	23B-0083-PLW	23B-0083-PLW	23B-0084-PLW	23B-0084-PLW	23B-0085-PLW	23B-0085-PLW
				Sample Name	23B-0081-PLW-AS-F	23B-0081-PLW-AS-T	23B-0082-PLW-AS-F	23B-0082-PLW-AS-T	23B-0083-PLW-AS-F	23B-0083-PLW-AS-T	23B-0084-PLW-AS-F	23B-0084-PLW-AS-T	23B-0085-PLW-AS-F	23B-0085-PLW-AS-T
				Sample Date	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.9 - 2.9 ft	2.9 - 2.9 ft	3.4 - 3.4 ft	3.4 - 3.4 ft	2.65 - 2.65 ft	2.65 - 2.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1.8 - 1.8 ft	1.8 - 1.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
TAL Metals and Mercury														
Aluminum	7429-90-5	ug/L	2000	87	49 J	64	58 J	57	43 J	67	58 J	83	48 J	59
Antimony	7440-36-0	ug/L	0.78	190	0.19 J	0.18 J	0.17 J	0.19 J	0.18 J	0.18 J	0.17 J	0.18 J	0.18 J	0.18 J
Arsenic	7440-38-2	ug/L	0.018	150	0.47 J	0.48 J	0.46 J	0.54 J	0.49 J	0.40 J	0.40 J	0.57 J	0.47 J	0.64 J
Barium	7440-39-3	ug/L	380	220	35	38	37	36	37	38	37	38	37	37
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Calcium	7440-70-2	ug/L		116000	13000	14000	14000	14000	14000	14000	14000	14000	14000	14000
Chromium, Total	7440-47-3	ug/L	100	44	0.84 J	1.1 J	3.1	0.98 J	0.96 J	1.1 J	0.89 J	1.2 J	0.96 J	1.0 J
Cobalt	7440-48-4	ug/L	0.6	19	0.23 J	0.29 J	0.25 J	0.27 J	0.23 J	0.36 J	0.23 J	0.41 J	0.26 J	0.28 J
Copper	7440-50-8	ug/L	80	5	2.6	2.6	1.8 J	2.0	1.9 J	2.2	1.7 J	2.4	1.8 J	2.1
Iron	7439-89-6	ug/L	1400	1000	870	1200	690	1100	660	1200	720	1200	740	1100
Lead	7439-92-1	ug/L	15	0.54	1.3	1.6	< 1.0 U	1.4	< 1.0 U	1.5	< 1.0 U	2.1	< 1.0 U	1.5
Magnesium	7439-95-4	ug/L		82000	3600	4000	3700	3800	3700	3900	3700	3900	3900	3900
Manganese	7439-96-5	ug/L	43	93	120	150	130	140	120	150	130	150	130	140
Nickel	7440-02-0	ug/L	39	27	0.78 J	0.96 J	1.8	0.88 J	0.81 J	0.91 J	0.73 J	1.6	0.76 J	0.87 J
Potassium	7440-09-7	ug/L		53000	2300	2600	2400	2500	2400	2500	2400	2500	2500	2400
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	58000	67000	61000	64000	60000	66000	60000	66000	63000	64000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.77 J	1.0 J	0.68 J	0.92 J	0.63 J	1.1 J	0.69 J	1.0 J	0.68 J	0.96 J
Zinc	7440-66-6	ug/L	600	11.8	7.7 J+	8.2	8.3 J+	7.8	6.9 J+	9.1	8.5 J+	12	6.5 J+	7.5
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide														
CYANIDE	57-12-5	ug/L	0.15	5.2	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
Hexavalent Chromium														
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs														
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
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Lower Neponset River
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					Location	23B-0081-PLW	23B-0081-PLW	23B-0082-PLW	23B-0082-PLW	23B-0083-PLW	23B-0083-PLW	23B-0084-PLW	23B-0084-PLW	23B-0085-PLW	23B-0085-PLW
					Sample Name	23B-0081-PLW-AS-F	23B-0081-PLW-AS-T	23B-0082-PLW-AS-F	23B-0082-PLW-AS-T	23B-0083-PLW-AS-F	23B-0083-PLW-AS-T	23B-0084-PLW-AS-F	23B-0084-PLW-AS-T	23B-0085-PLW-AS-F	23B-0085-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.9 - 2.9 ft	2.9 - 2.9 ft	3.4 - 3.4 ft	3.4 - 3.4 ft	2.65 - 2.65 ft	2.65 - 2.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1.8 - 1.8 ft	1.8 - 1.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Styrene	100-42-5	ug/L	100	32	-	< 0.50 R	-	< 0.50 R	-	< 0.50 R	-	< 0.50 R	-	< 0.50 R	
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.1 UJ	-	< 5.1 UJ	-	< 5.0 UJ	-	< 5.1 UJ	-	< 5.0 UJ	
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0081-PLW	23B-0081-PLW	23B-0082-PLW	23B-0082-PLW	23B-0083-PLW	23B-0083-PLW	23B-0084-PLW	23B-0084-PLW	23B-0085-PLW	23B-0085-PLW
					Sample Name	23B-0081-PLW-AS-F	23B-0081-PLW-AS-T	23B-0082-PLW-AS-F	23B-0082-PLW-AS-T	23B-0083-PLW-AS-F	23B-0083-PLW-AS-T	23B-0084-PLW-AS-F	23B-0084-PLW-AS-T	23B-0085-PLW-AS-F	23B-0085-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	2.9 - 2.9 ft	2.9 - 2.9 ft	3.4 - 3.4 ft	3.4 - 3.4 ft	2.65 - 2.65 ft	2.65 - 2.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1.8 - 1.8 ft	1.8 - 1.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
PHENOL	108-95-2	ug/L	580	160	-	1.7 J	-	1.6 J	-	< 10 U	-	2.5 J	-	< 10 U
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.1 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	14	-	< 1.8 U	-	1.2 J	-	2.4	-	1.8
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.1 J	-	3.3	-	3.0 J	-	3.1 J	-	3.2 J
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	5.1 J	-	5.1	-	5.4 J	-	5.3 J	-	5.9 J
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.38 J	-	0.29 J	-	0.33 J	-	< 1.9 U	-	0.42 J
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.6	-	2.4	-	2.2	-	2.6	-	2.5
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.8	-	2.3	-	2.7	-	3.1	-	2.7
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	4.0	-	4.2	-	3.8	-	4.1	-	4.6
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	1.0 J	-	0.91 J	-	0.93 J	-	0.89 J	-	0.97 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.8 U	-	0.31 J	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	6.3	-	5.7	-	5.5	-	5.6	-	6.5
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	6.0	-	5.2	-	5.9	-	6.1	-	6.0
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	< 1.8 UJ	-	< 1.8 U	-	0.37 J	-	0.30 J	-	0.42 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	5.1 J	-	4.4	-	5.4 J	-	5.9 J	-	5.9 J
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	0.37 J	-	< 1.8 U	-	< 1.8 UJ	-	< 1.9 U	-	< 1.8 UJ
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23B-0081-PLW	23B-0081-PLW	23B-0082-PLW	23B-0082-PLW	23B-0083-PLW	23B-0083-PLW	23B-0084-PLW	23B-0084-PLW	23B-0085-PLW	23B-0085-PLW
				Sample Name	23B-0081-PLW-AS-F	23B-0081-PLW-AS-T	23B-0082-PLW-AS-F	23B-0082-PLW-AS-T	23B-0083-PLW-AS-F	23B-0083-PLW-AS-T	23B-0084-PLW-AS-F	23B-0084-PLW-AS-T	23B-0085-PLW-AS-F	23B-0085-PLW-AS-T
				Sample Date	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	2.9 - 2.9 ft	2.9 - 2.9 ft	3.4 - 3.4 ft	3.4 - 3.4 ft	2.65 - 2.65 ft	2.65 - 2.65 ft	1.1 - 1.1 ft	1.1 - 1.1 ft	1.8 - 1.8 ft	1.8 - 1.8 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.8 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.15	-	8.55	-	8.49	-	8.38	-	8.12
Oxidation-Reduction Potential	ORP	mv			-	125.7	-	119.1	-	116.7	-	73.4	-	150.7
pH	PH	su			-	6.55	-	6.6	-	6.64	-	6.63	-	6.65
Specific Conductance	SC	us/cm			-	456.1	-	457.3	-	457	-	460	-	458.5
Temperature	TEMP	deg c			-	12.4	-	12.7	-	12.9	-	13	-	12.9
Turbidity	TURB	NTU			-	1.19	-	1.2	-	1.29	-	1.88	-	1.13

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0086-PLW	23B-0086-PLW	23B-0087-PLW	23B-0087-PLW	23B-0088-PLW	23B-0088-PLW	23B-0089-PLW	23B-0089-PLW	23B-0090-PLW	23B-0090-PLW
					Sample Name	23B-0086-PLW-AS-F	23B-0086-PLW-AS-T	23B-0087-PLW-AS-F	23B-0087-PLW-AS-T	23B-0088-PLW-AS-F	23B-0088-PLW-AS-T	23B-0089-PLW-AS-F	23B-0089-PLW-AS-T	23B-0090-PLW-AS-F	23B-0090-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.2 - 1.2 ft	1.2 - 1.2 ft	0.8 - 0.8 ft	0.8 - 0.8 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	2.5 - 2.5 ft	2.5 - 2.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TCL Pesticides															
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.51 U	-	< 0.50 U	-	< 0.51 U	-	< 0.50 U	-	< 0.51 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.051 U	-	< 0.050 U	-	< 0.051 U	-	< 0.050 U	-	< 0.051 U
PCDD/F															
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 2.98 U	-	7.43 J	-	6.44 J	-	< 1.28 U	-	2.83 JN
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.64 U	-	< 1.23 U	-	3.84 JN	-	< 1.26 U	-	< 1.78 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 2.46 U	-	< 1.27 U	-	6.45 J	-	< 1.75 U	-	< 2.84 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.35 U	-	< 1.31 U	-	4.84 J	-	< 1.18 U	-	< 1.57 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 2.58 U	-	< 1.46 U	-	4.23 JN	-	< 1.7 U	-	< 2.98 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1.31 U	-	< 1.28 U	-	5.32 J	-	< 1.06 U	-	< 1.48 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 2.41 U	-	< 1.38 U	-	3.92 JN	-	< 1.77 U	-	< 2.72 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.71 U	-	< 1.71 U	-	5.94 J	-	< 1.38 U	-	< 1.97 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 2.12 U	-	< 2.01 U	-	5.24 JN	-	< 1.58 U	-	< 2.44 U
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.82 U	-	< 1.08 U	-	4.63 JN	-	< 1.63 U	-	< 2 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 1.29 U	-	4.02 J	-	5.84 J	-	< 0.915 U	-	1.52 JN
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.42 U	-	< 1.43 U	-	3.78 J	-	< 1.3 U	-	< 1.7 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.85 U	-	< 1.14 U	-	5.42 J	-	< 1.67 U	-	< 1.91 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 10.1 UJ	-	< 10 UJ	-	< 10.1 UJ	-	< 10 UJ	-	< 9.9 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 1.49 U	-	< 0.84 U	-	< 1.46 U	-	< 1.39 U	-	< 1.64 U
OCDD	3268-87-9	pg/L	400	31	-	12.4 JN	-	29.1 JN	-	18.6 J	-	11.8 J	-	17.2 J
OCDF	39001-02-0	pg/L	400	31	-	< 2.21 U	-	< 2.52 U	-	7.28 J	-	< 2.06 U	-	< 3.01 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 2.98 U	-	7.43	-	6.44	-	< 1.28 U	-	2.83
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 1.64 U	-	4.02	-	9.68 U	-	< 1.26 U	-	1.52 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 2.58 U	-	< 1.46 U	-	14.6 U	-	< 1.77 U	-	< 2.98 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.71 U	-	< 1.71 U	-	19.9 U	-	< 1.38 U	-	< 1.97 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 2.12 U	-	< 2.01 U	-	5.24 U	-	< 1.58 U	-	< 2.44 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.85 U	-	< 1.14 U	-	10.1 U	-	< 1.67 U	-	< 2 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 10.1 U	-	< 10 U	-	< 10.1 U	-	< 10 U	-	< 9.9 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 1.49 U	-	< 0.84 U	-	< 1.46 U	-	< 1.39 U	-	< 1.64 U
PCB Congeners															
PCB-001	2051-60-7	pg/L	64	14000	-	22.1 JN	-	12.1 J+	-	14 J+	-	19.7 J+	-	23.3 J+
PCB-002	2051-61-8	pg/L	64	14000	-	3.41 J	-	< 3.32 U	-	< 2.24 U	-	3.72 J	-	4.35 JN
PCB-003	2051-62-9	pg/L	64	14000	-	9.39 J+	-	< 3.44 U	-	7.1 J+	-	7.11 JN	-	9.02 J+
PCB-004	13029-08-8	pg/L	64	14000	-	180 J	-	165 J	-	237 J	-	201 J	-	231 J
PCB-005	16605-91-7	pg/L	64	14000	-	< 4.06 U	-	< 9.33 U	-	< 4.91 U	-	< 4.15 U	-	< 3.88 U
PCB-006	25569-80-6	pg/L	64	14000	-	12.3 JN	-	< 7.74 U	-	4.72 JN	-	12.5 JN	-	11.8 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 3.84 U	-	< 8.98 U	-	< 4.72 U	-	< 3.92 U	-	< 3.67 U
PCB-008	34883-43-7	pg/L	64	14000	-	63.8 J+	-	27.2 JN	-	26 JN	-	52.9 J+	-	63.5 J+
PCB-009	34883-39-1	pg/L	64	14000	-	3.56 JN	-	< 8.04 U	-	< 4.23 U	-	3.12 JN	-	5.53 JN
PCB-010	33146-45-1	pg/L	64	14000	-	18.8 JN	-	23.5 JN	-	30.7 JN	-	21.3 JN	-	24.4 JN

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0086-PLW	23B-0086-PLW	23B-0087-PLW	23B-0087-PLW	23B-0088-PLW	23B-0088-PLW	23B-0089-PLW	23B-0089-PLW	23B-0090-PLW	23B-0090-PLW
					Sample Name	23B-0086-PLW-AS-F	23B-0086-PLW-AS-T	23B-0087-PLW-AS-F	23B-0087-PLW-AS-T	23B-0088-PLW-AS-F	23B-0088-PLW-AS-T	23B-0089-PLW-AS-F	23B-0089-PLW-AS-T	23B-0090-PLW-AS-F	23B-0090-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.2 - 1.2 ft	1.2 - 1.2 ft	0.8 - 0.8 ft	0.8 - 0.8 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	2.5 - 2.5 ft	2.5 - 2.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-011	2050-67-1	pg/L	64	14000	-	650 J	-	401 J	-	363 J	-	494 J	-	686 J
PCB-012/013	PCB-12/13	pg/L			-	8.07 JN	-	< 8.89 U	-	8.36 JN	-	6.58 JN	-	7.69 JN
PCB-014	34883-41-5	pg/L	64	14000	-	< 4 U	-	< 8.93 U	-	< 4.69 U	-	< 4.08 U	-	< 3.82 U
PCB-015	2050-68-2	pg/L	64	14000	-	29.4 JN	-	24.4 JN	-	24.9 JN	-	30.5 JN	-	32.1 JN
PCB-016	38444-78-9	pg/L	64	14000	-	69.8 J	-	< 10.6 U	-	15.6 JN	-	56.9 J	-	72.1 J
PCB-017	37680-66-3	pg/L	64	14000	-	127 J+	-	75.5 J	-	99.5 J	-	128 J+	-	150 J+
PCB-018/030	PCB-18/30	pg/L			-	164 J+	-	64.5	-	70.8	-	145 J+	-	198 J+
PCB-019	38444-73-4	pg/L	64	14000	-	187 J	-	224 J	-	226 J	-	217 J	-	243 J
PCB-020/028	PCB-20/28	pg/L			-	134 J+	-	48.8 J+	-	39.1 J+	-	101 J+	-	136 J+
PCB-021/033	PCB-21/33	pg/L			-	76.5 J+	-	13 JN	-	9.47 JN	-	58.5 J+	-	87.5 J+
PCB-022	38444-85-8	pg/L	64	14000	-	37.5 J+	-	< 9.95 U	-	< 5.25 U	-	28.7 J+	-	35 JN
PCB-023	55720-44-0	pg/L	64	14000	-	< 7.27 U	-	< 11.5 U	-	< 6.07 U	-	< 6.88 U	-	< 8.15 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 5.45 U	-	< 7.61 U	-	< 4.87 U	-	< 5.87 U	-	< 6.04 U
PCB-025	55712-37-3	pg/L	64	14000	-	25.8 J+	-	16.8	-	16.9 JN	-	21.3 J+	-	25.8 J+
PCB-026/029	PCB-26/29	pg/L			-	66.6 J+	-	38.5	-	44.8 JN	-	54.1 J+	-	71.3 J+
PCB-027	38444-76-7	pg/L	64	14000	-	101	-	114	-	105	-	113	-	107 JN
PCB-031	16606-02-3	pg/L	64	14000	-	115 J+	-	33.1 J	-	29.6 J	-	80 J+	-	131 J+
PCB-032	38444-77-8	pg/L	64	14000	-	67.3 J+	-	57.6	-	57.8	-	67.1 JN	-	80.7 J+
PCB-034	37680-68-5	pg/L	64	14000	-	< 7.55 U	-	< 12 U	-	< 6.35 U	-	< 7.15 U	-	< 8.46 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 6.94 U	-	< 10.9 U	-	< 5.73 U	-	< 6.58 U	-	< 7.78 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 6.21 U	-	< 9.51 U	-	< 5.02 U	-	< 5.88 U	-	< 6.96 U
PCB-037	38444-90-5	pg/L	64	14000	-	20.7 J	-	< 10.3 UJ	-	7.4 J	-	16.2 J	-	22 J
PCB-038	53555-66-1	pg/L	64	14000	-	< 6.81 U	-	< 10.4 U	-	< 5.51 U	-	< 6.45 U	-	< 7.64 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 6.9 U	-	< 10.5 U	-	< 5.56 U	-	< 6.53 U	-	< 7.73 U
PCB-040/071	PCB-40/71	pg/L			-	68.3 J+	-	77.6 J	-	56.7 JN	-	65.6 J+	-	75.2 J+
PCB-041	52663-59-9	pg/L	64	14000	-	10.7 JN	-	< 7.93 U	-	< 5.21 U	-	7.2 JN	-	12.5 JN
PCB-042	36559-22-5	pg/L	64	14000	-	36.4 J+	-	30.2 J	-	28.6 J	-	34.4 J+	-	40.1 J+
PCB-043	70362-46-8	pg/L	64	14000	-	7.23 JN	-	6.68 J	-	5.09 JN	-	7.88 J	-	8.56 JN
PCB-044/047/065	PCB-44/47/65	pg/L			-	222 J+	-	232 J	-	182 J	-	205 J+	-	236
PCB-045	70362-45-7	pg/L	64	14000	-	20.4 J+	-	11.7 JN	-	15.5	-	15.4 JN	-	37.4 J+
PCB-046	41464-47-5	pg/L	64	14000	-	22.2	-	24.9	-	16.7 JN	-	22.8	-	26.3
PCB-048	70362-47-9	pg/L	64	14000	-	23.2 J+	-	9.91 J	-	7.1 JN	-	16.4 J+	-	25.5 J+
PCB-049/069	PCB-49/69	pg/L			-	143 J+	-	157	-	134	-	144 J+	-	160
PCB-050/053	PCB-50/53	pg/L			-	152	-	192	-	163	-	155	-	172
PCB-051	68194-04-7	pg/L	64	14000	-	18 JN	-	24 JN	-	17.8	-	16.8 JN	-	17.3 J
PCB-052	35693-99-3	pg/L	64	14000	-	261	-	316 J	-	263 J	-	261	-	299
PCB-054	15968-05-5	pg/L	64	14000	-	16.2	-	15.9 JN	-	14.9 JN	-	15.5 JN	-	18.4
PCB-055	74338-24-2	pg/L	64	14000	-	< 3.45 U	-	< 6.91 U	-	< 3.92 U	-	< 3.42 U	-	< 2.95 U
PCB-056	41464-43-1	pg/L	64	14000	-	17.8 J	-	9.52 J	-	6.84 JN	-	15.3 J	-	21.8 JN
PCB-057	70424-67-8	pg/L	64	14000	-	< 3.96 U	-	< 7.87 U	-	< 4.47 U	-	< 3.93 U	-	< 3.38 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 3.48 U	-	< 6.86 U	-	< 3.89 U	-	< 3.45 U	-	< 2.97 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	16.2 J+	-	15.6 J	-	12.4 J	-	13.5 JN	-	18.7 J+
PCB-060	33025-41-1	pg/L	64	14000	-	10.4 JN	-	< 8.44 U	-	< 4.8 U	-	7.93 J+	-	11.3 JN
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	98.3 J+	-	72.1 JN	-	59.8 J	-	89 J+	-	111 J+
PCB-063	74472-34-7	pg/L	64	14000	-	4.26 JN	-	< 8.16 U	-	< 4.63 U	-	< 4.22 U	-	4.53 JN
PCB-064	52663-58-8	pg/L	64	14000	-	38 J	-	28.2 JN	-	21.6 J+	-	34.9 J	-	43.6 J
PCB-066	32598-10-0	pg/L	64	14000	-	66.8 J	-	56.2	-	44.3	-	54.5 J	-	69 J
PCB-067	73575-53-8	pg/L	64	14000	-	2.49 J	-	< 6.71 U	-	< 3.81 U	-	< 3.33 U	-	3.11 JN
PCB-068	73575-52-7	pg/L	64	14000	-	7.33 J	-	10.3 JN	-	6.25 J	-	4.91 JN	-	6.75 J
PCB-072	41464-42-0	pg/L	64	14000	-	5.39 J	-	< 7.5 U	-	5.42 JN	-	4.51 JN	-	5.64 JN
PCB-073	74338-23-1	pg/L	64	14000	-	7.08 J	-	9.63 J	-	8.57 J	-	6.12 JN	-	7.4 JN
PCB-077	32598-13-3	pg/L	64	14000	-	4.35 JN	-	< 7.62 U	-	< 4.74 U	-	4.57 J	-	< 3.15 U
PCB-078	70362-49-1	pg/L	64	14000	-	< 4.03 U	-	< 7.67 U	-	< 4.36 U	-	< 4 U	-	< 3.44 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 3.34 U	-	< 6.37 U	-	< 3.62 U	-	< 3.32 U	-	< 2.86 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 3.6 U	-	< 7.18 U	-	< 4.08 U	-	< 3.57 U	-	< 3.08 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 3.86 U	-	< 7.49 U	-	< 4.25 U	-	< 3.83 U	-	< 3.3 U
PCB-082	52663-62-4	pg/L	64	14000	-	11.5	-	17.4 JN	-	10.9 JN	-	11.4 JN	-	13.4 JN
PCB-083	60145-20-2	pg/L	64	14000	-	10.3 JN	-	17.8	-	13.7	-	13.4 JN	-	10.7 JN
PCB-084	52663-60-2	pg/L	64	14000	-	65.4	-	92.6 J	-	62.9 J	-	73.5	-	70.8

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0086-PLW	23B-0086-PLW	23B-0087-PLW	23B-0087-PLW	23B-0088-PLW	23B-0088-PLW	23B-0089-PLW	23B-0089-PLW	23B-0090-PLW	23B-0090-PLW
					Sample Name	23B-0086-PLW-AS-F	23B-0086-PLW-AS-T	23B-0087-PLW-AS-F	23B-0087-PLW-AS-T	23B-0088-PLW-AS-F	23B-0088-PLW-AS-T	23B-0089-PLW-AS-F	23B-0089-PLW-AS-T	23B-0090-PLW-AS-F	23B-0090-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.2 - 1.2 ft	1.2 - 1.2 ft	0.8 - 0.8 ft	0.8 - 0.8 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	2.5 - 2.5 ft	2.5 - 2.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-085/116	PCB-85/116	pg/L			-	29.2	-	41.2 JN	-	24.9	-	28.3 JN	-	24.9
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	117	-	160	-	113	-	127	-	130
PCB-088	55215-17-3	pg/L	64	14000	-	< 5.26 U	-	< 10.9 U	-	< 6.81 U	-	< 7.05 U	-	< 5.56 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 4.67 U	-	< 9.49 U	-	< 5.91 U	-	< 6.27 U	-	< 4.94 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	213	-	287 J	-	203 J	-	216	-	227
PCB-091	68194-05-8	pg/L	64	14000	-	37.8	-	61	-	40.5	-	41.2	-	44 JN
PCB-092	52663-61-3	pg/L	64	14000	-	72.4	-	82.5 J	-	64.4 J	-	65	-	70.8
PCB-093/100	PCB-93/100	pg/L			-	< 4.93 U	-	< 10.1 U	-	< 6.27 U	-	< 6.61 U	-	< 5.21 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 5.43 U	-	< 10.9 U	-	< 6.78 U	-	< 7.29 U	-	5.96 JN
PCB-095	38379-99-6	pg/L	64	14000	-	220	-	294 J	-	218 J	-	229	-	235
PCB-096	73575-54-9	pg/L	64	14000	-	2.9 JN	-	< 4.38 U	-	2.22 JN	-	1.74 JN	-	3.08 JN
PCB-098	60233-25-2	pg/L	64	14000	-	< 3.99 U	-	< 8.25 U	-	< 5.14 U	-	< 5.36 U	-	< 4.22 U
PCB-099	38380-01-7	pg/L	64	14000	-	72.4 JN	-	111 J	-	76.9 J	-	76.6	-	71.9 JN
PCB-102	68194-06-9	pg/L	64	14000	-	6.61 JN	-	14	-	< 5.33 U	-	< 5.69 U	-	9.73 JN
PCB-103	60145-21-3	pg/L	64	14000	-	< 4.49 U	-	< 9.52 U	-	< 5.93 U	-	4.32 JN	-	8.24 J
PCB-104	56558-16-8	pg/L	64	14000	-	< 1.44 U	-	< 3.7 U	-	< 2.36 U	-	< 1.81 U	-	< 2.12 U
PCB-105	32598-14-4	pg/L	64	14000	-	24.4	-	40.5 J	-	20.8 JN	-	21.2 JN	-	25.5
PCB-106	70424-69-0	pg/L	64	14000	-	< 3.23 U	-	< 6.41 U	-	< 3.99 U	-	< 4.33 U	-	< 3.41 U
PCB-107	70424-68-9	pg/L	64	14000	-	9.92 J	-	13.5	-	10.3	-	10.7	-	10.2 JN
PCB-108/124	PCB-108/124	pg/L			-	4.26 JN	-	6.84 JN	-	< 4.34 U	-	6.18 JN	-	6.16 J
PCB-110	38380-03-9	pg/L	64	14000	-	203	-	327 J	-	223 J	-	213	-	227
PCB-111	39635-32-0	pg/L	64	14000	-	< 3.5 U	-	< 6.87 U	-	< 4.28 U	-	< 4.69 U	-	< 3.7 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 3.03 U	-	< 5.87 U	-	< 3.66 U	-	< 4.07 U	-	< 3.21 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 3.33 U	-	< 6.17 U	-	< 4.77 U	-	< 4.59 U	-	< 3.37 U
PCB-115	74472-38-1	pg/L	64	14000	-	2.7 JN	-	< 5.56 U	-	< 3.46 U	-	< 3.91 U	-	< 3.08 U
PCB-117	68194-11-6	pg/L	64	14000	-	6.84 JN	-	< 7.46 U	-	< 4.64 U	-	< 4.86 U	-	9.82 J
PCB-118	31508-00-6	pg/L	64	14000	-	102	-	148 J	-	99 J	-	101	-	101
PCB-120	68194-12-7	pg/L	64	14000	-	< 2.85 U	-	< 5.69 U	-	< 3.54 U	-	< 3.82 U	-	< 3.01 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 3.18 U	-	< 6.31 U	-	< 3.93 U	-	< 4.27 U	-	< 3.36 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 4.22 U	-	< 7.87 U	-	< 6.08 U	-	< 5.82 U	-	< 4.27 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 3.29 U	-	< 6.5 U	-	< 4.05 U	-	< 4.41 U	-	< 3.48 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 2.95 U	-	< 5.84 U	-	< 3.26 U	-	< 2.88 U	-	< 3.48 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 3.57 U	-	< 6.72 U	-	< 4.43 U	-	< 5.08 U	-	< 3.59 U
PCB-128/166	PCB-128/166	pg/L			-	25.5 J	-	47.7	-	29.1	-	26.6 JN	-	30.2 J
PCB-129/138/163	PCB-129/138/163	pg/L			-	171	-	283 J	-	183 J	-	187	-	208
PCB-130	52663-66-8	pg/L	64	14000	-	12.6	-	22.1	-	10.5 JN	-	11.1 JN	-	11.8 JN
PCB-131	61798-70-7	pg/L	64	14000	-	< 1.43 U	-	< 4.83 U	-	< 2.81 U	-	< 1.79 U	-	< 3.74 U
PCB-132	38380-05-1	pg/L	64	14000	-	46.9 J	-	94.9 J	-	68.1 J	-	49 JN	-	56 JN
PCB-133	35694-04-3	pg/L	64	14000	-	< 1.25 U	-	< 4.29 U	-	< 2.5 U	-	< 1.57 U	-	< 3.28 U
PCB-134	52704-70-8	pg/L	64	14000	-	10.2	-	20.9	-	11.4	-	12.2 JN	-	7.84 JN
PCB-135/151	PCB-135/151	pg/L			-	45.3	-	60.8 JN	-	54	-	39.1 JN	-	47.4 JN
PCB-136	38411-22-2	pg/L	64	14000	-	24.7	-	30	-	20.1 JN	-	22.3	-	24.3
PCB-137	35694-06-5	pg/L	64	14000	-	11 J	-	16.1	-	9.56 J	-	11.2 J	-	9.04 JN
PCB-139/140	PCB-139/140	pg/L			-	< 1.25 U	-	< 4.25 U	-	3.51 JN	-	3.38 J	-	6 JN
PCB-141	52712-04-6	pg/L	64	14000	-	23.8	-	47.3 J	-	26.8 J	-	20.4 JN	-	27.9 JN
PCB-142	41411-61-4	pg/L	64	14000	-	< 1.43 U	-	< 4.91 U	-	< 2.85 U	-	< 1.8 U	-	< 3.76 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 1.41 U	-	< 4.69 U	-	< 2.73 U	-	< 1.76 U	-	< 3.69 U
PCB-144	68194-14-9	pg/L	64	14000	-	4.31 JN	-	9.41 JN	-	6.69 J	-	4.31 JN	-	4.34 J
PCB-145	74472-40-5	pg/L	64	14000	-	< 0.863 U	-	< 3.33 U	-	< 1.86 U	-	< 1.12 U	-	< 2.41 U
PCB-146	51908-16-8	pg/L	64	14000	-	17.7 JN	-	32.4	-	22.9	-	21.1	-	21.8
PCB-147/149	PCB-147/149	pg/L			-	115	-	173 J	-	115 J	-	125	-	119
PCB-148	74472-41-6	pg/L	64	14000	-	< 1.25 U	-	< 4.43 U	-	< 2.57 U	-	< 1.57 U	-	< 3.29 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 0.899 U	-	< 3.48 U	-	< 1.95 U	-	< 1.16 U	-	< 2.51 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 0.834 U	-	< 3.19 U	-	< 1.78 U	-	< 1.08 U	-	< 2.33 U
PCB-153/168	PCB-153/168	pg/L			-	121	-	195 J	-	131 J	-	131	-	148
PCB-154	60145-22-4	pg/L	64	14000	-	1.86 JN	-	< 4.12 U	-	2.84 JN	-	2.45 JN	-	4.5 J

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0086-PLW	23B-0086-PLW	23B-0087-PLW	23B-0087-PLW	23B-0088-PLW	23B-0088-PLW	23B-0089-PLW	23B-0089-PLW	23B-0090-PLW	23B-0090-PLW
					Sample Name	23B-0086-PLW-AS-F	23B-0086-PLW-AS-T	23B-0087-PLW-AS-F	23B-0087-PLW-AS-T	23B-0088-PLW-AS-F	23B-0088-PLW-AS-T	23B-0089-PLW-AS-F	23B-0089-PLW-AS-T	23B-0090-PLW-AS-F	23B-0090-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.2 - 1.2 ft	1.2 - 1.2 ft	0.8 - 0.8 ft	0.8 - 0.8 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	2.5 - 2.5 ft	2.5 - 2.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
PCB-155	33979-03-2	pg/L	64	14000	-	< 0.793 U	-	< 2.94 U	-	< 1.65 U	-	< 1.03 U	-	< 2.21 U
PCB-156/157	PCB-156/157	pg/L			-	15.9 J	-	22.6 JN	-	18.6 J	-	12.3 JN	-	19.4 J
PCB-158	74472-42-7	pg/L	64	14000	-	13.9 JN	-	23.9 JN	-	17.9	-	15.6 J	-	15.8 JN
PCB-159	39635-35-3	pg/L	64	14000	-	< 1.38 U	-	< 3.71 U	-	< 2.54 U	-	< 1.94 U	-	< 2.64 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 1.11 U	-	< 3.62 U	-	< 2.11 U	-	< 1.39 U	-	< 2.92 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 0.935 U	-	< 3.14 U	-	< 1.83 U	-	< 1.17 U	-	< 2.45 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 1.62 U	-	< 4.42 U	-	< 3.02 U	-	< 2.27 U	-	< 3.09 U
PCB-164	74472-45-0	pg/L	64	14000	-	9.57 JN	-	19.6	-	10 J	-	10.4 JN	-	10.7 J
PCB-165	74472-46-1	pg/L	64	14000	-	< 1.08 U	-	< 3.7 U	-	< 2.15 U	-	< 1.35 U	-	< 2.83 U
PCB-167	52663-72-6	pg/L	64	14000	-	9.82 J	-	12.3	-	6.5 JN	-	5.41 JN	-	6.72 JN
PCB-169	32774-16-6	pg/L	4	14000	-	< 2.3 U	-	< 5.61 U	-	< 3.25 U	-	< 3.34 U	-	< 4.94 U
PCB-170	35065-30-6	pg/L	64	14000	-	18.8 JN	-	33.2 J	-	18.7 J	-	15.8 JN	-	22.9
PCB-171/173	PCB-171/173	pg/L			-	< 4.29 U	-	10.3 JN	-	< 4.37 U	-	< 6.67 U	-	< 5.82 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 4.03 U	-	< 6.85 U	-	< 4.18 U	-	< 6.26 U	-	< 5.47 U
PCB-174	38411-25-5	pg/L	64	14000	-	16	-	25.7 J	-	11.3 J	-	11 JN	-	13.2 JN
PCB-175	40186-70-7	pg/L	64	14000	-	< 4.2 U	-	< 6.98 U	-	< 4.26 U	-	< 6.52 U	-	< 5.69 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 2.7 U	-	< 4.47 U	-	< 2.95 U	-	< 2.4 U	-	< 1.34 U
PCB-177	52663-70-4	pg/L	64	14000	-	7.58 J	-	10.3 JN	-	8.52 JN	-	6.11 JN	-	9.42 J
PCB-178	52663-67-9	pg/L	64	14000	-	< 3.53 U	-	< 5.7 U	-	< 3.76 U	-	< 3.13 U	-	< 1.75 U
PCB-179	52663-64-6	pg/L	64	14000	-	4.77 JN	-	7.66 J	-	5.56 JN	-	4.28 JN	-	6.91 JN
PCB-180/193	PCB-180/193	pg/L			-	34.6 J+	-	60.1 J	-	32.4 J	-	30.1 J+	-	35.9 J+
PCB-181	74472-47-2	pg/L	64	14000	-	< 3.62 U	-	< 6.14 U	-	< 3.75 U	-	< 5.62 U	-	< 4.91 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 3.37 U	-	< 5.75 U	-	< 3.51 U	-	< 5.24 U	-	< 4.57 U
PCB-183	52663-69-1	pg/L	64	14000	-	7.44 J	-	16.4	-	11.1	-	6.82 JN	-	9.9 JN
PCB-184	74472-48-3	pg/L	64	14000	-	< 2.47 U	-	< 4.16 U	-	< 2.75 U	-	< 2.19 U	-	< 1.23 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 4.11 U	-	< 7 U	-	< 4.27 U	-	< 6.39 U	-	< 5.58 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 2.26 U	-	< 3.74 U	-	< 2.47 U	-	< 2 U	-	< 1.12 U
PCB-187	52663-68-0	pg/L	64	14000	-	13.9 JN	-	21.5 JN	-	16.3 J	-	14.6	-	17.6
PCB-188	74487-85-7	pg/L	64	14000	-	< 2.22 U	-	< 3.69 U	-	< 2.43 U	-	< 1.97 U	-	< 1.11 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 2.34 U	-	< 3.86 U	-	< 2.84 U	-	< 2.5 U	-	< 2.83 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 3.32 U	-	< 5.66 U	-	< 2.87 U	-	< 4.66 U	-	< 4.71 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 3.21 U	-	< 5.39 U	-	< 3.29 U	-	< 4.99 U	-	< 4.35 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 2.84 U	-	< 4.69 U	-	< 2.86 U	-	< 4.42 U	-	< 3.86 U
PCB-194	35694-08-7	pg/L	64	14000	-	5.8 JN	-	9.94 J	-	5.51 JN	-	4.53 JN	-	5.26 JN
PCB-195	52663-78-2	pg/L	64	14000	-	1.8 JN	-	< 3.96 U	-	< 2.47 U	-	< 2.91 U	-	< 2.45 U
PCB-196	42740-50-1	pg/L	64	14000	-	< 2.4 U	-	4.81 JN	-	3.37 J	-	< 2.27 U	-	< 1.94 U
PCB-197	33091-17-7	pg/L	64	14000	-	< 1.79 U	-	< 3.55 U	-	< 1.31 U	-	< 1.69 U	-	< 1.45 U
PCB-198/199	PCB-198/199	pg/L			-	2.66 JN	-	9.37 JN	-	5.51 JN	-	4.61 JN	-	6.97 JN
PCB-200	52663-73-7	pg/L	64	14000	-	0.815 JN	-	< 3.59 U	-	< 1.32 U	-	< 1.81 U	-	< 1.55 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 1.97 U	-	< 3.85 U	-	< 1.42 U	-	< 1.86 U	-	< 1.59 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 1.58 U	-	< 3.03 U	-	2.5 J	-	< 1.49 U	-	< 1.28 U
PCB-203	52663-76-0	pg/L	64	14000	-	< 1.96 U	-	4.16 JN	-	3.89 JN	-	3.47 JN	-	4.7 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 1.74 U	-	< 3.31 U	-	< 1.22 U	-	< 1.64 U	-	< 1.41 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 1.38 U	-	< 3.11 U	-	< 1.95 U	-	< 2.4 U	-	< 2.01 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 20.2 UJ	-	< 20 UJ	-	< 20.2 UJ	-	< 20 UJ	-	< 19.8 UJ
PCB-207	52663-79-3	pg/L	64	14000	-	< 3.12 U	-	< 5.86 U	-	< 4.02 U	-	< 4.67 U	-	< 5.59 U
PCB-208	52663-77-1	pg/L	64	14000	-	< 2.81 U	-	< 5.18 U	-	< 3.56 U	-	< 4.2 U	-	< 5.03 U
PCB-209	2051-24-3	pg/L	64	14000	-	4.79 JN	-	14.5 J	-	5.05 J	-	4.48 JN	-	6.45 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	4.79	-	14.5	-	5.05	-	4.48	-	6.45
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	103	-	185	-	104	-	88.7	-	116
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	680	-	1110	-	748	-	710	-	779
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	11.1	-	28.3	-	20.8	-	12.6	-	16.9
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	5480	-	5690	-	4570	-	5200	-	6110
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	1210	-	1710	-	1180	-	1240	-	1310
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	966	-	641	-	695	-	822	-	1060
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	34.9	-	12.1	-	21	-	30.5	-	36.7
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	< 20.2 U	-	< 20 U	-	< 20.2 U	-	< 20 U	-	< 19.8 U
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	1280	-	1300	-	1070	-	1200	-	1430
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	1190	-	686	-	722	-	1090	-	1360

