APPENDIX A: CO-LOCATED DATA

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ACRONYMS

Acronym	Definition
BSAR	biota-sediment accumulation regression
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
HCH	hexachlorocyclohexane
ID	identification
OC	organic carbon
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PeCDF	pentachlorodibenzofuran
SWAC	spatially weight average concentration
SVOC	semivolatile organic compound
total DDx	total DDx – sum of all six DDT isomers (2,4′-DDD, 2,4′-DDE, 2,4′-DDT, 4,4′-DDD, 4,4′-DDE and 4,4′-DDT)

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1.0 EMPIRICALLY MEASURED CO-LOCATED SEDIMENT DATA

For field-collected clams, laboratory clams, laboratory worms, field-collected crayfish, and field-collected sculpin, empirically measured co-located sediment samples were collected. Individual sediment samples that made up each co-located sediment composite sample were targeted for collection from the same sampling locations where individual organisms were collected for tissue composite samples. Sediment samples were collected from the nearest practical in-water areas from individual tissue sampling locations. Co-located sample pairs include data from Rounds 1, 2, and 3 of LWG sampling, and are presented in Table 1.

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Table 1. Co-Located Samples Used in BSAR Development

			Co-Located Tissue Sample ID				
Sampling Location	**Round**	**Sediment Sample ID**	**Field-Collected Crayfish**	**Laboratory-Exposed Worm**	**Laboratory-Exposed Clam**	**Field-Collected Clam**	**Field-Collected Sculpin**
02R001	1	LWG0102R001SDS015C00	LWG0102R001TSCRWBC00				LWG0102R001TSSPWBC00
02R001	1	LWG0102R001SDS015C00					LWG0102R001TSSPWBC10
02R015	1	LWG0102R015SDS015C00	LWG0102R015TSCRWBC00				LWG0102R015TSSPWBC00
03R001	1	LWG0103R001SDS015C00	LWG0103R001TSCRWBC00				LWG0103R001TSSPWBC00
03R002	1	LWG0103R002SDS015C00	LWG0103R002TSCRWBC00				LWG0103R002TSSPWBC10
03R003	1	LWG0103R003SDS015C10	LWG0103R003TSCRWBC00				
03R004	1	LWG0103R004SDS015C11	LWG0103R004TSCRWBC00				LWG0103R004TSSPWBC10
03R004	1	LWG0103R004SDS015C20					LWG0103R004TSSPWBC20
03R005	1	LWG0103R005SDS015C00	LWG0103R005TSCRWBC00				LWG0103R005TSSPWBC00
03R032	1	LWG0103R032SDS015C00	LWG0103R032TSCRWBC00				LWG0103R032TSSPWBC00
03R034	1	LWG0103R034SDS015C00					LWG0103R034TSSPWBC00
04R003	1	LWG0104R003SDS015C00	LWG0104R003TSCRWBC00				LWG0104R003TSSPWBC00
04R004	1	LWG0104R004SDS015C00	LWG0104R004TSCRWBC10				LWG0104R004TSSPWBC00
05R001	1	LWG0105R001SDS015C00	LWG0105R001TSCRWBC00				LWG0105R001TSSPWBC00
05R003	1	LWG0105R003SDS015C00	LWG0105R003TSCRWBC00				
05R020	1	LWG0105R020SDS015C00					LWG0105R020TSSPWBC00
06R001	1	LWG0106R001SDS015C00	LWG0106R001TSCRWBC00				LWG0106R001TSSPWBC00
06R002	1	LWG0106R002SDS015C10				LWG0106R002TSCAWBC00	LWG0106R002TSSPWBC10
06R002	1	LWG0106R002SDS015C20					LWG0106R002TSSPWBC20
06R004	1	LWG0106R004SDS015C00	LWG0106R004TSCRWBC10				LWG0106R004TSSPWBC00
07R003	1	LWG0107R003SDS015C00	LWG0107R003TSCRWBC00			LWG0107R003TSCAWBC00	LWG0107R003TSSPWBC00
07R004	1	LWG0107R004SDS015C00	LWG0107R004TSCRWBC00				
07R006	1	LWG0107R006SDS015C00	LWG0107R006TSCRWBC00			LWG0107R006TSCAWBC00	LWG0107R006TSSPWBC00
08R001	1	LWG0108R001SDS015C00	LWG0108R001TSCRWBC00				LWG0108R001TSSPWBC00
08R002	1	LWG0108R002SDS015C00	LWG0108R002TSCRWBC00				LWG0108R002TSSPWBC00
08R003	1	LWG0108R003SDS015C00	LWG0108R003TSCRWBC00				LWG0108R003TSSPWBC00
09R001	1	LWG0109R001SDS015C10	LWG0109R001TSCRWBC10				LWG0109R001TSSPWBC00
09R001	1	LWG0109R001SDS015C20	LWG0109R001TSCRWBC20				
09R002	1	LWG0109R002SDS015C00	LWG0109R002TSCRWBC00				LWG0109R002TSSPWBC00

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Table 1. Co-Located Samples Used in BSAR Development