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0086-PLW	23B-0086-PLW	23B-0087-PLW	23B-0087-PLW	23B-0088-PLW	23B-0088-PLW	23B-0089-PLW	23B-0089-PLW	23B-0090-PLW	23B-0090-PLW
					Sample Name	23B-0086-PLW-AS-F	23B-0086-PLW-AS-T	23B-0087-PLW-AS-F	23B-0087-PLW-AS-T	23B-0088-PLW-AS-F	23B-0088-PLW-AS-T	23B-0089-PLW-AS-F	23B-0089-PLW-AS-T	23B-0090-PLW-AS-F	23B-0090-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.2 - 1.2 ft	1.2 - 1.2 ft	0.8 - 0.8 ft	0.8 - 0.8 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	2.5 - 2.5 ft	2.5 - 2.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
TAL Metals and Mercury															
Aluminum	7429-90-5	ug/L	2000	87	130 J	59	150	140	49 J+	70	48 J+	76	52 J+	64
Antimony	7440-36-0	ug/L	0.78	190	< 2.0 U	0.17 J	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150	0.40 J	0.53 J	0.54 J	0.67 J	0.45 J	0.54 J	0.48 J	0.50 J	0.51 J	0.50 J
Barium	7440-39-3	ug/L	380	220	34	38	40	42	39	38	39	39	39	39
Beryllium	7440-41-7	ug/L	0.0037	3.9	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16	< 1.0 U	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U	< 1.0 UJ	< 1.0 U
Calcium	7440-70-2	ug/L		116000	12000	14000	15000	15000	15000	15000	15000	16000	15000	15000
Chromium, Total	7440-47-3	ug/L	100	44	0.76 J	1.1 J	< 2.0 U	3.7	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Cobalt	7440-48-4	ug/L	0.6	19	0.19 J	0.30 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Copper	7440-50-8	ug/L	80	5	1.7 J	2.0	1.5 J	2.8	1.3 J	1.6 J	1.3 J	1.7 J	1.1 J	1.8 J
Iron	7439-89-6	ug/L	1400	1000	720	1200	1200	1700	920	1400	820	1400	750	1400
Lead	7439-92-1	ug/L	15	0.54	< 1.0 U	1.4	1.3 J+	3.5	< 1.0 U	1.4 J+	< 1.0 U	1.5 J+	< 1.0 U	1.4 J+
Magnesium	7439-95-4	ug/L		82000	3400	3900	4300	4200	4300	4100	4300	4100	4400	4200
Manganese	7439-96-5	ug/L	43	93	120	150	190	230	160	170	220	180	160	170
Nickel	7440-02-0	ug/L	39	27	0.65 J	0.89 J	0.35 J-	12	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ
Potassium	7440-09-7	ug/L		53000	2200	2500	3000	3000	2900	2800	2900	2800	2900	2800
Selenium	7782-49-2	ug/L	10	5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000	56000	65000	70000	71000	69000	66000	70000	66000	71000	68000
Thallium	7440-28-0	ug/L	0.02	6	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27	0.72 J	0.91 J	0.99 J	1.3 J	0.72 J	1.0 J	0.66 J	1.0 J	0.66 J	1.1 J
Zinc	7440-66-6	ug/L	600	11.8	5.6 J+	7.7	11	43 J	6.3	9.8 J	6.9	14 J	5.1	6.8 J
Mercury	7439-97-6	ug/L	0.57	0.77	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide															
CYANIDE	57-12-5	ug/L	0.15	5.2	-	3.5 J	-	< 10 U	-	< 10 U	-	2.9 J	-	< 10 U
Hexavalent Chromium															
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs															
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
2-HEXANONE	591-78-6	ug/L	3.8	99	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CHLOROETHANE	75-00-3	ug/L	830		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0086-PLW	23B-0086-PLW	23B-0087-PLW	23B-0087-PLW	23B-0088-PLW	23B-0088-PLW	23B-0089-PLW	23B-0089-PLW	23B-0090-PLW	23B-0090-PLW
					Sample Name	23B-0086-PLW-AS-F	23B-0086-PLW-AS-T	23B-0087-PLW-AS-F	23B-0087-PLW-AS-T	23B-0088-PLW-AS-F	23B-0088-PLW-AS-T	23B-0089-PLW-AS-F	23B-0089-PLW-AS-T	23B-0090-PLW-AS-F	23B-0090-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.2 - 1.2 ft	1.2 - 1.2 ft	0.8 - 0.8 ft	0.8 - 0.8 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	2.5 - 2.5 ft	2.5 - 2.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	0.77 J+	-	< 0.50 U	-	< 0.50 U
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Styrene	100-42-5	ug/L	100	32	-	< 0.50 R	-	< 0.50 R	-	< 0.50 R	-	< 0.50 R	-	< 0.50 R
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 U	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
Toluene	108-88-3	ug/L	57	62	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
TCL SVOCs															
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 UJ
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.1 UJ	-	< 5.0 UJ	-	< 5.1 UJ	-	< 5.0 UJ	-	< 5.1 UJ
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 UJ
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0086-PLW	23B-0086-PLW	23B-0087-PLW	23B-0087-PLW	23B-0088-PLW	23B-0088-PLW	23B-0089-PLW	23B-0089-PLW	23B-0090-PLW	23B-0090-PLW
					Sample Name	23B-0086-PLW-AS-F	23B-0086-PLW-AS-T	23B-0087-PLW-AS-F	23B-0087-PLW-AS-T	23B-0088-PLW-AS-F	23B-0088-PLW-AS-T	23B-0089-PLW-AS-F	23B-0089-PLW-AS-T	23B-0090-PLW-AS-F	23B-0090-PLW-AS-T
					Sample Date	10/25/2023	10/25/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023
					Sample Type	N	N	N	N	N	N	N	N	N	N
					Depth Interval	1.2 - 1.2 ft	1.2 - 1.2 ft	0.8 - 0.8 ft	0.8 - 0.8 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	2.5 - 2.5 ft	2.5 - 2.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL											
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
FLUORENE	86-73-7	ug/L	29	19	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
PHENOL	108-95-2	ug/L	580	160	-	1.4 J	-	< 10 U	-	1.2 J	-	1.1 J	-	< 10 UJ
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U	-	< 5.0 U	-	< 5.1 U
PFAS															
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.8 U	-	1.3 J	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	3.3	-	3.3	-	3.0 J	-	3.1	-	3.1 J
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	5.0	-	5.2	-	5.0 J	-	5.1	-	5.1 J
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	0.35 J	-	< 1.9 U	-	0.28 J	-	< 1.9 U	-	0.40 J
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.8	-	2.6	-	2.6	-	2.8	-	2.6
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	2.5	-	2.9	-	2.7	-	2.9	-	2.7
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	4.3	-	4.4	-	3.9	-	5.3	-	3.7
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.88 J	-	0.89 J	-	0.95 J	-	0.96 J	-	0.90 J
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	0.31 J	-	< 1.9 U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	4.9	-	5.9	-	7.0 J	-	5.4	-	5.8
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.1	-	6.2	-	6.2	-	7.4	-	6.1
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	0.39 J	-	0.50 J	-	0.40 J	-	0.36 J	-	0.43 J
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	4.3	-	5.5	-	5.6 J	-	4.6	-	5.8 J
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U

Table 17
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				Location	23B-0086-PLW	23B-0086-PLW	23B-0087-PLW	23B-0087-PLW	23B-0088-PLW	23B-0088-PLW	23B-0089-PLW	23B-0089-PLW	23B-0090-PLW	23B-0090-PLW
				Sample Name	23B-0086-PLW-AS-F	23B-0086-PLW-AS-T	23B-0087-PLW-AS-F	23B-0087-PLW-AS-T	23B-0088-PLW-AS-F	23B-0088-PLW-AS-T	23B-0089-PLW-AS-F	23B-0089-PLW-AS-T	23B-0090-PLW-AS-F	23B-0090-PLW-AS-T
				Sample Date	10/25/2023	10/25/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023
				Sample Type	N	N	N	N	N	N	N	N	N	N
				Depth Interval	1.2 - 1.2 ft	1.2 - 1.2 ft	0.8 - 0.8 ft	0.8 - 0.8 ft	1.4 - 1.4 ft	1.4 - 1.4 ft	2.5 - 2.5 ft	2.5 - 2.5 ft	0.6 - 0.6 ft	0.6 - 0.6 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL										
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.8 U	-	< 1.9 U	-	< 1.8 U	-	< 1.9 U	-	< 1.9 U
Field Measurements														
DISSOLVED OXYGEN	DO	mg/L			-	8.26	-	7.74	-	7.77	-	7.79	-	7.98
Oxidation-Reduction Potential	ORP	mv			-	121	-	157	-	155.6	-	131.6	-	121.9
pH	PH	su			-	6.67	-	6.58	-	6.6	-	6.57	-	6.59
Specific Conductance	SC	us/cm			-	459.5	-	471.1	-	469.5	-	470.2	-	471.8
Temperature	TEMP	deg c			-	12.9	-	13.4	-	13.4	-	13.4	-	13.5
Turbidity	TURB	NTU			-	1.16	-	1.56	-	1.33	-	1.37	-	1.3

Table 17
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					Location	23B-0091-PLW	23B-0091-PLW	23B-0092-PLW	23B-0092-PLW	23B-0093-PLW	23B-0093-PLW	23B-0094-PLW	23B-0094-PLW
					Sample Name	23B-0091-PLW-AS-F	23B-0091-PLW-AS-T	23B-0092-PLW-AS-F	23B-0092-PLW-AS-T	23B-0093-PLW-AS-F	23B-0093-PLW-AS-T	23B-0094-PLW-AS-F	23B-0094-PLW-AS-T
					Sample Date	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N	N	N
					Depth Interval	3.05 - 3.05 ft	3.05 - 3.05 ft	4.25 - 4.25 ft	4.25 - 4.25 ft	2.15 - 2.15 ft	2.15 - 2.15 ft	2.1 - 2.1 ft	2.1 - 2.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL									
TCL Pesticides													
ALDRIN	309-00-2	ug/L	0.00000077	0.04	-	< 0.050 UJ	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	-	< 0.050 UJ	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	-	< 0.050 UJ	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		-	< 0.050 UJ	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		-	< 0.050 UJ	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		-	< 0.050 UJ	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN	72-20-8	ug/L	0.03	0.036	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
ENDRIN KETONE	53494-70-5	ug/L	0.23		-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	-	< 0.050 UJ	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	-	< 0.050 UJ	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	-	< 0.050 UJ	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	-	< 0.50 UJ	-	< 0.50 U	-	< 0.51 U	-	< 0.51 U
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	-	< 0.10 UJ	-	< 0.10 U	-	< 0.10 U	-	< 0.10 U
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	-	< 5.0 UJ	-	< 5.0 U	-	< 5.1 U	-	< 5.1 U
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		-	< 0.050 UJ	-	< 0.050 U	-	< 0.051 U	-	< 0.051 U
PCDD/F													
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	-	< 1.65 U	-	< 1.85 U	-	< 1.62 U	-	< 4.28 U
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	-	< 1.03 U	-	< 1.36 U	-	< 0.941 U	-	< 1.79 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	-	< 1.55 U	-	< 1.8 U	-	< 1.58 U	-	< 2.63 U
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	-	< 1.16 U	-	< 1.35 U	-	< 0.721 U	-	< 1.42 U
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	-	< 1.64 U	-	< 1.74 U	-	< 1.74 U	-	< 2.74 U
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	-	< 1 U	-	< 1.16 U	-	< 0.704 U	-	< 1.39 U
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	-	< 1.72 U	-	< 1.83 U	-	< 1.44 U	-	< 2.56 U
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	-	< 1.4 U	-	< 1.66 U	-	< 0.86 U	-	< 1.81 U
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	-	< 2.02 U	-	< 1.95 U	-	< 1.97 U	-	< 2.56 U
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	-	< 1.37 U	-	< 1.4 U	-	< 0.978 U	-	< 1.55 U
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	-	< 0.815 U	-	< 1.15 U	-	< 0.739 U	-	< 1.4 U
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	-	< 1.24 U	-	< 1.43 U	-	< 0.85 U	-	< 1.61 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	-	< 1.31 U	-	< 1.4 U	-	< 1.13 U	-	< 1.51 U
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	-	< 9.8 UJ	-	< 10.1 UJ	-	< 9.9 UJ	-	< 9.9 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	-	< 1.07 U	-	< 1.09 U	-	< 1.03 U	-	< 1.51 U
OCDD	3268-87-9	pg/L	400	31	-	6.19 J	-	< 3.23 U	-	< 2.66 U	-	< 8.48 U
OCDF	39001-02-0	pg/L	400	31	-	< 2.91 U	-	< 3.66 U	-	< 2.31 U	-	< 6.21 U
Total HpCDD (a)	RA_Total_HpCDD	pg/L			-	< 1.65 U	-	< 1.85 U	-	< 1.62 U	-	< 4.28 U
Total HpCDF (a)	RA_Total_HpCDF	pg/L			-	< 1.03 U	-	< 1.36 U	-	< 0.941 U	-	< 1.79 U
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		-	< 1.72 U	-	< 1.83 U	-	< 1.74 U	-	< 2.74 U
Total HxCDF (a)	RA_Total_HxCDF	pg/L			-	< 1.4 U	-	< 1.66 U	-	< 0.86 U	-	< 1.81 U
Total PeCDD (a)	RA_Total_PeCDD	pg/L			-	< 2.02 U	-	< 1.95 U	-	< 1.97 U	-	< 2.56 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L			-	< 1.37 U	-	< 1.4 U	-	< 1.13 U	-	< 1.55 U
Total TCDD (a)	RA_Total_TCDD	pg/L			-	< 9.8 U	-	< 10.1 U	-	< 9.9 U	-	< 9.9 U
Total TCDF (a)	RA_Total_TCDF	pg/L			-	< 1.07 U	-	< 1.09 U	-	< 1.03 U	-	< 1.51 U
PCB Congeners													
PCB-001	2051-60-7	pg/L	64	14000	-	2.43 JN	-	< 2.56 U	-	< 6.71 U	-	< 2.29 U
PCB-002	2051-61-8	pg/L	64	14000	-	< 2.72 U	-	< 2.88 U	-	< 2.23 U	-	< 2.62 U
PCB-003	2051-62-9	pg/L	64	14000	-	< 2.85 U	-	< 3.01 U	-	< 2.33 U	-	< 2.74 U
PCB-004	13029-08-8	pg/L	64	14000	-	22.2 JN	-	21.8 JN	-	41.9 JN	-	24 JN
PCB-005	16605-91-7	pg/L	64	14000	-	< 3.9 U	-	< 5.26 U	-	< 3.27 U	-	< 3.13 U
PCB-006	25569-80-6	pg/L	64	14000	-	< 3.27 U	-	< 4.41 U	-	< 2.74 U	-	1.94 JN
PCB-007	33284-50-3	pg/L	64	14000	-	< 3.74 U	-	< 5.04 U	-	< 3.13 U	-	< 3 U
PCB-008	34883-43-7	pg/L	64	14000	-	10.3 JN	-	9.44 JN	-	< 13.1 U	-	7.89 JN
PCB-009	34883-39-1	pg/L	64	14000	-	< 3.52 U	-	< 4.75 U	-	< 2.95 U	-	< 2.83 U
PCB-010	33146-45-1	pg/L	64	14000	-	< 3.42 U	-	< 5.84 U	-	< 5.5 U	-	< 7.27 U

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Lower Neponset River
Boston, Massachusetts

					Location	23B-0091-PLW	23B-0091-PLW	23B-0092-PLW	23B-0092-PLW	23B-0093-PLW	23B-0093-PLW	23B-0094-PLW	23B-0094-PLW
					Sample Name	23B-0091-PLW-AS-F	23B-0091-PLW-AS-T	23B-0092-PLW-AS-F	23B-0092-PLW-AS-T	23B-0093-PLW-AS-F	23B-0093-PLW-AS-T	23B-0094-PLW-AS-F	23B-0094-PLW-AS-T
					Sample Date	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N	N	N
					Depth Interval	3.05 - 3.05 ft	3.05 - 3.05 ft	4.25 - 4.25 ft	4.25 - 4.25 ft	2.15 - 2.15 ft	2.15 - 2.15 ft	2.1 - 2.1 ft	2.1 - 2.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL									
PCB-011	2050-67-1	pg/L	64	14000	-	136 J+	-	145 J+	-	< 184 UJ	-	135 J+
PCB-012/013	PCB-12/13	pg/L			-	< 3.91 U	-	< 5.28 U	-	< 3.28 U	-	< 3.14 U
PCB-014	34883-41-5	pg/L	64	14000	-	< 3.8 U	-	< 5.13 U	-	< 3.19 U	-	< 3.06 U
PCB-015	2050-68-2	pg/L	64	14000	-	4.5 JN	-	5.28 JN	-	10.1 JN	-	6.91 JN
PCB-016	38444-78-9	pg/L	64	14000	-	< 7.55 U	-	< 9.33 U	-	6.75 JN	-	< 8.65 U
PCB-017	37680-66-3	pg/L	64	14000	-	< 7.46 U	-	< 9.22 U	-	29.9 J	-	< 8.54 U
PCB-018/030	PCB-18/30	pg/L			-	12.1 J	-	11.3 JN	-	28.5 J+	-	14.3 JN
PCB-019	38444-73-4	pg/L	64	14000	-	< 19.6 UJ	-	< 20.2 UJ	-	21 J	-	9.09 JN
PCB-020/028	PCB-20/28	pg/L			-	12.8 JN	-	14.6 JN	-	50.5 J+	-	18 JN
PCB-021/033	PCB-21/33	pg/L			-	< 5.95 U	-	< 6.96 U	-	< 6.34 U	-	< 6.26 U
PCB-022	38444-85-8	pg/L	64	14000	-	< 5.58 U	-	< 6.53 U	-	< 5.95 U	-	< 5.88 U
PCB-023	55720-44-0	pg/L	64	14000	-	< 6.27 U	-	< 7.34 U	-	< 6.69 U	-	< 6.61 U
PCB-024	55702-45-9	pg/L	64	14000	-	< 5.35 U	-	< 6.62 U	-	< 5.39 U	-	< 6.13 U
PCB-025	55712-37-3	pg/L	64	14000	-	< 5.12 U	-	< 5.99 U	-	7.36 JN	-	< 5.39 U
PCB-026/029	PCB-26/29	pg/L			-	< 6.49 U	-	< 7.59 U	-	14.6 J	-	6.81 J
PCB-027	38444-76-7	pg/L	64	14000	-	< 5.57 U	-	< 6.89 U	-	13.4	-	< 6.38 U
PCB-031	16606-02-3	pg/L	64	14000	-	7.7 JN	-	9.49 JN	-	25 JN	-	10 JN
PCB-032	38444-77-8	pg/L	64	14000	-	< 5.04 U	-	8.9 JN	-	18.4 J+	-	9.69 J
PCB-034	37680-68-5	pg/L	64	14000	-	< 6.65 U	-	< 7.78 U	-	< 7.09 U	-	< 7.01 U
PCB-035	37680-69-6	pg/L	64	14000	-	< 6.22 U	-	< 7.28 U	-	< 6.63 U	-	< 6.55 U
PCB-036	38444-87-0	pg/L	64	14000	-	< 5.72 U	-	< 6.7 U	-	< 6.1 U	-	< 6.03 U
PCB-037	38444-90-5	pg/L	64	14000	-	< 6.27 U	-	< 7.34 U	-	< 6.69 UJ	-	< 6.61 U
PCB-038	53555-66-1	pg/L	64	14000	-	< 5.93 U	-	< 6.94 U	-	< 6.33 U	-	< 6.25 U
PCB-039	38444-88-1	pg/L	64	14000	-	< 6.05 U	-	< 7.08 U	-	< 6.45 U	-	< 6.38 U
PCB-040/071	PCB-40/71	pg/L			-	5.69 J	-	6.74 J	-	14.3 J	-	8.39 J
PCB-041	52663-59-9	pg/L	64	14000	-	< 6.55 U	-	< 5.46 U	-	< 3.8 U	-	< 3.67 U
PCB-042	36559-22-5	pg/L	64	14000	-	< 4.79 U	-	3.91 JN	-	7.83 JN	-	4.29 J
PCB-043	70362-46-8	pg/L	64	14000	-	< 4.62 U	-	< 3.85 U	-	< 2.68 U	-	< 2.59 U
PCB-044/047/065	PCB-44/47/65	pg/L			-	22.6 J+	-	23.9 J+	-	48.7 J	-	26.1 J+
PCB-045	70362-45-7	pg/L	64	14000	-	< 5.44 U	-	< 4.54 U	-	5.88 J	-	2.12 JN
PCB-046	41464-47-5	pg/L	64	14000	-	< 5.53 U	-	< 4.61 U	-	< 3.21 U	-	< 3.1 U
PCB-048	70362-47-9	pg/L	64	14000	-	< 4.72 U	-	< 3.94 U	-	5.24 J	-	< 2.65 U
PCB-049/069	PCB-49/69	pg/L			-	12.2 J+	-	11.1 J+	-	29.6 J+	-	14.7 J+
PCB-050/053	PCB-50/53	pg/L			-	5.07 J	-	5.74 J	-	13.3 J	-	6.16 JN
PCB-051	68194-04-7	pg/L	64	14000	-	< 4.46 U	-	< 3.72 U	-	2.86 JN	-	2.54 J
PCB-052	35693-99-3	pg/L	64	14000	-	18.1 JN	-	20 J+	-	47.3 J	-	24.3 J+
PCB-054	15968-05-5	pg/L	64	14000	-	< 2.08 U	-	< 1.23 U	-	< 1.83 U	-	< 2.43 U
PCB-055	74338-24-2	pg/L	64	14000	-	< 3.84 U	-	< 4.11 U	-	< 3.72 U	-	< 3.36 U
PCB-056	41464-43-1	pg/L	64	14000	-	< 4.18 U	-	< 4.48 U	-	5.49 JN	-	< 3.66 U
PCB-057	70424-67-8	pg/L	64	14000	-	< 4.22 U	-	< 4.52 U	-	< 4.09 U	-	< 3.7 U
PCB-058	41464-49-7	pg/L	64	14000	-	< 3.86 U	-	< 4.13 U	-	< 3.74 U	-	< 3.38 U
PCB-059/062/075	PCB-59/62/75	pg/L			-	< 3.84 U	-	3.13 JN	-	3.3 JN	-	2.87 JN
PCB-060	33025-41-1	pg/L	64	14000	-	< 4.51 U	-	< 4.83 U	-	3.61 JN	-	< 3.95 U
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			-	15.3 J+	-	18.1 J+	-	34.6 J	-	16.3 JN
PCB-063	74472-34-7	pg/L	64	14000	-	< 4.38 U	-	< 4.69 U	-	< 4.24 U	-	< 3.83 U
PCB-064	52663-58-8	pg/L	64	14000	-	4.92 J	-	5.13 J	-	15 J+	-	5.1 JN
PCB-066	32598-10-0	pg/L	64	14000	-	7.55 JN	-	8.4 J	-	19.3	-	10.3
PCB-067	73575-53-8	pg/L	64	14000	-	< 3.61 U	-	< 3.87 U	-	< 3.5 U	-	< 3.17 U
PCB-068	73575-52-7	pg/L	64	14000	-	< 4.16 U	-	< 4.46 U	-	< 4.03 U	-	< 3.65 U
PCB-072	41464-42-0	pg/L	64	14000	-	< 4.16 U	-	< 4.45 U	-	< 4.02 U	-	< 3.64 U
PCB-073	74338-23-1	pg/L	64	14000	-	< 3.23 U	-	< 2.7 U	-	< 1.88 U	-	< 1.81 U
PCB-077	32598-13-3	pg/L	64	14000	-	< 4.41 U	-	< 5.27 U	-	< 3.88 U	-	< 4.38 U
PCB-078	70362-49-1	pg/L	64	14000	-	< 4.22 U	-	< 4.52 U	-	< 4.08 U	-	< 3.69 U
PCB-079	41464-48-6	pg/L	64	14000	-	< 3.69 U	-	< 3.95 U	-	< 3.57 U	-	< 3.23 U
PCB-080	33284-52-5	pg/L	64	14000	-	< 3.86 U	-	< 4.14 U	-	< 3.74 U	-	< 3.39 U
PCB-081	70362-50-4	pg/L	64	14000	-	< 4.27 U	-	< 4.58 U	-	< 4.14 U	-	< 3.74 U
PCB-082	52663-62-4	pg/L	64	14000	-	< 4.22 U	-	< 6.12 U	-	< 5.31 U	-	< 4.98 U
PCB-083	60145-20-2	pg/L	64	14000	-	< 6.4 U	-	< 9.28 U	-	< 8.05 U	-	< 7.55 U
PCB-084	52663-60-2	pg/L	64	14000	-	< 4.88 U	-	< 7.07 U	-	7.29 JN	-	7.22 JN

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0091-PLW	23B-0091-PLW	23B-0092-PLW	23B-0092-PLW	23B-0093-PLW	23B-0093-PLW	23B-0094-PLW	23B-0094-PLW
					Sample Name	23B-0091-PLW-AS-F	23B-0091-PLW-AS-T	23B-0092-PLW-AS-F	23B-0092-PLW-AS-T	23B-0093-PLW-AS-F	23B-0093-PLW-AS-T	23B-0094-PLW-AS-F	23B-0094-PLW-AS-T
					Sample Date	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N	N	N
					Depth Interval	3.05 - 3.05 ft	3.05 - 3.05 ft	4.25 - 4.25 ft	4.25 - 4.25 ft	2.15 - 2.15 ft	2.15 - 2.15 ft	2.1 - 2.1 ft	2.1 - 2.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL									
PCB-085/116	PCB-85/116	pg/L			-	< 3.7 U	-	< 5.36 U	-	9.25 J	-	4.96 JN
PCB-086/087/097/109/119/125	PCB-86+	pg/L			-	14.8 J	-	17.3 J	-	23.1 J+	-	19.7 JN
PCB-088	55215-17-3	pg/L	64	14000	-	< 4.72 U	-	< 6.84 U	-	< 5.94 U	-	< 5.57 U
PCB-089	73575-57-2	pg/L	64	14000	-	< 4.15 U	-	< 6.02 U	-	< 5.23 U	-	< 4.9 U
PCB-090/101/113	PCB-90/101/113	pg/L			-	27.9 J	-	26.5 J	-	31.7 JN	-	28.4 JN
PCB-091	68194-05-8	pg/L	64	14000	-	< 4.07 U	-	< 5.9 U	-	6.61 JN	-	< 4.8 U
PCB-092	52663-61-3	pg/L	64	14000	-	5.53 J	-	< 6.59 U	-	8.91 J	-	5.63 JN
PCB-093/100	PCB-93/100	pg/L			-	< 4.38 U	-	< 6.35 U	-	< 5.51 U	-	< 5.17 U
PCB-094	73575-55-0	pg/L	64	14000	-	< 4.82 U	-	< 6.99 U	-	< 6.07 U	-	< 5.69 U
PCB-095	38379-99-6	pg/L	64	14000	-	14.5 JN	-	18.5 JN	-	26.2 J	-	14.9 JN
PCB-096	73575-54-9	pg/L	64	14000	-	< 2.22 U	-	< 2.73 U	-	< 1.82 U	-	< 2.28 U
PCB-098	60233-25-2	pg/L	64	14000	-	< 3.42 U	-	< 4.96 U	-	< 4.3 U	-	< 4.03 U
PCB-099	38380-01-7	pg/L	64	14000	-	8.5 J	-	4.87 JN	-	13.1 JN	-	8.19 JN
PCB-102	68194-06-9	pg/L	64	14000	-	< 3.73 U	-	< 5.4 U	-	< 4.69 U	-	< 4.4 U
PCB-103	60145-21-3	pg/L	64	14000	-	< 4.09 U	-	< 5.93 U	-	< 5.15 U	-	< 4.83 U
PCB-104	56558-16-8	pg/L	64	14000	-	< 1.99 U	-	< 2.44 U	-	< 1.63 U	-	< 2.04 U
PCB-105	32598-14-4	pg/L	64	14000	-	6.82 JN	-	4.66 JN	-	9.95 JN	-	9.14 J
PCB-106	70424-69-0	pg/L	64	14000	-	< 2.91 U	-	< 4.22 U	-	< 3.66 U	-	< 3.44 U
PCB-107	70424-68-9	pg/L	64	14000	-	< 2.87 U	-	< 4.16 U	-	< 3.61 U	-	< 3.38 U
PCB-108/124	PCB-108/124	pg/L			-	< 3.15 U	-	< 4.57 U	-	< 3.97 U	-	< 3.72 U
PCB-110	38380-03-9	pg/L	64	14000	-	22 J	-	21.8 JN	-	41.1 J	-	26.6 J
PCB-111	39635-32-0	pg/L	64	14000	-	< 3.06 U	-	< 4.43 U	-	< 3.84 U	-	< 3.61 U
PCB-112	74472-36-9	pg/L	64	14000	-	< 2.58 U	-	< 3.75 U	-	< 3.25 U	-	< 3.05 U
PCB-114	74472-37-0	pg/L	64	14000	-	< 3.04 U	-	< 4.25 U	-	< 3.68 U	-	< 3.52 U
PCB-115	74472-38-1	pg/L	64	14000	-	< 2.38 U	-	< 3.46 U	-	< 3 U	-	< 2.81 U
PCB-117	68194-11-6	pg/L	64	14000	-	< 3.41 U	-	< 4.94 U	-	< 4.29 U	-	< 4.02 U
PCB-118	31508-00-6	pg/L	64	14000	-	16.9 JN	-	19.6 J+	-	26.7 J	-	16.6 JN
PCB-120	68194-12-7	pg/L	64	14000	-	< 2.58 U	-	< 3.74 U	-	< 3.25 U	-	< 3.05 U
PCB-121	56558-18-0	pg/L	64	14000	-	< 2.78 U	-	< 4.03 U	-	< 3.5 U	-	< 3.28 U
PCB-122	76842-07-4	pg/L	64	14000	-	< 3.9 U	-	< 5.45 U	-	< 4.73 U	-	< 4.51 U
PCB-123	65510-44-3	pg/L	64	14000	-	< 2.85 U	-	< 4.13 U	-	< 3.58 U	-	< 3.36 U
PCB-126	57465-28-8	pg/L	1.2	14000	-	< 3.01 U	-	< 3.51 U	-	< 3.3 U	-	< 2.96 U
PCB-127	39635-33-1	pg/L	64	14000	-	< 3.16 U	-	< 4.19 U	-	< 3.53 U	-	< 3.69 U
PCB-128/166	PCB-128/166	pg/L			-	4.63 J	-	< 6.68 U	-	6.35 J	-	3.26 JN
PCB-129/138/163	PCB-129/138/163	pg/L			-	34.3 J+	-	36.1 J+	-	39.8 J	-	33.8 J+
PCB-130	52663-66-8	pg/L	64	14000	-	< 2.24 U	-	< 5.6 U	-	< 2.35 U	-	< 2.21 U
PCB-131	61798-70-7	pg/L	64	14000	-	< 2.02 U	-	< 5.03 U	-	< 2.11 U	-	< 1.98 U
PCB-132	38380-05-1	pg/L	64	14000	-	7.26 J	-	8.62 J	-	8.98 JN	-	7.47 JN
PCB-133	35694-04-3	pg/L	64	14000	-	< 1.78 U	-	< 4.44 U	-	< 1.87 U	-	< 1.75 U
PCB-134	52704-70-8	pg/L	64	14000	-	< 2.19 U	-	< 5.47 U	-	< 2.3 U	-	< 2.16 U
PCB-135/151	PCB-135/151	pg/L			-	7.22 J	-	8.08 J	-	7.46 JN	-	8.81 JN
PCB-136	38411-22-2	pg/L	64	14000	-	2.81 JN	-	< 3.68 U	-	< 1.67 U	-	< 1.27 U
PCB-137	35694-06-5	pg/L	64	14000	-	< 2.05 U	-	< 5.13 U	-	< 2.15 U	-	< 2.02 U
PCB-139/140	PCB-139/140	pg/L			-	< 1.78 U	-	< 4.45 U	-	< 1.87 U	-	< 1.76 U
PCB-141	52712-04-6	pg/L	64	14000	-	5.07 JN	-	6.53 JN	-	4.44 JN	-	3.87 JN
PCB-142	41411-61-4	pg/L	64	14000	-	< 2.01 U	-	< 5.02 U	-	< 2.11 U	-	< 1.98 U
PCB-143	68194-15-0	pg/L	64	14000	-	< 1.8 U	-	< 4.5 U	-	< 1.89 U	-	< 1.77 U
PCB-144	68194-14-9	pg/L	64	14000	-	< 1.87 U	-	< 4.66 U	-	< 1.96 U	-	< 1.84 U
PCB-145	74472-40-5	pg/L	64	14000	-	< 1.24 U	-	< 3.26 U	-	< 1.49 U	-	< 1.12 U
PCB-146	51908-16-8	pg/L	64	14000	-	3.82 J	-	< 3.97 U	-	2.73 JN	-	< 1.57 U
PCB-147/149	PCB-147/149	pg/L			-	16.7 JN	-	18.2 JN	-	21.3 J	-	16.5 J
PCB-148	74472-41-6	pg/L	64	14000	-	< 1.83 U	-	< 4.57 U	-	< 1.92 U	-	< 1.8 U
PCB-150	68194-08-1	pg/L	64	14000	-	< 1.27 U	-	< 3.34 U	-	< 1.52 U	-	< 1.15 U
PCB-152	68194-09-2	pg/L	64	14000	-	< 1.2 U	-	< 3.17 U	-	< 1.44 U	-	< 1.09 U
PCB-153/168	PCB-153/168	pg/L			-	20.1 JN	-	35.6	-	27.8 J	-	25.3 J+
PCB-154	60145-22-4	pg/L	64	14000	-	< 1.64 U	-	< 4.1 U	-	< 1.72 U	-	< 1.62 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0091-PLW	23B-0091-PLW	23B-0092-PLW	23B-0092-PLW	23B-0093-PLW	23B-0093-PLW	23B-0094-PLW	23B-0094-PLW
					Sample Name	23B-0091-PLW-AS-F	23B-0091-PLW-AS-T	23B-0092-PLW-AS-F	23B-0092-PLW-AS-T	23B-0093-PLW-AS-F	23B-0093-PLW-AS-T	23B-0094-PLW-AS-F	23B-0094-PLW-AS-T
					Sample Date	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N	N	N
					Depth Interval	3.05 - 3.05 ft	3.05 - 3.05 ft	4.25 - 4.25 ft	4.25 - 4.25 ft	2.15 - 2.15 ft	2.15 - 2.15 ft	2.1 - 2.1 ft	2.1 - 2.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL									
PCB-155	33979-03-2	pg/L	64	14000	-	< 1.11 U	-	< 2.93 U	-	< 1.34 U	-	< 1.01 U
PCB-156/157	PCB-156/157	pg/L			-	< 3.47 U	-	< 8.22 U	-	< 3.83 U	-	4.37 J
PCB-158	74472-42-7	pg/L	64	14000	-	< 1.34 U	-	3.51 J	-	2.9 JN	-	3.11 J
PCB-159	39635-35-3	pg/L	64	14000	-	< 2.14 U	-	< 5.05 U	-	< 2.41 U	-	< 2.91 U
PCB-160	41411-62-5	pg/L	64	14000	-	< 1.44 U	-	< 3.58 U	-	< 1.51 U	-	< 1.41 U
PCB-161	74472-43-8	pg/L	64	14000	-	< 1.29 U	-	< 3.23 U	-	< 1.36 U	-	< 1.27 U
PCB-162	39635-34-2	pg/L	64	14000	-	< 2.38 U	-	< 5.63 U	-	< 2.68 U	-	< 3.24 U
PCB-164	74472-45-0	pg/L	64	14000	-	< 1.32 U	-	< 3.29 U	-	< 1.38 U	-	< 1.3 U
PCB-165	74472-46-1	pg/L	64	14000	-	< 1.57 U	-	< 3.91 U	-	< 1.64 U	-	< 1.54 U
PCB-167	52663-72-6	pg/L	64	14000	-	< 2.42 U	-	< 5.73 U	-	< 2.73 U	-	< 3.29 U
PCB-169	32774-16-6	pg/L	4	14000	-	< 2.82 U	-	< 6.97 U	-	< 2.89 U	-	< 3.35 U
PCB-170	35065-30-6	pg/L	64	14000	-	< 6.57 U	-	< 9.03 U	-	7.53 JN	-	7.23 JN
PCB-171/173	PCB-171/173	pg/L			-	< 6 U	-	< 9.77 U	-	< 5.51 U	-	< 5.22 U
PCB-172	52663-74-8	pg/L	64	14000	-	< 5.54 U	-	< 9.02 U	-	< 5.09 U	-	< 4.82 U
PCB-174	38411-25-5	pg/L	64	14000	-	6.25 J	-	< 8.24 U	-	6.05 J	-	< 4.41 U
PCB-175	40186-70-7	pg/L	64	14000	-	< 5.62 U	-	< 9.15 U	-	< 5.17 U	-	< 4.89 U
PCB-176	52663-65-7	pg/L	64	14000	-	< 2.35 U	-	< 2.35 U	-	< 2.58 U	-	< 1.99 U
PCB-177	52663-70-4	pg/L	64	14000	-	< 5.27 U	-	< 8.58 U	-	< 4.84 U	-	3.48 JN
PCB-178	52663-67-9	pg/L	64	14000	-	< 3.05 U	-	< 3.06 U	-	< 3.35 U	-	< 2.59 U
PCB-179	52663-64-6	pg/L	64	14000	-	< 2.02 U	-	< 2.03 U	-	< 2.22 U	-	2.87 JN
PCB-180/193	PCB-180/193	pg/L			-	13 JN	-	21.6 J	-	16 J	-	17 J
PCB-181	74472-47-2	pg/L	64	14000	-	< 5.06 U	-	< 8.24 U	-	< 4.65 U	-	< 4.41 U
PCB-182	60145-23-5	pg/L	64	14000	-	< 4.59 U	-	< 7.47 U	-	< 4.22 U	-	< 3.99 U
PCB-183	52663-69-1	pg/L	64	14000	-	< 5.03 U	-	6.66 JN	-	< 4.62 U	-	5.12 JN
PCB-184	74472-48-3	pg/L	64	14000	-	< 2.24 U	-	< 2.25 U	-	< 2.46 U	-	< 1.9 U
PCB-185	52712-05-7	pg/L	64	14000	-	< 6.38 U	-	< 10.4 U	-	< 5.86 U	-	< 5.55 U
PCB-186	74472-49-4	pg/L	64	14000	-	< 1.96 U	-	< 1.96 U	-	< 2.15 U	-	< 1.66 U
PCB-187	52663-68-0	pg/L	64	14000	-	5.91 JN	-	8.37 JN	-	8.57 J	-	4.62 JN
PCB-188	74487-85-7	pg/L	64	14000	-	< 2.06 U	-	< 2.07 U	-	< 2.27 U	-	< 1.75 U
PCB-189	39635-31-9	pg/L	64	14000	-	< 3.15 U	-	< 2.96 U	-	< 1.98 U	-	< 2.6 U
PCB-190	41411-64-7	pg/L	64	14000	-	< 4.55 U	-	< 6.27 U	-	< 3.47 U	-	< 3.79 U
PCB-191	74472-50-7	pg/L	64	14000	-	< 4.4 U	-	< 7.17 U	-	< 4.05 U	-	< 3.83 U
PCB-192	74472-51-8	pg/L	64	14000	-	< 3.92 U	-	< 6.37 U	-	< 3.6 U	-	< 3.41 U
PCB-194	35694-08-7	pg/L	64	14000	-	< 1.64 U	-	7.42 JN	-	2.42 JN	-	3.24 JN
PCB-195	52663-78-2	pg/L	64	14000	-	< 1.75 U	-	4.19 J	-	< 1.16 U	-	1.8 JN
PCB-196	42740-50-1	pg/L	64	14000	-	< 3 U	-	< 2.14 U	-	< 2.05 U	-	2.16 JN
PCB-197	33091-17-7	pg/L	64	14000	-	< 2.32 U	-	< 1.65 U	-	< 1.59 U	-	< 1.47 U
PCB-198/199	PCB-198/199	pg/L			-	3.86 JN	-	7.19 JN	-	5.91 JN	-	6.68 J
PCB-200	52663-73-7	pg/L	64	14000	-	< 2.29 U	-	< 1.63 U	-	< 1.56 U	-	< 1.45 U
PCB-201	40186-71-8	pg/L	64	14000	-	< 2.46 U	-	< 1.76 U	-	< 1.68 U	-	< 1.56 U
PCB-202	2136-99-4	pg/L	64	14000	-	< 1.97 U	-	3.53 J	-	< 1.35 U	-	< 1.25 U
PCB-203	52663-76-0	pg/L	64	14000	-	< 2.43 U	-	4.18 JN	-	< 1.66 U	-	1.99 JN
PCB-204	74472-52-9	pg/L	64	14000	-	< 2.16 U	-	< 1.54 U	-	< 1.48 U	-	< 1.37 U
PCB-205	74472-53-0	pg/L	64	14000	-	< 1.37 U	-	< 3.19 U	-	< 0.912 U	-	< 1.34 U
PCB-206	40186-72-9	pg/L	64	14000	-	< 19.6 UJ	-	14.1 J	-	9.51 J	-	12.2 J
PCB-207	52663-79-3	pg/L	64	14000	-	< 5.27 U	-	< 4.15 U	-	< 4.21 U	-	< 4.22 U
PCB-208	52663-77-1	pg/L	64	14000	-	4.59 JN	-	4.45 JN	-	3.22 JN	-	3.82 JN
PCB-209	2051-24-3	pg/L	64	14000	-	22	-	22.8	-	15.2 J	-	18.8
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	-	22	-	22.8	-	15.2	-	18.8
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	-	25.2	-	36.6	-	38.2	-	40.3
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	-	102	-	117	-	122	-	106
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	-	3.86	-	26.5	-	8.33	-	15.9
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	-	574	-	666	-	924	-	706
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	-	117	-	113	-	204	-	141
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	-	173	-	182	-	52.0	-	176
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	-	2.43	-	< 3.01 U	-	< 6.71 U	-	< 2.74 U
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	-	4.59	-	18.6	-	12.7	-	16.0
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	-	91.4	-	106	-	256	-	123
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	-	32.6	-	44.3	-	215	-	67.9

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0091-PLW	23B-0091-PLW	23B-0092-PLW	23B-0092-PLW	23B-0093-PLW	23B-0093-PLW	23B-0094-PLW	23B-0094-PLW
					Sample Name	23B-0091-PLW-AS-F	23B-0091-PLW-AS-T	23B-0092-PLW-AS-F	23B-0092-PLW-AS-T	23B-0093-PLW-AS-F	23B-0093-PLW-AS-T	23B-0094-PLW-AS-F	23B-0094-PLW-AS-T
					Sample Date	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N	N	N
					Depth Interval	3.05 - 3.05 ft	3.05 - 3.05 ft	4.25 - 4.25 ft	4.25 - 4.25 ft	2.15 - 2.15 ft	2.15 - 2.15 ft	2.1 - 2.1 ft	2.1 - 2.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL									
TAL Metals and Mercury													
Aluminum	7429-90-5	ug/L	2000	87		33 J	130	180 J	150	21 J	93	< 20 UJ	600
Antimony	7440-36-0	ug/L	0.78	190		< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U
Arsenic	7440-38-2	ug/L	0.018	150		0.24 J	0.20 J	0.18 J	0.32 J	0.28 J	0.33 J	0.21 J	0.54 J
Barium	7440-39-3	ug/L	380	220		29	30	28	29	27	29	29	31
Beryllium	7440-41-7	ug/L	0.0037	3.9		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Cadmium	7440-43-9	ug/L	0.18	0.16		< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ
Calcium	7440-70-2	ug/L		116000		14000	14000	13000	13000	12000	12000	14000	14000
Chromium, Total	7440-47-3	ug/L	100	44		1.1 J	1.7 J	0.55 J	1.0 J	0.54 J	0.73 J	0.89 J	1.5 J
Cobalt	7440-48-4	ug/L	0.6	19		0.17 J	0.13 J	0.11 J	0.12 J	0.14 J	0.19 J	0.12 J	0.29 J
Copper	7440-50-8	ug/L	80	5		< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.80 J	1.5 J	< 2.0 U	4.5
Iron	7439-89-6	ug/L	1400	1000		600	740	480	750	380	790	350	1000
Lead	7439-92-1	ug/L	15	0.54		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.5	< 1.0 U	3.2
Magnesium	7439-95-4	ug/L		82000		3200	3200	3200	3200	3000	2900	3400	3200
Manganese	7439-96-5	ug/L	43	93		84	78	75	77	57	73	84	89
Nickel	7440-02-0	ug/L	39	27		0.77 J-	0.28 J-	0.19 J-	0.22 J-	0.30 J-	0.33 J-	0.23 J-	0.54 J-
Potassium	7440-09-7	ug/L		53000		3700	3600	3600	3600	3600	3400	3800	3700
Selenium	7782-49-2	ug/L	10	5		< 5.0 U	< 5.0 U	< 5.0 U	1.3 J	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U
Silver	7440-22-4	ug/L	9.4			< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Sodium	7440-23-5	ug/L		680000		55000	53000	54000	53000	50000	48000	57000	54000
Thallium	7440-28-0	ug/L	0.02	6		< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U
Vanadium	7440-62-2	ug/L	8.6	27		0.23 J	0.26 J	0.24 J	0.25 J	0.27 J	0.44 J	< 5.0 U	0.36 J
Zinc	7440-66-6	ug/L	600	11.8		14	6.1 J+	48	5.3 J+	6.6 J	13 J	13	21
Mercury	7439-97-6	ug/L	0.57	0.77		< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U
Total Cyanide													
CYANIDE	57-12-5	ug/L	0.15	5.2		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U
Hexavalent Chromium													
Chromium, Hexavalent	18540-29-9	ug/L	0.035	11		< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	-
TCL VOCs													
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000			-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethane	75-34-3	ug/L	2.8	410		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,1-Dichloroethene	75-35-4	ug/L	7	130		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075			-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033			-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075			-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-Dichlorobenzene	95-50-1	ug/L	30	23		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
2-HEXANONE	591-78-6	ug/L	3.8	99		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
ACETONE	67-64-1	ug/L	1800	1700		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U
Benzene	71-43-2	ug/L	0.46	160		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3			-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOFORM	75-25-2	ug/L	3.3	230		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
BROMOMETHANE	74-83-9	ug/L	0.75	16		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON DISULFIDE	75-15-0	ug/L	81	15		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chlorobenzene	108-90-7	ug/L	7.8	25		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ
CHLOROETHANE	75-00-3	ug/L	830			-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U
Chloroform	67-66-3	ug/L	0.22	140		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U