			Co-Located Tissue Sample ID				
Sampling Location	**Round**	**Sediment Sample ID**	**Field-Collected Crayfish**	**Laboratory-Exposed Worm**	**Laboratory-Exposed Clam**	**Field-Collected Clam**	**Field-Collected Sculpin**
BT001/FC001	2	LW2-GBT001		LW2-BTLW001	LW2-BTLC001	LW2-BTFC001	
BT002/FC002	2	LW2-GBT002		LW2-BTLW002	LW2-BTLC002	LW2-BTFC002	
BT003/FC003	2	LW2-GBT003		LW2-BTLW003	LW2-BTLC003	LW2-BTFC003	
BT004/FC004	2	LW2-GBT004		LW2-BTLW004	LW2-BTLC004	LW2-BTFC004	
BT005/FC005	2	LW2-GBT005		LW2-BTLW005	LW2-BTLC005	LW2-BTFC005	
BT006-1/ FC006-1	2	LW2-GBT006-1		LW2-BTLW006-1	LW2-BTLC006-1	LW2-BTFC006 Rep 1	
BT006-2	2	LW2-GBT006-2		LW2-BTLW006-2	LW2-BTLC006-2		
BT007/FC007	2	LW2-GBT007		LW2-BTLW007	LW2-BTLC007	LW2-BTFC007	
BT008/FC008	2	LW2-GBT008		LW2-BTLW008	LW2-BTLC008	LW2-BTFC008	
BT009/FC009	2	LW2-GBT009		LW2-BTLW009	LW2-BTLC009	LW2-BTFC009	
BT010/FC010	2	LW2-GBT010		LW2-BTLW010	LW2-BTLC010	LW2-BTFC010	
BT011	2	LW2-GBT011		LW2-BTLW011	LW2-BTLC011	LW2-BTFC011	
BT012/FC012	2	LW2-GBT012		LW2-BTLW012	LW2-BTLC012	LW2-BTFC012	
BT013/FC013	2	LW2-GBT013		LW2-BTLW013	LW2-BTLC013	LW2-BTFC013	
BT014/FC014	2	LW2-GBT014		LW2-BTLW014	LW2-BTLC014	LW2-BTFC014	
BT015/FC015	2	LW2-GBT015		LW2-BTLW015	LW2-BTLC015	LW2-BTFC015	
BT016/FC016	2	LW2-GBT016		LW2-BTLW016	LW2-BTLC016	LW2-BTFC016	
BT017/FC017	2	LW2-GBT017		LW2-BTLW017	LW2-BTLC017	LW2-BTFC017	
BT018	2	LW2-GBT018		LW2-BTLW018	LW2-BTLC018	LW2-BTFC018	
BT019/FC019	2	LW2-GBT019		LW2-BTLW019	LW2-BTLC019	LW2-BTFC019	
BT020/FC020	2	LW2-GBT020		LW2-BTLW020	LW2-BTLC020	LW2-BTFC020	
BT021/FC021	2	LW2-GBT021		LW2-BTLW021	LW2-BTLC021	LW2-BTFC021	
BT022/FC022	2	LW2-GBT022		LW2-BTLW022	LW2-BTLC022	LW2-BTFC022	
BT023/FC023	2	LW2-GBT023		LW2-BTLW023	LW2-BTLC023	LW2-BTFC023	
BT024/FC024	2	LW2-GBT024		LW2-BTLW024	LW2-BTLC024	LW2-BTFC024	
BT025/FC025	2	LW2-GBT025		LW2-BTLW025	LW2-BTLC025	LW2-BTFC025	
BT026/FC026	2	LW2-GBT026		LW2-BTLW026	LW2-BTLC026	LW2-BTFC026	
BT027-1/	2	LW2-GBT027-1		LW2-BTLW027-1	LW2-BTLC027-1	LW2-BTFC027 Rep 1	

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Table 1. Co-Located Samples Used in BSAR Development

			Co-Located Tissue Sample ID				
Sampling Location	**Round**	**Sediment Sample ID**	**Field-Collected Crayfish**	**Laboratory-Exposed Worm**	**Laboratory-Exposed Clam**	**Field-Collected Clam**	**Field-Collected Sculpin**
FC027-1							
BT027-2	2	LW2-GBT027-2		LW2-BTLW027-2	LW2-BTLC027-2		
BT028/FC028	2	LW2-GBT028		LW2-BTLW028	LW2-BTLC028	LW2-BTFC028	
BT029	2	LW2-GBT029		LW2-BTLW029	LW2-BTLC029	LW2-BTFC029	
BT030/FC030	2	LW2-GBT030		LW2-BTLW030	LW2-BTLC030	LW2-BTFC030	
BT031/FC031	2	LW2-GBT031		LW2-BTLW031	LW2-BTLC031	LW2-BTFC031	
BT032	2	LW2-GBT032		LW2-BTLW032	LW2-BTLC032	LW2-BTFC032	
BT033	2	LW2-GBT033		LW2-BTLW033	LW2-BTLC033	LW2-BTFC033	
CA02W	3	LW3-GCA02W-C10				LW3-CA02W-C00	
SP03E	3	LW3-GSP03E					LW3-SP03E-C00
CA03W	3	LW3-GCA03W-C00				LW3-CA03W-C00	
CA04W	3	LW3-GCA04W-C00				LW3-CA04W-C00	
SP04W	3	LW3-GSP04W					LW3-SP04W-C00
CA05E	3	LW3-GCA05E-C00				LW3-CA05E-C00	
SP05E	3	LW3-GSP05E					LW3-SP05E-C00
CR05W	3	LW3-GCR05W	LW3-CR05W-C00				
CA05W	3	LW3-GCA05W-C00				LW3-CA05W-C00	
CR06W	3	LW3-GCRSP06W	LW3-CR06W-C00				
SP06W	3	LW3-GCRSP06W					LW3-SP06W-C00
SP07E	3	LW3-GSP07E					LW3-SP07E-C00
SP07W	3	LW3-GSP07W					LW3-SP07W-C00
SP08E	3	LW3-GSP08E					LW3-SP08E-C00
CR08W	3	LW3-GCRSP08W	LW3-CR08W-C00				
SP08W	3	LW3-GCRSP08W					LW3-SP08W-C00
SP09W	3	LW3-GSP09W					LW3-SP09W-C00
SP10E	3	LW3-GSP10E					LW3-SP10E-C00
CR10W	3	LW3-GCR10W	LW3-CR10W-C00				
CA10W	3	LW3-GCA10W-C00				LW3-CA10W-C00	
SP10W	3	LW3-GSP10W					LW3-SP10W-C00

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Table 1. Co-Located Samples Used in BSAR Development

			Co-Located Tissue Sample ID				
Sampling Location	**Round**	**Sediment Sample ID**	**Field-Collected Crayfish**	**Laboratory-Exposed Worm**	**Laboratory-Exposed Clam**	**Field-Collected Clam**	**Field-Collected Sculpin**
CR11E	3	LW3-GCRSP11E	LW3-CR11E-C01				
CA11E	3	LW3-GCA11E-C00				LW3-CA11E-C00	
SP11E	3	LW3-GCRSP11E					LW3-SP11E-C00
Total number of co-located pairs			**28**	**35**	**35**	**43**	**37**

ID – identification

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These co-located data pairs were used to develop BSARs for crayfish, laboratory-exposed worms, and field-clams. Laboratory exposed clams were not used to develop BSARs because field-collected data was available, as discussed in the main body of the bioaccumulation modeling report. The co-located sediment data for sculpin were not used because sediment SWACs were calculated for each sculpin sample to better represent the sediment to which sculpin were exposed (see Section 2.0 of this appendix and Section 3.3.3 of the bioaccumulation modeling report).

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2.0 CALCULATED CO-LOCATED SEDIMENT SWACS

For both sculpin and smallmouth bass, the co-located sediment data used both for BSAR development and for use in the mechanistic model was calculated sediment SWAC. The specifics of these SWACs are discussed in further detail in Section 3.3.3 of the bioaccumulation modeling report

2.1 SCULPIN SWACS

To develop biota-sediment accumulation regressions (BSARs) and to evaluate mechanistic model performance, spatially weighted average concentrations (SWACs) for smaller spatial scales were calculated around sculpin collection locations as described in Section 3.3.3 of the bioaccumulation modeling report. Briefly, the exposure area selected for sculpin was a circle of 0.1-mile radius centered on the sculpin composite sample centroid. Foraging ranges reported in the literature support small home ranges for sculpin. Sculpin movements of over 200 ft have been reported in the literature (Hill and Grossman 1987; Natsumeda 1998, 1999, 2001; Petty and Grossman 2004; Cunjak et al. 2005). An exposure radius of approximately 0.1 mile (500 ft) was assumed to be representative of the foraging area of the sculpin and their prey in a given composite sample and to approximate the area over which the individuals in a composite sample were collected. The SWAC for that circular area was used as the sediment exposure concentration for the co-located sculpin composite.

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Table 2. Sculpin SWACs for BSAR Chemicals: Metals and Butyltins

	Cadmium (mg/kg dw)			Copper (mg/kg dw)			Lead (mg/kg dw)			Tributyltin (mg/kg OC)		
Sample ID	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0102R015TSSPWBC00	0.19	1.92	0.55	20.9	52.6	40.1	12.0	105.7	24.8	0.19	0.22	0.21
LWG0102R001TSSPWBC00	0.15	1.57	0.38	18.8	46.2	36.7	8.1	105.7	18.2	NA	NA	NA
LWG0102R001TSSPWBC10	0.15	1.57	0.38	18.8	46.2	36.7	8.1	105.7	18.2	0.20	0.24	0.22
LWG0103R001TSSPWBC00	0.06	0.37	0.28	11.0	45.7	35.7	6.1	16.4	13.3	0.25	0.43	0.32
LWG0103R002TSSPWBC10	0.11	0.39	0.26	21.9	41.8	36.0	10.3	19.0	13.3	0.15	2.58	0.99
LWG0103R002TSSPWBC20	0.12	0.39	0.26	21.9	41.8	36.6	10.3	19.0	13.3	0.15	2.71	1.07
LW3-SP03E-C00	0.12	0.59	0.28	15.0	63.5	34.5	5.9	27.6	14.5	1.1	2267	223
LWG0103R005TSSPWBC00	0.20	2.59	0.61	16.6	133.4	52.3	11.5	202.3	58.7	0.84	6.74	2.90
LWG0103R032TSSPWBC00	0.11	0.40	0.24	20.0	39.9	33.0	5.2	25.5	13.6	0.89	4.49	3.09
LWG0103R034TSSPWBC00	0.06	0.38	0.17	16.0	58.4	25.5	2.7	33.8	11.3	0.22	4127	495
LWG0103R004TSSPWBC10	0.16	3.46	0.52	12.9	213.2	51.0	10.0	118.5	28.5	0.51	4.6	1.6
LWG0103R004TSSPWBC20	0.15	3.46	0.50	10.6	213.2	49.7	8.2	118.5	27.9	0.49	4.6	1.5
LWG0104R003TSSPWBC00	0.01	5.68	1.30	13.5	61.5	33.8	8.8	1906	266	0.61	1.9	1.3
LW3-SP04W-C00	0.12	0.38	0.22	15.2	69.2	35.3	9.2	60.7	15.0	0.06	1.6	0.54
LWG0104R002TSSPWBC00	0.20	10.05	3.93	16.0	63.0	44.2	5.4	1660	566	0.69	2.6	1.7
LWG0104R004TSSPWBC00	0.08	0.38	0.21	7.0	69.2	30.8	3.0	60.7	16.8	0.06	2.2	1.02
LWG0105R001TSSPWBC00	0.05	0.32	0.20	13.9	47.7	31.2	5.3	32.8	12.0	1.6	9.9	7.02
LW3-SP05E-C00	0.02	0.49	0.24	11.3	323.4	76.5	3.4	117.3	27.8	1.3	22.8	6.3
LWG0105R020TSSPWBC00	0.08	0.29	0.17	14.7	336.4	41.4	5.3	43.5	15.1	0.13	36.4	9.01
LWG0106R001TSSPWBC00	0.04	0.39	0.23	18.2	60.2	41.3	5.0	55.1	20.9	0.20	2.41	0.76
LW3-SP06W-C00	0.08	0.49	0.22	13.4	54.2	35.5	3.4	55.4	17.1	0.23	5.25	1.3

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Table 2. Sculpin SWACs for BSAR Chemicals: Metals and Butyltins

	Cadmium (mg/kg dw)			Copper (mg/kg dw)			Lead (mg/kg dw)			Tributyltin (mg/kg OC)		
Sample ID	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0106R002TSSPWBC10	0.13	1.96	0.34	27.1	369.3	61.5	10.8	12961	701	0.03	15.9	3.0
LWG0106R002TSSPWBC20	0.13	1.96	0.34	28.7	369.3	61.8	10.8	12961	699	0.03	15.9	2.8
LWG0106R004TSSPWBC00	0.00	0.65	0.22	12.5	262.7	39.7	5.4	239.3	33.0	0.16	4.38	2.03
LWG0107R006TSSPWBC00	0.11	0.41	0.26	25.6	142.7	49.0	10.1	1195.9	49.3	0.21	6.76	2.0
LW3-SP07E-C00	0.18	0.99	0.31	37.8	278.7	60.8	9.0	220.6	26.1	1.1	84.5	14.3
LWG0107R003TSSPWBC00	0.05	0.47	0.21	16.2	258.6	40.5	9.1	139.4	16.8	0.21	5.40	2.33
LW3-SP07W-C00	0.00	0.69	0.30	15.6	58.9	37.5	6.0	66.4	19.7	0.01	1.1	0.32
LWG0108R002TSSPWBC00	0.12	0.54	0.32	16.8	96.5	37.8	11.2	49.0	15.2	1.06	12.75	6.3
LWG0108R003TSSPWBC00	0.10	0.69	0.33	66.0	1038	302.5	10.6	99.9	35.7	11.6	498	187
LW3-SP08E-C00	0.09	1.24	0.49	14.9	172.9	89.7	6.2	53.8	28.9	0.15	50.26	12.8
LWG0108R001TSSPWBC00	0.09	1.04	0.33	14.2	255.5	58.2	3.5	451.2	53.8	0.10	1.4	0.65
LW3-SP08W-C00	0.11	5.13	0.43	33.2	353.4	63.9	11.3	908.7	51.5	0.07	2.3	0.67
LWG0109R001TSSPWBC00	0.00	1.51	0.58	13.2	127.5	76.8	4.7	56.2	35.9	1.3	446	25.8
LW3-SP09W-C00	0.16	1.16	0.29	21.2	202.4	43.1	9.1	166.5	23.8	0.02	2.49	0.22
LWG0109R002TSSPWBC00	0.16	1.96	0.53	25.6	79.2	38.1	14.3	77.0	25.4	0.31	0.70	0.43
LW3-SP10E-C00	0.13	5.65	0.71	16.9	114.0	40.6	9.6	135.7	25.6	0.06	0.50	0.26
LW3-SP10W-C00	0.18	0.66	0.30	36.7	275.5	81.6	14.1	199.3	38.2	0.11	0.25	0.19
LW3-SP11E-C00	0.08	1.92	0.28	14.2	1591	110.5	4.2	131.4	43.9	0.19	0.70	0.41