Table 17
Surface Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

					Location	23B-0091-PLW	23B-0091-PLW	23B-0092-PLW	23B-0092-PLW	23B-0093-PLW	23B-0093-PLW	23B-0094-PLW	23B-0094-PLW
					Sample Name	23B-0091-PLW-AS-F	23B-0091-PLW-AS-T	23B-0092-PLW-AS-F	23B-0092-PLW-AS-T	23B-0093-PLW-AS-F	23B-0093-PLW-AS-T	23B-0094-PLW-AS-F	23B-0094-PLW-AS-T
					Sample Date	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N	N	N
					Depth Interval	3.05 - 3.05 ft	3.05 - 3.05 ft	4.25 - 4.25 ft	4.25 - 4.25 ft	2.15 - 2.15 ft	2.15 - 2.15 ft	2.1 - 2.1 ft	2.1 - 2.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL									
CHLOROMETHANE	74-87-3	ug/L	19		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Cyclohexane	110-82-7	ug/L	1300	158	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Dichlorodifluoromethane	75-71-8	ug/L	20		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Ethylbenzene	100-41-4	ug/L	1.5	61	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	
m,p-Xylene	179601-23-1	ug/L	19		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	
METHYL ACETATE	79-20-9	ug/L	2000		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Methylcyclohexane	108-87-2	ug/L	20	52	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Methylene Chloride	75-09-2	ug/L	5	1500	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	
Styrene	100-42-5	ug/L	100	32	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	
Toluene	108-88-3	ug/L	57	62	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	-	< 0.50 UJ	
Trichlorofluoromethane	75-69-4	ug/L	520		-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
Vinyl Chloride	75-01-4	ug/L	0.019	930	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	-	< 0.50 U	
TCL SVOCs													
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 R	-	< 5.0 UJ	
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 R	-	< 5.0 U	
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 R	-	< 5.0 U	
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	-	< 5.0 U	-	< 5.0 U	-	< 5.0 R	-	< 5.0 U	
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	-	< 5.0 U	-	< 5.0 U	-	< 5.0 R	-	< 5.0 U	
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 R	-	< 5.0 U	
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	-	< 5.0 U	-	< 5.0 U	-	< 5.0 R	-	< 5.0 U	
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	-	< 10 U	-	< 10 U	-	< 10 R	-	< 10 U	
2-NITROANILINE	88-74-4	ug/L	19	17	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ	
2-NITROPHENOL	88-75-5	ug/L	580	73	-	< 5.0 U	-	< 5.0 U	-	< 5.0 R	-	< 5.0 U	
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
3-NITROANILINE	99-09-2	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 R	-	< 5.0 U	
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	-	< 10 U	-	< 10 U	-	< 10 R	-	< 10 U	
4-Nitroaniline	100-01-6	ug/L	3.8		-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
4-NITROPHENOL	100-02-7	ug/L	580	58	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	-	< 10 UJ	
Acenaphthene	83-32-9	ug/L	53	15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
ACENAPHTHYLENE	208-96-8	ug/L	53	13	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Acetophenone	98-86-2	ug/L	190		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
ANTHRACENE	120-12-7	ug/L	180	0.02	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
ATRAZINE	1912-24-9	ug/L	0.3	0.03	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BENZALDEHYDE	100-52-7	ug/L	19	143	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	

Table 17
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					Location	23B-0091-PLW	23B-0091-PLW	23B-0092-PLW	23B-0092-PLW	23B-0093-PLW	23B-0093-PLW	23B-0094-PLW	23B-0094-PLW
					Sample Name	23B-0091-PLW-AS-F	23B-0091-PLW-AS-T	23B-0092-PLW-AS-F	23B-0092-PLW-AS-T	23B-0093-PLW-AS-F	23B-0093-PLW-AS-T	23B-0094-PLW-AS-F	23B-0094-PLW-AS-T
					Sample Date	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
					Sample Type	N	N	N	N	N	N	N	N
					Depth Interval	3.05 - 3.05 ft	3.05 - 3.05 ft	4.25 - 4.25 ft	4.25 - 4.25 ft	2.15 - 2.15 ft	2.15 - 2.15 ft	2.1 - 2.1 ft	2.1 - 2.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL									
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Caprolactam	105-60-2	ug/L	990		-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
CARBAZOLE	86-74-8	ug/L	29	4	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
CHRYSENE	218-01-9	ug/L	0.12	2	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Dibenzofuran	132-64-9	ug/L	0.79	4	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Diethyl Phthalate	84-66-2	ug/L	600	220	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
FLUORANTHENE	206-44-0	ug/L	20	0.8	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ	-	< 5.0 UJ	
FLUORENE	86-73-7	ug/L	29	19	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	-	< 5.0 U	-	< 5.0 U	-	< 5.0 R	-	< 5.0 U	
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	-	< 10 U	-	< 10 U	-	< 10 U	-	< 10 U	
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
ISOPHORONE	78-59-1	ug/L	34	920	-	< 5.0 U	-	< 5.0 U	-	< 5.0 R	-	< 5.0 U	
Naphthalene	91-20-3	ug/L	0.12	21	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
NITROBENZENE	98-95-3	ug/L	0.14	230	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	-	< 10 U	-	< 10 U	-	< 10 R	-	< 10 U	
PHENANTHRENE	85-01-8	ug/L	180	2.3	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
PHENOL	108-95-2	ug/L	580	160	-	< 10 U	-	< 10 U	-	< 10 UJ	-	< 10 U	
PYRENE	129-00-0	ug/L	12	4.6	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	
PFAS													
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSA	2991-50-6	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	-	2.5	-	2.7	-	3.0	-	2.9	
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	-	4.3 J-	-	4.5 J-	-	3.4 J-	-	4.5 J-	
Perfluorodecane Sulfonate	335-77-3	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	
Perfluoroheptane sulfonate	375-92-8	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	-	2.0	-	2.0	-	2.2	-	1.9	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	-	1.6 J	-	1.6 J	-	1.6 J	-	1.8 J	
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	-	3.8	-	4.0	-	4.0	-	4.1	
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	-	0.55 J	-	< 1.8 U	-	0.56 J	-	0.52 J	
Perfluorooctanesulfonamide	754-91-6	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	-	3.6	-	3.7	-	3.8	-	4.0	
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	-	5.0	-	4.7	-	4.6	-	4.8	
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			-	< 1.9 U	-	0.27 J	-	0.29 J	-	0.37 J	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	-	3.6	-	3.6	-	3.3	-	3.8	
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U	

Table 17
Surface Water Analytical Results
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				Location	23B-0091-PLW	23B-0091-PLW	23B-0092-PLW	23B-0092-PLW	23B-0093-PLW	23B-0093-PLW	23B-0094-PLW	23B-0094-PLW
				Sample Name	23B-0091-PLW-AS-F	23B-0091-PLW-AS-T	23B-0092-PLW-AS-F	23B-0092-PLW-AS-T	23B-0093-PLW-AS-F	23B-0093-PLW-AS-T	23B-0094-PLW-AS-F	23B-0094-PLW-AS-T
				Sample Date	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023	11/10/2023
				Sample Type	N	N	N	N	N	N	N	N
				Depth Interval	3.05 - 3.05 ft	3.05 - 3.05 ft	4.25 - 4.25 ft	4.25 - 4.25 ft	2.15 - 2.15 ft	2.15 - 2.15 ft	2.1 - 2.1 ft	2.1 - 2.1 ft
Analyte	CAS Number	Units	Human Health PAL	Ecological PAL								
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	-	< 1.9 U	-	< 1.8 U	-	< 1.8 U	-	< 1.9 U
Field Measurements												
DISSOLVED OXYGEN	DO	mg/L			-	11.12	-	11.57	-	10.46	-	11.25
Oxidation-Reduction Potential	ORP	mv			-	221	-	200.4	-	184.3	-	177.6
pH	PH	su			-	6.68	-	6.89	-	6.95	-	7.12
Specific Conductance	SC	us/cm			-	414.2	-	413.5	-	406	-	408.7
Temperature	TEMP	deg c			-	7.3	-	7.5	-	7.6	-	7.6
Turbidity	TURB	NTU			-	1.76	-	0.93	-	1.32	-	2.09

Table 17
Surface Water Analytical Results
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Notes:
(a) Totals for PCDD/DF and PCB homolog groups were calculated by summing the detected congeners in each group after data validation was completed; if no congeners in a homolog group were detected, the maximum reporting detection limit of any member congener in that group was used.
(b) Sum of detected congeners.
Analytes:
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxins/furans
PFAS - per- and polyfluoroalkyl substances
SVOCs - semi-volatile organic compounds
TAL - target analyte list
TCL - target compound list
VOCs - volatile organic compounds
Units:
deg C - degrees celcius
mg/L - milligram per liter
mv - millivolt
ng/L - nanogram per liter
NTU - nephelometric turbidity unit
pg/L - picogram per liter
su - standard units
ug/L - microgram per liter
us/cm - microsiemens per centimeter
Project Action Limits (PALs):
The human health PALs are the lower of the Massachusetts surface water quality standards, human health criteria for drinking water plus fish and shellfish consumption (MassDEP, 2022), Massachusetts maximum contaminant levels (MassDEP, 2020), National Recommended Water Quality Criteria for human health for consumption of water and organisms (USEPA, 2024d), USEPA maximum contaminant levels (USEPA, 2024b), and USEPA regional screening levels for tap water based on a target hazard quotient of 0.1 and a target risk level of 1E-06 (USEPA, 2024a).
The ecological PALs are the lowest of the Massachusetts surface water quality standards, aquatic life criterion continuous concentration values for freshwater (MassDEP, 2022), National Recommended Water Quality Criteria aquatic life criterion continuous concentration values for freshwater (USEPA, 2024c), and USEPA Region 4 freshwater chronic screening values (USEPA, 2018).
Yellow highlighted values represent detection of the compound at a concentration above the human health PAL; underlined values represent detection of the compound at a concentration above the ecological PAL.
Comparison of the data to the PALs is for informational purposes only and is not an indication of risk.
Qualifiers:
B - Indicates the analyte is detected in the associated blank as well as in the sample.
E - Indicates compounds whose concentrations exceed the calibration range of the instrument.
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J- -The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a potential low bias.
J+ - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a potential high bias.
JN - The analyte was tentatively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U - The analyte was analyzed for but was not detected above the reported sample quantitation limit.
R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
Sample Type:
N - normal
FD - field duplicate

Table 18
Surface Water Analytical Results Statistics - Phase 1 Reach and Reference Areas Combined
Phase 1 Data Evaluation Summary Memorandum
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCDD/F													
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	114	51	1.41	62.7	5.18	2	31	23B-0074-PLW	0.45 - 0.45 ft
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	114	1	3.84	3.84	3.84	0	1	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	114	6	1.35	6.45	2.71	6	6	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	114	2	4.84	10.6	7.72	2	2	23B-0074-PLW	0.45 - 0.45 ft
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	114	1	4.23	4.23	4.23	1	1	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	114	2	4.52	5.32	4.92	2	2	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	114	2	0.812	3.92	2.37	1	2	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	114	2	1.67	5.94	3.81	2	2	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	114	1	5.24	5.24	5.24	1	1	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	114	1	4.63	4.63	4.63	1	1	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	114	40	0.794	84.3	5.39	2	40	23B-0074-PLW	0.45 - 0.45 ft
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	114	2	2.79	3.78	3.29	2	2	23B-0088-PLW	1.4 - 1.4 ft
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	114	2	3.5	5.42	4.46	2	2	23B-0088-PLW	1.4 - 1.4 ft
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	114	0				0	0		
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	114	0				0	0		
OCDD	3268-87-9	pg/L	400	31	114	98	4.11	403	18.7	1	7	23B-0074-PLW	0.45 - 0.45 ft
OCDF	39001-02-0	pg/L	400	31	114	16	1.88	96	10.2	0	1	23B-0074-PLW	0.45 - 0.45 ft
Total HpCDD (a)	RA_Total_HpCDD	pg/L			114	59	1.41	62.7	5.18	0	0	23B-0074-PLW	0.45 - 0.45 ft
Total HpCDF (a)	RA_Total_HpCDF	pg/L			114	44	0.794	84.3	5.49	0	0	23B-0074-PLW	0.45 - 0.45 ft
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		114	7	2.05	14.6	4.2	1	0	23B-0088-PLW	1.4 - 1.4 ft
Total HxCDF (a)	RA_Total_HxCDF	pg/L			114	4	1.67	19.9	13.2	0	0	23B-0088-PLW	1.4 - 1.4 ft
Total PeCDD (a)	RA_Total_PeCDD	pg/L			114	1	5.24	5.24	5.24	0	0	23B-0088-PLW	1.4 - 1.4 ft
Total PeCDF (a)	RA_Total_PeCDF	pg/L			114	2	3.5	10.1	6.8	0	0	23B-0088-PLW	1.4 - 1.4 ft
Total TCDD (a)	RA_Total_TCDD	pg/L			114	0				0	0		
Total TCDF (a)	RA_Total_TCDF	pg/L			114	0				0	0		
TAL Metals and Mercury													
Aluminum	7429-90-5	ug/L	2000	87	114	114	34	600	84	0	20	23B-0094-PLW	2.1 - 2.1 ft
Aluminum (Dissolved)	7429-90-5	ug/L	2000	87	114	110	20	180	39	0	3	23B-0092-PLW	4.25 - 4.25 ft
Antimony	7440-36-0	ug/L	0.78	190	114	35	0.16	0.31	0.18	0	0	23B-0055-PLW	0.55 - 0.55 ft
Antimony (Dissolved)	7440-36-0	ug/L	0.78	190	114	27	0.16	0.23	0.17	0	0	23B-0007-PLW	1.85 - 1.85 ft
Arsenic	7440-38-2	ug/L	0.018	150	114	114	0.2	0.89	0.48	114	0	23B-0064-PLW	0.4 - 0.4 ft
Arsenic (Dissolved)	7440-38-2	ug/L	0.018	150	114	96	0.18	0.67	0.41	96	0	23B-0021-PLW	1.5 - 1.5 ft
Barium	7440-39-3	ug/L	380	220	114	114	28	52	38	0	0	23B-0064-PLW	0.4 - 0.4 ft
Barium (Dissolved)	7440-39-3	ug/L	380	220	114	114	27	42	37	0	0	23B-0011-PLW 23B-0014-PLW 23B-0028-PLW 23B-0037-PLW 23B-0037-PLW 23B-0053-PLW	1.5 - 1.5 ft 1 - 1 ft 2.6 - 2.6 ft 1 - 1 ft 5.3 - 5.3 ft 0.5 - 0.5 ft
Beryllium	7440-41-7	ug/L	0.0037	3.9	114	0				0	0		
Beryllium (Dissolved)	7440-41-7	ug/L	0.0037	3.9	114	1	0.09	0.09	0.09	1	0	23B-0007-PLW	1.85 - 1.85 ft
Cadmium	7440-43-9	ug/L	0.18	0.16	114	0				0	0		
Cadmium (Dissolved)	7440-43-9	ug/L	0.18	0.16	114	0				0	0		
Calcium	7440-70-2	ug/L		116000	114	114	12000	18000	15000	0	0	23B-0013-PLW 23B-0014-PLW 23B-0032-PLW 23B-0053-PLW 23B-0054-PLW 23B-0056-PLW	4.1 - 4.1 ft 1 - 1 ft 5.1 - 5.1 ft 0.5 - 0.5 ft 1.1 - 1.1 ft 1.55 - 1.55 ft

Table 18
Surface Water Analytical Results Statistics - Phase 1 Reach and Reference Areas Combined
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Calcium (Dissolved)	7440-70-2	ug/L		116000	114	114	12000	17000	15000	0	0	23B-0016-PLW	1.8 - 1.8 ft
												23B-0018-PLW	1.15 - 1.15 ft
												23B-0020-PLW	2.45 - 2.45 ft
												23B-0028-PLW	2.6 - 2.6 ft
												23B-0032-PLW	1 - 1 ft
												23B-0036-PLW	5.1 - 5.1 ft
												23B-0037-PLW	5.3 - 5.3 ft
												23B-0038-PLW	4.6 - 4.6 ft
												23B-0053-PLW	0.5 - 0.5 ft
												23B-0057-PLW	0.9 - 0.9 ft
												23B-0058-B1W	2.2 - 2.2 ft
												23B-0059-PLW	2.7 - 2.7 ft
												23B-0066-PLW	1 - 1 ft
												23B-0068-PLW	1 - 1 ft
												23B-0069-PLW	1 - 1 ft
												23B-0070-PLW	1.15 - 1.15 ft
Chromium, Total	7440-47-3	ug/L	100	44	114	39	0.62	38	2.4	0	0	23B-0068-PLW	4.7 - 4.7 ft
Chromium, Total (Dissolved)	7440-47-3	ug/L	100	44	114	54	0.53	460	10	1	1	23B-0065-PLW	2.75 - 2.75 ft
Cobalt	7440-48-4	ug/L	0.6	19	114	75	0.12	0.92	0.26	3	0	23B-0022-PLW	2 - 2 ft
Cobalt (Dissolved)	7440-48-4	ug/L	0.6	19	114	105	0.11	5.8	0.26	2	0	23B-0065-PLW	2.75 - 2.75 ft
Copper	7440-50-8	ug/L	80	5	114	107	0.87	25	2.3	0	3	23B-0035-PLW	2.9 - 2.9 ft
Copper (Dissolved)	7440-50-8	ug/L	80	5	114	102	0.8	12	1.6	0	1	23B-0065-PLW	2.75 - 2.75 ft
Iron	7439-89-6	ug/L	1400	1000	114	114	740	3000	1300	39	78	23B-0064-PLW	0.4 - 0.4 ft
Iron (Dissolved)	7439-89-6	ug/L	1400	1000	114	114	350	2800	750	1	11	23B-0065-PLW	2.75 - 2.75 ft
Lead	7439-92-1	ug/L	15	0.54	114	108	1	7.3	1.7	0	108	23B-0064-PLW	0.4 - 0.4 ft
Lead (Dissolved)	7439-92-1	ug/L	15	0.54	114	33	0.49	1.4	0.9	0	29	23B-0028-PLW	2.6 - 2.6 ft
Magnesium	7439-95-4	ug/L		82000	114	114	2900	4600	3900	0	0	23B-0013-PLW	4.1 - 4.1 ft
												23B-0053-PLW	0.5 - 0.5 ft
Magnesium (Dissolved)	7439-95-4	ug/L		82000	114	114	3000	4500	3800	0	0	23B-0057-PLW	0.9 - 0.9 ft
Manganese	7439-96-5	ug/L	43	93	114	114	73	420	140	114	102	23B-0022-PLW	2 - 2 ft
Manganese (Dissolved)	7439-96-5	ug/L	43	93	114	114	57	290	120	114	81	23B-0064-PLW	0.4 - 0.4 ft
Mercury	7439-97-6	ug/L	0.57	0.77	114	1	0.091	0.091	0.091	0	0	23B-0064-PLW	0.4 - 0.4 ft
Mercury (Dissolved)	7439-97-6	ug/L	0.57	0.77	114	0				0	0		
Nickel	7440-02-0	ug/L	39	27	114	75	0.19	16	1.4	0	0	23B-0068-PLW	4.7 - 4.7 ft
Nickel (Dissolved)	7440-02-0	ug/L	39	27	114	74	0.14	310	5.3	1	1	23B-0065-PLW	2.75 - 2.75 ft
Potassium	7440-09-7	ug/L		53000	114	114	2400	3800	3100	0	0	23B-0074-PLW	0.45 - 0.45 ft
												23B-0078-PLW	2.3 - 2.3 ft
Potassium (Dissolved)	7440-09-7	ug/L		53000	114	114	2200	3800	2900	0	0	23B-0074-PLW	0.45 - 0.45 ft
												23B-0075-PLW	0.6 - 0.6 ft
												23B-0076-PLW	2.1 - 2.1 ft
												23B-0077-PLW	1.3 - 1.3 ft
												23B-0077-PLW	1.3 - 1.3 ft
												23B-0094-PLW	2.1 - 2.1 ft
Selenium	7782-49-2	ug/L	10	5	114	4	1.2	1.3	1.3	0	0	23B-0072-PLW	1.2 - 1.2 ft
												23B-0092-PLW	4.25 - 4.25 ft
Selenium (Dissolved)	7782-49-2	ug/L	10	5	114	2	1.1	1.3	1.2	0	0	23B-0072-PLW	1.2 - 1.2 ft
Silver	7440-22-4	ug/L	9.4		114	0				0	0		
Silver (Dissolved)	7440-22-4	ug/L	9.4		114	1	0.18	0.18	0.18	0	0	23B-0019-PLW	2.85 - 2.85 ft
Sodium	7440-23-5	ug/L		680000	114	114	48000	100000	66000	0	0	23B-0037-PLW	1 - 1 ft
Sodium (Dissolved)	7440-23-5	ug/L		680000	114	114	50000	76000	63000	0	0	23B-0057-PLW	0.9 - 0.9 ft
Thallium	7440-28-0	ug/L	0.02	6	114	0				0	0		
Thallium (Dissolved)	7440-28-0	ug/L	0.02	6	114	0				0	0		
Vanadium	7440-62-2	ug/L	8.6	27	114	83	0.25	1.8	0.77	0	0	23B-0064-PLW	0.4 - 0.4 ft
Vanadium (Dissolved)	7440-62-2	ug/L	8.6	27	114	113	0.2	2.6	0.55	0	0	23B-0065-PLW	2.75 - 2.75 ft
Zinc	7440-66-6	ug/L	600	11.8	114	111	5.1	69	9.7	0	16	23B-0071-PLW	1.35 - 1.35 ft
Zinc (Dissolved)	7440-66-6	ug/L	600	11.8	114	93	5.1	48	8.3	0	9	23B-0092-PLW	4.25 - 4.25 ft
Hexavalent Chromium													
Chromium, Hexavalent (Dissolved)	18540-29-9	ug/L	0.035	11	114	0				0	0		

Table 18
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Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Total Cyanide													
CYANIDE	57-12-5	ug/L	0.15	5.2	114	22	2.8	15	5.3	22	9	23B-0031-PLW	4.7 - 4.7 ft
PCB Congeners													
PCB-001	2051-60-7	pg/L	64	14000	114	109	2.43	394	39.4	18	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-002	2051-61-8	pg/L	64	14000	114	14	2.21	7.38	4.49	0	0	23B-0032-PLW	5.1 - 5.1 ft
PCB-003	2051-62-9	pg/L	64	14000	114	85	4.33	111	18.3	5	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-004	13029-08-8	pg/L	64	14000	114	114	21.8	3790	1100	106	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-005	16605-91-7	pg/L	64	14000	114	1	4.67	4.67	4.67	0	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-006	25569-80-6	pg/L	64	14000	114	93	1.94	98.2	17.4	4	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-007	33284-50-3	pg/L	64	14000	114	8	2.98	12.3	6.31	0	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-008	34883-43-7	pg/L	64	14000	114	108	7.89	516	69.7	35	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-009	34883-39-1	pg/L	64	14000	114	16	2.03	17.9	5.37	0	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-010	33146-45-1	pg/L	64	14000	114	108	9.35	2140	298	73	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-011	2050-67-1	pg/L	64	14000	114	98	12.8	953	234	81	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-012/013	PCB-12/13	pg/L			114	71	6.58	78	17.5	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-014	34883-41-5	pg/L	64	14000	114	0				0	0		
PCB-015	2050-68-2	pg/L	64	14000	114	113	4.5	2420	296	84	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-016	38444-78-9	pg/L	64	14000	114	95	6.75	416	55.1	24	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-017	37680-66-3	pg/L	64	14000	114	111	12.7	2070	299	102	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-018/030	PCB-18/30	pg/L			114	114	9.99	1320	204	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-019	38444-73-4	pg/L	64	14000	114	111	9.09	3060	605	103	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-020/028	PCB-20/28	pg/L			114	113	12.8	2100	222	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-021/033	PCB-21/33	pg/L			114	73	7.37	422	50.3	0	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-022	38444-85-8	pg/L	64	14000	114	55	7.41	290	39.2	5	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-023	55720-44-0	pg/L	64	14000	114	0				0	0		
PCB-024	55702-45-9	pg/L	64	14000	114	10	3.17	70.6	20.3	1	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-025	55712-37-3	pg/L	64	14000	114	107	6.13	440	73	52	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-026/029	PCB-26/29	pg/L			114	111	3.84	885	157	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-027	38444-76-7	pg/L	64	14000	114	108	12.4	1520	294	102	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-031	16606-02-3	pg/L	64	14000	114	112	7.7	1300	168	90	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-032	38444-77-8	pg/L	64	14000	114	112	8.9	1240	270	94	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-034	37680-68-5	pg/L	64	14000	114	1	15.3	15.3	15.3	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-035	37680-69-6	pg/L	64	14000	114	2	5.71	15.7	10.7	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-036	38444-87-0	pg/L	64	14000	114	0				0	0		
PCB-037	38444-90-5	pg/L	64	14000	114	96	7.4	425	39.9	8	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-038	53555-66-1	pg/L	64	14000	114	0				0	0		
PCB-039	38444-88-1	pg/L	64	14000	114	1	10.1	10.1	10.1	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-040/071	PCB-40/71	pg/L			114	114	5.69	715	112	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-041	52663-59-9	pg/L	64	14000	114	64	2.46	107	12.8	2	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-042	36559-22-5	pg/L	64	14000	114	112	3.91	565	76.8	54	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-043	70362-46-8	pg/L	64	14000	114	101	4.81	74.3	14.5	2	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-044/047/065	PCB-44/47/65	pg/L			114	114	19.5	2290	393	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-045	70362-45-7	pg/L	64	14000	114	110	2.12	321	41.8	10	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-046	41464-47-5	pg/L	64	14000	114	102	15.1	172	36.2	8	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-048	70362-47-9	pg/L	64	14000	114	103	3.12	184	25	4	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-049/069	PCB-49/69	pg/L			114	114	10.5	1450	261	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-050/053	PCB-50/53	pg/L			114	113	5.07	908	217	0	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-051	68194-04-7	pg/L	64	14000	114	110	2.54	258	48.9	27	0	23B-0050-PLW	1 - 1 ft
PCB-052	35693-99-3	pg/L	64	14000	114	114	17.6	1760	381	102	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-054	15968-05-5	pg/L	64	14000	114	101	9.36	86.9	19.9	1	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-055	74338-24-2	pg/L	64	14000	114	4	0.304	24.2	14.2	0	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-056	41464-43-1	pg/L	64	14000	114	104	5.23	398	33.3	6	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-057	70424-67-8	pg/L	64	14000	114	13	4.25	18.1	8.61	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-058	41464-49-7	pg/L	64	14000	114	0				0	0		
PCB-059/062/075	PCB-59/62/75	pg/L			114	108	2.86	217	32.4	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-060	33025-41-1	pg/L	64	14000	114	71	3.61	229	19.8	3	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			114	114	14.3	1300	160	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-063	74472-34-7	pg/L	64	14000	114	73	3.78	99.3	15.6	2	0	23B-0064-PLW	0.4 - 0.4 ft

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Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-064	52663-58-8	pg/L	64	14000	114	113	4.92	739	94.1	70	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-066	32598-10-0	pg/L	64	14000	114	114	7.05	998	107	85	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-067	73575-53-8	pg/L	64	14000	114	24	2.41	38.5	8.39	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-068	73575-52-7	pg/L	64	14000	114	63	4.14	33.9	9.65	0	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-072	41464-42-0	pg/L	64	14000	114	77	4.38	37.9	9.78	0	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-073	74338-23-1	pg/L	64	14000	114	102	4.05	42.5	10.5	0	0	23B-0050-PLW	1 - 1 ft
PCB-077	32598-13-3	pg/L	64	14000	114	64	4.26	129	15.4	2	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-078	70362-49-1	pg/L	64	14000	114	0				0	0		
PCB-079	41464-48-6	pg/L	64	14000	114	1	6.47	6.47	6.47	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-080	33284-52-5	pg/L	64	14000	114	0				0	0		
PCB-081	70362-50-4	pg/L	64	14000	114	0				0	0		
PCB-082	52663-62-4	pg/L	64	14000	114	79	9.33	116	19.4	3	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-083	60145-20-2	pg/L	64	14000	114	82	6.08	59.6	15.9	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-084	52663-60-2	pg/L	64	14000	114	110	5.68	243	66.5	43	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-085/116	PCB-85/116	pg/L			114	107	4.96	176	28.8	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-086/087/097/109/119/125	PCB-86+	pg/L			114	114	12.2	712	113	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-088	55215-17-3	pg/L	64	14000	114	1	1.88	1.88	1.88	0	0	23B-0069-PLW	1 - 1 ft
PCB-089	73575-57-2	pg/L	64	14000	114	2	11.9	15.3	13.6	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-090/101/113	PCB-90/101/113	pg/L			114	114	16.7	1120	188	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-091	68194-05-8	pg/L	64	14000	114	105	6.61	188	48.7	12	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-092	52663-61-3	pg/L	64	14000	114	109	5.53	222	60.5	34	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-093/100	PCB-93/100	pg/L			114	16	3.93	34.3	16.1	0	0	23B-0050-PLW	1 - 1 ft
PCB-094	73575-55-0	pg/L	64	14000	114	12	5.12	22.1	11.5	0	0	23B-0050-PLW	1 - 1 ft
PCB-095	38379-99-6	pg/L	64	14000	114	114	11.9	744	187	102	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-096	73575-54-9	pg/L	64	14000	114	38	1.74	17.2	5.15	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-098	60233-25-2	pg/L	64	14000	114	2	6.92	7.37	7.15	0	0	23B-0050-PLW	1 - 1 ft
PCB-099	38380-01-7	pg/L	64	14000	114	114	4.39	467	76	69	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-102	68194-06-9	pg/L	64	14000	114	52	4.75	51	13.6	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-103	60145-21-3	pg/L	64	14000	114	14	4.32	17.9	9.6	0	0	23B-0050-PLW	1 - 1 ft
PCB-104	56558-16-8	pg/L	64	14000	114	0				0	0		
PCB-105	32598-14-4	pg/L	64	14000	114	114	3.75	424	33.5	6	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-106	70424-69-0	pg/L	64	14000	114	0				0	0		
PCB-107	70424-68-9	pg/L	64	14000	114	72	5.08	69.7	11.6	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-108/124	PCB-108/124	pg/L			114	31	4.26	43	9.37	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-110	38380-03-9	pg/L	64	14000	114	114	9.89	1220	205	103	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-111	39635-32-0	pg/L	64	14000	114	0				0	0		
PCB-112	74472-36-9	pg/L	64	14000	114	3	2.77	5.56	4.25	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-114	74472-37-0	pg/L	64	14000	114	2	13	22.8	17.9	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-115	74472-38-1	pg/L	64	14000	114	23	2.59	20.8	6.25	0	0	23B-0055-PLW	0.55 - 0.55 ft
PCB-117	68194-11-6	pg/L	64	14000	114	71	3.2	45.9	11	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-118	31508-00-6	pg/L	64	14000	114	114	8.76	956	103	94	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-120	68194-12-7	pg/L	64	14000	114	0				0	0		
PCB-121	56558-18-0	pg/L	64	14000	114	0				0	0		
PCB-122	76842-07-4	pg/L	64	14000	114	2	8.11	17.3	12.7	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-123	65510-44-3	pg/L	64	14000	114	6	4.92	19.6	10.3	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-126	57465-28-8	pg/L	1.2	14000	114	0				0	0		
PCB-127	39635-33-1	pg/L	64	14000	114	0				0	0		
PCB-128/166	PCB-128/166	pg/L			114	110	3.26	293	25.5	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-129/138/163	PCB-129/138/163	pg/L			114	114	14.1	1740	165	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-130	52663-66-8	pg/L	64	14000	114	77	3.23	117	13.3	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-131	61798-70-7	pg/L	64	14000	114	4	2.63	18	8.04	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-132	38380-05-1	pg/L	64	14000	114	112	6.42	525	51.3	22	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-133	35694-04-3	pg/L	64	14000	114	8	2.46	18.3	7.06	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-134	52704-70-8	pg/L	64	14000	114	69	5.02	94	13	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-135/151	PCB-135/151	pg/L			114	113	5.31	387	41.6	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-136	38411-22-2	pg/L	64	14000	114	109	2.81	159	19.4	2	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-137	35694-06-5	pg/L	64	14000	114	74	4.02	96.5	10.7	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-139/140	PCB-139/140	pg/L			114	16	3.23	32.5	7.32	0	0	23B-0074-PLW	0.45 - 0.45 ft

Table 18
Surface Water Analytical Results Statistics - Phase 1 Reach and Reference Areas Combined
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-141	52712-04-6	pg/L	64	14000	114	113	3.87	248	21	2	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-142	41411-61-4	pg/L	64	14000	114	0				0	0		
PCB-143	68194-15-0	pg/L	64	14000	114	1	9.32	9.32	9.32	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-144	68194-14-9	pg/L	64	14000	114	45	2.72	60.1	7.83	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-145	74472-40-5	pg/L	64	14000	114	0				0	0		
PCB-146	51908-16-8	pg/L	64	14000	114	110	2.21	182	18	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-147/149	PCB-147/149	pg/L			114	114	14	969	102	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-148	74472-41-6	pg/L	64	14000	114	0				0	0		
PCB-150	68194-08-1	pg/L	64	14000	114	0				0	0		
PCB-152	68194-09-2	pg/L	64	14000	114	0				0	0		
PCB-153/168	PCB-153/168	pg/L			114	114	18	1200	111	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-154	60145-22-4	pg/L	64	14000	114	18	1.86	18	5.31	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-155	33979-03-2	pg/L	64	14000	114	0				0	0		
PCB-156/157	PCB-156/157	pg/L			114	106	3.16	187	15.2	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-158	74472-42-7	pg/L	64	14000	114	104	2.9	167	15	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-159	39635-35-3	pg/L	64	14000	114	1	10.2	10.2	10.2	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-160	41411-62-5	pg/L	64	14000	114	3	1.37	3.68	2.24	0	0	23B-0014-PLW	1 - 1 ft
PCB-161	74472-43-8	pg/L	64	14000	114	0				0	0		
PCB-162	39635-34-2	pg/L	64	14000	114	1	44.1	44.1	44.1	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-164	74472-45-0	pg/L	64	14000	114	91	3.27	101	9.95	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-165	74472-46-1	pg/L	64	14000	114	0				0	0		
PCB-167	52663-72-6	pg/L	64	14000	114	66	2.86	66.7	8.01	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-169	32774-16-6	pg/L	4	14000	114	0				0	0		
PCB-170	35065-30-6	pg/L	64	14000	114	87	7.12	375	24.4	4	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-171/173	PCB-171/173	pg/L			114	19	6.6	105	16.3	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-172	52663-74-8	pg/L	64	14000	114	4	10	60.6	23.9	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-174	38411-25-5	pg/L	64	14000	114	89	5.01	304	19	2	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-175	40186-70-7	pg/L	64	14000	114	1	12.9	12.9	12.9	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-176	52663-65-7	pg/L	64	14000	114	10	2.93	41.6	9.25	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-177	52663-70-4	pg/L	64	14000	114	57	3.48	170	13.9	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-178	52663-67-9	pg/L	64	14000	114	18	2.78	78.1	12	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-179	52663-64-6	pg/L	64	14000	114	76	2.64	123	9.01	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-180/193	PCB-180/193	pg/L			114	114	13	720	42.3	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-181	74472-47-2	pg/L	64	14000	114	0				0	0		
PCB-182	60145-23-5	pg/L	64	14000	114	0				0	0		
PCB-183	52663-69-1	pg/L	64	14000	114	63	4.72	194	14.7	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-184	74472-48-3	pg/L	64	14000	114	0				0	0		
PCB-185	52712-05-7	pg/L	64	14000	114	4	1.14	39	15.2	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-186	74472-49-4	pg/L	64	14000	114	0				0	0		
PCB-187	52663-68-0	pg/L	64	14000	114	108	4.62	390	21	3	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-188	74487-85-7	pg/L	64	14000	114	0				0	0		
PCB-189	39635-31-9	pg/L	64	14000	114	2	2.31	16.3	9.31	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-190	41411-64-7	pg/L	64	14000	114	8	3.1	78.8	17.6	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-191	74472-50-7	pg/L	64	14000	114	1	10.6	10.6	10.6	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-192	74472-51-8	pg/L	64	14000	114	0				0	0		
PCB-194	35694-08-7	pg/L	64	14000	114	91	2.42	192	9.8	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-195	52663-78-2	pg/L	64	14000	114	25	1.8	67.7	7.36	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-196	42740-50-1	pg/L	64	14000	114	46	1.89	110	7.5	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-197	33091-17-7	pg/L	64	14000	114	1	7.15	7.15	7.15	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-198/199	PCB-198/199	pg/L			114	107	2.59	244	10.4	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-200	52663-73-7	pg/L	64	14000	114	6	0.815	23.4	6.37	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-201	40186-71-8	pg/L	64	14000	114	10	1.76	30.6	6.11	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-202	2136-99-4	pg/L	64	14000	114	35	0.758	43	3.88	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-203	52663-76-0	pg/L	64	14000	114	79	1.99	137	7.22	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-204	74472-52-9	pg/L	64	14000	114	0				0	0		
PCB-205	74472-53-0	pg/L	64	14000	114	1	8.9	8.9	8.9	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-206	40186-72-9	pg/L	64	14000	114	19	5.63	445	38	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-207	52663-79-3	pg/L	64	14000	114	1	37.1	37.1	37.1	0	0	23B-0074-PLW	0.45 - 0.45 ft

Table 18
Surface Water Analytical Results Statistics - Phase 1 Reach and Reference Areas Combined
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-208	52663-77-1	pg/L	64	14000	114	15	3.22	170	17.4	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-209	2051-24-3	pg/L	64	14000	114	83	3.28	591	17.3	1	0	23B-0074-PLW	0.45 - 0.45 ft
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	114	83	3.28	591	17.3	1	0	23B-0074-PLW	0.45 - 0.45 ft
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	114	114	13.6	2720	125	79	0	23B-0074-PLW	0.45 - 0.45 ft
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	114	114	46.5	6740	620	113	0	23B-0074-PLW	0.45 - 0.45 ft
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	114	109	3.86	864	30.8	4	0	23B-0074-PLW	0.45 - 0.45 ft
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	114	114	493	40400	8430	114	8	23B-0064-PLW	0.4 - 0.4 ft
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	114	114	67.6	6850	1160	114	0	23B-0074-PLW	0.45 - 0.45 ft
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	114	114	33.6	7490	1970	112	0	23B-0062-PLW	0.5 - 0.5 ft
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	114	109	2.43	505	54.3	22	0	23B-0067-PLW	1.1 - 1.1 ft
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	114	23	4.31	652	44.4	1	0	23B-0074-PLW	0.45 - 0.45 ft
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	114	114	76.4	13000	2100	114	0	23B-0064-PLW	0.4 - 0.4 ft
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	114	114	27.4	13500	2370	111	0	23B-0064-PLW	0.4 - 0.4 ft
TCL Pesticides													
ALDRIN	309-00-2	ug/L	0.00000077	0.04	114	0				0	0		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	114	0				0	0		
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	114	0				0	0		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		114	0				0	0		
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	114	1	0.0061	0.0061	0.0061	0	0	23B-0036-PLW	1 - 1 ft
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		114	0				0	0		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		114	0				0	0		
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	114	0				0	0		
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	114	0				0	0		
ENDRIN	72-20-8	ug/L	0.03	0.036	114	0				0	0		
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		114	0				0	0		
ENDRIN KETONE	53494-70-5	ug/L	0.23		114	0				0	0		
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	114	0				0	0		
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	114	0				0	0		
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	114	0				0	0		
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	114	1	0.017	0.017	0.017	0	0	23B-0027-PLW	2 - 2 ft
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	114	0				0	0		
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	114	0				0	0		
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	114	0				0	0		
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	114	0				0	0		
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		114	0				0	0		
PFAS													
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			114	0				0	0		
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			114	0				0	0		
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			114	6	0.59	14	3.5	0	0	23B-0081-PLW	2.9 - 2.9 ft
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			114	0				0	0		
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	ng/L			114	0				0	0		
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	114	114	2.1	3.7	2.8	0	0	23B-0070-PLW	1.15 - 1.15 ft
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	114	114	3	22	4.9	0	0	23B-0058-B1W	2.2 - 2.2 ft
Perfluorodecane Sulfonate	335-77-3	ng/L			114	0				0	0		
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	114	79	0.26	0.42	0.32	0	0	23B-0085-PLW	1.8 - 1.8 ft
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	114	0				0	0		
Perfluoroheptane sulfonate	375-92-8	ng/L			114	0				0	0		
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	114	114	1.5	2.8	2.1	0	0	23B-0086-PLW 23B-0089-PLW	1.2 - 1.2 ft 2.5 - 2.5 ft
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	114	114	1.6	3.4	2.3	0	0	23B-0070-PLW	1.15 - 1.15 ft
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	114	114	2.9	5.3	3.8	0	0	23B-0089-PLW	2.5 - 2.5 ft
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			114	0				0	0		
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	114	113	0.49	1.2	0.78	0	0	23B-0070-PLW	1.15 - 1.15 ft
Perfluorooctanesulfonamide	754-91-6	ng/L			114	15	0.3	0.55	0.37	0	0	23B-0075-PLW	0.6 - 0.6 ft
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	114	114	3.3	7.2	5.2	99	0	23B-0050-PLW	1 - 1 ft
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	114	114	4.2	18	5.5	16	0	23B-0069-PLW	1 - 1 ft
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			114	99	0.24	0.57	0.37	0	0	23B-0070-PLW	1.15 - 1.15 ft

Table 18
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	114	114	3	5.9	4.2	0	0	23B-0084-PLW 23B-0085-PLW	1.1 - 1.1 ft 1.8 - 1.8 ft
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		114	1	0.37	0.37	0.37	0	0	23B-0081-PLW	2.9 - 2.9 ft
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			114	0				0	0		
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	114	0				0	0		
TCL SVOCs													
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	114	0				0	0		
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	114	0				0	0		
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	114	0				0	0		
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	114	0				0	0		
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	114	0				0	0		
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	114	0				0	0		
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	114	0				0	0		
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	114	0				0	0		
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	114	0				0	0		
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	114	0				0	0		
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	114	0				0	0		
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		114	0				0	0		
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	114	0				0	0		
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	114	0				0	0		
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	114	0				0	0		
2-NITROANILINE	88-74-4	ug/L	19	17	114	0				0	0		
2-NITROPHENOL	88-75-5	ug/L	580	73	114	0				0	0		
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	114	0				0	0		
3-NITROANILINE	99-09-2	ug/L	3.8		114	0				0	0		
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		114	0				0	0		
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	114	0				0	0		
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	114	0				0	0		
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	114	0				0	0		
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			114	0				0	0		
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	114	0				0	0		
4-Nitroaniline	100-01-6	ug/L	3.8		114	0				0	0		
4-NITROPHENOL	100-02-7	ug/L	580	58	114	0				0	0		
Acenaphthene	83-32-9	ug/L	53	15	114	0				0	0		
ACENAPHTHYLENE	208-96-8	ug/L	53	13	114	0				0	0		
Acetophenone	98-86-2	ug/L	190		114	0				0	0		
ANTHRACENE	120-12-7	ug/L	180	0.02	114	0				0	0		
ATRAZINE	1912-24-9	ug/L	0.3	0.03	114	0				0	0		
BENZALDEHYDE	100-52-7	ug/L	19	143	114	0				0	0		
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	114	0				0	0		
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	114	0				0	0		
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	114	0				0	0		
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	114	0				0	0		
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	114	0				0	0		
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	114	0				0	0		
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	114	0				0	0		
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		114	0				0	0		
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		114	0				0	0		
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		114	0				0	0		
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	114	0				0	0		
Caprolactam	105-60-2	ug/L	990		114	0				0	0		
CARBAZOLE	86-74-8	ug/L	29	4	114	0				0	0		
CHRYSENE	218-01-9	ug/L	0.12	2	114	0				0	0		
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	114	0				0	0		
Dibenzofuran	132-64-9	ug/L	0.79	4	114	0				0	0		
Diethyl Phthalate	84-66-2	ug/L	600	220	114	0				0	0		
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	114	0				0	0		
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	114	0				0	0		