Note – No sample counts are provided for sculpin SWAC statistics because the statistics are based on the natural neighbors interpolation, not individual samples.
BSAR – biota-sediment accumulation regression
NA – not applicable
SWAC – spatially weighted average concentration
ID – identification
OC – organic carbon

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Table 3a. Sculpin SWACs for Mechanistic Model Chemicals: PCBs~~ and Dioxins and Furans~~

	Total PCBs (µg/kg dw)			PCB 77 (µg/kg dw)			PCB 126 (µg/kg dw)			~~2,3,4,7,8 PeCDF (µg/kg dw)~~		
Sample ID	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	~~**Min**~~	~~**Max**~~	~~**Mean**~~
LWG0102R015TSSPWBC00	20.1	1898	449	0.034	33.37	4.04	0.0033	1.02	0.136	~~0.000017~~	~~0.0027~~	~~0.00084~~
LWG0102R001TSSPWBC00	18.2	1606	247	0.036	33.37	4.87	0.0024	1.02	0.154	~~0.000060~~	~~0.0027~~	~~0.00149~~
LWG0102R001TSSPWBC10	18.2	1606	247	0.036	33.37	4.87	0.0024	1.02	0.154	~~0.000060~~	~~0.0027~~	~~0.00149~~
LWG0103R001TSSPWBC00	2.6	33.9	22.8	0.007	0.08	0.04	0.0006	0.005	0.003	~~0.000011~~	~~0.0002~~	~~0.00009~~
LWG0103R002TSSPWBC10	1.5	29.2	14.3	0.023	0.03	0.03	0.0028	0.004	0.004	~~0.000032~~	~~0.0016~~	~~0.00027~~
LWG0103R002TSSPWBC20	1.5	29.2	14.5	0.023	0.03	0.03	0.0027	0.004	0.004	~~0.000032~~	~~0.0016~~	~~0.00025~~
LW3-SP03E-C00	3.2	220.0	61.5	0.011	0.07	0.03	0.0015	0.022	0.007	~~0.000112~~	~~0.0005~~	~~0.00016~~
LWG0103R005TSSPWBC00	38.3	3394	879	0.061	1.51	0.74	0.0128	1.09	0.261	~~0.000125~~	~~0.0055~~	~~0.00216~~
LWG0103R032TSSPWBC00	1.3	37.5	19.0	0.025	0.05	0.04	0.0031	0.007	0.006	~~0.000194~~	~~0.0004~~	~~0.00031~~
LWG0103R034TSSPWBC00	13.3	569	98.7	0.045	0.63	0.29	0.0074	0.240	0.107	~~0.000202~~	~~0.0003~~	~~0.00023~~
LWG0103R004TSSPWBC10	8.1	1668	195	0.027	1.31	0.42	0.0016	0.045	0.013	~~0.000043~~	~~0.0010~~	~~0.00042~~
LWG0103R004TSSPWBC20	2.2	1668	186	0.013	1.31	0.40	0.0011	0.045	0.013	~~0.000025~~	~~0.0010~~	~~0.00040~~
LWG0104R003TSSPWBC00	5.7	137	66.7	0.086	0.25	0.16	0.0137	0.050	0.027	~~0.002395~~	~~0.0082~~	~~0.00493~~
LW3-SP04W-C00	2.3	129	28.2	0.034	0.09	0.06	0.0046	0.016	0.009	~~0.000023~~	~~0.0060~~	~~0.00188~~
LWG0104R002TSSPWBC00	6.1	65.8	39.9	0.055	0.10	0.08	0.0081	0.016	0.012	~~0.002702~~	~~0.0047~~	~~0.00353~~
LWG0104R004TSSPWBC00	1.3	129	29.5	0.034	0.09	0.05	0.0046	0.026	0.012	~~0.000022~~	~~0.0060~~	~~0.00200~~
LWG0105R001TSSPWBC00	4.3	32.5	16.5	0.032	0.07	0.04	0.0032	0.012	0.005	~~0.000900~~	~~0.0016~~	~~0.00125~~
LW3-SP05E-C00	0.86	181	36.1	0.002	0.15	0.05	0.0005	0.034	0.009	~~0.000207~~	~~0.0072~~	~~0.00098~~
LWG0105R020TSSPWBC00	2.3	221	21.7	0.020	0.05	0.03	0.0030	0.010	0.005	~~0.000610~~	~~0.0027~~	~~0.00153~~
LWG0106R001TSSPWBC00	5.5	117	29.0	0.027	0.19	0.08	0.0030	0.016	0.008	~~0.000344~~	~~0.0008~~	~~0.00050~~
LW3-SP06W-C00	5.2	166	41.5	0.038	0.27	0.13	0.0028	0.023	0.013	~~0.000689~~	~~0.0061~~	~~0.00293~~
LWG0106R002TSSPWBC10	1.9	3119	124	0.003	0.24	0.05	0.0007	0.294	0.030	~~0.000128~~	~~0.0547~~	~~0.00739~~
LWG0106R002TSSPWBC20	1.9	3119	125	0.003	0.24	0.05	0.0008	0.294	0.030	~~0.000137~~	~~0.0547~~	~~0.00732~~

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Table 3a. Sculpin SWACs for Mechanistic Model Chemicals: PCBs~~ and Dioxins and Furans~~

	Total PCBs (µg/kg dw)			PCB 77 (µg/kg dw)			PCB 126 (µg/kg dw)			~~2,3,4,7,8-PeCDF (µg/kg dw)~~		
Sample ID	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	~~**Min**~~	~~**Max**~~	~~**Mean**~~
LWG0106R004TSSPWBC00	1.8	343	71.9	0.030	0.78	0.20	0.0030	0.030	0.013	~~0.000135~~	~~0.0461~~	~~0.00657~~
LWG0107R006TSSPWBC00	8.4	1567	190	0.024	2.96	0.69	0.0022	0.276	0.053	~~0.000458~~	~~9.14~~	~~1.76~~
LW3-SP07E-C00	8.3	263	39.9	0.012	0.06	0.03	0.0014	0.011	0.005	~~0.000316~~	~~0.0035~~	~~0.00094~~
LWG0107R003TSSPWBC00	4.2	1216	93.2	0.015	0.82	0.10	0.0026	0.042	0.008	~~0.000122~~	~~2.66~~	~~0.05759~~
LW3-SP07W-C00	0.7	736	217	0.006	0.14	0.07	0.0019	0.010	0.006	~~0.000044~~	~~0.0014~~	~~0.00020~~
LWG0108R002TSSPWBC00	1.8	106	41.4	0.043	0.10	0.06	0.0059	0.021	0.009	~~0.000024~~	~~0.0001~~	~~0.00005~~
LWG0108R003TSSPWBC00	5.1	1553	268	0.044	0.66	0.24	0.0098	0.213	0.061	~~0.000007~~	~~0.0004~~	~~0.00022~~
LW3-SP08E-C00	12.6	416	177	0.007	0.28	0.11	0.0012	0.092	0.038	~~0.000198~~	~~0.0004~~	~~0.00024~~
LWG0108R001TSSPWBC00	8.8	299	60.2	0.047	0.20	0.09	0.0046	0.035	0.011	~~0.000053~~	~~0.0005~~	~~0.00019~~
LW3-SP08W-C00	15.1	29240	631	0.196	95.25	8.31	0.0107	1.93	0.186	~~0.000068~~	~~0.0016~~	~~0.00066~~
LWG0109R001TSSPWBC00	5.3	296	125	0.051	0.30	0.18	0.0132	0.081	0.046	~~0.000273~~	~~0.0041~~	~~0.00137~~
LW3-SP09W-C00	14.0	2345	203	0.016	4.25	0.81	0.0022	0.405	0.113	~~0.001559~~	~~0.0041~~	~~0.00270~~
LWG0109R002TSSPWBC00	93.3	625	251	0.090	0.96	0.26	0.0142	0.060	0.027	~~0.000149~~	~~0.0019~~	~~0.00085~~
LW3-SP10E-C00	13.2	164	40.6	0.014	0.04	0.02	0.0013	0.005	0.003	~~0.000047~~	~~0.0007~~	~~0.00025~~
LW3-SP10W-C00	35.5	899	124	0.019	0.06	0.04	0.0050	0.026	0.013	~~0.000284~~	~~0.0037~~	~~0.00118~~
LW3-SP11E-C00	176.9	5900	1297	0.005	0.07	0.02	0.0022	0.271	0.022	~~0.000158~~	~~0.0006~~	~~0.00035~~

Note – No sample counts are provided for sculpin SWAC statistics because the statistics are based on the natural neighbors interpolation, not individual samples.
ID – identification
PCB – polychlorinated biphenyl
~~PeCDF – pentachlorodibenzofuran~~
SWAC – spatially weighted average concentration

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Table 3b. Sculpin SWACs for Mechanistic Model Chemicals: Pesticides

	4,4′-DDD (µg/kg dw)			4,4′-DDE (µg/kg dw)			4,4′-DDT (µg/kg dw)			Aldrin (µg/kg dw)			alpha-HCH (µg/kg dw)		
Sample ID	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0102R015TSSPWBC00	0.36	3.9	1.6	0.07	7.2	2.5	0.34	10.9	2.1	0.017	4.7	0.89	0.033	0.95	0.29
LWG0102R001TSSPWBC00	0.36	3.4	1.6	0.34	7.2	2.6	0.23	10.9	1.9	0.019	4.7	1.0	0.034	2.11	0.26
LWG0102R001TSSPWBC10	0.36	3.4	1.6	0.34	7.2	2.6	0.23	10.9	1.9	0.019	4.7	1.0	0.034	2.11	0.26
LWG0103R001TSSPWBC00	0.07	2.9	1.6	0.04	3.0	2.2	0.05	9.6	3.4	0.010	1.0	0.23	0.009	0.16	0.093
LWG0103R002TSSPWBC10	1.9	9.8	3.6	0.66	6.7	2.6	0.68	203	10.9	0.035	1.1	0.47	0.060	2.11	0.27
LWG0103R002TSSPWBC20	1.9	9.8	3.6	0.91	6.7	2.7	0.63	203	10.5	0.035	1.1	0.45	0.060	2.29	0.30
LW3-SP03E-C00	0.28	2.0	1.4	0.20	2.5	1.6	0.19	40	6.8	0.028	1.6	0.45	0.019	1.11	0.11
LWG0103R005TSSPWBC00	0.48	22.6	5.0	0.27	17.6	3.1	0.19	29	4.4	0.017	1.2	0.41	0.012	0.97	0.22
LWG0103R032TSSPWBC00	0.39	29.2	6.4	0.30	5.4	2.6	0.51	29	5.0	0.024	0.59	0.23	0.030	1.38	0.21
LWG0103R034TSSPWBC00	0.19	8.6	1.6	0.14	3.9	1.0	0.18	7.3	1.1	0.035	0.80	0.25	0.007	0.44	0.088
LWG0103R004TSSPWBC10	0.93	8.7	3.2	0.82	6.5	2.3	1.0	11.2	3.4	0.033	3.1	0.36	0.030	0.78	0.13
LWG0103R004TSSPWBC20	0.56	8.7	3.2	0.44	6.5	2.3	1.0	11.2	3.4	0.029	3.1	0.35	0.030	0.78	0.12
LWG0104R003TSSPWBC00	0.21	8.6	2.1	0.20	4.7	2.1	0.23	8.4	2.9	0.10	4.8	0.74	0.013	3.43	0.52
LW3-SP04W-C00	1.4	33.5	4.8	0.64	8.8	3.1	0.18	45.4	3.6	0.025	1.2	0.25	0.012	4.22	0.24
LWG0104R002TSSPWBC00	0.28	12.9	3.3	0.30	3.4	1.7	0.23	13.9	3.8	0.087	0.45	0.24	0.041	0.48	0.24
LWG0104R004TSSPWBC00	0.58	41.8	6.1	0.15	8.8	2.6	0.08	45.4	1.8	0.022	1.2	0.24	0.012	5.59	0.50
LWG0105R001TSSPWBC00	0.22	2.5	1.6	0.26	3.0	1.5	0.18	4.8	1.1	0.030	0.79	0.41	0.024	1.41	0.20
LW3-SP05E-C00	0.25	90	4.5	0.23	6.6	1.8	0.14	61	4.0	0.022	1.5	0.43	0.023	1.57	0.21
LWG0105R020TSSPWBC00	0.66	74	19.9	0.39	5.3	2.5	0.40	33	10.0	0.040	9.2	2.1	0.018	0.78	0.14
LWG0106R001TSSPWBC00	1.5	100	13.4	1.8	8.7	3.5	0.90	197	22.5	0.029	3.5	0.74	0.021	1.09	0.35
LW3-SP06W-C00	2.8	597	74.6	0.81	37	9.8	2.4	141	21.9	0.086	0.84	0.43	0.028	0.73	0.22
LWG0106R002TSSPWBC10	0.21	41	3.1	0.10	4.5	1.7	0.14	291	11.9	0.023	0.47	0.12	0.012	0.48	0.14

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Table 3b. Sculpin SWACs for Mechanistic Model Chemicals: Pesticides