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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	114	0				0	0		
FLUORANTHENE	206-44-0	ug/L	20	0.8	114	0				0	0		
FLUORENE	86-73-7	ug/L	29	19	114	0				0	0		
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	114	0				0	0		
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	114	0				0	0		
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	114	0				0	0		
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	114	0				0	0		
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	114	0				0	0		
ISOPHORONE	78-59-1	ug/L	34	920	114	0				0	0		
Naphthalene	91-20-3	ug/L	0.12	21	114	0				0	0		
NITROBENZENE	98-95-3	ug/L	0.14	230	114	0				0	0		
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		114	0				0	0		
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	114	0				0	0		
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	114	0				0	0		
PHENANTHRENE	85-01-8	ug/L	180	2.3	114	0				0	0		
PHENOL	108-95-2	ug/L	580	160	114	11	1	2.5	1.5	0	0	23B-0084-PLW	1.1 - 1.1 ft
PYRENE	129-00-0	ug/L	12	4.6	114	0				0	0		
TCL VOCs													
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	114	7	0.14	6.3	2.3	0	0	23B-0064-PLW	0.4 - 0.4 ft
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	114	0				0	0		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		114	2	0.49	0.87	0.68	0	0	23B-0064-PLW	0.4 - 0.4 ft
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	114	0				0	0		
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	114	5	0.28	1.5	0.99	0	0	23B-0062-PLW	0.5 - 0.5 ft
1,1-Dichloroethene	75-35-4	ug/L	7	130	114	1	0.22	0.22	0.22	0	0	23B-0064-PLW	0.4 - 0.4 ft
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	114	2	0.15	0.36	0.26	0	0	23B-0030-PLW	4.2 - 4.2 ft
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		114	0				0	0		
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	114	1	0.56	0.56	0.56	1	0	23B-0030-PLW	4.2 - 4.2 ft
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	114	21	0.07	1.1	0.28	0	0	23B-0055-PLW	0.55 - 0.55 ft
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		114	0				0	0		
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		114	0				0	0		
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	114	0				0	0		
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	114	0				0	0		
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	114	0				0	0		
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	114	4	0.15	0.27	0.2	0	0	23B-0055-PLW	0.55 - 0.55 ft
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	114	0				0	0		
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	114	0				0	0		
2-HEXANONE	591-78-6	ug/L	3.8	99	114	0				0	0		
ACETONE	67-64-1	ug/L	1800	1700	114	0				0	0		
Benzene	71-43-2	ug/L	0.46	160	114	5	0.14	0.5	0.3	2	0	23B-0049-PLW	1 - 1 ft
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		114	0				0	0		
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	114	0				0	0		
BROMOFORM	75-25-2	ug/L	3.3	230	114	0				0	0		
BROMOMETHANE	74-83-9	ug/L	0.75	16	114	0				0	0		
CARBON DISULFIDE	75-15-0	ug/L	81	15	114	0				0	0		
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	114	0				0	0		
Chlorobenzene	108-90-7	ug/L	7.8	25	114	0				0	0		
CHLOROETHANE	75-00-3	ug/L	830		114	2	0.28	0.33	0.31	0	0	23B-0062-PLW	0.5 - 0.5 ft
Chloroform	67-66-3	ug/L	0.22	140	114	0				0	0		
CHLOROMETHANE	74-87-3	ug/L	19		114	29	0.29	1.7	0.73	0	0	23B-0067-PLW	1.1 - 1.1 ft
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	114	21	0.11	13	1.4	4	0	23B-0064-PLW	0.4 - 0.4 ft
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		114	0				0	0		
Cyclohexane	110-82-7	ug/L	1300	158	114	2	0.17	0.21	0.19	0	0	23B-0049-PLW	1 - 1 ft
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	114	0				0	0		
Dichlorodifluoromethane	75-71-8	ug/L	20		114	0				0	0		
Ethylbenzene	100-41-4	ug/L	1.5	61	114	19	0.05	0.85	0.22	0	0	23B-0055-PLW	0.55 - 0.55 ft
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	114	0				0	0		
m,p-Xylene	179601-23-1	ug/L	19		114	11	0.11	2.9	1	0	0	23B-0055-PLW	0.55 - 0.55 ft
METHYL ACETATE	79-20-9	ug/L	2000		114	0				0	0		

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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	114	0				0	0		
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	114	0				0	0		
Methylcyclohexane	108-87-2	ug/L	20	52	114	2	0.16	0.25	0.21	0	0	23B-0055-PLW	0.55 - 0.55 ft
Methylene Chloride	75-09-2	ug/L	5	1500	114	1	0.5	0.5	0.5	0	0	23B-0066-PLW	5.2 - 5.2 ft
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		114	9	0.16	1.3	0.51	0	0	23B-0055-PLW	0.55 - 0.55 ft
Styrene	100-42-5	ug/L	100	32	114	0				0	0		
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	114	0				0	0		
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	114	2	0.14	0.15	0.15	0	0	23B-0064-PLW	0.4 - 0.4 ft
Toluene	108-88-3	ug/L	57	62	114	14	0.11	3.9	1.2	0	0	23B-0055-PLW	0.55 - 0.55 ft
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	114	0				0	0		
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		114	0				0	0		
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	114	2	0.17	0.49	0.33	1	0	23B-0064-PLW	0.4 - 0.4 ft
Trichlorofluoromethane	75-69-4	ug/L	520		114	0				0	0		
Vinyl Chloride	75-01-4	ug/L	0.019	930	114	5	0.23	1.5	0.76	5	0	23B-0064-PLW	0.4 - 0.4 ft

Notes:
(a) Totals for PCDD/DF and PCB homolog groups were calculated by summing the detected congeners in each group after data validation was completed; if no congeners in a homolog group were detected, the maximum reporting detection limit of any member congener in that group was used.
(b) Sum of detected congeners.
(c) The number of samples shown and the calculation of summary statistics treated the parent and field duplicate as individual samples.
Analytes:
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxins/furans
PFAS - per- and polyfluoroalkyl substances
SVOCs - semi-volatile organic compounds
TAL - target analyte list
TCL - target compound list
VOCs - volatile organic compounds
Units:
ng/L - nanogram per liter
pg/L - picogram per liter
ug/L - microgram per liter
Project Action Limits (PALs):
The human health PALs are the lower of the Massachusetts surface water quality standards, human health criteria for drinking water plus fish and shellfish consumption (MassDEP, 2022), Massachusetts maximum contaminant levels (MassDEP, 2020), National Recommended Water Quality Criteria for human health for consumption of water and organisms (USEPA, 2024d), USEPA maximum contaminant levels (USEPA, 2024b), and USEPA regional screening levels for tap water based on a target hazard quotient of 0.1 and a target risk level of 1E-06 (USEPA, 2024a).
The ecological PALs are the lowest of the Massachusetts surface water quality standards, aquatic life criterion continuous concentration values for freshwater (MassDEP, 2022), National Recommended Water Quality Criteria aquatic life criterion continuous concentration values for freshwater (USEPA, 2024c), and USEPA Region 4 freshwater chronic screening values (USEPA, 2018).
Yellow highlighted values represent detection of the compound at a concentration above the human health PAL; underlined values represent detection of the compound at a concentration above the ecological PAL.
Comparison of the data to the PALs is for informational purposes only and is not an indication of risk.

Table 19
Surface Water Analytical Results Statistics - Phase 1 Reach
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCDD/F													
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	88	43	1.41	17.1	3.99	1	25	23B-0050-PLW	1 - 1 ft
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	88	0				0	0		
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	88	5	1.35	2.23	1.96	5	5	23B-0066-PLW	5.2 - 5.2 ft
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	88	0				0	0		
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	88	0				0	0		
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	88	0				0	0		
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	88	1	0.812	0.812	0.812	0	1	23B-0040-PLW	1 - 1 ft
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	88	1	1.67	1.67	1.67	1	1	23B-0037-PLW	1 - 1 ft
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	88	0				0	0		
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	88	0				0	0		
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	88	30	0.794	13.2	3.45	1	30	23B-0006-PLW	2.2 - 2.2 ft
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	88	0				0	0		
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	88	0				0	0		
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	88	0				0	0		
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	88	0				0	0		
OCDD	3268-87-9	pg/L	400	31	88	77	4.11	104	15.1	0	6	23B-0050-PLW	1 - 1 ft
OCDF	39001-02-0	pg/L	400	31	88	13	1.88	7.78	4.19	0	0	23B-0050-PLW	1 - 1 ft
Total HpCDD (a)	RA_Total_HpCDD	pg/L			88	50	1.41	17.1	3.99	0	0	23B-0050-PLW	1 - 1 ft
Total HpCDF (a)	RA_Total_HpCDF	pg/L			88	33	0.794	13.2	3.45	0	0	23B-0006-PLW	2.2 - 2.2 ft
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		88	5	2.05	2.23	2.12	0	0	23B-0066-PLW	5.2 - 5.2 ft
Total HxCDF (a)	RA_Total_HxCDF	pg/L			88	2	1.67	1.67	1.67	0	0	23B-0037-PLW	1 - 1 ft
Total PeCDD (a)	RA_Total_PeCDD	pg/L			88	0				0	0		
Total PeCDF (a)	RA_Total_PeCDF	pg/L			88	0				0	0		
Total TCDD (a)	RA_Total_TCDD	pg/L			88	0				0	0		
Total TCDF (a)	RA_Total_TCDF	pg/L			88	0				0	0		
TAL Metals and Mercury													
Aluminum	7429-90-5	ug/L	2000	87	88	88	34	460	71	0	10	23B-0031-PLW	1 - 1 ft
Aluminum (Dissolved)	7429-90-5	ug/L	2000	87	88	85	20	85	35	0	0	23B-0003-PLW	2.35 - 2.35 ft
Antimony	7440-36-0	ug/L	0.78	190	88	28	0.16	0.31	0.18	0	0	23B-0055-PLW	0.55 - 0.55 ft
Antimony (Dissolved)	7440-36-0	ug/L	0.78	190	88	21	0.16	0.23	0.17	0	0	23B-0007-PLW	1.85 - 1.85 ft
Arsenic	7440-38-2	ug/L	0.018	150	88	88	0.26	0.89	0.5	88	0	23B-0064-PLW	0.4 - 0.4 ft
Arsenic (Dissolved)	7440-38-2	ug/L	0.018	150	88	70	0.25	0.67	0.42	70	0	23B-0021-PLW	1.5 - 1.5 ft
Barium	7440-39-3	ug/L	380	220	88	88	33	52	39	0	0	23B-0064-PLW	0.4 - 0.4 ft
Barium (Dissolved)	7440-39-3	ug/L	380	220	88	88	31	42	38	0	0	23B-0011-PLW 23B-0014-PLW 23B-0028-PLW 23B-0037-PLW 23B-0037-PLW 23B-0053-PLW	1.5 - 1.5 ft 1 - 1 ft 2.6 - 2.6 ft 1 - 1 ft 5.3 - 5.3 ft 0.5 - 0.5 ft
Beryllium	7440-41-7	ug/L	0.0037	3.9	88	0				0	0		
Beryllium (Dissolved)	7440-41-7	ug/L	0.0037	3.9	88	1	0.09	0.09	0.09	1	0	23B-0007-PLW	1.85 - 1.85 ft
Cadmium	7440-43-9	ug/L	0.18	0.16	88	0				0	0		
Cadmium (Dissolved)	7440-43-9	ug/L	0.18	0.16	88	0				0	0		
Calcium	7440-70-2	ug/L		116000	88	88	13000	18000	16000	0	0	23B-0013-PLW 23B-0014-PLW 23B-0032-PLW 23B-0053-PLW 23B-0054-PLW 23B-0056-PLW	4.1 - 4.1 ft 1 - 1 ft 5.1 - 5.1 ft 0.5 - 0.5 ft 1.1 - 1.1 ft 1.55 - 1.55 ft

Table 19
Surface Water Analytical Results Statistics - Phase 1 Reach
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Calcium (Dissolved)	7440-70-2	ug/L		116000	88	88	12000	17000	15000	0	0	23B-0016-PLW	1.8 - 1.8 ft
												23B-0018-PLW	1.15 - 1.15 ft
												23B-0020-PLW	2.45 - 2.45 ft
												23B-0028-PLW	2.6 - 2.6 ft
												23B-0032-PLW	1 - 1 ft
												23B-0036-PLW	5.1 - 5.1 ft
												23B-0037-PLW	5.3 - 5.3 ft
												23B-0038-PLW	4.6 - 4.6 ft
												23B-0053-PLW	0.5 - 0.5 ft
												23B-0057-PLW	0.9 - 0.9 ft
												23B-0058-B1W	2.2 - 2.2 ft
												23B-0059-PLW	2.7 - 2.7 ft
												23B-0066-PLW	1 - 1 ft
												23B-0068-PLW	1 - 1 ft
												23B-0069-PLW	1 - 1 ft
												23B-0070-PLW	1.15 - 1.15 ft
Chromium, Total	7440-47-3	ug/L	100	44	88	18	0.66	38	3.9	0	0	23B-0068-PLW	4.7 - 4.7 ft
Chromium, Total (Dissolved)	7440-47-3	ug/L	100	44	88	34	0.6	460	16	1	1	23B-0065-PLW	2.75 - 2.75 ft
Cobalt	7440-48-4	ug/L	0.6	19	88	55	0.19	0.92	0.27	3	0	23B-0022-PLW	2 - 2 ft
Cobalt (Dissolved)	7440-48-4	ug/L	0.6	19	88	85	0.13	5.8	0.29	2	0	23B-0065-PLW	2.75 - 2.75 ft
Copper	7440-50-8	ug/L	80	5	88	88	1.3	25	2.3	0	3	23B-0035-PLW	2.9 - 2.9 ft
Copper (Dissolved)	7440-50-8	ug/L	80	5	88	88	1	12	1.6	0	1	23B-0065-PLW	2.75 - 2.75 ft
Iron	7439-89-6	ug/L	1400	1000	88	88	810	3000	1300	38	64	23B-0064-PLW	0.4 - 0.4 ft
Iron (Dissolved)	7439-89-6	ug/L	1400	1000	88	88	400	2800	770	1	10	23B-0065-PLW	2.75 - 2.75 ft
Lead	7439-92-1	ug/L	15	0.54	88	88	1	7.3	1.7	0	88	23B-0064-PLW	0.4 - 0.4 ft
Lead (Dissolved)	7439-92-1	ug/L	15	0.54	88	29	0.49	1.4	0.86	0	25	23B-0028-PLW	2.6 - 2.6 ft
Magnesium	7439-95-4	ug/L		82000	88	88	3200	4600	4000	0	0	23B-0013-PLW	4.1 - 4.1 ft
												23B-0053-PLW	0.5 - 0.5 ft
Magnesium (Dissolved)	7439-95-4	ug/L		82000	88	88	3100	4500	3800	0	0	23B-0057-PLW	0.9 - 0.9 ft
Manganese	7439-96-5	ug/L	43	93	88	88	93	420	140	88	86	23B-0022-PLW	2 - 2 ft
Manganese (Dissolved)	7439-96-5	ug/L	43	93	88	88	73	290	120	88	65	23B-0064-PLW	0.4 - 0.4 ft
Mercury	7439-97-6	ug/L	0.57	0.77	88	1	0.091	0.091	0.091	0	0	23B-0064-PLW	0.4 - 0.4 ft
Mercury (Dissolved)	7439-97-6	ug/L	0.57	0.77	88	0				0	0		
Nickel	7440-02-0	ug/L	39	27	88	54	0.65	16	1.6	0	0	23B-0068-PLW	4.7 - 4.7 ft
Nickel (Dissolved)	7440-02-0	ug/L	39	27	88	52	0.2	310	7.3	1	1	23B-0065-PLW	2.75 - 2.75 ft
Potassium	7440-09-7	ug/L		53000	88	88	2400	3400	3000	0	0	23B-0013-PLW	4.1 - 4.1 ft
												23B-0015-PLW	1.4 - 1.4 ft
												23B-0016-PLW	1.8 - 1.8 ft
												23B-0037-PLW	5.3 - 5.3 ft
												23B-0053-PLW	0.5 - 0.5 ft
Potassium (Dissolved)	7440-09-7	ug/L		53000	88	88	2200	3400	2900	0	0	23B-0057-PLW	0.9 - 0.9 ft
Selenium	7782-49-2	ug/L	10	5	88	0				0	0		
Selenium (Dissolved)	7782-49-2	ug/L	10	5	88	0				0	0		
Silver	7440-22-4	ug/L	9.4		88	0				0	0		
Silver (Dissolved)	7440-22-4	ug/L	9.4		88	1	0.18	0.18	0.18	0	0	23B-0019-PLW	2.85 - 2.85 ft
Sodium	7440-23-5	ug/L		680000	88	88	52000	100000	67000	0	0	23B-0037-PLW	1 - 1 ft
Sodium (Dissolved)	7440-23-5	ug/L		680000	88	88	50000	76000	65000	0	0	23B-0057-PLW	0.9 - 0.9 ft
Thallium	7440-28-0	ug/L	0.02	6	88	0				0	0		
Thallium (Dissolved)	7440-28-0	ug/L	0.02	6	88	0				0	0		
Vanadium	7440-62-2	ug/L	8.6	27	88	57	0.58	1.8	0.81	0	0	23B-0064-PLW	0.4 - 0.4 ft
Vanadium (Dissolved)	7440-62-2	ug/L	8.6	27	88	88	0.39	2.6	0.56	0	0	23B-0065-PLW	2.75 - 2.75 ft
Zinc	7440-66-6	ug/L	600	11.8	88	85	5.1	23	8.5	0	8	23B-0057-PLW	0.9 - 0.9 ft
												23B-0064-PLW	0.4 - 0.4 ft
Zinc (Dissolved)	7440-66-6	ug/L	600	11.8	88	71	5.1	35	7.9	0	6	23B-0068-PLW	1 - 1 ft
Hexavalent Chromium													
Chromium, Hexavalent (Dissolved)	18540-29-9	ug/L	0.035	11	88	0				0	0		
Total Cyanide													
CYANIDE	57-12-5	ug/L	0.15	5.2	88	18	2.8	15	5.7	18	9	23B-0031-PLW	4.7 - 4.7 ft

Table 19
Surface Water Analytical Results Statistics - Phase 1 Reach
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB Congeners													
PCB-001	2051-60-7	pg/L	64	14000	88	87	4.28	394	44.7	17	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-002	2051-61-8	pg/L	64	14000	88	8	2.21	7.38	4.59	0	0	23B-0032-PLW	5.1 - 5.1 ft
PCB-003	2051-62-9	pg/L	64	14000	88	70	4.71	111	20.5	5	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-004	13029-08-8	pg/L	64	14000	88	88	202	3790	1380	88	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-005	16605-91-7	pg/L	64	14000	88	1	4.67	4.67	4.67	0	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-006	25569-80-6	pg/L	64	14000	88	75	3.94	98.2	19.3	4	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-007	33284-50-3	pg/L	64	14000	88	8	2.98	12.3	6.31	0	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-008	34883-43-7	pg/L	64	14000	88	86	13.2	516	75.3	32	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-009	34883-39-1	pg/L	64	14000	88	10	2.03	17.9	6.3	0	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-010	33146-45-1	pg/L	64	14000	88	88	16.5	2140	360	72	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-011	2050-67-1	pg/L	64	14000	88	79	12.8	953	193	62	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-012/013	PCB-12/13	pg/L			88	63	7.73	78	18.7	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-014	34883-41-5	pg/L	64	14000	88	0				0	0		
PCB-015	2050-68-2	pg/L	64	14000	88	88	29.1	2420	373	84	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-016	38444-78-9	pg/L	64	14000	88	81	14.1	416	55.9	18	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-017	37680-66-3	pg/L	64	14000	88	88	77.7	2070	353	88	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-018/030	PCB-18/30	pg/L			88	88	65.6	1320	240	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-019	38444-73-4	pg/L	64	14000	88	88	180	3060	727	88	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-020/028	PCB-20/28	pg/L			88	88	44.9	2100	264	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-021/033	PCB-21/33	pg/L			88	58	7.37	422	48.9	0	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-022	38444-85-8	pg/L	64	14000	88	44	7.41	290	40.7	5	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-023	55720-44-0	pg/L	64	14000	88	0				0	0		
PCB-024	55702-45-9	pg/L	64	14000	88	10	3.17	70.6	20.3	1	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-025	55712-37-3	pg/L	64	14000	88	88	17.8	440	84.4	52	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-026/029	PCB-26/29	pg/L			88	88	40.3	885	187	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-027	38444-76-7	pg/L	64	14000	88	88	99.2	1520	343	88	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-031	16606-02-3	pg/L	64	14000	88	88	28	1300	197	80	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-032	38444-77-8	pg/L	64	14000	88	88	56.3	1240	329	84	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-034	37680-68-5	pg/L	64	14000	88	1	15.3	15.3	15.3	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-035	37680-69-6	pg/L	64	14000	88	1	15.7	15.7	15.7	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-036	38444-87-0	pg/L	64	14000	88	0				0	0		
PCB-037	38444-90-5	pg/L	64	14000	88	83	9.94	425	42.9	8	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-038	53555-66-1	pg/L	64	14000	88	0				0	0		
PCB-039	38444-88-1	pg/L	64	14000	88	1	10.1	10.1	10.1	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-040/071	PCB-40/71	pg/L			88	88	47.5	715	132	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-041	52663-59-9	pg/L	64	14000	88	53	2.46	107	13.5	2	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-042	36559-22-5	pg/L	64	14000	88	88	22.3	565	91	54	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-043	70362-46-8	pg/L	64	14000	88	87	4.81	74.3	15.7	2	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-044/047/065	PCB-44/47/65	pg/L			88	88	154	2290	469	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-045	70362-45-7	pg/L	64	14000	88	88	12.5	321	48.6	10	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-046	41464-47-5	pg/L	64	14000	88	88	17.2	172	38.5	8	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-048	70362-47-9	pg/L	64	14000	88	88	7.01	184	26.3	4	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-049/069	PCB-49/69	pg/L			88	88	107	1450	312	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-050/053	PCB-50/53	pg/L			88	88	109	908	252	0	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-051	68194-04-7	pg/L	64	14000	88	88	12.1	258	57.4	27	0	23B-0050-PLW	1 - 1 ft
PCB-052	35693-99-3	pg/L	64	14000	88	88	184	1760	443	88	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-054	15968-05-5	pg/L	64	14000	88	88	9.36	86.9	20.5	1	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-055	74338-24-2	pg/L	64	14000	88	4	0.304	24.2	14.2	0	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-056	41464-43-1	pg/L	64	14000	88	87	8.69	398	36.4	5	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-057	70424-67-8	pg/L	64	14000	88	13	4.25	18.1	8.61	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-058	41464-49-7	pg/L	64	14000	88	0				0	0		
PCB-059/062/075	PCB-59/62/75	pg/L			88	88	11.6	217	36.9	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-060	33025-41-1	pg/L	64	14000	88	62	4.44	229	21.1	3	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			88	88	57.9	1300	187	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-063	74472-34-7	pg/L	64	14000	88	67	4.18	99.3	16.5	2	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-064	52663-58-8	pg/L	64	14000	88	88	25.9	739	113	69	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-066	32598-10-0	pg/L	64	14000	88	88	34.4	998	126	80	0	23B-0064-PLW	0.4 - 0.4 ft

Table 19
Surface Water Analytical Results Statistics - Phase 1 Reach
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-067	73575-53-8	pg/L	64	14000	88	20	2.41	38.5	9.35	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-068	73575-52-7	pg/L	64	14000	88	51	4.33	33.9	10.4	0	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-072	41464-42-0	pg/L	64	14000	88	65	4.52	37.9	10.5	0	0	23B-0067-PLW	1.1 - 1.1 ft
PCB-073	74338-23-1	pg/L	64	14000	88	88	4.27	42.5	11.1	0	0	23B-0050-PLW	1 - 1 ft
PCB-077	32598-13-3	pg/L	64	14000	88	60	4.26	129	15.6	2	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-078	70362-49-1	pg/L	64	14000	88	0				0	0		
PCB-079	41464-48-6	pg/L	64	14000	88	0				0	0		
PCB-080	33284-52-5	pg/L	64	14000	88	0				0	0		
PCB-081	70362-50-4	pg/L	64	14000	88	0				0	0		
PCB-082	52663-62-4	pg/L	64	14000	88	67	9.33	89.8	19	2	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-083	60145-20-2	pg/L	64	14000	88	68	6.08	56.1	15.8	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-084	52663-60-2	pg/L	64	14000	88	88	39.5	240	69.8	35	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-085/116	PCB-85/116	pg/L			88	88	12.5	136	28.4	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-086/087/097/109/119/125	PCB-86+	pg/L			88	88	57.8	434	117	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-088	55215-17-3	pg/L	64	14000	88	1	1.88	1.88	1.88	0	0	23B-0069-PLW	1 - 1 ft
PCB-089	73575-57-2	pg/L	64	14000	88	2	11.9	15.3	13.6	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-090/101/113	PCB-90/101/113	pg/L			88	88	105	616	194	0	0	23B-0050-PLW	1 - 1 ft
PCB-091	68194-05-8	pg/L	64	14000	88	88	24.8	188	50.2	11	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-092	52663-61-3	pg/L	64	14000	88	88	29.4	203	62.3	27	0	23B-0050-PLW	1 - 1 ft
PCB-093/100	PCB-93/100	pg/L			88	15	3.93	34.3	16.2	0	0	23B-0050-PLW	1 - 1 ft
PCB-094	73575-55-0	pg/L	64	14000	88	11	5.12	22.1	12	0	0	23B-0050-PLW	1 - 1 ft
PCB-095	38379-99-6	pg/L	64	14000	88	88	121	595	197	88	0	23B-0050-PLW	1 - 1 ft
PCB-096	73575-54-9	pg/L	64	14000	88	30	2.2	17.2	5.74	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-098	60233-25-2	pg/L	64	14000	88	2	6.92	7.37	7.15	0	0	23B-0050-PLW	1 - 1 ft
PCB-099	38380-01-7	pg/L	64	14000	88	88	40.3	322	80	56	0	23B-0050-PLW	1 - 1 ft
PCB-102	68194-06-9	pg/L	64	14000	88	44	4.75	51	13.9	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-103	60145-21-3	pg/L	64	14000	88	10	5.16	17.9	10.8	0	0	23B-0050-PLW	1 - 1 ft
PCB-104	56558-16-8	pg/L	64	14000	88	0				0	0		
PCB-105	32598-14-4	pg/L	64	14000	88	88	13	218	33.7	5	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-106	70424-69-0	pg/L	64	14000	88	0				0	0		
PCB-107	70424-68-9	pg/L	64	14000	88	59	5.08	41.5	10.9	0	0	23B-0050-PLW	1 - 1 ft
PCB-108/124	PCB-108/124	pg/L			88	20	4.5	23.3	9.15	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-110	38380-03-9	pg/L	64	14000	88	88	117	828	216	88	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-111	39635-32-0	pg/L	64	14000	88	0				0	0		
PCB-112	74472-36-9	pg/L	64	14000	88	3	2.77	5.56	4.25	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-114	74472-37-0	pg/L	64	14000	88	1	13	13	13	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-115	74472-38-1	pg/L	64	14000	88	20	2.59	20.8	6.3	0	0	23B-0055-PLW	0.55 - 0.55 ft
PCB-117	68194-11-6	pg/L	64	14000	88	63	3.2	45.9	11.1	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-118	31508-00-6	pg/L	64	14000	88	88	52.3	419	104	80	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-120	68194-12-7	pg/L	64	14000	88	0				0	0		
PCB-121	56558-18-0	pg/L	64	14000	88	0				0	0		
PCB-122	76842-07-4	pg/L	64	14000	88	1	8.11	8.11	8.11	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-123	65510-44-3	pg/L	64	14000	88	5	4.92	16.7	8.45	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-126	57465-28-8	pg/L	1.2	14000	88	0				0	0		
PCB-127	39635-33-1	pg/L	64	14000	88	0				0	0		
PCB-128/166	PCB-128/166	pg/L			88	88	9.79	91.4	23.8	0	0	23B-0050-PLW	1 - 1 ft
PCB-129/138/163	PCB-129/138/163	pg/L			88	88	69.9	593	160	0	0	23B-0050-PLW	1 - 1 ft
PCB-130	52663-66-8	pg/L	64	14000	88	61	3.23	37	12	0	0	23B-0050-PLW	1 - 1 ft
PCB-131	61798-70-7	pg/L	64	14000	88	3	2.63	6.61	4.72	0	0	23B-0050-PLW	1 - 1 ft
PCB-132	38380-05-1	pg/L	64	14000	88	88	18.7	190	49.4	18	0	23B-0050-PLW	1 - 1 ft
PCB-133	35694-04-3	pg/L	64	14000	88	6	2.46	8.13	5.89	0	0	23B-0050-PLW	1 - 1 ft
PCB-134	52704-70-8	pg/L	64	14000	88	55	5.02	50.1	12	0	0	23B-0050-PLW	1 - 1 ft
PCB-135/151	PCB-135/151	pg/L			88	88	18.2	142	40.9	0	0	23B-0050-PLW	1 - 1 ft
PCB-136	38411-22-2	pg/L	64	14000	88	88	7.73	68.7	18.7	1	0	23B-0050-PLW	1 - 1 ft
PCB-137	35694-06-5	pg/L	64	14000	88	58	4.02	29	9.8	0	0	23B-0064-PLW	0.4 - 0.4 ft
PCB-139/140	PCB-139/140	pg/L			88	10	3.3	11.3	6.39	0	0	23B-0050-PLW	1 - 1 ft
PCB-141	52712-04-6	pg/L	64	14000	88	88	7.84	78.3	19.7	1	0	23B-0050-PLW	1 - 1 ft
PCB-142	41411-61-4	pg/L	64	14000	88	0				0	0		

Table 19
Surface Water Analytical Results Statistics - Phase 1 Reach
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-143	68194-15-0	pg/L	64	14000	88	0				0	0		
PCB-144	68194-14-9	pg/L	64	14000	88	33	2.72	16.6	7.02	0	0	23B-0014-PLW	1 - 1 ft
PCB-145	74472-40-5	pg/L	64	14000	88	0				0	0		
PCB-146	51908-16-8	pg/L	64	14000	88	87	7.21	62.4	17.1	0	0	23B-0050-PLW	1 - 1 ft
PCB-147/149	PCB-147/149	pg/L			88	88	50.1	362	99.6	0	0	23B-0050-PLW	1 - 1 ft
PCB-148	74472-41-6	pg/L	64	14000	88	0				0	0		
PCB-150	68194-08-1	pg/L	64	14000	88	0				0	0		
PCB-152	68194-09-2	pg/L	64	14000	88	0				0	0		
PCB-153/168	PCB-153/168	pg/L			88	88	55.7	372	106	0	0	23B-0050-PLW	1 - 1 ft
PCB-154	60145-22-4	pg/L	64	14000	88	13	2.23	10.5	5.07	0	0	23B-0050-PLW	1 - 1 ft
PCB-155	33979-03-2	pg/L	64	14000	88	0				0	0		
PCB-156/157	PCB-156/157	pg/L			88	86	5.57	61	13.9	0	0	23B-0050-PLW	1 - 1 ft
PCB-158	74472-42-7	pg/L	64	14000	88	83	5.2	61.1	13.9	0	0	23B-0050-PLW	1 - 1 ft
PCB-159	39635-35-3	pg/L	64	14000	88	0				0	0		
PCB-160	41411-62-5	pg/L	64	14000	88	3	1.37	3.68	2.24	0	0	23B-0014-PLW	1 - 1 ft
PCB-161	74472-43-8	pg/L	64	14000	88	0				0	0		
PCB-162	39635-34-2	pg/L	64	14000	88	0				0	0		
PCB-164	74472-45-0	pg/L	64	14000	88	74	3.76	39.9	8.87	0	0	23B-0050-PLW	1 - 1 ft
PCB-165	74472-46-1	pg/L	64	14000	88	0				0	0		
PCB-167	52663-72-6	pg/L	64	14000	88	53	2.86	26.1	7.09	0	0	23B-0050-PLW	1 - 1 ft
PCB-169	32774-16-6	pg/L	4	14000	88	0				0	0		
PCB-170	35065-30-6	pg/L	64	14000	88	66	9.63	85.2	21.7	3	0	23B-0050-PLW	1 - 1 ft
PCB-171/173	PCB-171/173	pg/L			88	15	6.89	23.2	12.1	0	0	23B-0050-PLW	1 - 1 ft
PCB-172	52663-74-8	pg/L	64	14000	88	3	10	14.3	11.7	0	0	23B-0014-PLW	1 - 1 ft
PCB-174	38411-25-5	pg/L	64	14000	88	69	6.39	80.3	16.8	1	0	23B-0014-PLW	1 - 1 ft
PCB-175	40186-70-7	pg/L	64	14000	88	0				0	0		
PCB-176	52663-65-7	pg/L	64	14000	88	7	3.58	10.2	6.33	0	0	23B-0014-PLW	1 - 1 ft
PCB-177	52663-70-4	pg/L	64	14000	88	44	5.08	43.6	12	0	0	23B-0014-PLW	1 - 1 ft
PCB-178	52663-67-9	pg/L	64	14000	88	15	3.89	22.8	8.57	0	0	23B-0050-PLW	1 - 1 ft
PCB-179	52663-64-6	pg/L	64	14000	88	58	2.64	32.7	8.06	0	0	23B-0050-PLW	1 - 1 ft
PCB-180/193	PCB-180/193	pg/L			88	88	16.1	185	38.5	0	0	23B-0014-PLW	1 - 1 ft
PCB-181	74472-47-2	pg/L	64	14000	88	0				0	0		
PCB-182	60145-23-5	pg/L	64	14000	88	0				0	0		
PCB-183	52663-69-1	pg/L	64	14000	88	46	4.86	43.2	12.8	0	0	23B-0050-PLW	1 - 1 ft
PCB-184	74472-48-3	pg/L	64	14000	88	0				0	0		
PCB-185	52712-05-7	pg/L	64	14000	88	3	1.14	10.4	7.25	0	0	23B-0014-PLW	1 - 1 ft
PCB-186	74472-49-4	pg/L	64	14000	88	0				0	0		
PCB-187	52663-68-0	pg/L	64	14000	88	84	7.07	82.7	18.8	2	0	23B-0014-PLW	1 - 1 ft
PCB-188	74487-85-7	pg/L	64	14000	88	0				0	0		
PCB-189	39635-31-9	pg/L	64	14000	88	1	2.31	2.31	2.31	0	0	23B-0049-PLW	1 - 1 ft
PCB-190	41411-64-7	pg/L	64	14000	88	7	3.1	15.6	8.88	0	0	23B-0050-PLW	1 - 1 ft
PCB-191	74472-50-7	pg/L	64	14000	88	0				0	0		
PCB-192	74472-51-8	pg/L	64	14000	88	0				0	0		
PCB-194	35694-08-7	pg/L	64	14000	88	69	3.08	38.2	8.41	0	0	23B-0050-PLW	1 - 1 ft
PCB-195	52663-78-2	pg/L	64	14000	88	17	2.21	13.1	5.69	0	0	23B-0050-PLW	1 - 1 ft
PCB-196	42740-50-1	pg/L	64	14000	88	38	1.89	22.8	5.54	0	0	23B-0050-PLW	1 - 1 ft
PCB-197	33091-17-7	pg/L	64	14000	88	0				0	0		
PCB-198/199	PCB-198/199	pg/L			88	83	2.59	38.7	8.62	0	0	23B-0050-PLW	1 - 1 ft
PCB-200	52663-73-7	pg/L	64	14000	88	4	2.18	4.92	3.51	0	0	23B-0062-PLW	0.5 - 0.5 ft
PCB-201	40186-71-8	pg/L	64	14000	88	9	1.76	6.19	3.39	0	0	23B-0014-PLW	1 - 1 ft
PCB-202	2136-99-4	pg/L	64	14000	88	25	0.758	9.35	2.79	0	0	23B-0050-PLW	1 - 1 ft
PCB-203	52663-76-0	pg/L	64	14000	88	62	2.01	24.9	5.84	0	0	23B-0050-PLW	1 - 1 ft
PCB-204	74472-52-9	pg/L	64	14000	88	0				0	0		
PCB-205	74472-53-0	pg/L	64	14000	88	0				0	0		
PCB-206	40186-72-9	pg/L	64	14000	88	10	5.63	36	15.1	0	0	23B-0050-PLW	1 - 1 ft
PCB-207	52663-79-3	pg/L	64	14000	88	0				0	0		
PCB-208	52663-77-1	pg/L	64	14000	88	4	4.31	11.2	6.68	0	0	23B-0050-PLW	1 - 1 ft
PCB-209	2051-24-3	pg/L	64	14000	88	58	4.27	31.1	8.63	0	0	23B-0050-PLW	1 - 1 ft

Table 19
Surface Water Analytical Results Statistics - Phase 1 Reach
Phase 1 Data Evaluation Summary Memorandum
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	88	58	4.27	31.1	8.63	0	0	23B-0050-PLW	1 - 1 ft
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	88	88	20.4	625	109	62	0	23B-0014-PLW	1 - 1 ft
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	88	88	265	2310	600	88	0	23B-0050-PLW	1 - 1 ft
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	88	84	4.49	157	24.7	3	0	23B-0050-PLW	1 - 1 ft
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	88	88	3450	40400	9750	88	7	23B-0064-PLW	0.4 - 0.4 ft
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	88	88	629	4580	1210	88	0	23B-0064-PLW	0.4 - 0.4 ft
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	88	88	319	7490	2390	88	0	23B-0062-PLW	0.5 - 0.5 ft
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	88	87	5.16	505	61.7	21	0	23B-0067-PLW	1.1 - 1.1 ft
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	88	11	4.31	47.2	16.2	0	0	23B-0050-PLW	1 - 1 ft
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	88	88	835	13000	2480	88	0	23B-0064-PLW	0.4 - 0.4 ft
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	88	88	701	13500	2870	88	0	23B-0064-PLW	0.4 - 0.4 ft
TCL Pesticides													
ALDRIN	309-00-2	ug/L	0.00000077	0.04	88	0				0	0		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	88	0				0	0		
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	88	0				0	0		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		88	0				0	0		
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	88	1	0.0061	0.0061	0.0061	0	0	23B-0036-PLW	1 - 1 ft
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		88	0				0	0		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		88	0				0	0		
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	88	0				0	0		
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	88	0				0	0		
ENDRIN	72-20-8	ug/L	0.03	0.036	88	0				0	0		
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		88	0				0	0		
ENDRIN KETONE	53494-70-5	ug/L	0.23		88	0				0	0		
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	88	0				0	0		
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	88	0				0	0		
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	88	0				0	0		
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	88	1	0.017	0.017	0.017	0	0	23B-0027-PLW	2 - 2 ft
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	88	0				0	0		
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	88	0				0	0		
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	88	0				0	0		
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	88	0				0	0		
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		88	0				0	0		
PFAS													
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			88	0				0	0		
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			88	0				0	0		
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			88	1	0.59	0.59	0.59	0	0	23B-0058-B1W	2.2 - 2.2 ft
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			88	0				0	0		
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	ng/L			88	0				0	0		
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	88	88	2.1	3.7	2.8	0	0	23B-0070-PLW	1.15 - 1.15 ft
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	88	88	3	22	4.9	0	0	23B-0058-B1W	2.2 - 2.2 ft
Perfluorodecane Sulfonate	335-77-3	ng/L			88	0				0	0		
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	88	69	0.26	0.41	0.32	0	0	23B-0021-PLW 23B-0037-PLW 23B-0063-PLW	1.5 - 1.5 ft 1 - 1 ft 0.6 - 0.6 ft
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	88	0				0	0		
Perfluoroheptane sulfonate	375-92-8	ng/L			88	0				0	0		
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	88	88	1.5	2.6	2.1	0	0	23B-0044-PLW 23B-0069-PLW	1 - 1 ft 1 - 1 ft
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	88	88	1.6	3.4	2.4	0	0	23B-0070-PLW	1.15 - 1.15 ft
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	88	88	2.9	4.7	3.8	0	0	23B-0020-PLW	2.45 - 2.45 ft
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			88	0				0	0		
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	88	88	0.58	1.2	0.8	0	0	23B-0070-PLW	1.15 - 1.15 ft
Perfluorooctanesulfonamide	754-91-6	ng/L			88	7	0.3	0.48	0.37	0	0	23B-0021-PLW	1.5 - 1.5 ft
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	88	88	3.7	7.2	5.4	86	0	23B-0050-PLW	1 - 1 ft
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	88	88	4.3	18	5.6	11	0	23B-0069-PLW	1 - 1 ft
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			88	81	0.24	0.57	0.37	0	0	23B-0070-PLW	1.15 - 1.15 ft
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	88	88	3	5.7	4.2	0	0	23B-0031-PLW	1 - 1 ft

Table 19
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Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		88	0				0	0		
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			88	0				0	0		
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	88	0				0	0		
TCL SVOCs													
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	88	0				0	0		
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	88	0				0	0		
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	88	0				0	0		
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	88	0				0	0		
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	88	0				0	0		
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	88	0				0	0		
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	88	0				0	0		
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	88	0				0	0		
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	88	0				0	0		
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	88	0				0	0		
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	88	0				0	0		
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		88	0				0	0		
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	88	0				0	0		
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	88	0				0	0		
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	88	0				0	0		
2-NITROANILINE	88-74-4	ug/L	19	17	88	0				0	0		
2-NITROPHENOL	88-75-5	ug/L	580	73	88	0				0	0		
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	88	0				0	0		
3-NITROANILINE	99-09-2	ug/L	3.8		88	0				0	0		
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		88	0				0	0		
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	88	0				0	0		
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	88	0				0	0		
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	88	0				0	0		
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			88	0				0	0		
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	88	0				0	0		
4-Nitroaniline	100-01-6	ug/L	3.8		88	0				0	0		
4-NITROPHENOL	100-02-7	ug/L	580	58	88	0				0	0		
Acenaphthene	83-32-9	ug/L	53	15	88	0				0	0		
ACENAPHTHYLENE	208-96-8	ug/L	53	13	88	0				0	0		
Acetophenone	98-86-2	ug/L	190		88	0				0	0		
ANTHRACENE	120-12-7	ug/L	180	0.02	88	0				0	0		
ATRAZINE	1912-24-9	ug/L	0.3	0.03	88	0				0	0		
BENZALDEHYDE	100-52-7	ug/L	19	143	88	0				0	0		
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	88	0				0	0		
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	88	0				0	0		
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	88	0				0	0		
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	88	0				0	0		
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	88	0				0	0		
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	88	0				0	0		
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	88	0				0	0		
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		88	0				0	0		
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		88	0				0	0		
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		88	0				0	0		
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	88	0				0	0		
Caprolactam	105-60-2	ug/L	990		88	0				0	0		
CARBAZOLE	86-74-8	ug/L	29	4	88	0				0	0		
CHRYSENE	218-01-9	ug/L	0.12	2	88	0				0	0		
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	88	0				0	0		
Dibenzofuran	132-64-9	ug/L	0.79	4	88	0				0	0		
Diethyl Phthalate	84-66-2	ug/L	600	220	88	0				0	0		
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	88	0				0	0		
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	88	0				0	0		
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	88	0				0	0		
FLUORANTHENE	206-44-0	ug/L	20	0.8	88	0				0	0		

Table 19
Surface Water Analytical Results Statistics - Phase 1 Reach
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
FLUORENE	86-73-7	ug/L	29	19	88	0				0	0		
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	88	0				0	0		
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	88	0				0	0		
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	88	0				0	0		
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	88	0				0	0		
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	88	0				0	0		
ISOPHORONE	78-59-1	ug/L	34	920	88	0				0	0		
Naphthalene	91-20-3	ug/L	0.12	21	88	0				0	0		
NITROBENZENE	98-95-3	ug/L	0.14	230	88	0				0	0		
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		88	0				0	0		
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	88	0				0	0		
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	88	0				0	0		
PHENANTHRENE	85-01-8	ug/L	180	2.3	88	0				0	0		
PHENOL	108-95-2	ug/L	580	160	88	4	1	1.9	1.4	0	0	23B-0022-PLW	2 - 2 ft
PYRENE	129-00-0	ug/L	12	4.6	88	0				0	0		
TCL VOCs													
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	88	7	0.14	6.3	2.3	0	0	23B-0064-PLW	0.4 - 0.4 ft
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	88	0				0	0		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		88	2	0.49	0.87	0.68	0	0	23B-0064-PLW	0.4 - 0.4 ft
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	88	0				0	0		
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	88	5	0.28	1.5	0.99	0	0	23B-0062-PLW	0.5 - 0.5 ft
1,1-Dichloroethene	75-35-4	ug/L	7	130	88	1	0.22	0.22	0.22	0	0	23B-0064-PLW	0.4 - 0.4 ft
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	88	2	0.15	0.36	0.26	0	0	23B-0030-PLW	4.2 - 4.2 ft
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		88	0				0	0		
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	88	1	0.56	0.56	0.56	1	0	23B-0030-PLW	4.2 - 4.2 ft
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	88	21	0.07	1.1	0.28	0	0	23B-0055-PLW	0.55 - 0.55 ft
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		88	0				0	0		
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		88	0				0	0		
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	88	0				0	0		
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	88	0				0	0		
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	88	0				0	0		
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	88	4	0.15	0.27	0.2	0	0	23B-0055-PLW	0.55 - 0.55 ft
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	88	0				0	0		
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	88	0				0	0		
2-HEXANONE	591-78-6	ug/L	3.8	99	88	0				0	0		
ACETONE	67-64-1	ug/L	1800	1700	88	0				0	0		
Benzene	71-43-2	ug/L	0.46	160	88	5	0.14	0.5	0.3	2	0	23B-0049-PLW	1 - 1 ft
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		88	0				0	0		
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	88	0				0	0		
BROMOFORM	75-25-2	ug/L	3.3	230	88	0				0	0		
BROMOMETHANE	74-83-9	ug/L	0.75	16	88	0				0	0		
CARBON DISULFIDE	75-15-0	ug/L	81	15	88	0				0	0		
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	88	0				0	0		
Chlorobenzene	108-90-7	ug/L	7.8	25	88	0				0	0		
CHLOROETHANE	75-00-3	ug/L	830		88	2	0.28	0.33	0.31	0	0	23B-0062-PLW	0.5 - 0.5 ft
Chloroform	67-66-3	ug/L	0.22	140	88	0				0	0		
CHLOROMETHANE	74-87-3	ug/L	19		88	28	0.29	1.7	0.73	0	0	23B-0067-PLW	1.1 - 1.1 ft
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	88	21	0.11	13	1.4	4	0	23B-0064-PLW	0.4 - 0.4 ft
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		88	0				0	0		
Cyclohexane	110-82-7	ug/L	1300	158	88	2	0.17	0.21	0.19	0	0	23B-0049-PLW	1 - 1 ft
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	88	0				0	0		
Dichlorodifluoromethane	75-71-8	ug/L	20		88	0				0	0		
Ethylbenzene	100-41-4	ug/L	1.5	61	88	19	0.05	0.85	0.22	0	0	23B-0055-PLW	0.55 - 0.55 ft
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	88	0				0	0		
m,p-Xylene	179601-23-1	ug/L	19		88	11	0.11	2.9	1	0	0	23B-0055-PLW	0.55 - 0.55 ft
METHYL ACETATE	79-20-9	ug/L	2000		88	0				0	0		
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	88	0				0	0		
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	88	0				0	0		

Table 19
Surface Water Analytical Results Statistics - Phase 1 Reach
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Methylcyclohexane	108-87-2	ug/L	20	52	88	2	0.16	0.25	0.21	0	0	23B-0055-PLW	0.55 - 0.55 ft
Methylene Chloride	75-09-2	ug/L	5	1500	88	1	0.5	0.5	0.5	0	0	23B-0066-PLW	5.2 - 5.2 ft
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		88	9	0.16	1.3	0.51	0	0	23B-0055-PLW	0.55 - 0.55 ft
Styrene	100-42-5	ug/L	100	32	88	0				0	0		
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	88	0				0	0		
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	88	2	0.14	0.15	0.15	0	0	23B-0064-PLW	0.4 - 0.4 ft
Toluene	108-88-3	ug/L	57	62	88	14	0.11	3.9	1.2	0	0	23B-0055-PLW	0.55 - 0.55 ft
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	88	0				0	0		
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		88	0				0	0		
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	88	2	0.17	0.49	0.33	1	0	23B-0064-PLW	0.4 - 0.4 ft
Trichlorofluoromethane	75-69-4	ug/L	520		88	0				0	0		
Vinyl Chloride	75-01-4	ug/L	0.019	930	88	5	0.23	1.5	0.76	5	0	23B-0064-PLW	0.4 - 0.4 ft

Notes:
(a) Totals for PCDD/DF and PCB homolog groups were calculated by summing the detected congeners in each group after data validation was completed; if no congeners in a homolog group were detected, the maximum reporting detection limit of any member congener in that group was used.
(b) Sum of detected congeners.
(c) The number of samples shown and the calculation of summary statistics treated the parent and field duplicate as individual samples.
Analytes:
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxins/furans
PFAS - per- and polyfluoroalkyl substances
SVOCs - semi-volatile organic compounds
TAL - target analyte list
TCL - target compound list
VOCs - volatile organic compounds
Units:
ng/L - nanogram per liter
pg/L - picogram per liter
ug/L - microgram per liter
Project Action Limits (PALs):
The human health PALs are the lower of the Massachusetts surface water quality standards, human health criteria for drinking water plus fish and shellfish consumption (MassDEP, 2022), Massachusetts maximum contaminant levels (MassDEP, 2020), National Recommended Water Quality Criteria for human health for consumption of water and organisms (USEPA, 2024d), USEPA maximum contaminant levels (USEPA, 2024b), and USEPA regional screening levels for tap water based on a target hazard quotient of 0.1 and a target risk level of 1E-06 (USEPA, 2024a).
The ecological PALs are the lowest of the Massachusetts surface water quality standards, aquatic life criterion continuous concentration values for freshwater (MassDEP, 2022), National Recommended Water Quality Criteria aquatic life criterion continuous concentration values for freshwater (USEPA, 2024c), and USEPA Region 4 freshwater chronic screening values (USEPA, 2018).
Yellow highlighted values represent detection of the compound at a concentration above the human health PAL; underlined values represent detection of the compound at a concentration above the ecological PAL.
Comparison of the data to the PALs is for informational purposes only and is not an indication of risk.

Table 20
Surface Water Analytical Results Statistics - Reference Areas
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCDD/F													
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	12	3.1	26	8	2.75	62.7	11.6	1	6	23B-0074-PLW	0.45 - 0.45 ft
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	12	0.31	26	1	3.84	3.84	3.84	0	1	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	1.2	0.062	26	1	6.45	6.45	6.45	1	1	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	1.2	0.031	26	2	4.84	10.6	7.72	2	2	23B-0074-PLW	0.45 - 0.45 ft
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	1.2	0.31	26	1	4.23	4.23	4.23	1	1	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	1.2	0.031	26	2	4.52	5.32	4.92	2	2	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	1.2	0.031	26	1	3.92	3.92	3.92	1	1	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	1.2	0.031	26	1	5.94	5.94	5.94	1	1	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.12	0.0031	26	1	5.24	5.24	5.24	1	1	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,7,8-PeCDF	57117-41-6	pg/L	4	0.1033	26	1	4.63	4.63	4.63	1	1	23B-0088-PLW	1.4 - 1.4 ft
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	12	0.31	26	10	1.52	84.3	11.2	1	10	23B-0074-PLW	0.45 - 0.45 ft
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	1.2	0.031	26	2	2.79	3.78	3.29	2	2	23B-0088-PLW	1.4 - 1.4 ft
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.4	0.01033	26	2	3.5	5.42	4.46	2	2	23B-0088-PLW	1.4 - 1.4 ft
2,3,7,8-TCDD	1746-01-6	pg/L	0.005	0.0031	26	0				0	0		
2,3,7,8-TCDF	51207-31-9	pg/L	1.2	0.031	26	0				0	0		
OCDD	3268-87-9	pg/L	400	31	26	21	4.81	403	32.2	1	1	23B-0074-PLW	0.45 - 0.45 ft
OCDF	39001-02-0	pg/L	400	31	26	3	4.93	96	36.1	0	1	23B-0074-PLW	0.45 - 0.45 ft
Total HpCDD (a)	RA_Total_HpCDD	pg/L			26	9	2.75	62.7	11.6	0	0	23B-0074-PLW	0.45 - 0.45 ft
Total HpCDF (a)	RA_Total_HpCDF	pg/L			26	11	1.52	84.3	11.6	0	0	23B-0074-PLW	0.45 - 0.45 ft
Total HxCDD (a)	RA_Total_HxCDD	pg/L	13		26	2	14.6	14.6	14.6	1	0	23B-0088-PLW	1.4 - 1.4 ft
Total HxCDF (a)	RA_Total_HxCDF	pg/L			26	2	17.9	19.9	18.9	0	0	23B-0088-PLW	1.4 - 1.4 ft
Total PeCDD (a)	RA_Total_PeCDD	pg/L			26	1	5.24	5.24	5.24	0	0	23B-0088-PLW	1.4 - 1.4 ft
Total PeCDF (a)	RA_Total_PeCDF	pg/L			26	2	3.5	10.1	6.8	0	0	23B-0088-PLW	1.4 - 1.4 ft
Total TCDD (a)	RA_Total_TCDD	pg/L			26	0				0	0		
Total TCDF (a)	RA_Total_TCDF	pg/L			26	0				0	0		
TAL Metals and Mercury													
Aluminum	7429-90-5	ug/L	2000	87	26	26	34	600	130	0	10	23B-0094-PLW	2.1 - 2.1 ft
Aluminum (Dissolved)	7429-90-5	ug/L	2000	87	26	25	20	180	53	0	3	23B-0092-PLW	4.25 - 4.25 ft
Antimony	7440-36-0	ug/L	0.78	190	26	7	0.17	0.19	0.18	0	0	23B-0080-PLW 23B-0082-PLW	0.75 - 0.75 ft 3.4 - 3.4 ft
Antimony (Dissolved)	7440-36-0	ug/L	0.78	190	26	6	0.17	0.19	0.18	0	0	23B-0081-PLW	2.9 - 2.9 ft
Arsenic	7440-38-2	ug/L	0.018	150	26	26	0.2	0.67	0.43	26	0	23B-0087-PLW	0.8 - 0.8 ft
Arsenic (Dissolved)	7440-38-2	ug/L	0.018	150	26	26	0.18	0.56	0.36	26	0	23B-0079-PLW	2.25 - 2.25 ft
Barium	7440-39-3	ug/L	380	220	26	26	28	42	34	0	0	23B-0087-PLW	0.8 - 0.8 ft
Barium (Dissolved)	7440-39-3	ug/L	380	220	26	26	27	40	33	0	0	23B-0087-PLW	0.8 - 0.8 ft
Beryllium	7440-41-7	ug/L	0.0037	3.9	26	0				0	0		
Beryllium (Dissolved)	7440-41-7	ug/L	0.0037	3.9	26	0				0	0		
Cadmium	7440-43-9	ug/L	0.18	0.16	26	0				0	0		
Cadmium (Dissolved)	7440-43-9	ug/L	0.18	0.16	26	0				0	0		
Calcium	7440-70-2	ug/L		116000	26	26	12000	16000	14000	0	0	23B-0089-PLW	2.5 - 2.5 ft
Calcium (Dissolved)	7440-70-2	ug/L		116000	26	26	12000	15000	14000	0	0	23B-0079-PLW 23B-0079-PLW 23B-0087-PLW 23B-0088-PLW 23B-0089-PLW 23B-0090-PLW	2.25 - 2.25 ft 2.25 - 2.25 ft 0.8 - 0.8 ft 1.4 - 1.4 ft 2.5 - 2.5 ft 0.6 - 0.6 ft
Chromium, Total	7440-47-3	ug/L	100	44	26	21	0.62	3.7	1.2	0	0	23B-0087-PLW	0.8 - 0.8 ft
Chromium, Total (Dissolved)	7440-47-3	ug/L	100	44	26	20	0.53	3.1	0.91	0	0	23B-0082-PLW	3.4 - 3.4 ft
Cobalt	7440-48-4	ug/L	0.6	19	26	20	0.12	0.41	0.22	0	0	23B-0084-PLW	1.1 - 1.1 ft
Cobalt (Dissolved)	7440-48-4	ug/L	0.6	19	26	20	0.11	0.26	0.17	0	0	23B-0085-PLW	1.8 - 1.8 ft
Copper	7440-50-8	ug/L	80	5	26	19	0.87	4.5	2	0	0	23B-0094-PLW	2.1 - 2.1 ft
Copper (Dissolved)	7440-50-8	ug/L	80	5	26	14	0.8	2.6	1.6	0	0	23B-0081-PLW	2.9 - 2.9 ft
Iron	7439-89-6	ug/L	1400	1000	26	26	740	1700	1100	1	14	23B-0087-PLW	0.8 - 0.8 ft
Iron (Dissolved)	7439-89-6	ug/L	1400	1000	26	26	350	1200	670	0	1	23B-0087-PLW	0.8 - 0.8 ft
Lead	7439-92-1	ug/L	15	0.54	26	20	1.1	3.6	1.9	0	20	23B-0075-PLW	0.6 - 0.6 ft
Lead (Dissolved)	7439-92-1	ug/L	15	0.54	26	4	1.1	1.3	1.2	0	4	23B-0081-PLW 23B-0087-PLW	2.9 - 2.9 ft 0.8 - 0.8 ft
Magnesium	7439-95-4	ug/L		82000	26	26	2900	4200	3600	0	0	23B-0079-PLW 23B-0087-PLW 23B-0090-PLW	2.25 - 2.25 ft 0.8 - 0.8 ft 0.6 - 0.6 ft
Magnesium (Dissolved)	7439-95-4	ug/L		82000	26	26	3000	4400	3600	0	0	23B-0090-PLW	0.6 - 0.6 ft

Table 20
Surface Water Analytical Results Statistics - Reference Areas
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Manganese	7439-96-5	ug/L	43	93	26	26	73	230	130	26	16	23B-0087-PLW	0.8 - 0.8 ft
Manganese (Dissolved)	7439-96-5	ug/L	43	93	26	26	57	220	110	26	16	23B-0089-PLW	2.5 - 2.5 ft
Mercury	7439-97-6	ug/L	0.57	0.77	26	0				0	0		
Mercury (Dissolved)	7439-97-6	ug/L	0.57	0.77	26	0				0	0		
Nickel	7440-02-0	ug/L	39	27	26	21	0.19	12	1.1	0	0	23B-0087-PLW	0.8 - 0.8 ft
Nickel (Dissolved)	7440-02-0	ug/L	39	27	26	22	0.14	1.8	0.51	0	0	23B-0082-PLW	3.4 - 3.4 ft
Potassium	7440-09-7	ug/L		53000	26	26	2400	3800	3200	0	0	23B-0074-PLW 23B-0078-PLW	0.45 - 0.45 ft 2.3 - 2.3 ft
Potassium (Dissolved)	7440-09-7	ug/L		53000	26	26	2200	3800	3200	0	0	23B-0074-PLW 23B-0075-PLW 23B-0076-PLW 23B-0077-PLW 23B-0077-PLW 23B-0094-PLW	0.45 - 0.45 ft 0.6 - 0.6 ft 2.1 - 2.1 ft 1.3 - 1.3 ft 1.3 - 1.3 ft 2.1 - 2.1 ft
Selenium	7782-49-2	ug/L	10	5	26	4	1.2	1.3	1.3	0	0	23B-0072-PLW 23B-0092-PLW	1.2 - 1.2 ft 4.25 - 4.25 ft
Selenium (Dissolved)	7782-49-2	ug/L	10	5	26	2	1.1	1.3	1.2	0	0	23B-0072-PLW	1.2 - 1.2 ft
Silver	7440-22-4	ug/L	9.4		26	0				0	0		
Silver (Dissolved)	7440-22-4	ug/L	9.4		26	0				0	0		
Sodium	7440-23-5	ug/L		680000	26	26	48000	71000	60000	0	0	23B-0087-PLW	0.8 - 0.8 ft
Sodium (Dissolved)	7440-23-5	ug/L		680000	26	26	50000	71000	59000	0	0	23B-0090-PLW	0.6 - 0.6 ft
Thallium	7440-28-0	ug/L	0.02	6	26	0				0	0		
Thallium (Dissolved)	7440-28-0	ug/L	0.02	6	26	0				0	0		
Vanadium	7440-62-2	ug/L	8.6	27	26	26	0.25	1.3	0.69	0	0	23B-0087-PLW	0.8 - 0.8 ft
Vanadium (Dissolved)	7440-62-2	ug/L	8.6	27	26	25	0.2	0.99	0.5	0	0	23B-0087-PLW	0.8 - 0.8 ft
Zinc	7440-66-6	ug/L	600	11.8	26	26	5.3	69	14	0	8	23B-0071-PLW	1.35 - 1.35 ft
Zinc (Dissolved)	7440-66-6	ug/L	600	11.8	26	22	5.1	48	9.4	0	3	23B-0092-PLW	4.25 - 4.25 ft
Hexavalent Chromium													
Chromium, Hexavalent (Dissolved)	18540-29-9	ug/L	0.035	11	26	0				0	0		
Total Cyanide													
CYANIDE	57-12-5	ug/L	0.15	5.2	26	4	2.9	3.6	3.2	4	0	23B-0075-PLW	0.6 - 0.6 ft
PCB Congeners													
PCB-001	2051-60-7	pg/L	64	14000	26	22	2.43	68.5	18.2	1	0	23B-0077-PLW	1.3 - 1.3 ft
PCB-002	2051-61-8	pg/L	64	14000	26	6	3.41	6.21	4.34	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-003	2051-62-9	pg/L	64	14000	26	15	4.33	12.8	8.14	0	0	23B-0077-PLW	1.3 - 1.3 ft
PCB-004	13029-08-8	pg/L	64	14000	26	26	21.8	391	149	18	0	23B-0077-PLW	1.3 - 1.3 ft
PCB-005	16605-91-7	pg/L	64	14000	26	0				0	0		
PCB-006	25569-80-6	pg/L	64	14000	26	18	1.94	16.4	9.57	0	0	23B-0077-PLW	1.3 - 1.3 ft
PCB-007	33284-50-3	pg/L	64	14000	26	0				0	0		
PCB-008	34883-43-7	pg/L	64	14000	26	22	7.89	132	47.7	3	0	23B-0077-PLW	1.3 - 1.3 ft
PCB-009	34883-39-1	pg/L	64	14000	26	6	3.03	5.53	3.83	0	0	23B-0090-PLW	0.6 - 0.6 ft
PCB-010	33146-45-1	pg/L	64	14000	26	20	9.35	96.1	24.3	1	0	23B-0077-PLW	1.3 - 1.3 ft
PCB-011	2050-67-1	pg/L	64	14000	26	19	135	721	405	19	0	23B-0083-PLW	2.65 - 2.65 ft
PCB-012/013	PCB-12/13	pg/L			26	8	6.58	10.3	8.13	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-014	34883-41-5	pg/L	64	14000	26	0				0	0		
PCB-015	2050-68-2	pg/L	64	14000	26	25	4.5	56.2	23.3	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-016	38444-78-9	pg/L	64	14000	26	14	6.75	74.4	50.1	6	0	23B-0083-PLW	2.65 - 2.65 ft
PCB-017	37680-66-3	pg/L	64	14000	26	23	12.7	160	91.6	14	0	23B-0079-PLW	2.25 - 2.25 ft
PCB-018/030	PCB-18/30	pg/L			26	26	9.99	198	84.4	0	0	23B-0090-PLW	0.6 - 0.6 ft
PCB-019	38444-73-4	pg/L	64	14000	26	23	9.09	243	136	15	0	23B-0090-PLW	0.6 - 0.6 ft
PCB-020/028	PCB-20/28	pg/L			26	25	12.8	140	73.6	0	0	23B-0083-PLW	2.65 - 2.65 ft
PCB-021/033	PCB-21/33	pg/L			26	15	9.47	88.8	55.9	0	0	23B-0083-PLW	2.65 - 2.65 ft
PCB-022	38444-85-8	pg/L	64	14000	26	11	15.7	40.8	33.2	0	0	23B-0079-PLW	2.25 - 2.25 ft
PCB-023	55720-44-0	pg/L	64	14000	26	0				0	0		
PCB-024	55702-45-9	pg/L	64	14000	26	0				0	0		
PCB-025	55712-37-3	pg/L	64	14000	26	19	6.13	30.4	20.4	0	0	23B-0080-PLW	0.75 - 0.75 ft
PCB-026/029	PCB-26/29	pg/L			26	23	3.84	74.3	41.3	0	0	23B-0079-PLW	2.25 - 2.25 ft
PCB-027	38444-76-7	pg/L	64	14000	26	20	12.4	114	77	14	0	23B-0087-PLW	0.8 - 0.8 ft
PCB-031	16606-02-3	pg/L	64	14000	26	24	7.7	131	62.2	10	0	23B-0090-PLW	0.6 - 0.6 ft
PCB-032	38444-77-8	pg/L	64	14000	26	24	8.9	121	53.4	10	0	23B-0077-PLW	1.3 - 1.3 ft
PCB-034	37680-68-5	pg/L	64	14000	26	0				0	0		

Table 20
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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-035	37680-69-6	pg/L	64	14000	26	1	5.71	5.71	5.71	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-036	38444-87-0	pg/L	64	14000	26	0				0	0		
PCB-037	38444-90-5	pg/L	64	14000	26	13	7.4	48	20.3	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-038	53555-66-1	pg/L	64	14000	26	0				0	0		
PCB-039	38444-88-1	pg/L	64	14000	26	0				0	0		
PCB-040/071	PCB-40/71	pg/L			26	26	5.69	137	46.9	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-041	52663-59-9	pg/L	64	14000	26	11	7.18	12.5	9.41	0	0	23B-0090-PLW	0.6 - 0.6 ft
PCB-042	36559-22-5	pg/L	64	14000	26	24	3.91	55.1	24.8	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-043	70362-46-8	pg/L	64	14000	26	14	5.09	9.26	7.31	0	0	23B-0079-PLW	2.25 - 2.25 ft
PCB-044/047/065	PCB-44/47/65	pg/L			26	26	19.5	280	134	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-045	70362-45-7	pg/L	64	14000	26	22	2.12	37.4	14.6	0	0	23B-0090-PLW	0.6 - 0.6 ft
PCB-046	41464-47-5	pg/L	64	14000	26	14	15.1	26.3	21.8	0	0	23B-0090-PLW	0.6 - 0.6 ft
PCB-048	70362-47-9	pg/L	64	14000	26	15	3.12	27.5	17.8	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-049/069	PCB-49/69	pg/L			26	26	10.5	175	90.1	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-050/053	PCB-50/53	pg/L			26	25	5.07	192	92.4	0	0	23B-0087-PLW	0.8 - 0.8 ft
PCB-051	68194-04-7	pg/L	64	14000	26	22	2.54	26	15	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-052	35693-99-3	pg/L	64	14000	26	26	17.6	382	170	14	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-054	15968-05-5	pg/L	64	14000	26	13	13.3	18.9	16.1	0	0	23B-0079-PLW	2.25 - 2.25 ft
PCB-055	74338-24-2	pg/L	64	14000	26	0				0	0		
PCB-056	41464-43-1	pg/L	64	14000	26	17	5.23	74.6	17.1	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-057	70424-67-8	pg/L	64	14000	26	0				0	0		
PCB-058	41464-49-7	pg/L	64	14000	26	0				0	0		
PCB-059/062/075	PCB-59/62/75	pg/L			26	20	2.86	26.9	12.5	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-060	33025-41-1	pg/L	64	14000	26	9	3.61	28	11.4	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-061/070/074/076	PCB-61/70/74/76	pg/L			26	26	14.3	408	72.3	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-063	74472-34-7	pg/L	64	14000	26	6	3.78	9.04	5.37	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-064	52663-58-8	pg/L	64	14000	26	25	4.92	93	26.7	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-066	32598-10-0	pg/L	64	14000	26	26	7.05	223	43.9	5	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-067	73575-53-8	pg/L	64	14000	26	4	2.49	5.5	3.55	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-068	73575-52-7	pg/L	64	14000	26	12	4.14	10.3	6.4	0	0	23B-0087-PLW	0.8 - 0.8 ft
PCB-072	41464-42-0	pg/L	64	14000	26	12	4.38	7.61	5.78	0	0	23B-0079-PLW	2.25 - 2.25 ft
PCB-073	74338-23-1	pg/L	64	14000	26	14	4.05	9.63	6.77	0	0	23B-0087-PLW	0.8 - 0.8 ft
PCB-077	32598-13-3	pg/L	64	14000	26	4	4.26	38.8	13	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-078	70362-49-1	pg/L	64	14000	26	0				0	0		
PCB-079	41464-48-6	pg/L	64	14000	26	1	6.47	6.47	6.47	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-080	33284-52-5	pg/L	64	14000	26	0				0	0		
PCB-081	70362-50-4	pg/L	64	14000	26	0				0	0		
PCB-082	52663-62-4	pg/L	64	14000	26	12	10.6	116	21.1	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-083	60145-20-2	pg/L	64	14000	26	14	8.74	59.6	16.7	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-084	52663-60-2	pg/L	64	14000	26	22	5.68	243	53.5	8	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-085/116	PCB-85/116	pg/L			26	19	4.96	176	30.3	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-086/087/097/109/119/125	PCB-86+	pg/L			26	26	12.2	712	97.1	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-088	55215-17-3	pg/L	64	14000	26	0				0	0		
PCB-089	73575-57-2	pg/L	64	14000	26	0				0	0		
PCB-090/101/113	PCB-90/101/113	pg/L			26	26	16.7	1120	167	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-091	68194-05-8	pg/L	64	14000	26	17	6.61	132	41.2	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-092	52663-61-3	pg/L	64	14000	26	21	5.53	222	53.1	7	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-093/100	PCB-93/100	pg/L			26	1	13.9	13.9	13.9	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-094	73575-55-0	pg/L	64	14000	26	1	5.96	5.96	5.96	0	0	23B-0090-PLW	0.6 - 0.6 ft
PCB-095	38379-99-6	pg/L	64	14000	26	26	11.9	744	151	14	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-096	73575-54-9	pg/L	64	14000	26	8	1.74	5.77	2.92	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-098	60233-25-2	pg/L	64	14000	26	0				0	0		
PCB-099	38380-01-7	pg/L	64	14000	26	26	4.39	467	62.2	13	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-102	68194-06-9	pg/L	64	14000	26	8	6.61	35	12.2	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-103	60145-21-3	pg/L	64	14000	26	4	4.32	8.24	6.49	0	0	23B-0090-PLW	0.6 - 0.6 ft
PCB-104	56558-16-8	pg/L	64	14000	26	0				0	0		
PCB-105	32598-14-4	pg/L	64	14000	26	26	3.75	424	33	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-106	70424-69-0	pg/L	64	14000	26	0				0	0		
PCB-107	70424-68-9	pg/L	64	14000	26	13	6.46	69.7	14.5	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-108/124	PCB-108/124	pg/L			26	11	4.26	43	9.75	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-110	38380-03-9	pg/L	64	14000	26	26	9.89	1220	169	15	0	23B-0074-PLW	0.45 - 0.45 ft

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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-111	39635-32-0	pg/L	64	14000	26	0				0	0		
PCB-112	74472-36-9	pg/L	64	14000	26	0				0	0		
PCB-114	74472-37-0	pg/L	64	14000	26	1	22.8	22.8	22.8	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-115	74472-38-1	pg/L	64	14000	26	3	2.6	12.6	5.97	0	0	23B-0083-PLW	2.65 - 2.65 ft
PCB-117	68194-11-6	pg/L	64	14000	26	8	5.53	31.7	10.3	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-118	31508-00-6	pg/L	64	14000	26	26	8.76	956	99.2	14	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-120	68194-12-7	pg/L	64	14000	26	0				0	0		
PCB-121	56558-18-0	pg/L	64	14000	26	0				0	0		
PCB-122	76842-07-4	pg/L	64	14000	26	1	17.3	17.3	17.3	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-123	65510-44-3	pg/L	64	14000	26	1	19.6	19.6	19.6	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-126	57465-28-8	pg/L	1.2	14000	26	0				0	0		
PCB-127	39635-33-1	pg/L	64	14000	26	0				0	0		
PCB-128/166	PCB-128/166	pg/L			26	22	3.26	293	32.4	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-129/138/163	PCB-129/138/163	pg/L			26	26	14.1	1740	181	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-130	52663-66-8	pg/L	64	14000	26	16	4.57	117	18.2	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-131	61798-70-7	pg/L	64	14000	26	1	18	18	18	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-132	38380-05-1	pg/L	64	14000	26	24	6.42	525	58.5	4	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-133	35694-04-3	pg/L	64	14000	26	2	2.83	18.3	10.6	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-134	52704-70-8	pg/L	64	14000	26	14	6.52	94	17.1	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-135/151	PCB-135/151	pg/L			26	25	5.31	387	43.9	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-136	38411-22-2	pg/L	64	14000	26	21	2.81	159	22.5	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-137	35694-06-5	pg/L	64	14000	26	16	4.64	96.5	13.9	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-139/140	PCB-139/140	pg/L			26	6	3.23	32.5	8.87	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-141	52712-04-6	pg/L	64	14000	26	25	3.87	248	25.4	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-142	41411-61-4	pg/L	64	14000	26	0				0	0		
PCB-143	68194-15-0	pg/L	64	14000	26	1	9.32	9.32	9.32	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-144	68194-14-9	pg/L	64	14000	26	12	4.13	60.1	10.1	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-145	74472-40-5	pg/L	64	14000	26	0				0	0		
PCB-146	51908-16-8	pg/L	64	14000	26	23	2.21	182	21.3	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-147/149	PCB-147/149	pg/L			26	26	14	969	108	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-148	74472-41-6	pg/L	64	14000	26	0				0	0		
PCB-150	68194-08-1	pg/L	64	14000	26	0				0	0		
PCB-152	68194-09-2	pg/L	64	14000	26	0				0	0		
PCB-153/168	PCB-153/168	pg/L			26	26	18	1200	128	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-154	60145-22-4	pg/L	64	14000	26	5	1.86	18	5.93	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-155	33979-03-2	pg/L	64	14000	26	0				0	0		
PCB-156/157	PCB-156/157	pg/L			26	20	3.16	187	20.8	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-158	74472-42-7	pg/L	64	14000	26	21	2.9	167	19.2	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-159	39635-35-3	pg/L	64	14000	26	1	10.2	10.2	10.2	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-160	41411-62-5	pg/L	64	14000	26	0				0	0		
PCB-161	74472-43-8	pg/L	64	14000	26	0				0	0		
PCB-162	39635-34-2	pg/L	64	14000	26	1	44.1	44.1	44.1	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-164	74472-45-0	pg/L	64	14000	26	17	3.27	101	14.7	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-165	74472-46-1	pg/L	64	14000	26	0				0	0		
PCB-167	52663-72-6	pg/L	64	14000	26	13	4.03	66.7	11.8	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-169	32774-16-6	pg/L	4	14000	26	0				0	0		
PCB-170	35065-30-6	pg/L	64	14000	26	21	7.12	375	32.9	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-171/173	PCB-171/173	pg/L			26	4	6.6	105	32.2	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-172	52663-74-8	pg/L	64	14000	26	1	60.6	60.6	60.6	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-174	38411-25-5	pg/L	64	14000	26	20	5.01	304	26.4	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-175	40186-70-7	pg/L	64	14000	26	1	12.9	12.9	12.9	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-176	52663-65-7	pg/L	64	14000	26	3	2.93	41.6	16.1	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-177	52663-70-4	pg/L	64	14000	26	13	3.48	170	20.4	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-178	52663-67-9	pg/L	64	14000	26	3	2.78	78.1	29.2	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-179	52663-64-6	pg/L	64	14000	26	18	2.87	123	12.1	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-180/193	PCB-180/193	pg/L			26	26	13	720	55.2	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-181	74472-47-2	pg/L	64	14000	26	0				0	0		
PCB-182	60145-23-5	pg/L	64	14000	26	0				0	0		
PCB-183	52663-69-1	pg/L	64	14000	26	17	4.72	194	19.8	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-184	74472-48-3	pg/L	64	14000	26	0				0	0		
PCB-185	52712-05-7	pg/L	64	14000	26	1	39	39	39	0	0	23B-0074-PLW	0.45 - 0.45 ft

Table 20
Surface Water Analytical Results Statistics - Reference Areas
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
PCB-186	74472-49-4	pg/L	64	14000	26	0				0	0		
PCB-187	52663-68-0	pg/L	64	14000	26	24	4.62	390	29	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-188	74487-85-7	pg/L	64	14000	26	0				0	0		
PCB-189	39635-31-9	pg/L	64	14000	26	1	16.3	16.3	16.3	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-190	41411-64-7	pg/L	64	14000	26	1	78.8	78.8	78.8	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-191	74472-50-7	pg/L	64	14000	26	1	10.6	10.6	10.6	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-192	74472-51-8	pg/L	64	14000	26	0				0	0		
PCB-194	35694-08-7	pg/L	64	14000	26	22	2.42	192	14.2	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-195	52663-78-2	pg/L	64	14000	26	8	1.8	67.7	10.9	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-196	42740-50-1	pg/L	64	14000	26	8	2.1	110	16.8	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-197	33091-17-7	pg/L	64	14000	26	1	7.15	7.15	7.15	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-198/199	PCB-198/199	pg/L			26	24	2.66	244	16.5	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-200	52663-73-7	pg/L	64	14000	26	2	0.815	23.4	12.1	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-201	40186-71-8	pg/L	64	14000	26	1	30.6	30.6	30.6	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-202	2136-99-4	pg/L	64	14000	26	10	1.41	43	6.6	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-203	52663-76-0	pg/L	64	14000	26	17	1.99	137	12.3	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-204	74472-52-9	pg/L	64	14000	26	0				0	0		
PCB-205	74472-53-0	pg/L	64	14000	26	1	8.9	8.9	8.9	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-206	40186-72-9	pg/L	64	14000	26	9	9.51	445	63.5	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-207	52663-79-3	pg/L	64	14000	26	1	37.1	37.1	37.1	0	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-208	52663-77-1	pg/L	64	14000	26	11	3.22	170	21.3	1	0	23B-0074-PLW	0.45 - 0.45 ft
PCB-209	2051-24-3	pg/L	64	14000	26	25	3.28	591	37.4	1	0	23B-0074-PLW	0.45 - 0.45 ft
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	64.0	14000	26	25	3.28	591	37.4	1	0	23B-0074-PLW	0.45 - 0.45 ft
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	64.0	14000	26	26	13.6	2720	179	17	0	23B-0074-PLW	0.45 - 0.45 ft
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	64.0	14000	26	26	46.5	6740	690	25	0	23B-0074-PLW	0.45 - 0.45 ft
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	64.0	14000	26	25	3.86	864	51	1	0	23B-0074-PLW	0.45 - 0.45 ft
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	64	14000	26	26	493	21600	3960	26	1	23B-0074-PLW	0.45 - 0.45 ft
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	64.0	14000	26	26	67.6	6850	958	26	0	23B-0074-PLW	0.45 - 0.45 ft
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	64.0	14000	26	26	33.6	1070	536	24	0	23B-0083-PLW	2.65 - 2.65 ft
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	64.0	14000	26	22	2.43	81.3	24.9	1	0	23B-0077-PLW	1.3 - 1.3 ft
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	64.0	14000	26	12	4.59	652	70.2	1	0	23B-0074-PLW	0.45 - 0.45 ft
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	64.0	14000	26	26	76.4	2140	796	26	0	23B-0074-PLW	0.45 - 0.45 ft
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	64.0	14000	26	26	27.4	1360	658	23	0	23B-0090-PLW	0.6 - 0.6 ft
TCL Pesticides													
ALDRIN	309-00-2	ug/L	0.00000077	0.04	26	0				0	0		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	ug/L	0.00036	0.01	26	0				0	0		
ALPHA ENDOSULFAN (ENDOSULFAN I)	959-98-8	ug/L	10	0.056	26	0				0	0		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	ug/L	0.008		26	0				0	0		
BETA ENDOSULFAN (ENDOSULFAN II)	33213-65-9	ug/L	10	0.056	26	0				0	0		
cis-Chlordane (alpha-Chlordane)	5103-71-9	ug/L	0.00031		26	0				0	0		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	ug/L	0.0072		26	0				0	0		
DIELDRIN	60-57-1	ug/L	0.0000012	0.056	26	0				0	0		
ENDOSULFAN SULFATE	1031-07-8	ug/L	11	0.06	26	0				0	0		
ENDRIN	72-20-8	ug/L	0.03	0.036	26	0				0	0		
ENDRIN ALDEHYDE	7421-93-4	ug/L	0.23		26	0				0	0		
ENDRIN KETONE	53494-70-5	ug/L	0.23		26	0				0	0		
GAMMA BHC (LINDANE)	58-89-9	ug/L	0.042	0.11	26	0				0	0		
HEPTACHLOR	76-44-8	ug/L	0.0000059	0.0038	26	0				0	0		
HEPTACHLOR EPOXIDE	1024-57-3	ug/L	0.000032	0.0038	26	0				0	0		
METHOXYCHLOR	72-43-5	ug/L	0.02	0.03	26	0				0	0		
P,P'-DDD (4,4'-DDD)	72-54-8	ug/L	0.00012	0.01	26	0				0	0		
P,P'-DDE (4,4'-DDE)	72-55-9	ug/L	0.000018	0.3	26	0				0	0		
P,P'-DDT (4,4'-DDT)	50-29-3	ug/L	0.00003	0.001	26	0				0	0		
TOXAPHENE	8001-35-2	ug/L	0.0007	0.0002	26	0				0	0		
Trans-Chlordane (Gamma-Chlordane)	5103-74-2	ug/L	0.00031		26	0				0	0		
PFAS													
1H, 1H, 2H, 2H-PERFLUORODECANE SULFONATE (8:2)	39108-34-4	ng/L			26	0				0	0		
2-(N-methyl perfluorooctanesulfonamido) acetic acid	2355-31-9	ng/L			26	0				0	0		
6:2 Fluorotelomer sulfonate	27619-97-2	ng/L			26	5	1.2	14	4.1	0	0	23B-0081-PLW	2.9 - 2.9 ft
Fluorotelomer sulfonic acid (4:2)	757124-72-4	ng/L			26	0				0	0		
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	ng/L			26	0				0	0		