	4,4′-DDD (µg/kg dw)			4,4′-DDE (µg/kg dw)			4,4′-DDT (µg/kg dw)			Aldrin (µg/kg dw)			alpha-HCH (µg/kg dw)		
Sample ID	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0106R002TSSPWBC20	0.21	43	3.5	0.10	4.6	1.7	0.14	298	13.7	0.023	0.48	0.13	0.012	0.48	0.14
LWG0106R004TSSPWBC00	0.63	316	41.6	0.47	827	35.9	0.33	433	32.3	0.018	24.5	2.2	0.022	22.1	1.09
LWG0107R006TSSPWBC00	1.8	2683	214.9	1.6	664	63.1	1.5	11592	1288	0.12	628	11.3	0.050	40.8	2.66
LW3-SP07E-C00	0.55	2.6	1.1	0.80	2.8	1.7	0.06	11.0	1.2	0.022	0.89	0.19	0.014	0.89	0.12
LWG0107R003TSSPWBC00	1.6	2683	67.6	0.30	1107	47.3	0.12	11592	297	0.028	46.5	2.4	0.033	46.2	2.03
LW3-SP07W-C00	0.26	272	61.0	0.15	55.5	14.4	0.13	36	2.6	0.018	0.95	0.39	0.019	0.64	0.12
LWG0108R002TSSPWBC00	0.36	2.0	1.2	0.38	2.9	1.7	0.05	2.1	0.3	0.016	0.23	0.05	0.017	0.13	0.05
LWG0108R003TSSPWBC00	0.41	8.9	2.9	0.58	8.1	3.0	0.08	139	13.4	0.030	1.01	0.18	0.012	1.00	0.13
LW3-SP08E-C00	0.27	3.6	2.0	0.18	4.9	2.1	0.20	2.2	1.0	0.024	0.81	0.13	0.024	0.81	0.12
LWG0108R001TSSPWBC00	1.0	58	8.1	1.4	72	7.0	0.31	62	7.6	0.024	17.5	0.98	0.013	1.30	0.26
LW3-SP08W-C00	0.78	1026	22.3	1.6	2129	45.9	0.31	27	2.5	0.061	126	4.0	0.021	9.51	0.27
LWG0109R001TSSPWBC00	0.17	2.9	1.7	0.10	4.1	2.3	0.11	7.8	2.3	0.11	3.0	0.77	0.038	1.55	0.40
LW3-SP09W-C00	0.25	10.6	2.9	1.1	19.0	4.8	0.06	9.5	1.6	0.032	4.8	0.50	0.030	4.82	0.41
LWG0109R002TSSPWBC00	0.54	4.6	1.5	0.55	2.3	1.4	0.39	12.7	3.5	0.032	2.8	0.81	0.023	2.02	0.37
LW3-SP10E-C00	0.33	5.4	0.94	0.05	2.8	1.2	0.11	9.6	1.3	0.019	1.7	0.29	0.009	1.24	0.25
LW3-SP10W-C00	0.70	2.5	1.5	0.53	3.9	1.9	0.30	4.7	2.0	0.071	1.8	0.39	0.054	1.79	0.34
LW3-SP11E-C00	0.12	4.4	1.4	0.08	1.7	0.7	0.75	341	56.1	0.060	0.93	0.30	0.049	1.62	0.36

Note – No sample counts are provided for sculpin SWAC statistics because the statistics are based on the natural neighbors interpolation, not individual samples.
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
HCH – hexachlorocyclohexane
ID – identification
SWAC – spatially weighted average concentration

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Table 3c. Sculpin SWACs for Mechanistic Model Chemicals: Pesticides, cont.

	beta-HCH (µg/kg dw)			Dieldrin (µg/kg dw)			gamma-HCH (µg/kg dw)			Heptachlor (µg/kg dw)			Heptachlor Epoxide (µg/kg dw)		
Sample ID	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0102R015TSSPWBC00	0.15	6.80	2.27	0.026	9.42	0.96	0.038	0.22	0.093	0.0080	1.38	0.099	0.012	7.59	0.76
LWG0102R001TSSPWBC00	0.22	10.3	2.43	0.019	9.42	0.68	0.038	0.49	0.13	0.015	0.26	0.072	0.020	7.59	0.61
LWG0102R001TSSPWBC10	0.22	10.3	2.43	0.019	9.42	0.68	0.038	0.49	0.13	0.015	0.26	0.072	0.020	7.59	0.61
LWG0103R001TSSPWBC00	0.009	4.88	1.03	0.018	0.22	0.15	0.021	1.38	0.30	0.013	0.14	0.075	0.014	0.43	0.12
LWG0103R002TSSPWBC10	0.069	5.50	2.22	0.045	1.31	0.27	0.044	3.97	0.51	0.018	0.31	0.051	0.023	0.83	0.09
LWG0103R002TSSPWBC20	0.069	5.50	2.41	0.045	1.31	0.26	0.044	3.97	0.58	0.018	0.33	0.054	0.023	0.90	0.09
LW3-SP03E-C00	0.025	3.62	0.69	0.026	0.82	0.20	0.047	2.25	0.29	0.015	0.18	0.059	0.021	0.27	0.07
LWG0103R005TSSPWBC00	0.059	7.70	2.14	0.026	0.64	0.11	0.012	2.60	0.70	0.0066	0.50	0.11	0.004	0.55	0.08
LWG0103R032TSSPWBC00	0.11	4.33	2.02	0.035	0.98	0.25	0.031	1.02	0.29	0.020	0.48	0.10	0.026	0.50	0.13
LWG0103R034TSSPWBC00	0.025	2.69	0.53	0.025	0.88	0.14	0.012	2.53	0.44	0.0048	0.44	0.07	0.006	0.45	0.08
LWG0103R004TSSPWBC10	0.049	1.35	0.52	0.018	1.33	0.30	0.017	0.97	0.15	0.015	0.33	0.078	0.010	0.23	0.11
LWG0103R004TSSPWBC20	0.015	1.35	0.51	0.018	1.33	0.29	0.011	0.97	0.15	0.012	0.33	0.076	0.006	0.23	0.11
LWG0104R003TSSPWBC00	0.066	4.69	0.77	0.17	3.63	0.64	0.027	4.22	0.64	0.013	3.81	0.57	0.015	4.04	0.61
LW3-SP04W-C00	0.025	1.62	0.49	0.040	0.63	0.29	0.015	0.88	0.27	0.0086	0.56	0.090	0.014	0.55	0.15
LWG0104R002TSSPWBC00	0.28	0.52	0.45	0.189	0.36	0.27	0.080	0.36	0.20	0.050	0.32	0.17	0.053	0.34	0.17
LWG0104R004TSSPWBC00	0.025	1.58	0.45	0.033	0.90	0.28	0.015	0.88	0.18	0.0086	0.56	0.097	0.014	0.55	0.13
LWG0105R001TSSPWBC00	0.075	2.13	0.72	0.049	0.93	0.43	0.12	2.02	0.57	0.042	0.51	0.18	0.028	0.54	0.19
LW3-SP05E-C00	0.080	6.38	1.11	0.035	3.49	0.34	0.034	4.20	0.47	0.021	1.36	0.18	0.027	1.36	0.19
LWG0105R020TSSPWBC00	0.12	12.9	3.61	0.032	6.27	1.63	0.041	5.50	1.15	0.016	0.47	0.104	0.021	0.47	0.14
LWG0106R001TSSPWBC00	0.093	7.02	0.65	0.12	1.39	0.53	0.027	2.36	0.57	0.026	0.68	0.21	0.008	4.19	0.51
LW3-SP06W-C00	0.042	8.95	1.72	0.049	10.9	1.42	0.091	1.89	0.74	0.022	0.69	0.16	0.025	1.48	0.21
LWG0106R002TSSPWBC10	0.023	5.16	0.80	0.032	1.93	0.26	0.018	4.55	0.41	0.0044	0.46	0.082	0.010	3.91	0.36
LWG0106R002TSSPWBC20	0.023	5.80	0.86	0.035	1.93	0.27	0.018	5.17	0.47	0.0044	0.47	0.088	0.010	4.44	0.41