Table 20
Surface Water Analytical Results Statistics - Reference Areas
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Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Perfluorobutanesulfonic acid (PFBS)	375-73-5	ng/L	600	400000	26	26	2.1	3.3	2.9	0	0	23B-0082-PLW 23B-0086-PLW 23B-0087-PLW	3.4 - 3.4 ft 1.2 - 1.2 ft 0.8 - 0.8 ft
Perfluorobutanoic Acid	375-22-4	ng/L	1800	64600	26	26	3.4	6.8	5	0	0	23B-0078-PLW	2.3 - 2.3 ft
Perfluorodecane Sulfonate	335-77-3	ng/L			26	0				0	0		
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	20	660	26	10	0.28	0.42	0.35	0	0	23B-0085-PLW	1.8 - 1.8 ft
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	100	72000	26	0				0	0		
Perfluoroheptane sulfonate	375-92-8	ng/L			26	0				0	0		
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	20	870000	26	26	1.5	2.8	2.2	0	0	23B-0086-PLW 23B-0089-PLW	1.2 - 1.2 ft 2.5 - 2.5 ft
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ng/L	20	5500	26	26	1.6	3.1	2.1	0	0	23B-0084-PLW	1.1 - 1.1 ft
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	990	28800	26	26	3.4	5.3	4	0	0	23B-0089-PLW	2.5 - 2.5 ft
PERFLUORONONANESULFONIC ACID (PFNS)	68259-12-1	ng/L			26	0				0	0		
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	5.9	2080	26	25	0.49	1	0.72	0	0	23B-0081-PLW	2.9 - 2.9 ft
Perfluorooctanesulfonamide	754-91-6	ng/L			26	8	0.31	0.55	0.38	0	0	23B-0075-PLW	0.6 - 0.6 ft
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ng/L	4	75	26	26	3.3	7	4.6	13	0	23B-0088-PLW	1.4 - 1.4 ft
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	6	4400	26	26	4.2	7.4	5.2	5	0	23B-0089-PLW	2.5 - 2.5 ft
PERFLUOROPENTANESULFONIC ACID (PFPeS)	2706-91-4	ng/L			26	18	0.27	0.5	0.35	0	0	23B-0087-PLW	0.8 - 0.8 ft
Perfluoropentanoic Acid (PFPeA)	2706-90-3	ng/L		140000	26	26	3.1	5.9	4.3	0	0	23B-0084-PLW 23B-0085-PLW	1.1 - 1.1 ft 1.8 - 1.8 ft
Perfluorotetradecanoic acid (PFTA)	376-06-7	ng/L	2000		26	1	0.37	0.37	0.37	0	0	23B-0081-PLW	2.9 - 2.9 ft
Perfluorotridecanoic Acid (PFTriA)	72629-94-8	ng/L			26	0				0	0		
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	ng/L	600	49000	26	0				0	0		
TCL SVOCs													
1,2,4,5-TETRACHLOROBENZENE	95-94-3	ug/L	0.017	8.3	26	0				0	0		
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	0.46	22000	26	0				0	0		
1-Methylnaphthalene	90-12-0	ug/L	0.00063	6.1	26	0				0	0		
2,3,4,6-TETRACHLOROPHENOL	58-90-2	ug/L	24	1	26	0				0	0		
2,4,5-TRICHLOROPHENOL	95-95-4	ug/L	120	1.9	26	0				0	0		
2,4,6-TRICHLOROPHENOL	88-06-2	ug/L	1.2	4.9	26	0				0	0		
2,4-DICHLOROPHENOL	120-83-2	ug/L	4.6	11	26	0				0	0		
2,4-DIMETHYLPHENOL	105-67-9	ug/L	36	15	26	0				0	0		
2,4-DINITROPHENOL	51-28-5	ug/L	3.9	71	26	0				0	0		
2,4-DINITROTOLUENE	121-14-2	ug/L	0.049	44	26	0				0	0		
2,6-DINITROTOLUENE	606-20-2	ug/L	0.049	81	26	0				0	0		
2-CHLORONAPHTHALENE	91-58-7	ug/L	75		26	0				0	0		
2-CHLOROPHENOL	95-57-8	ug/L	9.1	18	26	0				0	0		
2-Methylnaphthalene	91-57-6	ug/L	3.6	4.7	26	0				0	0		
2-METHYLPHENOL (O-CRESOL)	95-48-7	ug/L	93	67	26	0				0	0		
2-NITROANILINE	88-74-4	ug/L	19	17	26	0				0	0		
2-NITROPHENOL	88-75-5	ug/L	580	73	26	0				0	0		
3,3'-DICHLOROBENZIDINE	91-94-1	ug/L	0.049	4.5	26	0				0	0		
3-NITROANILINE	99-09-2	ug/L	3.8		26	0				0	0		
4,6-DINITRO-2-METHYLPHENOL	534-52-1	ug/L	0.15		26	0				0	0		
4-BROMOPHENYL PHENYL ETHER	101-55-3	ug/L		1.5	26	0				0	0		
4-CHLORO-3-METHYLPHENOL	59-50-7	ug/L	140	1	26	0				0	0		
4-CHLOROANILINE	106-47-8	ug/L	0.37	0.8	26	0				0	0		
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ug/L			26	0				0	0		
4-METHYLPHENOL (P-CRESOL)	106-44-5	ug/L	37	53	26	0				0	0		
4-Nitroaniline	100-01-6	ug/L	3.8		26	0				0	0		
4-NITROPHENOL	100-02-7	ug/L	580	58	26	0				0	0		
Acenaphthene	83-32-9	ug/L	53	15	26	0				0	0		
ACENAPHTHYLENE	208-96-8	ug/L	53	13	26	0				0	0		
Acetophenone	98-86-2	ug/L	190		26	0				0	0		
ANTHRACENE	120-12-7	ug/L	180	0.02	26	0				0	0		
ATRAZINE	1912-24-9	ug/L	0.3	0.03	26	0				0	0		
BENZALDEHYDE	100-52-7	ug/L	19	143	26	0				0	0		
BENZO(A)ANTHRACENE	56-55-3	ug/L	0.0012	2.2	26	0				0	0		
BENZO(A)PYRENE	50-32-8	ug/L	0.00012	0.06	26	0				0	0		
Benzo(B)Fluoranthene	205-99-2	ug/L	0.0012	0.68	26	0				0	0		
Benzo(G,H,I)Perylene	191-24-2	ug/L	12	0.012	26	0				0	0		

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Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
Benzo(K)Fluoranthene	207-08-9	ug/L	0.012	0.06	26	0				0	0		
BENZYL BUTYL PHTHALATE	85-68-7	ug/L	0.1	23	26	0				0	0		
BIPHENYL (DIPHENYL)	92-52-4	ug/L	0.083	6.5	26	0				0	0		
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ug/L	5.9		26	0				0	0		
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4	ug/L	0.014		26	0				0	0		
BIS(2-CHLOROISOPROPYL) ETHER	108-60-1	ug/L	71		26	0				0	0		
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	ug/L	0.32	8	26	0				0	0		
Caprolactam	105-60-2	ug/L	990		26	0				0	0		
CARBAZOLE	86-74-8	ug/L	29	4	26	0				0	0		
CHRYSENE	218-01-9	ug/L	0.12	2	26	0				0	0		
DIBENZ(A,H)ANTHRACENE	53-70-3	ug/L	0.00012	0.012	26	0				0	0		
Dibenzofuran	132-64-9	ug/L	0.79	4	26	0				0	0		
Diethyl Phthalate	84-66-2	ug/L	600	220	26	0				0	0		
DIMETHYL PHTHALATE	131-11-3	ug/L	1500	1100	26	0				0	0		
Di-N-Butyl Phthalate	84-74-2	ug/L	20	19	26	0				0	0		
DI-N-OCTYLPHTHALATE	117-84-0	ug/L	20	215	26	0				0	0		
FLUORANTHENE	206-44-0	ug/L	20	0.8	26	0				0	0		
FLUORENE	86-73-7	ug/L	29	19	26	0				0	0		
HEXACHLOROBENZENE	118-74-1	ug/L	0.000079	0.15	26	0				0	0		
Hexachlorobutadiene	87-68-3	ug/L	0.01	1	26	0				0	0		
HEXACHLOROCYCLOPENTADIENE	77-47-4	ug/L	0.041	0.45	26	0				0	0		
HEXACHLOROETHANE	67-72-1	ug/L	0.1	12	26	0				0	0		
INDENO(1,2,3-C,D)PYRENE	193-39-5	ug/L	0.0012	0.012	26	0				0	0		
ISOPHORONE	78-59-1	ug/L	34	920	26	0				0	0		
Naphthalene	91-20-3	ug/L	0.12	21	26	0				0	0		
NITROBENZENE	98-95-3	ug/L	0.14	230	26	0				0	0		
N-NITROSODI-N-PROPYLAMINE	621-64-7	ug/L	0.005		26	0				0	0		
N-NITROSODIPHENYLAMINE	86-30-6	ug/L	3.3	25	26	0				0	0		
PENTACHLOROPHENOL	87-86-5	ug/L	0.03	6.7	26	0				0	0		
PHENANTHRENE	85-01-8	ug/L	180	2.3	26	0				0	0		
PHENOL	108-95-2	ug/L	580	160	26	7	1.1	2.5	1.6	0	0	23B-0084-PLW	1.1 - 1.1 ft
PYRENE	129-00-0	ug/L	12	4.6	26	0				0	0		
TCL VOCs													
1,1,1-Trichloroethane (TCA)	71-55-6	ug/L	200	76	26	0				0	0		
1,1,2,2-TETRACHLOROETHANE	79-34-5	ug/L	0.076	200	26	0				0	0		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	ug/L	1000		26	0				0	0		
1,1,2-Trichloroethane	79-00-5	ug/L	0.041	730	26	0				0	0		
1,1-Dichloroethane	75-34-3	ug/L	2.8	410	26	0				0	0		
1,1-Dichloroethene	75-35-4	ug/L	7	130	26	0				0	0		
1,2,3-Trichlorobenzene	87-61-6	ug/L	0.7	8	26	0				0	0		
1,2,3-TRICHLOROPROPANE	96-18-4	ug/L	0.00075		26	0				0	0		
1,2,4-TRICHLOROBENZENE	120-82-1	ug/L	0.071	130	26	0				0	0		
1,2,4-Trimethylbenzene	95-63-6	ug/L	5.6	15	26	0				0	0		
1,2-Dibromo-3-Chloropropane	96-12-8	ug/L	0.00033		26	0				0	0		
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	ug/L	0.0075		26	0				0	0		
1,2-Dichlorobenzene	95-50-1	ug/L	30	23	26	0				0	0		
1,2-Dichloroethane	107-06-2	ug/L	0.17	2000	26	0				0	0		
1,2-DICHLOROPROPANE	78-87-5	ug/L	0.82	520	26	0				0	0		
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	ug/L	6	26	26	0				0	0		
1,3-DICHLOROBENZENE	541-73-1	ug/L	0.48	22	26	0				0	0		
1,4-DICHLOROBENZENE	106-46-7	ug/L	0.48	9.4	26	0				0	0		
2-HEXANONE	591-78-6	ug/L	3.8	99	26	0				0	0		
ACETONE	67-64-1	ug/L	1800	1700	26	0				0	0		
Benzene	71-43-2	ug/L	0.46	160	26	0				0	0		
BROMOCHLOROMETHANE	74-97-5	ug/L	8.3		26	0				0	0		
BROMODICHLOROMETHANE	75-27-4	ug/L	0.13	340	26	0				0	0		
BROMOFORM	75-25-2	ug/L	3.3	230	26	0				0	0		
BROMOMETHANE	74-83-9	ug/L	0.75	16	26	0				0	0		
CARBON DISULFIDE	75-15-0	ug/L	81	15	26	0				0	0		
CARBON TETRACHLORIDE	56-23-5	ug/L	0.4	77	26	0				0	0		
Chlorobenzene	108-90-7	ug/L	7.8	25	26	0				0	0		

Table 20
Surface Water Analytical Results Statistics - Reference Areas
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Human Health PAL	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Human Health PAL	Number of Samples Above Ecological PAL	Location of Max. Detection	Depth of Max. Detection
CHLOROETHANE	75-00-3	ug/L	830		26	0				0	0		
Chloroform	67-66-3	ug/L	0.22	140	26	0				0	0		
CHLOROMETHANE	74-87-3	ug/L	19		26	1	0.77	0.77	0.77	0	0	23B-0088-PLW	1.4 - 1.4 ft
CIS-1,2-DICHLOROETHYLENE	156-59-2	ug/L	2.5	620	26	0				0	0		
cis-1,3-Dichloropropene	10061-01-5	ug/L	0.27		26	0				0	0		
Cyclohexane	110-82-7	ug/L	1300	158	26	0				0	0		
DIBROMOCHLOROMETHANE	124-48-1	ug/L	0.8	320	26	0				0	0		
Dichlorodifluoromethane	75-71-8	ug/L	20		26	0				0	0		
Ethylbenzene	100-41-4	ug/L	1.5	61	26	0				0	0		
Isopropylbenzene (Cumene)	98-82-8	ug/L	45	4.8	26	0				0	0		
m,p-Xylene	179601-23-1	ug/L	19		26	0				0	0		
METHYL ACETATE	79-20-9	ug/L	2000		26	0				0	0		
Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/L	560	22000	26	0				0	0		
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1	ug/L	630	170	26	0				0	0		
Methylcyclohexane	108-87-2	ug/L	20	52	26	0				0	0		
Methylene Chloride	75-09-2	ug/L	5	1500	26	0				0	0		
o-Xylene (1,2-Dimethylbenzene)	95-47-6	ug/L	19		26	0				0	0		
Styrene	100-42-5	ug/L	100	32	26	0				0	0		
TERT-BUTYL METHYL ETHER	1634-04-4	ug/L	14	730	26	0				0	0		
Tetrachloroethylene (PCE)	127-18-4	ug/L	4.1	53	26	0				0	0		
Toluene	108-88-3	ug/L	57	62	26	0				0	0		
Trans-1,2-Dichloroethylene	156-60-5	ug/L	6.8	558	26	0				0	0		
Trans-1,3-Dichloropropene	10061-02-6	ug/L	0.27		26	0				0	0		
Trichloroethylene (TCE)	79-01-6	ug/L	0.28	220	26	0				0	0		
Trichlorofluoromethane	75-69-4	ug/L	520		26	0				0	0		
Vinyl Chloride	75-01-4	ug/L	0.019	930	26	0				0	0		

Notes:
(a) Totals for PCDD/DF and PCB homolog groups were calculated by summing the detected congeners in each group after data validation was completed; if no congeners in a homolog group were detected, the maximum reporting detection limit of any member congener in that group was used.
(b) Sum of detected congeners.
(c) The number of samples shown and the calculation of summary statistics treated the parent and field duplicate as individual samples.
Analytes:
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxins/furans
PFAS - per- and polyfluoroalkyl substances
SVOCs - semi-volatile organic compounds
TAL - target analyte list
TCL - target compound list
VOCs - volatile organic compounds
Units:
ng/L - nanogram per liter
pg/L - picogram per liter
ug/L - microgram per liter
Project Action Limits (PALs):
The human health PALs are the lower of the Massachusetts surface water quality standards, human health criteria for drinking water plus fish and shellfish consumption (MassDEP, 2022), Massachusetts maximum contaminant levels (MassDEP, 2020), National Recommended Water Quality Criteria for human health for consumption of water and organisms (USEPA, 2024d), USEPA maximum contaminant levels (USEPA, 2024b), and USEPA regional screening levels for tap water based on a target hazard quotient of 0.1 and a target risk level of 1E-06 (USEPA, 2024a).
The ecological PALs are the lowest of the Massachusetts surface water quality standards, aquatic life criterion continuous concentration values for freshwater (MassDEP, 2022), National Recommended Water Quality Criteria aquatic life criterion continuous concentration values for freshwater (USEPA, 2024c), and USEPA Region 4 freshwater chronic screening values (USEPA, 2018).
Yellow highlighted values represent detection of the compound at a concentration above the human health PAL; underlined values represent detection of the compound at a concentration above the ecological PAL.
Comparison of the data to the PALs is for informational purposes only and is not an indication of risk.

Table 21
Pore Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

			Location	23C-0008-PLP	23C-0008-PLP	23C-0008-PLP	23C-0008-PLP	23C-0023-PLP	23C-0023-PLP	23C-0029-PLP	23C-0029-PLP	23C-0055-PLP	23C-0055-PLP	23C-0055-PLP	23C-0059-PLP	23C-0059-PLP
			Sample Name	23C-0008-PLP-AS-F	23C-0008-PLP-AS-T	23C-0008-PLP-AT-F	23C-0008-PLP-AT-T	23C-0023-PLP-AS-F	23C-0023-PLP-AS-T	23C-0029-PLP-AS-F	23C-0029-PLP-AS-T	23C-0055-PLP-AS-F	23C-0055-PLP-AS-T	23C-0055-PLP-AT-T	23C-0059-PLP-AS-F	23C-0059-PLP-AS-T
			Sample Date	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/25/2023	10/25/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/27/2023	10/27/2023
			Sample Type	N	N	FD	FD	N	N	N	N	N	N	FD	N	N
			Depth	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft
Analyte	CAS Number	Units	Ecological PAL													
PCDD/F																
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	3.1	-	10.4 JN	-	-	-	55.4	-	< 1.09 U	-	35.7	< 7.23 UJ	-	41.1
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	0.31	-	< 1.72 U	-	-	-	2.72 JN	-	< 1.11 U	-	< 1.39 U	< 4.73 UJ	-	< 1.6 U
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	0.062	-	< 2.22 U	-	-	-	< 1.99 U	-	< 1.95 U	-	< 1.58 U	< 5.96 UJ	-	3.65 JN
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	0.031	-	< 1.57 U	-	-	-	9.34 J	-	< 1.29 U	-	< 1.32 U	< 4.12 UJ	-	3.68 JN
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	0.31	-	< 2.3 U	-	-	-	< 2.09 U	-	< 2.07 U	-	< 1.69 U	< 6.77 UJ	-	5.34 J
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	0.031	-	< 1.63 U	-	-	-	4.56 J	-	< 1.12 U	-	< 1.28 U	< 4.28 UJ	-	3.75 JN
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	0.031	-	< 2.13 U	-	-	-	< 1.97 U	-	< 2 U	-	< 1.42 U	< 6.07 UJ	-	3.81 JN
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	0.031	-	< 2.14 U	-	-	-	< 1.82 U	-	< 1.29 U	-	< 1.78 U	< 5.79 UJ	-	3.65 J
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.0031	-	< 2.61 U	-	-	-	< 1.8 U	-	< 1.65 U	-	< 1.83 U	< 7.71 UJ	-	< 1.75 U
1,2,3,7,8-PeCDF	57117-41-6	pg/L	0.10333	-	< 2.07 U	-	-	-	< 2.66 U	-	< 1.46 U	-	< 1.27 U	< 4.66 UJ	-	4.14 J
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	0.31	-	7.44 JN	-	-	-	26.7 J	-	2.23 JN	-	13.8 J	< 3.91 UJ	-	15.6 J
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	0.031	-	< 1.84 U	-	-	-	3.15 J	-	< 1.4 U	-	< 1.5 U	< 4.56 UJ	-	< 1.77 U
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.010333	-	< 1.99 U	-	-	-	15.3 J	-	< 1.53 U	-	< 1.48 U	< 4.65 UJ	-	3.97 JN
2,3,7,8-TCDD	1746-01-6	pg/L	0.0031	-	< 11.62 UJ	-	-	-	< 11.12 UJ	-	< 11.24 UJ	-	< 10.42 UJ	< 12 UJ	-	< 10.64 UJ
2,3,7,8-TCDF	51207-31-9	pg/L	0.031	-	< 1.94 U	-	-	-	3.67 JN	-	< 1.01 U	-	< 1.28 U	< 4.93 UJ	-	< 1.24 U
OCDD	3268-87-9	pg/L	31	-	58.9	-	-	-	489	-	18 J	-	279 J	80.7 J	-	229
OCDF	39001-02-0	pg/L	31	-	5.28 JN	-	-	-	28.3 J	-	< 2.19 U	-	10.6 JN	< 11.9 UJ	-	17.1 J
Total HpCDD (a)	RA_Total_HpCDD	pg/L		-	10.4	-	-	-	55.4	-	< 1.09 U	-	35.7	< 7.23 U	-	41.1
Total HpCDF (a)	RA_Total_HpCDF	pg/L		-	7.44	-	-	-	29.4	-	2.23 U	-	13.8	< 4.73 U	-	15.6
Total HxCDD (a)	RA_Total_HxCDD	pg/L		-	< 2.3 U	-	-	-	< 2.09 U	-	< 2.07 U	-	< 1.69 U	< 6.77 U	-	12.8
Total HxCDF (a)	RA_Total_HxCDF	pg/L		-	< 2.14 U	-	-	-	17.1	-	< 1.4 U	-	< 1.78 U	< 5.79 U	-	11.1
Total PeCDD (a)	RA_Total_PeCDD	pg/L		-	< 2.61 U	-	-	-	< 1.8 U	-	< 1.65 U	-	< 1.83 U	< 7.71 U	-	< 1.75 U
Total PeCDF (a)	RA_Total_PeCDF	pg/L		-	< 2.07 U	-	-	-	15.3	-	< 1.53 U	-	< 1.48 U	< 4.66 U	-	8.11 U
Total TCDD (a)	RA_Total_TCDD	pg/L		-	< 11.62 U	-	-	-	< 11.12 U	-	< 11.24 U	-	< 10.42 U	< 12 U	-	< 10.64 U
Total TCDF (a)	RA_Total_TCDF	pg/L		-	< 1.94 U	-	-	-	3.67	-	< 1.01 U	-	< 1.28 U	< 4.93 U	-	< 1.24 U
PCB Congeners																
PCB-001	2051-60-7	pg/L	14000	-	21900	-	-	-	30400	-	1210	-	1340 J	662 J	-	151000 J
PCB-002	2051-61-8	pg/L	14000	-	214	-	-	-	1080	-	8.23 JN	-	118 J	58 J	-	2040
PCB-003	2051-62-9	pg/L	14000	-	2880	-	-	-	19700	-	130	-	2030 J	1000 J	-	31700
PCB-004	13029-08-8	pg/L	14000	-	313000 J	-	-	-	198000 J	-	2650 J	-	12000 J	2090 J	-	890000 J
PCB-005	16605-91-7	pg/L	14000	-	301	-	-	-	< 52.3 U	-	< 9.54 U	-	61.1 J	< 6.72 UJ	-	< 59 U
PCB-006	25569-80-6	pg/L	14000	-	98700 J	-	-	-	55100 J	-	151	-	5760 J	1650 J	-	41500
PCB-007	33284-50-3	pg/L	14000	-	15200	-	-	-	8130	-	< 9.02 U	-	836 J	267 J	-	1110
PCB-008	34883-43-7	pg/L	14000	-	182000 J	-	-	-	339000 J	-	450	-	11500 J	4040 J	-	339000 J
PCB-009	34883-39-1	pg/L	14000	-	14100	-	-	-	2860	-	13.6 JN	-	462 J	148 J	-	9880
PCB-010	33146-45-1	pg/L	14000	-	5410	-	-	-	36100	-	46600 J	-	2110	1980	-	280000 J
PCB-011	2050-67-1	pg/L	14000	-	5100 J	-	-	-	9610 J	-	695 J	-	804 J	1420 J	-	6270
PCB-012/013	PCB-12/13	pg/L		-	13000	-	-	-	30000	-	42.8 JN	-	5480 J	2040 J	-	10200
PCB-014	34883-41-5	pg/L	14000	-	< 53.6 U	-	-	-	< 51.5 U	-	< 9.4 U	-	< 12.2 U	< 6.34 U	-	120
PCB-015	2050-68-2	pg/L	14000	-	68600 J	-	-	-	233000 J	-	1710 J	-	28000 J	21800 J	-	71100 J
PCB-016	38444-78-9	pg/L	14000	-	28200 J	-	-	-	17300 J	-	98.5 J	-	4920 J	915 J	-	2980
PCB-017	37680-66-3	pg/L	14000	-	201000 J	-	-	-	486000 J	-	2520	-	80400 J	42100 J	-	222000 J
PCB-018/030	PCB-18/30	pg/L		-	173000 J	-	-	-	135000 J	-	3090	-	35500	28900 J	-	46100
PCB-019	38444-73-4	pg/L	14000	-	73900 J	-	-	-	522000 J	-	13900 J	-	24700 J	24400 J	-	443000 J
PCB-020/028	PCB-20/28	pg/L		-	104000 J	-	-	-	1340000 J	-	1260	-	133000 J	105000 J	-	13400
PCB-021/033	PCB-21/33	pg/L		-	1160	-	-	-	13300	-	103 J+	-	928 J	594 J	-	1240
PCB-022	38444-85-8	pg/L	14000	-	16800	-	-	-	104000 J	-	76.2 J+	-	8590 J	4430 J	-	5020
PCB-023	55720-44-0	pg/L	14000	-	122	-	-	-	565	-	< 20.6 U	-	< 47.5 U	< 37.6 UJ	-	135
PCB-024	55702-45-9	pg/L	14000	-	1170	-	-	-	5350	-	81.2	-	739 J	528 J	-	1040
PCB-025	55712-37-3	pg/L	14000	-	60400 J	-	-	-	178000 J	-	120	-	41700 J	29600 J	-	14100
PCB-026/029	PCB-26/29	pg/L		-	124000 J	-	-	-	360000 J	-	659	-	52500 J	26600 J	-	61200
PCB-027	38444-76-7	pg/L	14000	-	50800 J	-	-	-	454000 J	-	2170	-	16500	14500 J	-	151000 J
PCB-031	16606-02-3	pg/L	14000	-	144000 J	-	-	-	306000 J	-	1200	-	81700 J	65700 J	-	127000 J
PCB-032	38444-77-8	pg/L	14000	-	101000 J	-	-	-	1040000 J	-	3830	-	46500 J	45000 J	-	307000 J
PCB-034	37680-68-5	pg/L	14000	-	2560	-	-	-	6380	-	< 21.4 U	-	1510 J	675 J	-	5440
PCB-035	37680-69-6	pg/L	14000	-	< 81.5 U	-	-	-	2280	-	< 19.7 U	-	106	80.9 J	-	74.3 JN
PCB-036	38444-87-0	pg/L	14000	-	< 72.9 U	-	-	-	1030	-	< 17.6 U	-	< 39.3 U	< 30.6 UJ	-	177
PCB-037	38444-90-5	pg/L	14000	-	2330 J	-	-	-	90800 J	-	229 J	-	6460 J	3840 J	-	2390
PCB-038	53555-66-1	pg/L	14000	-	< 80 U	-	-	-	1400	-	< 19.3 U	-	65 J	42.2 J	-	< 38.3 U
PCB-039	38444-88-1	pg/L	14000	-	254 JN	-	-	-	7910	-	< 19.5 U	-	267 J	191 J	-	965
PCB-040/071	PCB-40/71	pg/L		-	30500	-	-	-	720000 J	-	768	-	29500 J	20400 J	-	21900
PCB-041	52663-59-9	pg/L	14000	-	235	-	-	-	72200 J	-	69.5 JN	-	846 J	474 J	-	< 7.96 U
PCB-042	36559-22-5	pg/L	14000	-	16600	-	-	-	396000 J	-	385	-	17100 J	12100 J	-	7190
PCB-043	70362-46-8	pg/L	14000	-	3860	-	-	-	30500	-	64.7 JN	-	3280 J	2200 J	-	1860
PCB-044/047/065	PCB-44/47/65	pg/L		-	69900	-	-	-	1520000 J	-	1670	-	58800 J	41500 J	-	53800
PCB-045	70362-45-7	pg/L	14000	-	13800	-	-	-	174000 J	-	335	-	9210	9120 J	-	< 6.91 U
PCB-046	41464-47-5	pg/L	14000	-	5430	-	-	-	76600 J	-	168	-	3140	2350 J	-	3300
PCB-048	70362-47-9	pg/L	14000	-	877	-	-	-	101000 J	-	172	-	1280 J	839 J	-	367
PCB-049/069	PCB-49/69	pg/L		-	50500	-	-	-	1020000 J	-	1220	-	43000 J	30200 J	-	46000

Table 21
Pore Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

				Location	23C-0008-PLP	23C-0008-PLP	23C-0008-PLP	23C-0008-PLP	23C-0023-PLP	23C-0023-PLP	23C-0029-PLP	23C-0029-PLP	23C-0055-PLP	23C-0055-PLP	23C-0055-PLP	23C-0059-PLP	23C-0059-PLP
				Sample Name	23C-0008-PLP-AS-F	23C-0008-PLP-AS-T	23C-0008-PLP-AT-F	23C-0008-PLP-AT-T	23C-0023-PLP-AS-F	23C-0023-PLP-AS-T	23C-0029-PLP-AS-F	23C-0029-PLP-AS-T	23C-0055-PLP-AS-F	23C-0055-PLP-AS-T	23C-0055-PLP-AT-T	23C-0059-PLP-AS-F	23C-0059-PLP-AS-T
				Sample Date	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/25/2023	10/25/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/27/2023	10/27/2023
				Sample Type	N	N	FD	FD	N	N	N	N	N	N	FD	N	N
				Depth	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft
Analyte	CAS Number	Units	Ecological PAL														
PCB-050/053	PCB-50/53	pg/L		-	29300	-	-	-	446000 J	-	809	-	11400	8900 J	-	37900
PCB-051	68194-04-7	pg/L	14000	-	8340 J	-	-	-	216000 J	-	300 J	-	6390 J	3790 J	-	29900
PCB-052	35693-99-3	pg/L	14000	-	73200 J	-	-	-	1150000 J	-	1690	-	49800 J	34800 J	-	44300 J
PCB-054	15968-05-5	pg/L	14000	-	1380	-	-	-	16100	-	51.6	-	443	381 J	-	5220
PCB-055	74338-24-2	pg/L	14000	-	81.1	-	-	-	12800	-	14.9	-	382 J	204 J	-	48.6 JN
PCB-056	41464-43-1	pg/L	14000	-	878 J	-	-	-	248000 J	-	141 J	-	2530 J	1430 J	-	374
PCB-057	70424-67-8	pg/L	14000	-	1230	-	-	-	32200	-	15.9	-	1580 J	876 J	-	592
PCB-058	41464-49-7	pg/L	14000	-	54.5	-	-	-	2660	-	< 10.7 U	-	88.1	67.4 J	-	37
PCB-059/062/075	PCB-59/62/75	pg/L		-	6710	-	-	-	172000 J	-	177	-	8130 J	5670 J	-	2300
PCB-060	33025-41-1	pg/L	14000	-	328	-	-	-	118000 J	-	124	-	1460 J	755 J	-	231
PCB-061/070/074/076	PCB-61/70/74/76	pg/L		-	4540	-	-	-	688000 J	-	838	-	11800 J	6790 J	-	3870
PCB-063	74472-34-7	pg/L	14000	-	2610	-	-	-	105000 J	-	55.6	-	4120 J	2430 J	-	2650
PCB-064	52663-58-8	pg/L	14000	-	21200 J	-	-	-	483000 J	-	521 J	-	19500 J	13400 J	-	7220
PCB-066	32598-10-0	pg/L	14000	-	2840 J	-	-	-	500000 J	-	513 J	-	7610 J	4340 J	-	2140
PCB-067	73575-53-8	pg/L	14000	-	337	-	-	-	28800	-	23.4	-	733 J	431 J	-	158
PCB-068	73575-52-7	pg/L	14000	-	657	-	-	-	15200	-	20.3	-	805 J	474 J	-	1560
PCB-072	41464-42-0	pg/L	14000	-	1020	-	-	-	22300	-	24.1	-	1010 J	594 J	-	1890
PCB-073	74338-23-1	pg/L	14000	-	923	-	-	-	13000	-	22.4 JN	-	725 J	246 J	-	1920
PCB-077	32598-13-3	pg/L	14000	-	437	-	-	-	56800 J	-	58	-	1640 J	891 J	-	550
PCB-078	70362-49-1	pg/L	14000	-	< 15.4 U	-	-	-	< 118 U	-	< 12.4 U	-	< 11 U	< 6.13 UJ	-	12.2
PCB-079	41464-48-6	pg/L	14000	-	41.9	-	-	-	3820	-	< 10.3 U	-	98.1 J	46.5 J	-	30.7
PCB-080	33284-52-5	pg/L	14000	-	< 13.7 U	-	-	-	< 106 U	-	< 11.1 U	-	< 10.3 U	< 5.77 UJ	-	< 8.33 U
PCB-081	70362-50-4	pg/L	14000	-	< 14.7 U	-	-	-	2420	-	< 11.9 U	-	44.2 J	20.2 J	-	< 8.7 U
PCB-082	52663-62-4	pg/L	14000	-	1140	-	-	-	89400 J	-	52.5	-	3190 J	1570 J	-	368
PCB-083	60145-20-2	pg/L	14000	-	1750 J	-	-	-	60400 J	-	24.6 JN	-	2360 J	1250 J	-	710
PCB-084	52663-60-2	pg/L	14000	-	7130	-	-	-	226000 J	-	157	-	7770 J	4510 J	-	1680
PCB-085/116	PCB-85/116	pg/L		-	1360	-	-	-	137000 J	-	80.9	-	3900 J	1770 J	-	765
PCB-086/087/097/109/119/125	PCB-86+	pg/L		-	4100	-	-	-	361000 J	-	262	-	8940 J	4890 J	-	2040
PCB-088	55215-17-3	pg/L	14000	-	< 30.7 U	-	-	-	< 982 U	-	< 14.3 U	-	< 50 U	< 18.3 UJ	-	< 24.6 U
PCB-089	73575-57-2	pg/L	14000	-	752	-	-	-	25700	-	12.8 JN	-	1060 J	573 J	-	131
PCB-090/101/113	PCB-90/101/113	pg/L		-	5190	-	-	-	383000 J	-	372	-	8460 J	4500 J	-	3790
PCB-091	68194-05-8	pg/L	14000	-	4340	-	-	-	156000 J	-	93.5	-	5470 J	3270 J	-	3870
PCB-092	52663-61-3	pg/L	14000	-	4520	-	-	-	148000 J	-	106	-	5160 J	2790 J	-	4110
PCB-093/100	PCB-93/100	pg/L		-	766	-	-	-	23100	-	< 13.4 U	-	784 J	400 J	-	909
PCB-094	73575-55-0	pg/L	14000	-	530	-	-	-	17500	-	< 14.8 U	-	474 J	288 J	-	942
PCB-095	38379-99-6	pg/L	14000	-	16400	-	-	-	517000 J	-	416	-	15400 J	9200 J	-	2910
PCB-096	73575-54-9	pg/L	14000	-	629	-	-	-	16800	-	7.37 JN	-	569 J	330 J	-	257
PCB-098	60233-25-2	pg/L	14000	-	172	-	-	-	< 746 U	-	< 10.9 U	-	< 37.7 UJ	50.1 J	-	119
PCB-099	38380-01-7	pg/L	14000	-	2370	-	-	-	207000 J	-	156	-	4950 J	2740 J	-	2320
PCB-102	68194-06-9	pg/L	14000	-	1810	-	-	-	65800 J	-	36.8	-	2170 J	1220 J	-	1220
PCB-103	60145-21-3	pg/L	14000	-	411	-	-	-	10800	-	< 12.2 U	-	350 J	191 J	-	637
PCB-104	56558-16-8	pg/L	14000	-	8.3 JN	-	-	-	340	-	< 4.84 U	-	9.25 J	5.68 JN	-	62.6
PCB-105	32598-14-4	pg/L	14000	-	919	-	-	-	153000 J	-	112	-	2930 J	1500 J	-	503
PCB-106	70424-69-0	pg/L	14000	-	< 18.9 U	-	-	-	1120	-	< 8.79 U	-	41.4 J	19.1 J	-	< 14.4 U
PCB-107	70424-68-9	pg/L	14000	-	315	-	-	-	28100	-	21.5	-	822 J	360 J	-	291
PCB-108/124	PCB-108/124	pg/L		-	69.3 JN	-	-	-	12100	-	< 9.54 U	-	274 J	128 J	-	49.3
PCB-110	38380-03-9	pg/L	14000	-	15400	-	-	-	632000 J	-	414	-	22200 J	10400 J	-	7020
PCB-111	39635-32-0	pg/L	14000	-	< 20.4 U	-	-	-	< 653 U	-	< 9.51 U	-	40.2 J	< 12.2 UJ	-	34
PCB-112	74472-36-9	pg/L	14000	-	123	-	-	-	5210	-	< 8.25 U	-	189 J	89.6 J	-	115
PCB-114	74472-37-0	pg/L	14000	-	74.2	-	-	-	12900	-	< 8.86 U	-	370 J	175 J	-	50.9 JN
PCB-115	74472-38-1	pg/L	14000	-	< 17 U	-	-	-	< 544 U	-	< 7.92 U	-	< 25.4 U	< 11.5 UJ	-	< 12.5 U
PCB-117	68194-11-6	pg/L	14000	-	751	-	-	-	24600	-	12.8 JN	-	666 J	395 J	-	1450
PCB-118	31508-00-6	pg/L	14000	-	2250	-	-	-	268000 J	-	234	-	5220 J	2590 J	-	1720
PCB-120	68194-12-7	pg/L	14000	-	< 16.6 U	-	-	-	1230	-	< 7.74 U	-	47.2 J	19.7 JN	-	35.6
PCB-121	56558-18-0	pg/L	14000	-	< 18.6 U	-	-	-	< 594 U	-	< 8.66 U	-	< 28.8 U	< 11.5 UJ	-	14.1 JN
PCB-122	76842-07-4	pg/L	14000	-	28 JN	-	-	-	7660	-	< 11.2 U	-	156	73.5 J	-	< 19.4 U
PCB-123	65510-44-3	pg/L	14000	-	29.8	-	-	-	7870	-	< 8.95 U	-	194 J	91 J	-	39.7
PCB-126	57465-28-8	pg/L	14000	-	< 7.56 U	-	-	-	1270	-	< 6.84 U	-	33.6 JN	18.5 J	-	7.61 J
PCB-127	39635-33-1	pg/L	14000	-	< 19.3 U	-	-	-	< 639 U	-	< 9.61 U	-	< 29.5 U	< 11.3 UJ	-	< 15.7 U
PCB-128/166	PCB-128/166	pg/L		-	539 J	-	-	-	25300 J	-	27 J	-	1130 J	509 J	-	513
PCB-129/138/163	PCB-129/138/163	pg/L		-	3150	-	-	-	142000 J	-	179	-	5730 J	2650 J	-	3420
PCB-130	52663-66-8	pg/L	14000	-	401	-	-	-	15500	-	12.1 JN	-	658 J	293 J	-	436
PCB-131	61798-70-7	pg/L	14000	-	47.5 JN	-	-	-	2960	-	< 2.84 U	-	127 J	58 JN	-	43.2
PCB-132	38380-05-1	pg/L	14000	-	1670 J	-	-	-	62300 J	-	59.8 J	-	2760 J	1260 J	-	1370
PCB-133	35694-04-3	pg/L	14000	-	112	-	-	-	3900	-	< 2.5 U	-	149 J	68.5 J	-	189
PCB-134	52704-70-8	pg/L	14000	-	344	-	-	-	12400	-	12.5	-	544 J	257 J	-	310
PCB-135/151	PCB-135/151	pg/L		-	1730	-	-	-	53900	-	44.7 JN	-	2280 J	1130 J	-	1820
PCB-136	38411-22-2	pg/L	14000	-	647	-	-	-	22300	-	22.3 JN	-	993 J	476 J	-	485
PCB-137	35694-06-5	pg/L	14000	-	151 J	-	-	-	9500 J	-	10.8 JN	-	332 J	168 J	-	185
PCB-139/140	PCB-139/140	pg/L		-	110	-	-	-	4550	-	< 2.48 U	-	187 J	84.4 JN	-	134

Table 21
Pore Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

			Location	23C-0008-PLP	23C-0008-PLP	23C-0008-PLP	23C-0008-PLP	23C-0023-PLP	23C-0023-PLP	23C-0029-PLP	23C-0029-PLP	23C-0055-PLP	23C-0055-PLP	23C-0055-PLP	23C-0059-PLP	23C-0059-PLP
			Sample Name	23C-0008-PLP-AS-F	23C-0008-PLP-AS-T	23C-0008-PLP-AT-F	23C-0008-PLP-AT-T	23C-0023-PLP-AS-F	23C-0023-PLP-AS-T	23C-0029-PLP-AS-F	23C-0029-PLP-AS-T	23C-0055-PLP-AS-F	23C-0055-PLP-AS-T	23C-0055-PLP-AT-T	23C-0059-PLP-AS-F	23C-0059-PLP-AS-T
			Sample Date	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/25/2023	10/25/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/27/2023	10/27/2023
			Sample Type	N	N	FD	FD	N	N	N	N	N	N	FD	N	N
			Depth	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft
Analyte	CAS Number	Units	Ecological PAL													
PCB-141	52712-04-6	pg/L	14000	-	303	-	-	-	18700	-	26.2 JN	-	802 J	369 J	-	275
PCB-142	41411-61-4	pg/L	14000	-	< 3.44 U	-	-	-	214	-	< 2.86 U	-	8.61 J	< 1.71 UJ	-	< 2.98 U
PCB-143	68194-15-0	pg/L	14000	-	24.3	-	-	-	1150	-	< 2.8 U	-	39.3	18 JN	-	29.5
PCB-144	68194-14-9	pg/L	14000	-	133	-	-	-	6780	-	< 2.54 U	-	316 J	139 J	-	110
PCB-145	74472-40-5	pg/L	14000	-	< 2 U	-	-	-	327	-	< 1.8 U	-	14.6	4.22 JN	-	7.81 J
PCB-146	51908-16-8	pg/L	14000	-	678	-	-	-	19700	-	15.7 JN	-	830	403 J	-	798
PCB-147/149	PCB-147/149	pg/L		-	3290	-	-	-	113000 J	-	120	-	4660 J	2320 J	-	3260
PCB-148	74472-41-6	pg/L	14000	-	13.9 JN	-	-	-	457	-	< 2.5 U	-	16.6	6.14 J	-	39.7
PCB-150	68194-08-1	pg/L	14000	-	10 J	-	-	-	414	-	< 1.87 U	-	13.4	5.02 JN	-	30.5
PCB-152	68194-09-2	pg/L	14000	-	15.4 JN	-	-	-	702	-	< 1.73 U	-	22.8 JN	8.2 JN	-	42.7
PCB-153/168	PCB-153/168	pg/L		-	1910	-	-	-	77600	-	122	-	3140 J	1520 J	-	2060
PCB-154	60145-22-4	pg/L	14000	-	137	-	-	-	3760	-	< 2.35 U	-	121 J	50.3 J	-	213 JN
PCB-155	33979-03-2	pg/L	14000	-	< 1.84 U	-	-	-	4.44 JN	-	< 1.65 U	-	< 0.863 U	< 1.07 UJ	-	2.86 J
PCB-156/157	PCB-156/157	pg/L		-	317	-	-	-	18000	-	20.2 J	-	728 J	340 J	-	280
PCB-158	74472-42-7	pg/L	14000	-	310 J	-	-	-	15700 J	-	18.9 J	-	648 J	302 J	-	288
PCB-159	39635-35-3	pg/L	14000	-	18	-	-	-	749	-	< 3.43 U	-	32.9	14.5 J	-	25
PCB-160	41411-62-5	pg/L	14000	-	< 2.67 U	-	-	-	< 2.52 U	-	< 2.22 U	-	< 1.01 U	< 1.24 UJ	-	< 2.2 U
PCB-161	74472-43-8	pg/L	14000	-	< 2.24 U	-	-	-	302	-	< 1.86 U	-	7.29 JN	< 1.1 UJ	-	< 1.91 U
PCB-162	39635-34-2	pg/L	14000	-	< 10.9 U	-	-	-	545	-	< 4.02 U	-	24.4 JN	10.2 J	-	14.5 JN
PCB-164	74472-45-0	pg/L	14000	-	125 J	-	-	-	6590 J	-	9.45 JN	-	277 J	116 J	-	132
PCB-165	74472-46-1	pg/L	14000	-	23.2	-	-	-	699	-	< 2.15 U	-	28.1	8.53 JN	-	39.3
PCB-167	52663-72-6	pg/L	14000	-	91.1	-	-	-	5190	-	8.08 J	-	212 J	99 J	-	111
PCB-169	32774-16-6	pg/L	14000	-	< 16.8 U	-	-	-	< 41.4 U	-	< 5.91 U	-	< 4.9 U	< 3.23 UJ	-	< 6 U
PCB-170	35065-30-6	pg/L	14000	-	651	-	-	-	26200	-	25.4	-	1190 J	545 J	-	850
PCB-171/173	PCB-171/173	pg/L		-	239	-	-	-	8810	-	< 8.58 U	-	366 J	181 J	-	288
PCB-172	52663-74-8	pg/L	14000	-	118	-	-	-	4820	-	< 8.06 U	-	185 J	88.7 J	-	155
PCB-174	38411-25-5	pg/L	14000	-	573	-	-	-	21100	-	18.4	-	916 J	424 J	-	647
PCB-175	40186-70-7	pg/L	14000	-	41.6	-	-	-	1600	-	< 8.39 U	-	57.5 J	20.3 JN	-	50.3
PCB-176	52663-65-7	pg/L	14000	-	95.2 JN	-	-	-	3910	-	< 3.7 U	-	169 J	73.6 J	-	136
PCB-177	52663-70-4	pg/L	14000	-	445	-	-	-	15500	-	9.03 JN	-	610 J	269 J	-	568
PCB-178	52663-67-9	pg/L	14000	-	192	-	-	-	6650	-	< 4.83 U	-	274 J	120 J	-	285
PCB-179	52663-64-6	pg/L	14000	-	342	-	-	-	10100	-	< 3.17 U	-	466 J	210 J	-	398
PCB-180/193	PCB-180/193	pg/L		-	1330	-	-	-	51200	-	51	-	2130 J	1020 J	-	1610
PCB-181	74472-47-2	pg/L	14000	-	< 12.4 U	-	-	-	337	-	< 7.24 U	-	9.43 JN	< 5.67 UJ	-	8.22 JN
PCB-182	60145-23-5	pg/L	14000	-	10.9 JN	-	-	-	293	-	< 6.74 U	-	5.74 JN	< 5.42 UJ	-	16.7
PCB-183	52663-69-1	pg/L	14000	-	412 J	-	-	-	14300 J	-	9.73 JN	-	636 J	304 J	-	497
PCB-184	74472-48-3	pg/L	14000	-	< 5.92 U	-	-	-	< 6.06 U	-	< 3.39 U	-	< 2.06 U	< 1.47 UJ	-	< 3.83 U
PCB-185	52712-05-7	pg/L	14000	-	48.5 JN	-	-	-	2630	-	< 8.22 U	-	94.5 J	46.1 J	-	59
PCB-186	74472-49-4	pg/L	14000	-	< 5.4 U	-	-	-	20.9 JN	-	< 3.09 U	-	< 1.85 U	< 1.3 UJ	-	< 3.44 U
PCB-187	52663-68-0	pg/L	14000	-	839	-	-	-	28200	-	24.2	-	1150 J	552 J	-	1120
PCB-188	74487-85-7	pg/L	14000	-	< 5.33 U	-	-	-	31	-	< 3.04 U	-	< 1.83 U	< 1.37 UJ	-	3.24 JN
PCB-189	39635-31-9	pg/L	14000	-	31.1	-	-	-	1340	-	< 3.58 U	-	57 J	21.9 J	-	42.3
PCB-190	41411-64-7	pg/L	14000	-	132 JN	-	-	-	6130	-	< 6.97 U	-	245 J	115 J	-	187
PCB-191	74472-50-7	pg/L	14000	-	30.4	-	-	-	1270	-	< 6.42 U	-	51 J	21 JN	-	36
PCB-192	74472-51-8	pg/L	14000	-	< 9.73 U	-	-	-	< 19.4 U	-	< 5.68 U	-	< 6.13 U	< 4.44 UJ	-	< 5.84 U
PCB-194	35694-08-7	pg/L	14000	-	436	-	-	-	14900	-	8.94 J	-	656 J	278 J	-	623
PCB-195	52663-78-2	pg/L	14000	-	157	-	-	-	5590	-	3.2 JN	-	242 J	104 J	-	222
PCB-196	42740-50-1	pg/L	14000	-	228	-	-	-	7170	-	< 2.18 U	-	328 J	170 J	-	297
PCB-197	33091-17-7	pg/L	14000	-	12.8 JN	-	-	-	523	-	< 1.63 U	-	26.3	10.5 J	-	19.8 JN
PCB-198/199	PCB-198/199	pg/L		-	437	-	-	-	13200	-	10.3 J	-	663 J	293 J	-	604
PCB-200	52663-73-7	pg/L	14000	-	45.7 JN	-	-	-	1870	-	< 1.74 U	-	83.2 J	37.3 J	-	67.5
PCB-201	40186-71-8	pg/L	14000	-	56.3 JN	-	-	-	1910	-	< 1.79 U	-	79.7 JN	35.6 JN	-	83
PCB-202	2136-99-4	pg/L	14000	-	77.9	-	-	-	2250	-	< 1.43 U	-	116 J	55 J	-	99
PCB-203	52663-76-0	pg/L	14000	-	260	-	-	-	7820	-	6.19 J	-	389 J	190 J	-	339
PCB-204	74472-52-9	pg/L	14000	-	< 2.7 U	-	-	-	< 1.78 U	-	< 1.58 U	-	< 1.63 U	< 0.722 UJ	-	< 2.37 U
PCB-205	74472-53-0	pg/L	14000	-	18.7 JN	-	-	-	921	-	< 2.74 U	-	29.2 JN	14.5 JN	-	31.7 JN
PCB-206	40186-72-9	pg/L	14000	-	230 J	-	-	-	6430 J	-	< 22.4 UJ	-	333 J	161 J	-	306 J
PCB-207	52663-79-3	pg/L	14000	-	22.8 JN	-	-	-	698	-	< 5.98 U	-	37.2	20.2 J	-	33.3
PCB-208	52663-77-1	pg/L	14000	-	60.8 JN	-	-	-	1370	-	< 5.38 U	-	86.6 J	44.5 J	-	75.9
PCB-209	2051-24-3	pg/L	14000	-	86.3	-	-	-	1480	-	8.46 J	-	115 J	50.6 J	-	82 J
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	14000	-	86.3	-	-	-	1480	-	8.46	-	115	50.6	-	82
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	14000	-	5530	-	-	-	204000	-	138	-	8610	4010	-	6960
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	14000	-	16300	-	-	-	645000	-	709	-	26800	12700	-	16700
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	14000	-	1730	-	-	-	56200	-	28.6	-	2610	1190	-	2390
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	14000	-	2270000	-	-	-	19000000	-	96700	-	1050000	710000	-	3580000
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	14000	-	73300	-	-	-	3600000	-	2570	-	104000	55400	-	38200
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	14000	-	715000	-	-	-	912000	-	52300	-	67000	35400	-	1650000
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	14000	-	25000	-	-	-	51200	-	1350	-	3490	1720	-	185000
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	14000	-	314	-	-	-	8500	-	< 22.4 U	-	457	226	-	415
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	14000	-	348000	-	-	-	8440000	-	10300	-	296000	206000	-	277000
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	14000	-	1080000	-	-	-	5070000	-	29300	-	536000	393000	-	1400000

Table 21
Pore Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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			Location	23C-0008-PLP	23C-0008-PLP	23C-0008-PLP	23C-0008-PLP	23C-0023-PLP	23C-0023-PLP	23C-0029-PLP	23C-0029-PLP	23C-0055-PLP	23C-0055-PLP	23C-0055-PLP	23C-0059-PLP	23C-0059-PLP
			Sample Name	23C-0008-PLP-AS-F	23C-0008-PLP-AS-T	23C-0008-PLP-AT-F	23C-0008-PLP-AT-T	23C-0023-PLP-AS-F	23C-0023-PLP-AS-T	23C-0029-PLP-AS-F	23C-0029-PLP-AS-T	23C-0055-PLP-AS-F	23C-0055-PLP-AS-T	23C-0055-PLP-AT-T	23C-0059-PLP-AS-F	23C-0059-PLP-AS-T
			Sample Date	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/25/2023	10/25/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/26/2023	10/27/2023	10/27/2023
			Sample Type	N	N	FD	FD	N	N	N	N	N	N	FD	N	N
			Depth	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft	~ 0.5 ft
Analyte	CAS Number	Units	Ecological PAL													
TAL Metals and Mercury																
Aluminum	7429-90-5	ug/L	87	-	3200	-	3500	-	900	-	75 J+	-	870	-	-	360
Aluminum (Dissolved)	7429-90-5	ug/L	87	< 20 UJ	-	< 20 UJ	-	< 20 UJ	-	31 J	-	71 J	-	-	140 J	-
Antimony	7440-36-0	ug/L	190	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	-	< 2.0 U
Antimony (Dissolved)	7440-36-0	ug/L	190	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	-	< 2.0 U	-
Arsenic	7440-38-2	ug/L	150	-	9.3	-	10	-	< 1.0 U	-	< 1.0 U	-	8.4	-	-	< 1.0 U
Arsenic (Dissolved)	7440-38-2	ug/L	150	6.3	-	6.1	-	< 1.0 U	-	< 1.0 U	-	8.0	-	-	< 1.0 U	-
Barium	7440-39-3	ug/L	220	-	340	-	320	-	53	-	78	-	980	-	-	110
Barium (Dissolved)	7440-39-3	ug/L	220	320	-	320	-	51	-	75	-	970	-	-	99	-
Beryllium	7440-41-7	ug/L	50.3	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	-	< 1.0 U
Beryllium (Dissolved)	7440-41-7	ug/L	50.3	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	-	< 1.0 U	-
Cadmium	7440-43-9	ug/L	0.51	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	-	< 1.0 U
Cadmium (Dissolved)	7440-43-9	ug/L	0.51	< 1.0 UJ	-	< 1.0 UJ	-	< 1.0 UJ	-	< 1.0 UJ	-	< 1.0 UJ	-	-	< 1.0 UJ	-
Calcium	7440-70-2	ug/L	116000	-	26000	-	25000	-	120000	-	47000	-	80000	-	-	25000
Calcium (Dissolved)	7440-70-2	ug/L	116000	25000	-	25000	-	120000	-	44000	-	77000	-	-	23000	-
Chromium, Total	7440-47-3	ug/L	161	-	13	-	12	-	4.4	-	1.6 J+	-	1.9 J+	-	-	3.2 J+
Chromium, Total (Dissolved)	7440-47-3	ug/L	161	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	-	< 2.0 U	-
Cobalt	7440-48-4	ug/L	19	-	11	-	12	-	< 1.0 U	-	< 1.0 U	-	2.5	-	-	< 1.0 U
Cobalt (Dissolved)	7440-48-4	ug/L	19	5.0	-	5.1	-	< 1.0 U	-	< 1.0 U	-	1.5	-	-	0.15 J	-
Copper	7440-50-8	ug/L	10.1	-	17	-	22	-	8.0	-	< 2.0 U	-	2.3	-	-	1.5 J
Copper (Dissolved)	7440-50-8	ug/L	10.1	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	< 2.0 U	-	-	< 2.0 U	-
Iron	7439-89-6	ug/L	1000	-	64000	-	64000	-	2100	-	2200	-	19000	-	-	14000
Iron (Dissolved)	7439-89-6	ug/L	1000	56000	-	59000	-	560	-	1900	-	17000	-	-	14000	-
Lead	7439-92-1	ug/L	0.54	-	33	-	33	-	11	-	1.0 J+	-	2.2	-	-	11
Lead (Dissolved)	7439-92-1	ug/L	0.54	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	-	< 1.0 U	-
Magnesium	7439-95-4	ug/L	82000	-	8600	-	8800	-	64000	-	14000	-	42000	-	-	4800
Magnesium (Dissolved)	7439-95-4	ug/L	82000	7700	-	7900	-	67000	-	13000	-	45000	-	-	5000	-
Manganese	7439-96-5	ug/L	93	-	900	-	910	-	28 J+	-	460	-	2100	-	-	2200
Manganese (Dissolved)	7439-96-5	ug/L	93	850	-	900	-	9.5	-	420	-	2100	-	-	2200	-
Nickel	7440-02-0	ug/L	103	-	13	-	14	-	1.8 J-	-	< 1.0 UJ	-	2.3 J-	-	-	< 1.0 UJ
Nickel (Dissolved)	7440-02-0	ug/L	103	3.7 J-	-	3.9 J-	-	0.14 J-	-	< 1.0 UJ	-	0.52 J-	-	-	< 1.0 UJ	-
Potassium	7440-09-7	ug/L	53000	-	2500	-	2600	-	2700	-	3800	-	3500	-	-	3200
Potassium (Dissolved)	7440-09-7	ug/L	53000	2100	-	2200	-	2700	-	3700	-	3700	-	-	3400	-
Selenium	7782-49-2	ug/L	5	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	-	< 5.0 U
Selenium (Dissolved)	7782-49-2	ug/L	5	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	< 5.0 U	-	-	< 5.0 U	-
Silver	7440-22-4	ug/L		-	< 1.0 U	-	< 1.0 U	-	0.17 J	-	< 1.0 U	-	< 1.0 U	-	-	< 1.0 U
Silver (Dissolved)	7440-22-4	ug/L		< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	-	< 1.0 U	-
Sodium	7440-23-5	ug/L	680000	-	460000	-	460000	-	55000	-	220000	-	290000	-	-	62000
Sodium (Dissolved)	7440-23-5	ug/L	680000	470000	-	490000	-	59000	-	210000	-	310000	-	-	67000	-
Thallium	7440-28-0	ug/L	6	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	-	< 1.0 U
Thallium (Dissolved)	7440-28-0	ug/L	6	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	< 1.0 U	-	-	< 1.0 U	-
Vanadium	7440-62-2	ug/L	27	-	11	-	11	-	5.4	-	0.45 J	-	2.2 J	-	-	2.4 J
Vanadium (Dissolved)	7440-62-2	ug/L	27	0.53 J	-	0.53 J	-	2.6 J	-	0.33 J	-	< 5.0 U	-	-	1.4 J	-
Zinc	7440-66-6	ug/L	45	-	43	-	44	-	14 J+	-	< 5.0 UJ	-	9.0 J+	-	-	12 J+
Zinc (Dissolved)	7440-66-6	ug/L	45	< 5.0 U	-	< 5.0 U	-	7.7 J+	-	< 5.0 U	-	8.8 J+	-	-	< 5.0 U	-
Mercury	7439-97-6	ug/L	0.77	-	0.97 J	-	0.54 J	-	< 0.20 U	-	< 0.20 U	-	< 0.20 U	-	-	< 0.20 U
Mercury (Dissolved)	7439-97-6	ug/L	0.77	0.12 J	-	0.14 J	-	< 0.20 U	-	< 0.20 U	-	< 0.20 U	-	-	< 0.20 U	-
1,4-Dioxane																
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	22000	-	-	-	-	-	0.068 J	-	-	-	-	-	-	0.061 J
Dissolved Organic Carbon																
DISSOLVED ORGANIC CARBON (Dissolved)	DOC	mg/L		2.4 J-	-	2.4 J-	-	6.6 J-	-	< 1.0 UJ	-	0.97 J-	-	-	10 J-	-

Table 21
Pore Water Analytical Results
Phase 1 Data Evaluation Summary Memorandum
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Notes:
(a) Totals for PCDD/DF and PCB homolog groups were calculated by summing the detected congeners in each group after data validation was completed; if no congeners in a homolog group were detected, the maximum reporting detection limit of any member congener in that group was used.
(b) Sum of detected congeners.
Analytes:
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxins/furans
TAL - target analyte list
Units:
mg/L - miligram per liter
pg/L - picogram per liter
ug/L - microgram per liter
Project Action Limits (PALs):
The ecological PALs are the lowest of the Massachusetts surface water quality standards, aquatic life criterion continuous concentration values for freshwater (MassDEP, 2022), National Recommended Water Quality Criteria aquatic life criterion continous concentration values for freshwater (USEPA, 2024c), and USEPA Region 4 freshwater chronic screening values (USEPA, 2018).
Underlined values represent detection of the compound at a concentration above the ecological PAL.
Comparison of the data to the PALs is for informational purposes only and is not an indication of risk.
Qualifiers:
B - Indicates the analyte is detected in the associated blank as well as in the sample.
E - Indicates compounds whose concentrations exceed the calibration range of the instrument.
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J- -The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a potential low bias.
J+ - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample with a potential high bias.
JN - The analyte was tentatively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U - The analyte was analyzed for but was not detected above the reported sample quantitation limit.
R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
Sample Type:
N - normal
FD - field duplicate

Table 22
Pore Water Analytical Results Statistics
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Analyte	CAS Number	Units	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Ecological PAL	Location of Max. Detection
PCDD/F										
1,2,3,4,6,7,8-HpCDD	35822-46-9	pg/L	3.1	6	4	10.4	55.4	35.7	4	23C-0023-PLP
1,2,3,4,7,8,9-HpCDF	55673-89-7	pg/L	0.31	6	1	2.72	2.72	2.72	1	23C-0023-PLP
1,2,3,4,7,8-HxCDD	39227-28-6	pg/L	0.062	6	1	3.65	3.65	3.65	1	23C-0059-PLP
1,2,3,4,7,8-HxCDF	70648-26-9	pg/L	0.031	6	2	3.68	9.34	6.51	2	23C-0023-PLP
1,2,3,6,7,8-HxCDD	57653-85-7	pg/L	0.31	6	1	5.34	5.34	5.34	1	23C-0059-PLP
1,2,3,6,7,8-HxCDF	57117-44-9	pg/L	0.031	6	2	3.75	4.56	4.16	2	23C-0023-PLP
1,2,3,7,8,9-HxCDD	19408-74-3	pg/L	0.031	6	1	3.81	3.81	3.81	1	23C-0059-PLP
1,2,3,7,8,9-HxCDF	72918-21-9	pg/L	0.031	6	1	3.65	3.65	3.65	1	23C-0059-PLP
1,2,3,7,8-PeCDD	40321-76-4	pg/L	0.0031	6	0				0	
1,2,3,7,8-PeCDF	57117-41-6	pg/L	0.10333	6	1	4.14	4.14	4.14	1	23C-0059-PLP
1,2,3,4,6,7,8-HpCDF	67562-39-4	pg/L	0.31	6	5	2.23	26.7	13.2	5	23C-0023-PLP
2,3,4,6,7,8-HxCDF	60851-34-5	pg/L	0.031	6	1	3.15	3.15	3.15	1	23C-0023-PLP
2,3,4,7,8-PeCDF	57117-31-4	pg/L	0.010333	6	2	3.97	15.3	9.64	2	23C-0023-PLP
2,3,7,8-TCDD	1746-01-6	pg/L	0.0031	6	0				0	
2,3,7,8-TCDF	51207-31-9	pg/L	0.031	6	1	3.67	3.67	3.67	1	23C-0023-PLP
OCDD	3268-87-9	pg/L	31	6	6	18	489	192	5	23C-0023-PLP
OCDF	39001-02-0	pg/L	31	6	4	5.28	28.3	15.3	0	23C-0023-PLP
Total HpCDD (a)	RA_Total_HpCDD	pg/L		6	4	10.4	55.4	35.7	0	23C-0023-PLP
Total HpCDF (a)	RA_Total_HpCDF	pg/L		6	5	2.23	29.4	13.7	0	23C-0023-PLP
Total HxCDD (a)	RA_Total_HxCDD	pg/L		6	3	12.8	12.8	12.8	0	23C-0059-PLP
Total HxCDF (a)	RA_Total_HxCDF	pg/L		6	3	11.1	17.1	14.1	0	23C-0023-PLP
Total PeCDD (a)	RA_Total_PeCDD	pg/L		6	0				0	
Total PeCDF (a)	RA_Total_PeCDF	pg/L		6	3	8.11	15.3	11.7	0	23C-0023-PLP
Total TCDD (a)	RA_Total_TCDD	pg/L		6	0				0	
Total TCDF (a)	RA_Total_TCDF	pg/L		6	1	3.67	3.67	3.67	0	23C-0023-PLP
Total and Dissolved TAL Metals and Mercury										
Aluminum	7429-90-5	ug/L	87	6	6	75	3500	1500	5	23C-0008-PLP
Aluminum (Dissolved)	7429-90-5	ug/L	87	6	3	31	140	81	1	23C-0059-PLP
Antimony	7440-36-0	ug/L	190	6	0				0	
Antimony (Dissolved)	7440-36-0	ug/L	190	6	0				0	
Arsenic	7440-38-2	ug/L	150	6	3	8.4	10	9.2	0	23C-0008-PLP
Arsenic (Dissolved)	7440-38-2	ug/L	150	6	3	6.1	8	6.8	0	23C-0055-PLP
Barium	7440-39-3	ug/L	220	6	6	53	980	310	3	23C-0055-PLP
Barium (Dissolved)	7440-39-3	ug/L	220	6	6	51	970	310	3	23C-0055-PLP
Beryllium	7440-41-7	ug/L	50.3	6	0				0	
Beryllium (Dissolved)	7440-41-7	ug/L	50.3	6	0				0	
Cadmium	7440-43-9	ug/L	0.51	6	0				0	
Cadmium (Dissolved)	7440-43-9	ug/L	0.51	6	0				0	
Calcium	7440-70-2	ug/L	116000	6	6	25000	120000	54000	1	23C-0023-PLP
Calcium (Dissolved)	7440-70-2	ug/L	116000	6	6	23000	120000	52000	1	23C-0023-PLP
Chromium, Total	7440-47-3	ug/L	161	6	6	1.6	13	6	0	23C-0008-PLP
Chromium, Total (Dissolved)	7440-47-3	ug/L	161	6	0				0	

Table 22
Pore Water Analytical Results Statistics
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Ecological PAL	Location of Max. Detection
Cobalt	7440-48-4	ug/L	19	6	3	2.5	12	8.5	0	23C-0008-PLP
Cobalt (Dissolved)	7440-48-4	ug/L	19	6	4	0.15	5.1	2.9	0	23C-0008-PLP
Copper	7440-50-8	ug/L	10.1	6	5	1.5	22	10	2	23C-0008-PLP
Copper (Dissolved)	7440-50-8	ug/L	10.1	6	0				0	
Iron	7439-89-6	ug/L	1000	6	6	2100	64000	28000	6	23C-0008-PLP 23C-0008-PLP
Iron (Dissolved)	7439-89-6	ug/L	1000	6	6	560	59000	25000	5	23C-0008-PLP
Lead	7439-92-1	ug/L	0.54	6	6	1	33	15	6	23C-0008-PLP 23C-0008-PLP
Lead (Dissolved)	7439-92-1	ug/L	0.54	6	0				0	
Magnesium	7439-95-4	ug/L	82000	6	6	4800	64000	24000	0	23C-0023-PLP
Magnesium (Dissolved)	7439-95-4	ug/L	82000	6	6	5000	67000	24000	0	23C-0023-PLP
Manganese	7439-96-5	ug/L	93	6	6	28	2200	1100	5	23C-0059-PLP
Manganese (Dissolved)	7439-96-5	ug/L	93	6	6	9.5	2200	1100	5	23C-0059-PLP
Mercury	7439-97-6	ug/L	0.77	6	2	0.54	0.97	0.76	1	23C-0008-PLP
Mercury (Dissolved)	7439-97-6	ug/L	0.77	6	2	0.12	0.14	0.13	0	23C-0008-PLP
Nickel	7440-02-0	ug/L	103	6	4	1.8	14	7.8	0	23C-0008-PLP
Nickel (Dissolved)	7440-02-0	ug/L	103	6	4	0.14	3.9	2.1	0	23C-0008-PLP
Potassium	7440-09-7	ug/L	53000	6	6	2500	3800	3100	0	23C-0029-PLP
Potassium (Dissolved)	7440-09-7	ug/L	53000	6	6	2100	3700	3000	0	23C-0029-PLP 23C-0055-PLP
Selenium	7782-49-2	ug/L	5	6	0				0	
Selenium (Dissolved)	7782-49-2	ug/L	5	6	0				0	
Silver	7440-22-4	ug/L		6	1	0.17	0.17	0.17	0	23C-0023-PLP
Silver (Dissolved)	7440-22-4	ug/L		6	0				0	
Sodium	7440-23-5	ug/L	680000	6	6	55000	460000	260000	0	23C-0008-PLP 23C-0008-PLP
Sodium (Dissolved)	7440-23-5	ug/L	680000	6	6	59000	490000	270000	0	23C-0008-PLP
Thallium	7440-28-0	ug/L	6	6	0				0	
Thallium (Dissolved)	7440-28-0	ug/L	6	6	0				0	
Vanadium	7440-62-2	ug/L	27	6	6	0.45	11	5.4	0	23C-0008-PLP 23C-0008-PLP
Vanadium (Dissolved)	7440-62-2	ug/L	27	6	5	0.33	2.6	1.1	0	23C-0023-PLP
Zinc	7440-66-6	ug/L	45	6	5	9	44	24	0	23C-0008-PLP
Zinc (Dissolved)	7440-66-6	ug/L	45	6	2	7.7	8.8	8.3	0	23C-0055-PLP
PCB Congeners										
PCB-001	2051-60-7	pg/L	14000	6	6	662	151000	34400	3	23C-0059-PLP
PCB-002	2051-61-8	pg/L	14000	6	6	8.23	2040	586	0	23C-0059-PLP
PCB-003	2051-62-9	pg/L	14000	6	6	130	31700	9570	2	23C-0059-PLP
PCB-004	13029-08-8	pg/L	14000	6	6	2090	890000	236000	3	23C-0059-PLP
PCB-005	16605-91-7	pg/L	14000	6	2	61.1	301	181	0	23C-0008-PLP
PCB-006	25569-80-6	pg/L	14000	6	6	151	98700	33800	3	23C-0008-PLP
PCB-007	33284-50-3	pg/L	14000	6	5	267	15200	5110	1	23C-0008-PLP

Table 22
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Analyte	CAS Number	Units	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Ecological PAL	Location of Max. Detection
PCB-008	34883-43-7	pg/L	14000	6	6	450	339000	146000	3	23C-0023-PLP 23C-0059-PLP
PCB-009	34883-39-1	pg/L	14000	6	6	13.6	14100	4580	1	23C-0008-PLP
PCB-010	33146-45-1	pg/L	14000	6	6	1980	280000	62000	3	23C-0059-PLP
PCB-011	2050-67-1	pg/L	14000	6	6	695	9610	3980	0	23C-0023-PLP
PCB-012/013	PCB-12/13	pg/L		6	6	42.8	30000	10100	0	23C-0023-PLP
PCB-014	34883-41-5	pg/L	14000	6	1	120	120	120	0	23C-0059-PLP
PCB-015	2050-68-2	pg/L	14000	6	6	1710	233000	70700	5	23C-0023-PLP
PCB-016	38444-78-9	pg/L	14000	6	6	98.5	28200	9070	2	23C-0008-PLP
PCB-017	37680-66-3	pg/L	14000	6	6	2520	486000	172000	5	23C-0023-PLP
PCB-018/030	PCB-18/30	pg/L		6	6	3090	173000	70300	0	23C-0008-PLP
PCB-019	38444-73-4	pg/L	14000	6	6	13900	522000	184000	5	23C-0023-PLP
PCB-020/028	PCB-20/28	pg/L		6	6	1260	1340000	283000	0	23C-0023-PLP
PCB-021/033	PCB-21/33	pg/L		6	6	103	13300	2890	0	23C-0023-PLP
PCB-022	38444-85-8	pg/L	14000	6	6	76.2	104000	23200	2	23C-0023-PLP
PCB-023	55720-44-0	pg/L	14000	6	3	122	565	274	0	23C-0023-PLP
PCB-024	55702-45-9	pg/L	14000	6	6	81.2	5350	1480	0	23C-0023-PLP
PCB-025	55712-37-3	pg/L	14000	6	6	120	178000	54000	5	23C-0023-PLP
PCB-026/029	PCB-26/29	pg/L		6	6	659	360000	104000	0	23C-0023-PLP
PCB-027	38444-76-7	pg/L	14000	6	6	2170	454000	115000	5	23C-0023-PLP
PCB-031	16606-02-3	pg/L	14000	6	6	1200	306000	121000	5	23C-0023-PLP
PCB-032	38444-77-8	pg/L	14000	6	6	3830	1040000	257000	5	23C-0023-PLP
PCB-034	37680-68-5	pg/L	14000	6	5	675	6380	3310	0	23C-0023-PLP
PCB-035	37680-69-6	pg/L	14000	6	4	74.3	2280	635	0	23C-0023-PLP
PCB-036	38444-87-0	pg/L	14000	6	2	177	1030	604	0	23C-0023-PLP
PCB-037	38444-90-5	pg/L	14000	6	6	229	90800	17700	1	23C-0023-PLP
PCB-038	53555-66-1	pg/L	14000	6	3	42.2	1400	502	0	23C-0023-PLP
PCB-039	38444-88-1	pg/L	14000	6	5	191	7910	1920	0	23C-0023-PLP
PCB-040/071	PCB-40/71	pg/L		6	6	768	720000	137000	0	23C-0023-PLP
PCB-041	52663-59-9	pg/L	14000	6	5	69.5	72200	14800	1	23C-0023-PLP
PCB-042	36559-22-5	pg/L	14000	6	6	385	396000	74900	3	23C-0023-PLP
PCB-043	70362-46-8	pg/L	14000	6	6	64.7	30500	6960	1	23C-0023-PLP
PCB-044/047/065	PCB-44/47/65	pg/L		6	6	1670	1520000	291000	0	23C-0023-PLP
PCB-045	70362-45-7	pg/L	14000	6	5	335	174000	41300	1	23C-0023-PLP
PCB-046	41464-47-5	pg/L	14000	6	6	168	76600	15200	1	23C-0023-PLP
PCB-048	70362-47-9	pg/L	14000	6	6	172	101000	17400	1	23C-0023-PLP
PCB-049/069	PCB-49/69	pg/L		6	6	1220	1020000	198000	0	23C-0023-PLP
PCB-050/053	PCB-50/53	pg/L		6	6	809	446000	89100	0	23C-0023-PLP
PCB-051	68194-04-7	pg/L	14000	6	6	300	216000	44100	2	23C-0023-PLP
PCB-052	35693-99-3	pg/L	14000	6	6	1690	1150000	226000	5	23C-0023-PLP
PCB-054	15968-05-5	pg/L	14000	6	6	51.6	16100	3930	1	23C-0023-PLP
PCB-055	74338-24-2	pg/L	14000	6	6	14.9	12800	2260	0	23C-0023-PLP
PCB-056	41464-43-1	pg/L	14000	6	6	141	248000	42200	1	23C-0023-PLP

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Analyte	CAS Number	Units	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Ecological PAL	Location of Max. Detection
PCB-057	70424-67-8	pg/L	14000	6	6	15.9	32200	6080	1	23C-0023-PLP
PCB-058	41464-49-7	pg/L	14000	6	5	37	2660	581	0	23C-0023-PLP
PCB-059/062/075	PCB-59/62/75	pg/L		6	6	177	172000	32500	0	23C-0023-PLP
PCB-060	33025-41-1	pg/L	14000	6	6	124	118000	20100	1	23C-0023-PLP
PCB-061/070/074/076	PCB-61/70/74/76	pg/L		6	6	838	688000	119000	0	23C-0023-PLP
PCB-063	74472-34-7	pg/L	14000	6	6	55.6	105000	19500	1	23C-0023-PLP
PCB-064	52663-58-8	pg/L	14000	6	6	521	483000	90800	3	23C-0023-PLP
PCB-066	32598-10-0	pg/L	14000	6	6	513	500000	86200	1	23C-0023-PLP
PCB-067	73575-53-8	pg/L	14000	6	6	23.4	28800	5080	1	23C-0023-PLP
PCB-068	73575-52-7	pg/L	14000	6	6	20.3	15200	3120	1	23C-0023-PLP
PCB-072	41464-42-0	pg/L	14000	6	6	24.1	22300	4470	1	23C-0023-PLP
PCB-073	74338-23-1	pg/L	14000	6	6	22.4	13000	2810	0	23C-0023-PLP
PCB-077	32598-13-3	pg/L	14000	6	6	58	56800	10100	1	23C-0023-PLP
PCB-078	70362-49-1	pg/L	14000	6	1	12.2	12.2	12.2	0	23C-0059-PLP
PCB-079	41464-48-6	pg/L	14000	6	5	30.7	3820	807	0	23C-0023-PLP
PCB-080	33284-52-5	pg/L	14000	6	0				0	
PCB-081	70362-50-4	pg/L	14000	6	3	20.2	2420	828	0	23C-0023-PLP
PCB-082	52663-62-4	pg/L	14000	6	6	52.5	89400	16000	1	23C-0023-PLP
PCB-083	60145-20-2	pg/L	14000	6	6	24.6	60400	11100	1	23C-0023-PLP
PCB-084	52663-60-2	pg/L	14000	6	6	157	226000	41200	1	23C-0023-PLP
PCB-085/116	PCB-85/116	pg/L		6	6	80.9	137000	24100	0	23C-0023-PLP
PCB-086/087/097/109/119/125	PCB-86+	pg/L		6	6	262	361000	63500	0	23C-0023-PLP
PCB-088	55215-17-3	pg/L	14000	6	0				0	
PCB-089	73575-57-2	pg/L	14000	6	6	12.8	25700	4700	1	23C-0023-PLP
PCB-090/101/113	PCB-90/101/113	pg/L		6	6	372	383000	67600	0	23C-0023-PLP
PCB-091	68194-05-8	pg/L	14000	6	6	93.5	156000	28800	1	23C-0023-PLP
PCB-092	52663-61-3	pg/L	14000	6	6	106	148000	27400	1	23C-0023-PLP
PCB-093/100	PCB-93/100	pg/L		6	5	400	23100	5190	0	23C-0023-PLP
PCB-094	73575-55-0	pg/L	14000	6	5	288	17500	3950	1	23C-0023-PLP
PCB-095	38379-99-6	pg/L	14000	6	6	416	517000	93600	3	23C-0023-PLP
PCB-096	73575-54-9	pg/L	14000	6	6	7.37	16800	3100	1	23C-0023-PLP
PCB-098	60233-25-2	pg/L	14000	6	3	50.1	172	114	0	23C-0008-PLP
PCB-099	38380-01-7	pg/L	14000	6	6	156	207000	36600	1	23C-0023-PLP
PCB-102	68194-06-9	pg/L	14000	6	6	36.8	65800	12000	1	23C-0023-PLP
PCB-103	60145-21-3	pg/L	14000	6	5	191	10800	2480	0	23C-0023-PLP
PCB-104	56558-16-8	pg/L	14000	6	5	5.68	340	85.2	0	23C-0023-PLP
PCB-105	32598-14-4	pg/L	14000	6	6	112	153000	26500	1	23C-0023-PLP
PCB-106	70424-69-0	pg/L	14000	6	3	19.1	1120	394	0	23C-0023-PLP
PCB-107	70424-68-9	pg/L	14000	6	6	21.5	28100	4980	1	23C-0023-PLP
PCB-108/124	PCB-108/124	pg/L		6	5	49.3	12100	2520	0	23C-0023-PLP
PCB-110	38380-03-9	pg/L	14000	6	6	414	632000	115000	3	23C-0023-PLP
PCB-111	39635-32-0	pg/L	14000	6	2	34	40.2	37.1	0	23C-0055-PLP
PCB-112	74472-36-9	pg/L	14000	6	5	89.6	5210	1150	0	23C-0023-PLP

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Analyte	CAS Number	Units	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Ecological PAL	Location of Max. Detection
PCB-114	74472-37-0	pg/L	14000	6	5	50.9	12900	2710	0	23C-0023-PLP
PCB-115	74472-38-1	pg/L	14000	6	0				0	
PCB-117	68194-11-6	pg/L	14000	6	6	12.8	24600	4650	1	23C-0023-PLP
PCB-118	31508-00-6	pg/L	14000	6	6	234	268000	46700	1	23C-0023-PLP
PCB-120	68194-12-7	pg/L	14000	6	4	19.7	1230	333	0	23C-0023-PLP
PCB-121	56558-18-0	pg/L	14000	6	1	14.1	14.1	14.1	0	23C-0059-PLP
PCB-122	76842-07-4	pg/L	14000	6	4	28	7660	1980	0	23C-0023-PLP
PCB-123	65510-44-3	pg/L	14000	6	5	29.8	7870	1640	0	23C-0023-PLP
PCB-126	57465-28-8	pg/L	14000	6	4	7.61	1270	332	0	23C-0023-PLP
PCB-127	39635-33-1	pg/L	14000	6	0				0	
PCB-128/166	PCB-128/166	pg/L		6	6	27	25300	4670	0	23C-0023-PLP
PCB-129/138/163	PCB-129/138/163	pg/L		6	6	179	142000	26200	0	23C-0023-PLP
PCB-130	52663-66-8	pg/L	14000	6	6	12.1	15500	2880	1	23C-0023-PLP
PCB-131	61798-70-7	pg/L	14000	6	5	43.2	2960	647	0	23C-0023-PLP
PCB-132	38380-05-1	pg/L	14000	6	6	59.8	62300	11600	1	23C-0023-PLP
PCB-133	35694-04-3	pg/L	14000	6	5	68.5	3900	884	0	23C-0023-PLP
PCB-134	52704-70-8	pg/L	14000	6	6	12.5	12400	2310	0	23C-0023-PLP
PCB-135/151	PCB-135/151	pg/L		6	6	44.7	53900	10200	0	23C-0023-PLP
PCB-136	38411-22-2	pg/L	14000	6	6	22.3	22300	4150	1	23C-0023-PLP
PCB-137	35694-06-5	pg/L	14000	6	6	10.8	9500	1720	0	23C-0023-PLP
PCB-139/140	PCB-139/140	pg/L		6	5	84.4	4550	1010	0	23C-0023-PLP
PCB-141	52712-04-6	pg/L	14000	6	6	26.2	18700	3410	1	23C-0023-PLP
PCB-142	41411-61-4	pg/L	14000	6	2	8.61	214	111	0	23C-0023-PLP
PCB-143	68194-15-0	pg/L	14000	6	5	18	1150	252	0	23C-0023-PLP
PCB-144	68194-14-9	pg/L	14000	6	5	110	6780	1500	0	23C-0023-PLP
PCB-145	74472-40-5	pg/L	14000	6	4	4.22	327	88.4	0	23C-0023-PLP
PCB-146	51908-16-8	pg/L	14000	6	6	15.7	19700	3740	1	23C-0023-PLP
PCB-147/149	PCB-147/149	pg/L		6	6	120	113000	21100	0	23C-0023-PLP
PCB-148	74472-41-6	pg/L	14000	6	5	6.14	457	107	0	23C-0023-PLP
PCB-150	68194-08-1	pg/L	14000	6	5	5.02	414	94.6	0	23C-0023-PLP
PCB-152	68194-09-2	pg/L	14000	6	5	8.2	702	158	0	23C-0023-PLP
PCB-153/168	PCB-153/168	pg/L		6	6	122	77600	14400	0	23C-0023-PLP
PCB-154	60145-22-4	pg/L	14000	6	5	50.3	3760	856	0	23C-0023-PLP
PCB-155	33979-03-2	pg/L	14000	6	2	2.86	4.44	3.65	0	23C-0023-PLP
PCB-156/157	PCB-156/157	pg/L		6	6	20.2	18000	3280	0	23C-0023-PLP
PCB-158	74472-42-7	pg/L	14000	6	6	18.9	15700	2880	1	23C-0023-PLP
PCB-159	39635-35-3	pg/L	14000	6	5	14.5	749	168	0	23C-0023-PLP
PCB-160	41411-62-5	pg/L	14000	6	0				0	
PCB-161	74472-43-8	pg/L	14000	6	2	7.29	302	155	0	23C-0023-PLP
PCB-162	39635-34-2	pg/L	14000	6	4	10.2	545	149	0	23C-0023-PLP
PCB-164	74472-45-0	pg/L	14000	6	6	9.45	6590	1210	0	23C-0023-PLP
PCB-165	74472-46-1	pg/L	14000	6	5	8.53	699	160	0	23C-0023-PLP
PCB-167	52663-72-6	pg/L	14000	6	6	8.08	5190	952	0	23C-0023-PLP

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Analyte	CAS Number	Units	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Ecological PAL	Location of Max. Detection
PCB-169	32774-16-6	pg/L	14000	6	0				0	
PCB-170	35065-30-6	pg/L	14000	6	6	25.4	26200	4910	1	23C-0023-PLP
PCB-171/173	PCB-171/173	pg/L		6	5	181	8810	1980	0	23C-0023-PLP
PCB-172	52663-74-8	pg/L	14000	6	5	88.7	4820	1070	0	23C-0023-PLP
PCB-174	38411-25-5	pg/L	14000	6	6	18.4	21100	3950	1	23C-0023-PLP
PCB-175	40186-70-7	pg/L	14000	6	5	20.3	1600	354	0	23C-0023-PLP
PCB-176	52663-65-7	pg/L	14000	6	5	73.6	3910	877	0	23C-0023-PLP
PCB-177	52663-70-4	pg/L	14000	6	6	9.03	15500	2900	1	23C-0023-PLP
PCB-178	52663-67-9	pg/L	14000	6	5	120	6650	1500	0	23C-0023-PLP
PCB-179	52663-64-6	pg/L	14000	6	5	210	10100	2300	0	23C-0023-PLP
PCB-180/193	PCB-180/193	pg/L		6	6	51	51200	9560	0	23C-0023-PLP
PCB-181	74472-47-2	pg/L	14000	6	3	8.22	337	118	0	23C-0023-PLP
PCB-182	60145-23-5	pg/L	14000	6	4	5.74	293	81.6	0	23C-0023-PLP
PCB-183	52663-69-1	pg/L	14000	6	6	9.73	14300	2690	1	23C-0023-PLP
PCB-184	74472-48-3	pg/L	14000	6	0				0	
PCB-185	52712-05-7	pg/L	14000	6	5	46.1	2630	576	0	23C-0023-PLP
PCB-186	74472-49-4	pg/L	14000	6	1	20.9	20.9	20.9	0	23C-0023-PLP
PCB-187	52663-68-0	pg/L	14000	6	6	24.2	28200	5310	1	23C-0023-PLP
PCB-188	74487-85-7	pg/L	14000	6	2	3.24	31	17.1	0	23C-0023-PLP
PCB-189	39635-31-9	pg/L	14000	6	5	21.9	1340	298	0	23C-0023-PLP
PCB-190	41411-64-7	pg/L	14000	6	5	115	6130	1360	0	23C-0023-PLP
PCB-191	74472-50-7	pg/L	14000	6	5	21	1270	282	0	23C-0023-PLP
PCB-192	74472-51-8	pg/L	14000	6	0				0	
PCB-194	35694-08-7	pg/L	14000	6	6	8.94	14900	2820	1	23C-0023-PLP
PCB-195	52663-78-2	pg/L	14000	6	6	3.2	5590	1050	0	23C-0023-PLP
PCB-196	42740-50-1	pg/L	14000	6	5	170	7170	1640	0	23C-0023-PLP
PCB-197	33091-17-7	pg/L	14000	6	5	10.5	523	118	0	23C-0023-PLP
PCB-198/199	PCB-198/199	pg/L		6	6	10.3	13200	2530	0	23C-0023-PLP
PCB-200	52663-73-7	pg/L	14000	6	5	37.3	1870	421	0	23C-0023-PLP
PCB-201	40186-71-8	pg/L	14000	6	5	35.6	1910	433	0	23C-0023-PLP
PCB-202	2136-99-4	pg/L	14000	6	5	55	2250	520	0	23C-0023-PLP
PCB-203	52663-76-0	pg/L	14000	6	6	6.19	7820	1500	0	23C-0023-PLP
PCB-204	74472-52-9	pg/L	14000	6	0				0	
PCB-205	74472-53-0	pg/L	14000	6	5	14.5	921	203	0	23C-0023-PLP
PCB-206	40186-72-9	pg/L	14000	6	5	161	6430	1490	0	23C-0023-PLP
PCB-207	52663-79-3	pg/L	14000	6	5	20.2	698	162	0	23C-0023-PLP
PCB-208	52663-77-1	pg/L	14000	6	5	44.5	1370	328	0	23C-0023-PLP
PCB-209	2051-24-3	pg/L	14000	6	6	8.46	1480	304	0	23C-0023-PLP
Total Decachlorobiphenyls (a)	RA_Total_DECPCB	pg/L	14000	6	6	8.46	1480	304	0	23C-0023-PLP
Total Heptachlorobiphenyls (a)	RA_Total_HEPPCB	pg/L	14000	6	6	138	204000	38200	1	23C-0023-PLP
Total Hexachlorobiphenyls (a)	RA_Total_HEXPCB	pg/L	14000	6	6	709	645000	120000	4	23C-0023-PLP
Total Octachlorobiphenyls (a)	RA_Total_OCTPCB	pg/L	14000	6	6	28.6	56200	10700	1	23C-0023-PLP
Total PCB Congeners (b)	RA_Tot_PCB_Cong	pg/L	14000	6	6	96700	19000000	4450000	6	23C-0023-PLP

Table 22
Pore Water Analytical Results Statistics
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts

Analyte	CAS Number	Units	Ecological PAL	Number of Samples (c)	Number of Detections	Min. Detected Value	Max Detected Value	Avg. Detected Values	Number of Samples Above Ecological PAL	Location of Max. Detection
Total Pentachlorobiphenyls (a)	RA_Total_PENPCB	pg/L	14000	6	6	2570	3600000	646000	5	23C-0023-PLP
Total Dichlorobiphenyls (a)	RA_Total_DIPCB	pg/L	14000	6	6	35400	1650000	572000	6	23C-0059-PLP
Total Monochlorobiphenyls (a)	RA_Total_MONPCB	pg/L	14000	6	6	1350	185000	44600	3	23C-0059-PLP
Total Nonachlorobiphenyls (a)	RA_Total_NONPCB	pg/L	14000	6	5	226	8500	1980	0	23C-0023-PLP
Total Tetrachlorobiphenyls (a)	RA_Total_TETPCB	pg/L	14000	6	6	10300	8440000	1600000	5	23C-0023-PLP
Total Trichlorobiphenyls (a)	RA_Total_TRICPB	pg/L	14000	6	6	29300	5070000	1420000	6	23C-0023-PLP
1,4-Dioxane			22000	2	2	0.061	0.068	0.065	0	23C-0023-PLP
1,4-Dioxane (P-Dioxane)	123-91-1	ug/L	22000	2	2	0.061	0.068	0.065	0	23C-0023-PLP
Dissolved Organic Carbon										
DISSOLVED ORGANIC CARBON (Dissolve	DOC	mg/L		6	5	0.97	10	4.5	0	23C-0059-PLP

Notes:
(a) Totals for PCDD/DF and PCB homolog groups were calculated by summing the detected congeners in each group after data validation was completed; if no congeners in a homolog group were detected, the maximum reporting detection limit of any member congener in that group was used.
(b) Sum of detected congeners.
(c) The number of samples shown and the calculation of summary statistics treated the parent and field duplicate as individual samples.
(d) Pore water samples had an approximate depth of 0.5 ft.
Analytes:
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxins/furans
TAL - target analyte list
Units:
mg/L - miligram per liter
pg/L - picogram per liter
ug/L - microgram per liter
Project Action Limits (PALs):
The ecological PALs are the lowest of the Massachusetts surface water quality standards, aquatic life criterion continuous concentration values for freshwater (MassDEP, 2022), National Recommended Water Quality Criteria aquatic life criterion continous concentration values for freshwater (USEPA, 2024c), and USEPA Region 4 freshwater chronic screening values (USEPA, 2018).
Comparison of the data to the PALs is for informational purposes only and is not an indication of risk.