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Table 3c. Sculpin SWACs for Mechanistic Model Chemicals: Pesticides, cont.

	beta-HCH (µg/kg dw)			Dieldrin (µg/kg dw)			gamma-HCH (µg/kg dw)			Heptachlor (µg/kg dw)			Heptachlor Epoxide (µg/kg dw)		
Sample ID	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0106R004TSSPWBC00	0.064	22.0	2.76	0.031	43.54	1.79	0.031	22	1.79	0.017	22	0.87	0.022	22	1.34
LWG0107R006TSSPWBC00	0.065	38.4	3.31	0.073	128	7.35	0.092	406	13.6	0.029	38	2.50	0.047	38	3.76
LW3-SP07E-C00	0.030	4.60	0.67	0.020	0.99	0.14	0.020	1.04	0.22	0.0020	0.64	0.093	0.008	0.49	0.11
LWG0107R003TSSPWBC00	0.041	46.3	3.15	0.060	93.4	4.00	0.067	46.3	2.27	0.027	46	1.94	0.035	47	2.36
LW3-SP07W-C00	0.079	5.89	1.86	0.016	0.73	0.16	0.032	0.79	0.17	0.017	0.71	0.19	0.022	0.75	0.18
LWG0108R002TSSPWBC00	0.019	2.09	0.45	0.027	0.22	0.08	0.040	1.65	0.37	0.015	0.11	0.031	0.020	0.18	0.04
LWG0108R003TSSPWBC00	0.032	9.41	3.47	0.021	9.96	0.84	0.008	4.35	1.13	0.012	1.00	0.12	0.0084	1.50	0.18
LW3-SP08E-C00	0.028	1.95	0.66	0.018	4.73	1.20	0.031	0.82	0.18	0.021	0.80	0.12	0.025	0.81	0.13
LWG0108R001TSSPWBC00	0.013	6.44	1.11	0.04	13.7	1.24	0.016	6.82	0.98	0.003	1.80	0.20	0.011	0.77	0.21
LW3-SP08W-C00	0.082	6.54	1.22	0.031	338	6.10	0.039	0.69	0.17	0.021	0.62	0.11	0.025	1.08	0.30
LWG0109R001TSSPWBC00	0.12	2.53	1.19	0.14	3.06	1.03	0.11	4.73	1.80	0.040	2.99	0.67	0.045	2.10	0.47
LW3-SP09W-C00	0.091	5.42	1.85	0.043	9.45	0.60	0.039	4.82	0.46	0.027	4.82	0.33	0.036	4.82	0.45
LWG0109R002TSSPWBC00	0.12	5.68	2.17	0.034	4.83	0.82	0.034	6.69	1.49	0.011	0.66	0.19	0.026	0.88	0.21
LW3-SP10E-C00	0.017	5.08	0.82	0.017	1.24	0.10	0.014	5.98	0.66	0.0029	1.32	0.12	0.011	1.48	0.17
LW3-SP10W-C00	0.11	8.35	0.89	0.10	1.90	0.42	0.075	8.48	0.85	0.042	1.88	0.40	0.099	1.89	0.41
LW3-SP11E-C00	0.070	5.03	2.04	0.025	22.1	2.70	0.20	5.31	2.01	0.120	1.06	0.33	0.078	4.91	1.04

Note – No sample counts are provided for sculpin SWAC statistics because the statistics are based on the natural neighbors interpolation, not individual samples.
HCH – hexachlorocyclohexane
ID – identification
SWAC – spatially weighted average concentration

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Table 3d. Sculpin SWACs for Mechanistic Model Chemicals: Pesticides, cont.

	Sum DDD (µg/kg dw)			Sum DDE (µg/kg dw)			Sum DDT (µg/kg dw)			Total Chlordane (µg/kg dw)			Total DDx (µg/kg dw)		
Sample ID	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0102R015TSSPWBC00	1.14	11.9	2.61	0.07	12.4	2.93	0.27	11.17	3.03	0.04	7.66	1.36	3.88	19.8	7.88
LWG0102R001TSSPWBC00	1.20	4.7	2.23	0.46	12.4	3.10	0.32	11.17	2.77	0.25	7.66	1.39	3.43	13.6	7.54
LWG0102R001TSSPWBC10	1.20	4.7	2.23	0.46	12.4	3.10	0.32	11.17	2.77	0.25	7.66	1.39	3.43	13.6	7.54
LWG0103R001TSSPWBC00	0.08	3.4	1.91	0.04	3.88	2.63	0.03	9.82	3.38	0.02	0.90	0.37	0.17	15.9	7.83
LWG0103R002TSSPWBC10	2.19	12.0	4.55	0.91	7.01	3.04	0.95	222	11.93	0.31	2.10	0.69	5.23	242	19.6
LWG0103R002TSSPWBC20	2.19	12.0	4.46	1.24	7.01	3.19	0.93	222	11.48	0.32	2.21	0.73	5.31	242	19.2
LW3-SP03E-C00	0.44	4.8	2.34	0.24	3.07	1.89	0.32	41	7.35	0.19	5.50	1.53	1.00	44.9	11.6
LWG0103R005TSSPWBC00	0.58	27.2	6.72	0.30	20	4.34	0.24	61	7.21	0.02	18.6	3.63	1.10	85.1	17.9
LWG0103R032TSSPWBC00	0.47	30.4	7.30	0.32	7.3	2.87	0.77	30	5.92	0.35	2.62	0.94	1.60	58.0	16.1
LWG0103R034TSSPWBC00	0.20	10.1	2.04	0.19	4.5	1.10	0.20	8.36	1.53	0.03	1.72	0.47	0.21	21.0	4.57
LWG0103R004TSSPWBC10	0.94	14.8	4.91	0.91	6.7	2.47	1.44	16	4.45	0.47	1.58	1.06	3.30	28.6	11.4
LWG0103R004TSSPWBC20	0.71	14.8	4.95	0.59	6.7	2.44	1.38	16	4.41	0.44	1.57	1.04	2.88	28.6	11.4
LWG0104R003TSSPWBC00	0.22	11.2	4.43	0.21	11.1	2.81	0.24	11	4.22	0.43	11.1	2.07	0.25	20.8	10.1
LW3-SP04W-C00	1.90	36.2	6.29	0.73	10.0	3.63	0.22	46	4.25	0.16	3.28	1.24	3.88	60.8	14.3
LWG0104R002TSSPWBC00	0.62	17.9	4.68	0.51	5.4	2.20	0.24	16	4.75	1.39	3.16	2.21	1.71	38.7	12.6
LWG0104R004TSSPWBC00	0.72	43.2	7.74	0.22	10.0	3.26	0.12	46	2.60	0.16	3.28	1.15	1.17	60.8	13.7
LWG0105R001TSSPWBC00	0.63	3.5	2.12	0.75	3.1	1.73	0.20	6.30	1.39	0.27	9.30	1.34	1.13	12.7	5.07
LW3-SP05E-C00	0.26	92.0	6.06	0.23	9.5	2.25	0.16	65	4.68	0.16	21.78	2.22	0.31	158	13.2
LWG0105R020TSSPWBC00	1.02	81.5	22	0.40	22.2	6.64	0.76	42	14.14	0.03	9.31	1.19	2.24	146	41.5
LWG0106R001TSSPWBC00	4.87	127	17	1.77	33.7	4.35	1.62	197	26.17	0.42	7.77	1.96	12.3	234	47.5
LW3-SP06W-C00	3.78	812	102	1.09	81.2	16	2.60	146	25.44	0.08	111	4.73	8.26	891	144
LWG0106R002TSSPWBC10	0.23	41.8	3.8	0.20	4.8	1.93	0.21	291	12.43	0.15	4.46	0.95	0.30	338	17.9
LWG0106R002TSSPWBC20	0.23	43.1	4.2	0.20	4.8	1.96	0.21	298	14.27	0.18	4.46	0.97	0.30	345	20.2