Figures

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Boston
Mattapan
Dorchester
Milton
Hyde Park
Walter Baker Dam
Braided Channel Area
Pine Tree Brook
Former Bay State Paper
T&H Dam
Phase 2 Reach
Phase 1 Reach
Former Lewis Chemical
Former LE Mason
Mother Brook
Upper Neponset River
0
0.5
1
1.5
2
2.5
3
3.5

Site Locus
Malden
Waltham
Boston
Suffolk
Quincy

Figure 1
Site Overview
Lower Neponset River Project

AECOM

N

0 0.1 0.2 0.4
Miles

Legend

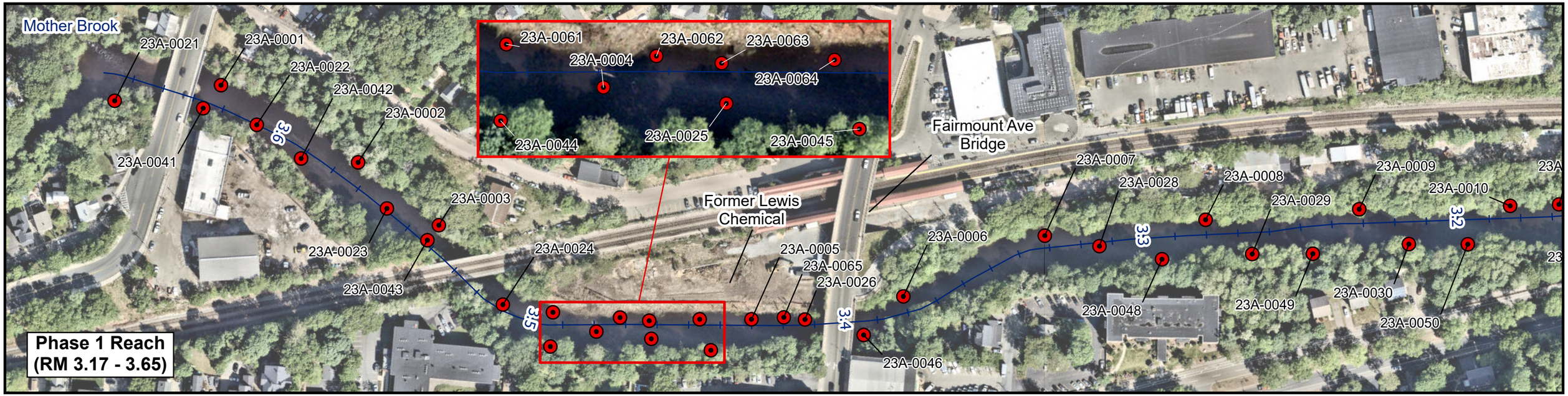
- LNR River Miles
- Phase 1 Reach (RM 3.7 - 2.7)
- Phase 2 Reach (RM 2.7 - 0.0)
- Suspected Source of PCB Contamination to the Site
- Dredge Spoil Areas (DCR, 2006)
- Phase 1 Transducer

FEMA Flood Zones

- FEMA 100 Year Flood Zone
- Regulatory Floodway

Maxar, nearmap, Esri, CGIAR, USGS, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS

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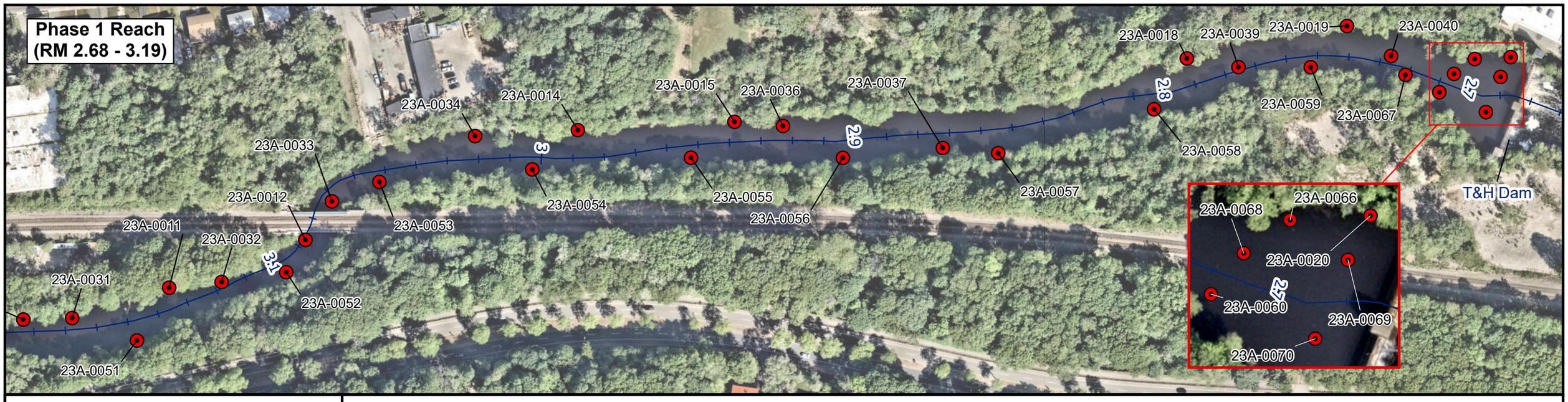


Figure 2
Phase 1 Sediment Sampling Locations
Lower Neponset River Project

AECOM

0 75 150 300
Feet

Legend

- LNR River Miles
- Sediment Sample Location

Maxar, Microsoft, nearmap

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Figure 3
Sediment Reference Sampling Locations
Lower Neponset River Project

AECOM

0 120 240 480
Feet

Legend

- Reference Sediment Sample Location
- LNR River Miles

Esri, NASA, NGA, USGS, Maxar, Microsoft, nearmap, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

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Mother Brook

JP-0002
6.7 ft.

Former Lewis
Chemical

Fairmount Ave
Bridge

JP-0200
5.3 ft.

JP-0201
6.5 ft.

JP-0203
5.2 ft.

JP-0061
4.5 ft.

JP-0007
5.5 ft.

JP-0008
6.1 ft.

JP-0009
11 ft.

JP-0048
5.4 ft.

JP-0029
5.0 ft.

JP-0202
1.0 ft.

JP-0204
1.0 ft.

JP-0205
2.0 ft.

3.6
3.5
3.4
3.3
3.2

**Phase 1 Reach
(RM 3.17 - 3.65)**

**Phase 1 Reach
(RM 2.68 - 3.19)**

JP-0215
11.3 ft.

JP-0212
0.8 ft.

JP-0211
0.7 ft.

JP-0208
4.3 ft.

JP-0213
0.3 ft.

JP-0210
2.5 ft.

JP-0207
2.2 ft.

JP-0214
3.5 ft.

JP-0209
4.4 ft.

JP-0206
2.6 ft.

T&H Dam

3.1
3
2.9
2.8
2.7

Figure 4
Phase 1 Probing Locations and Refusal Depths
Lower Neponset River Project

AECOM

0 75 150 300
Feet

Legend

- LNR River Miles
- Sediment Probing Location

Note:
Jet probing was performed at each location until refusal was reached. The depth beneath the surface at which refusal was reached, in feet, is called out within the figure.

Maxar, Microsoft, nearmap

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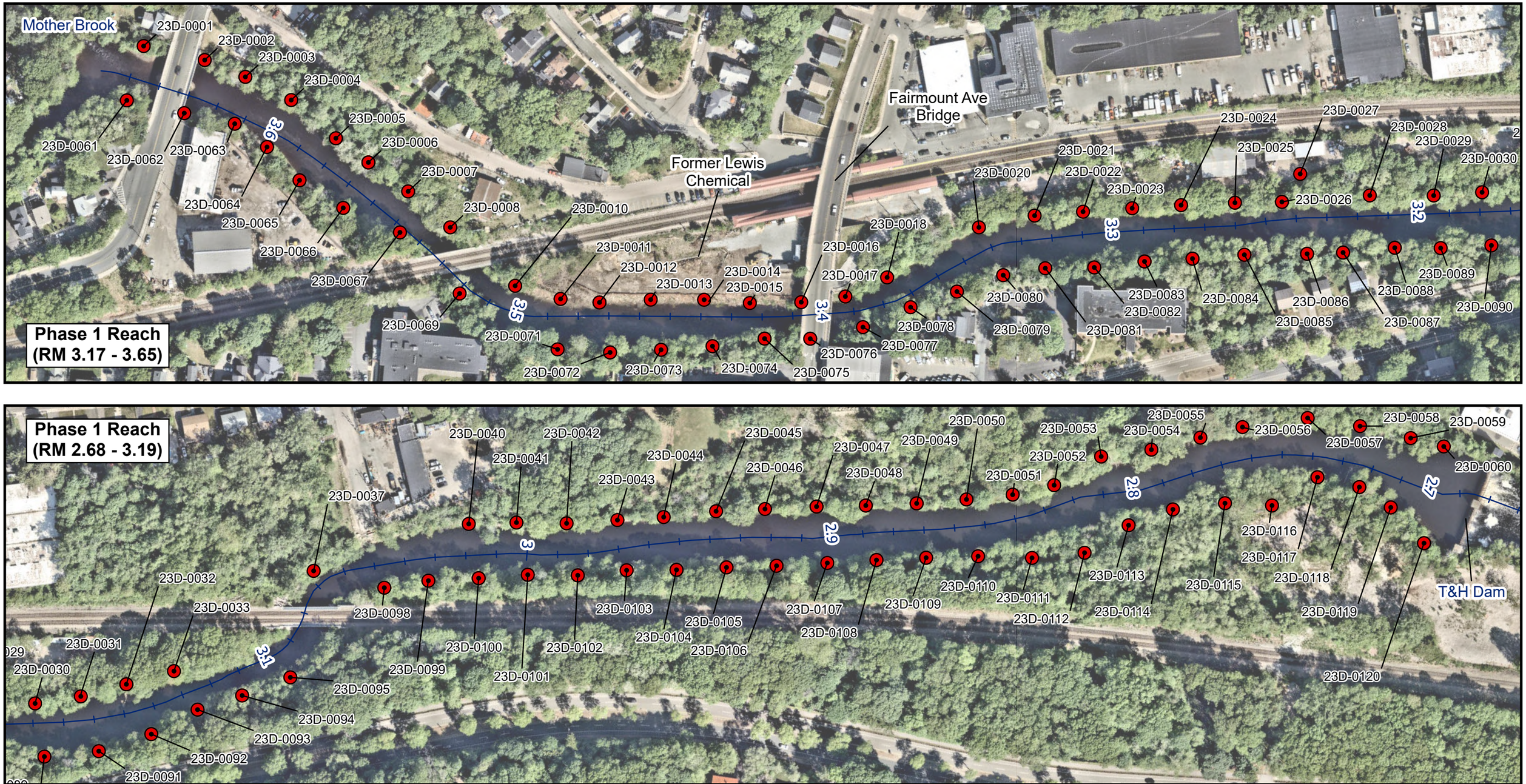


Figure 5
Phase 1 Floodplain Soil Sampling Locations
Lower Neponset River Project

AECOM

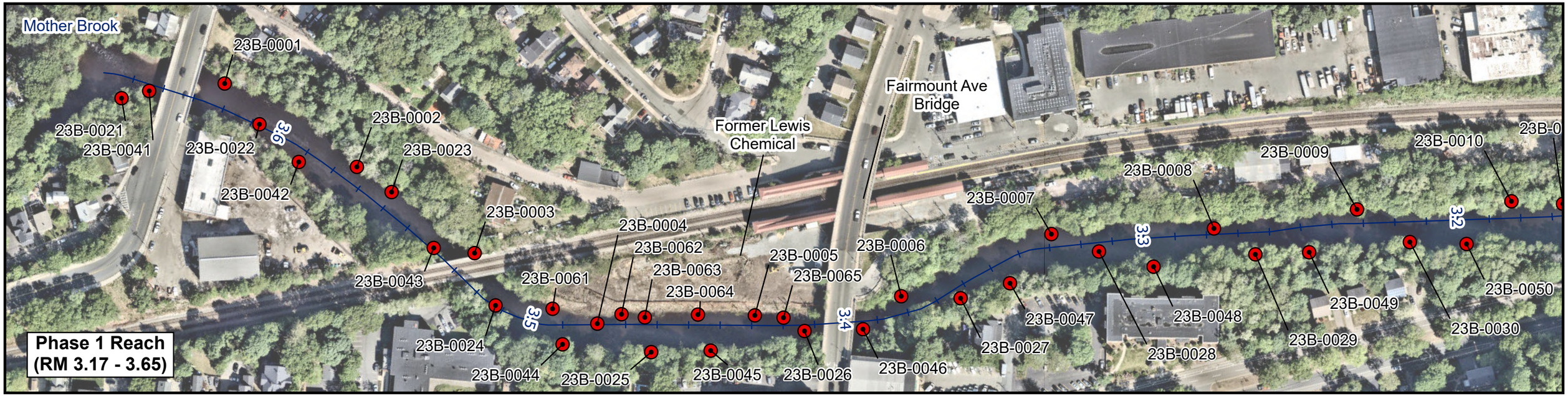
0 75 150 300
Feet

Legend

- Soil Sample Location
- LNR River Miles

Maxar, Microsoft, nearmap

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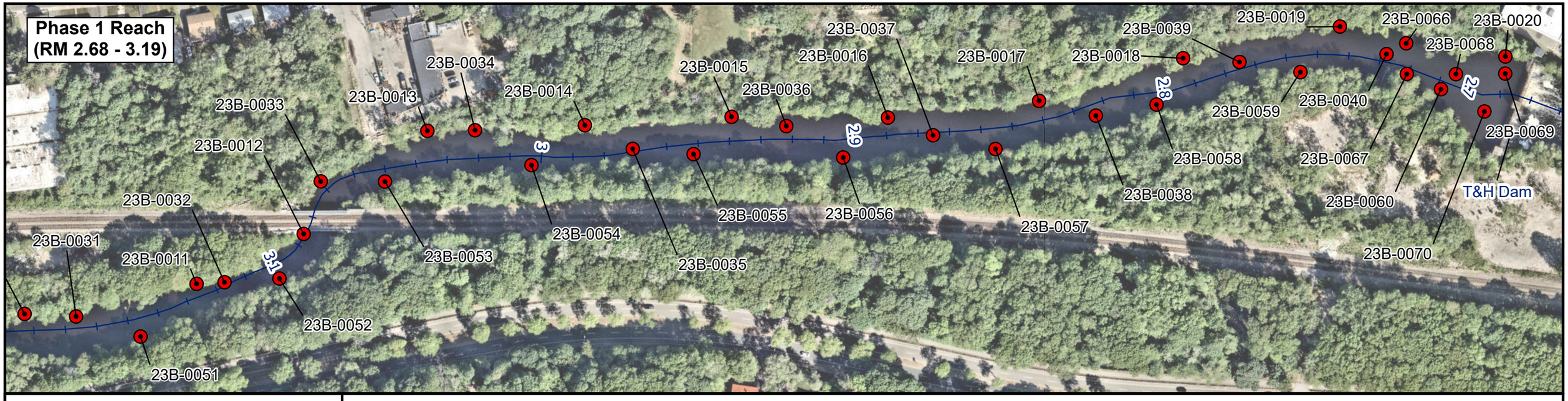


Figure 6
Phase 1 Surface Water Sampling Locations
Lower Neponset River Project

AECOM

0 75 150 300
Feet

Legend

- LNR River Miles
- Surface Water Sample Location

Maxar, Microsoft, nearmap

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Figure 7
Surface Water Reference Sampling Locations
Lower Neponset River Project

AECOM

0 120 240 480
Feet

Legend

- LNR River Miles
- Surface Water Reference Sample Location

Esri, NASA, NGA, USGS, Maxar, Microsoft, nearmap, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

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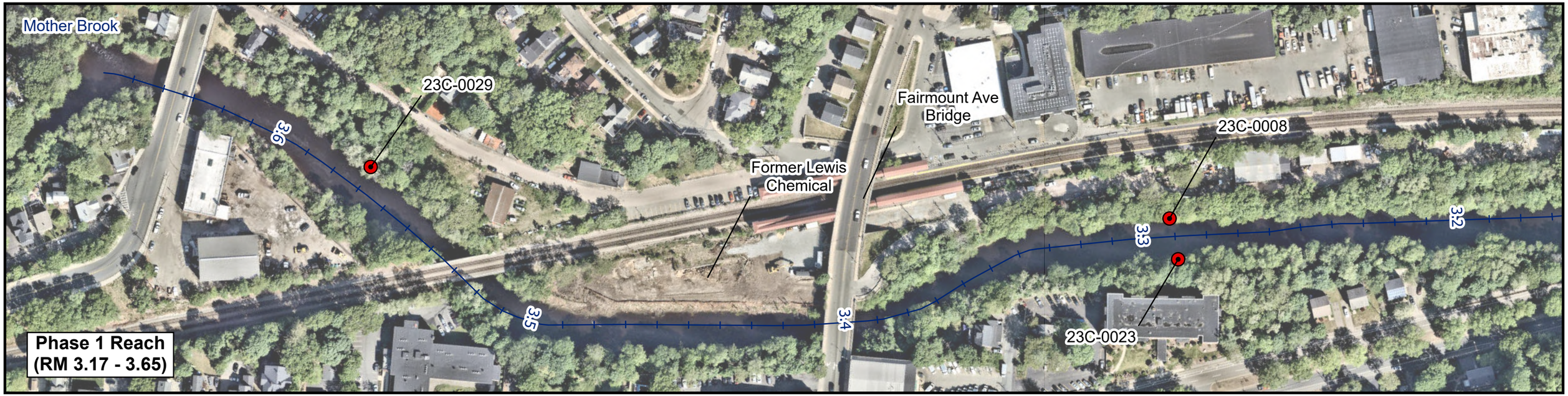




Figure 8
Phase 1 Pore Water Sampling Locations
Lower Neponset River Project

AECOM

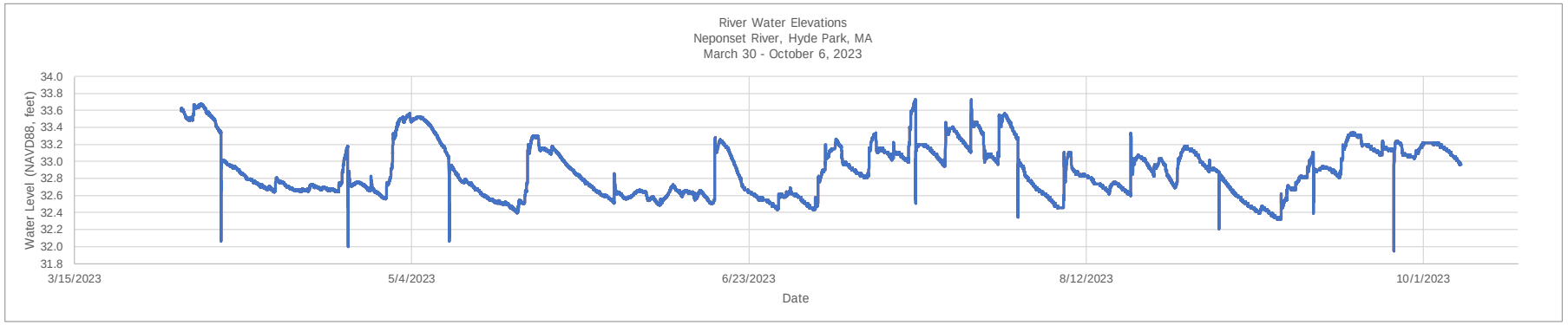
0 75 150 300
Feet

Legend

- Pore Water Sample Location
- LNR River Miles

Maxar, Microsoft, nearmap

Figure 9
River Water Elevations
Phase 1 Data Evaluation Summary Memorandum
Lower Neponset River
Boston, Massachusetts



Notes:
Elevations are in North American Vertical Datum of 1988 (NAVD 88).

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Mother Brook

23A-0021
23A-0001
23A-0022
23A-0042
23A-0002
23A-0041
23A-0003
23A-0023
23A-0043
23A-0024
23A-0061
23A-0062
23A-0063
23A-0004
23A-0064
23A-0044
23A-0025
23A-0045
Former Lewis Chemical
Fairmount Ave Bridge
23A-0007
23A-0028
23A-0008
23A-0029
23A-0009
23A-0010
23A-0005
23A-0065
23A-0026
23A-0006
23A-0048
23A-0049
23A-0030
23A-0050
23A-0046

36
35
34
33
32

Phase 1 Reach (RM 3.17 - 3.65)

Phase 1 Reach (RM 2.68 - 3.19)

23A-0034
23A-0014
23A-0015
23A-0036
23A-0037
23A-0018
23A-0039
23A-0019
23A-0040
23A-0033
23A-0012
23A-0053
23A-0054
23A-0055
23A-0056
23A-0057
23A-0058
23A-0059
23A-0067
23A-0011
23A-0032
23A-0031
23A-0052
23A-0051
23A-0068
23A-0066
23A-0020
23A-0060
23A-0069
23A-0070
T&H Dam

31
3
29
28
27

Figure 10
Total PCBs in Phase 1 Sediment
Lower Neponset River Project

AECOM

0 75 150 300
Feet

Legend

— LNR River Miles

Note:
Values presented in the legend represent the 25th, 50th, and 75th percentiles of results from Phase 1 locations.

Total PCB Concentration (mg/kg)

- Below 1.22 mg/kg
- 1.22 mg/kg - 7.08 mg/kg
- 7.08 mg/kg - 39.2 mg/kg
- Above 39.2 mg/kg

Nominal Depth Interval*

- 0 ft - 0.5 ft below surface
- 0.5 ft - 3.0 ft. below surface
- 3.0 ft - 6.0 ft below surface

*Actual sample depth intervals vary at each sample location.
If fewer than 3 depths are shown, deeper samples were not obtained.

Maxar, Microsoft, nearmap

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Figure 11
Total PCBs at Sediment Reference Locations
Lower Neponset River Project

AECOM

0 120 240 480
Feet

Legend

Total PCB Concentration (mg/kg)

- Below 1.22 mgkg
- 1.22 mg/kg - 7.08 mg/kg
- 7.08 mg/kg - 39.2 mg/kg
- Above 39.2 mg/kg

Notes:
Depth interval for reference samples is 0.0 ft - 0.5 ft.

Values presented in the legend represent the 25th, 50th, and 75th percentiles of results from the Phase 1 locations.

Esri, NASA, NGA, USGS, Boston College Campus GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Maxar, Microsoft, Nearmap

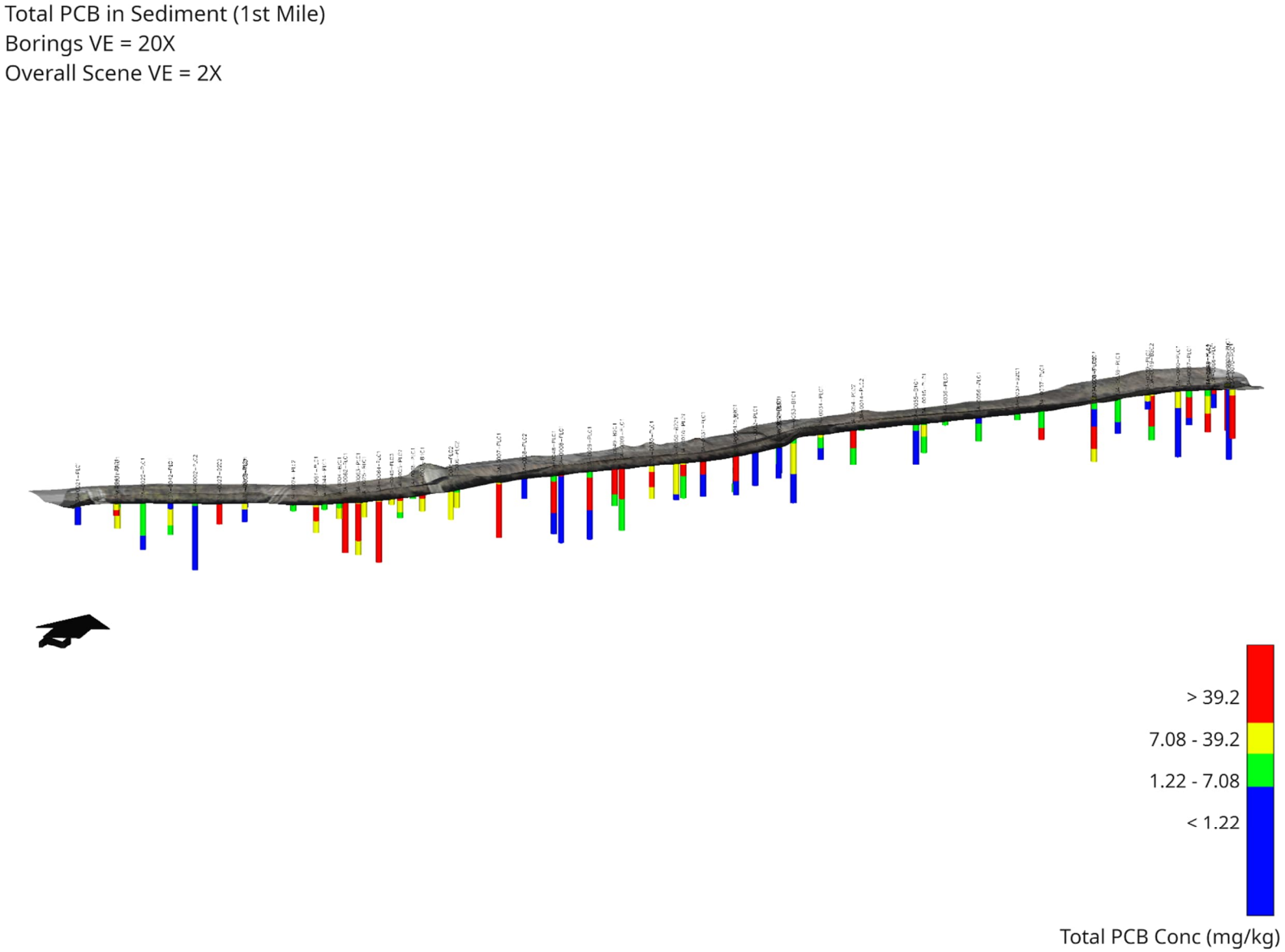


Figure 12
3-D Visualization of Total PCBs in Phase 1 Sediment
Lower Neponset River Project

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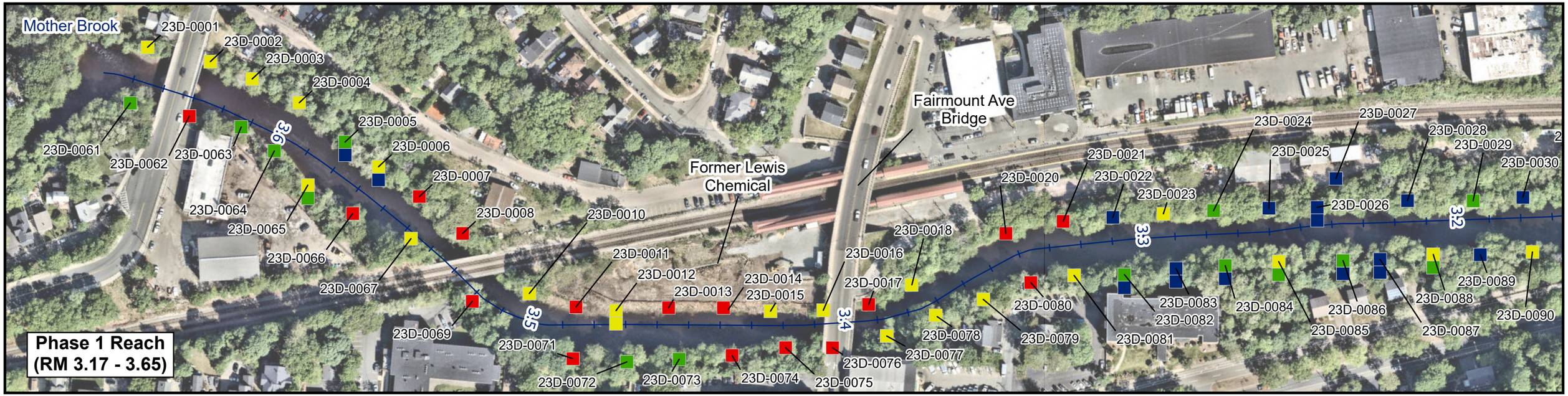


Figure 13
Total PCBs in Phase 1 Floodplain Soil
Lower Neponset River Project

AECOM

0 75 150 300
Feet

Legend

— LNR River Miles

Note:
Values presented in the legend represent the 25th, 50th, and 75th percentiles of results from floodplain soil samples.

Total PCB Concentration (mg/kg)

- Below 0.22 mg/kg
- 0.22 mg/kg - 1.41 mg/kg
- 1.47 mg/kg - 4.71 mg/kg
- Above 4.71 mg/kg

Nominal Depth Interval*

- 0.0 ft - 1.0 ft below surface
- 1.0 ft - 4.0 ft. below surface

*Actual sample depth intervals vary at each sample location.
If fewer than 2 depths are shown, deeper samples were not obtained.

Maxar, Microsoft, nearmap

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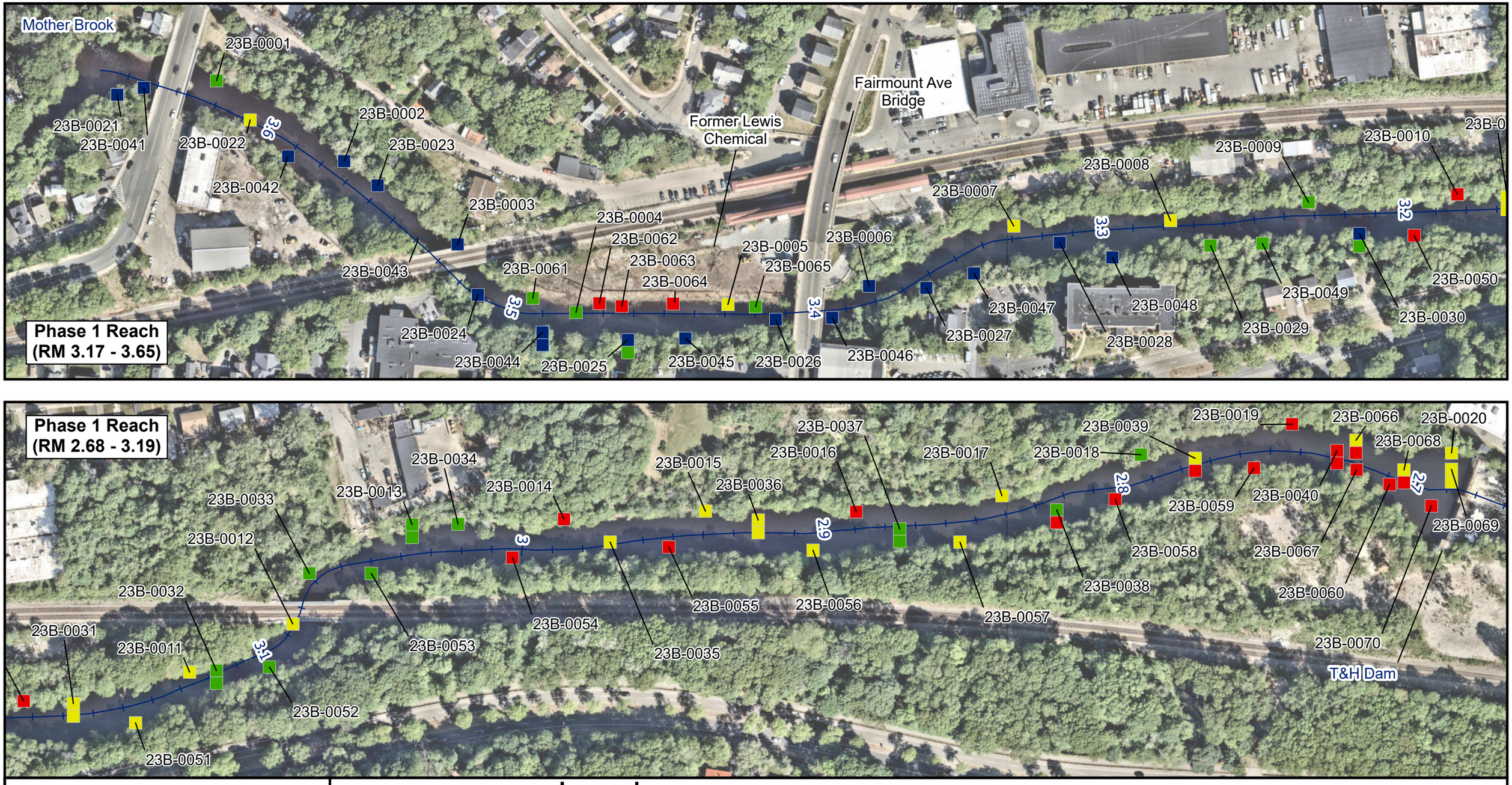


Figure 14
Total PCBs in Phase 1 Surface Water
Lower Neponset River Project

AECOM

0 75 150 300
Feet

Legend

— LNR River Miles

Total PCB Concentration (ng/L)

- Below 6.71 ng/L
- 6.71 ng/L - 8.56 ng/L
- 8.56 ng/L - 10.65 ng/L
- Above 10.65 ng/L

Note:
At each location the water depth was measured in order to determine the sampling depth(s). For locations in the Phase 1 reach, if the water depth was less than 6 feet then a single sample was collected from the mid-point of the water column. If the water depth was greater than or equal to 6 feet then samples were collected from a depth of one foot and also from a depth 2 feet above the sediment water interface. Samples drawn with two result values on the figure above indicate areas where two samples were taken.

Values presented in the legend represent the 25th, 50th, and 75th percentiles of results from Phase 1 locations.

Maxar, Microsoft, nearmap

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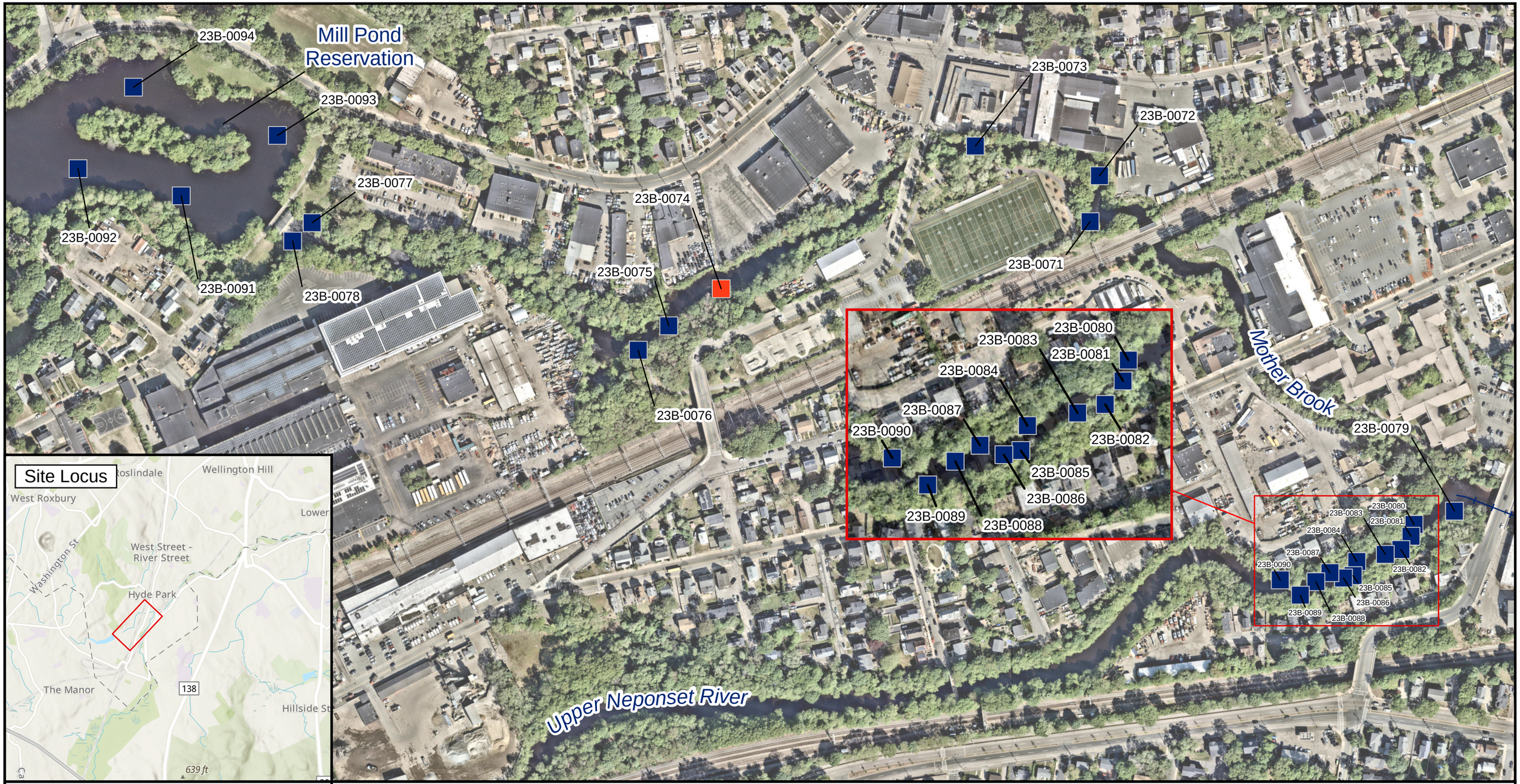


Figure 15
Total PCBs in Surface Water Reference Locations
Lower Neponset River Project

AECOM

0 120 240 480
Feet

Legend

Total PCB Concentration (ng/L)

- Below 6.71 ng/L
- 6.71 ng/L - 8.56 ng/L
- 8.56 ng/L - 10.65 ng/L
- Above 10.65 ng/L

— LNR River Miles

Note:
Values presented in the legend represent the 25th, 50th, and 75th percentiles of results from Phase 1 locations.

Each sample shown was collected from the mid-point of the water column.

Esri, NASA, NGA, USGS, Boston College Campus GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Maxar, Microsoft, Nearmap

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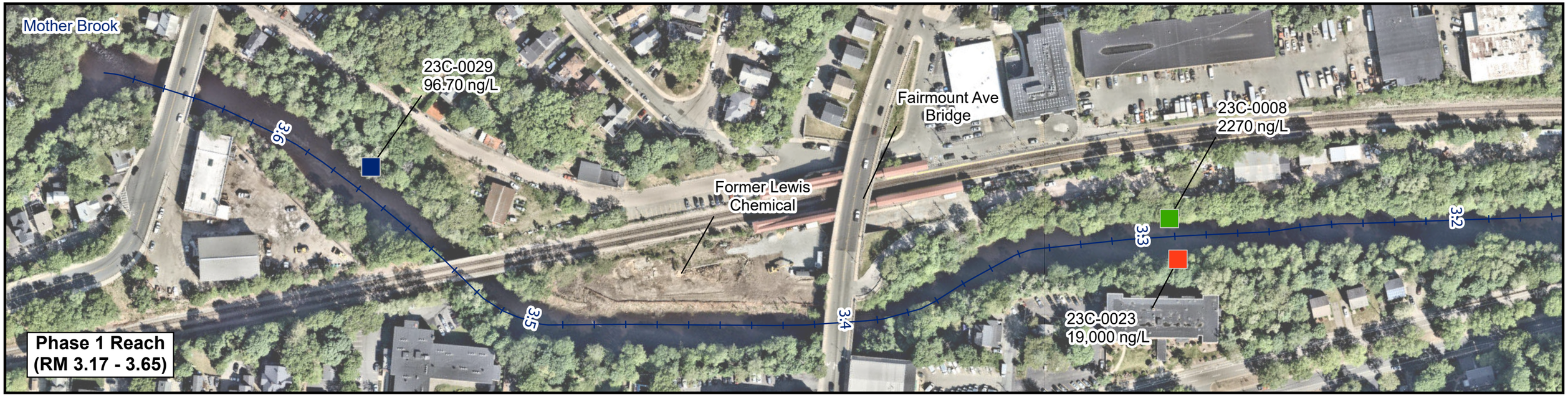




Figure 16
Total PCBs in Phase 1 Pore Water
Lower Neponset River Project

AECOM

0 75 150 300
Feet

Legend

Total PCB Concentration (ng/L)

- Below 710.0 ng/L
- 710.0 ng/L - 2,270 ng/L
- 2,270 ng/L - 3,580 ng/L
- Above 3,580 ng/L

— LNR River Miles

Note:
Values presented in the legend represent the 25th, 50th, and 75th percentiles of results from Phase 1 locations.

Depth of each sample is approximately 0.5 ft.

Maxar, Microsoft, nearmap

Attachment 1 – Field Forms

Attachment 2 – Sediment Coring Logs

Attachment 3 – Sediment Photo Log

Attachment 4 – Soil Boring Logs

Attachment 5 – Soil Photo Log

Attachment 6 – Transducer Data

Attachment 7 – Nonconformance Reports