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Table 3d. Sculpin SWACs for Mechanistic Model Chemicals: Pesticides, cont.

	Sum DDD (µg/kg dw)			Sum DDE (µg/kg dw)			Sum DDT (µg/kg dw)			Total Chlordane (µg/kg dw)			Total DDx (µg/kg dw)		
Sample ID	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0106R004TSSPWBC00	0.89	465	61	0.49	856	39	0.40	433	40	0.04	49	4.96	2.67	963	139
LWG0107R006TSSPWBC00	3.02	2934	279	1.74	1235	97	2.13	12556	1488	0.83	615	20.4	6.89	15453	1849
LW3-SP07E-C00	0.68	3.8	1.4	0.82	3.26	1.81	0.09	12	1.44	0.04	12.9	1.35	1.90	16.4	4.54
LWG0107R003TSSPWBC00	2.03	2934	86	0.31	1148	53	0.12	12556	364	0.12	63.1	5.75	4.28	15453	501
LW3-SP07W-C00	0.29	365	82	0.30	65	17	0.13	37.22	3.84	0.03	17.1	4.40	1.20	435.7	103
LWG0108R002TSSPWBC00	0.47	3.2	1.6	0.40	2.97	1.75	0.12	2.37	0.48	0.05	1.84	0.89	0.72	7.33	3.86
LWG0108R003TSSPWBC00	0.53	28.1	5.2	0.94	8.33	3.28	0.09	139	13.89	0.15	25.2	3.67	1.37	149	22.0
LW3-SP08E-C00	0.52	4.9	2.7	0.23	11.30	3.86	0.21	2.48	1.14	0.15	2.93	1.08	1.32	11.8	7.11
LWG0108R001TSSPWBC00	1.28	71.3	9.8	1.52	77	7.74	0.38	66	8.22	0.40	39.3	3.13	3.95	174	25.8
LW3-SP08W-C00	0.90	1302	29	1.68	2404	51	0.32	27.67	3.25	0.61	628	16.6	3.13	3735	83.4
LWG0109R001TSSPWBC00	0.25	4.2	2.4	0.32	5.03	3.15	0.25	13.76	2.91	0.25	8.12	2.64	0.32	20.7	7.35
LW3-SP09W-C00	0.66	48	5.9	1.22	21	5.26	0.07	17.59	2.36	0.51	11.3	1.79	2.91	70.9	12.7
LWG0109R002TSSPWBC00	0.97	6.9	3.0	0.63	3.18	2.06	0.49	13.68	4.85	1.48	7.78	2.85	2.55	19.0	9.36
LW3-SP10E-C00	0.49	9.9	1.7	0.05	4.16	1.49	0.24	13.84	1.98	0.24	24.7	2.23	1.42	28.9	5.26
LW3-SP10W-C00	0.97	13	2.7	0.53	4.10	2.06	0.44	8.47	3.11	0.40	8.11	2.27	3.64	20.6	7.64
LW3-SP11E-C00	4.78	86	21	0.57	9.84	2.68	8.29	361	61	3.31	350	75.53	14.7	437	86.6

Note – No sample counts are provided for sculpin SWAC statistics because the statistics are based on the natural neighbors interpolation, not individual samples.
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethylene
DDT – dichlorodiphenyltrichloroethane
ID – identification
SWAC – spatially weighted average concentration
total DDx – sum of all six DDT isomers (2,4′-DDD, 2,4′-DDE, 2,4′-DDT, 4,4′-DDD, 4,4′-DDE and 4,4′-DDT)

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Table 3e. Sculpin SWACs for Mechanistic Model Chemicals: Dioxin and Furan Congeners (NEW)

	1,2,3,7,8-PentaCDD (pg/g dw)			2,3,7,8-TetraCDD (pg/g dw)			1,2,3,4,7,8-HexaCDF (pg/g dw)			2,3,4,7,8-PentaCDF (pg/g dw)			2,3,7,8-TetraCDF (pg/g dw)		
Sample ID	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0102R015TSSPWBC00	0.012	0.62	0.14	0.0050	0.25	0.054	0.020	3.5	1.0	0.017	2.7	0.84	0.021	3.0	0.96
LWG0102R001TSSPWBC00	0.017	0.62	0.31	0.0080	0.25	0.12	0.080	3.5	2.0	0.060	2.7	1.5	0.086	3.0	1.6
LWG0102R001TSSPWBC10	0.017	0.62	0.31	0.0080	0.25	0.12	0.080	3.5	2.0	0.060	2.7	1.5	0.086	3.0	1.6
LWG0103R001TSSPWBC00	0.0070	0.054	0.026	0.0040	0.0090	0.0060	0.069	0.25	0.15	0.011	0.20	0.090	0.11	0.73	0.35
LWG0103R002TSSPWBC10	0.0070	0.048	0.026	0.0080	0.027	0.015	0.16	1.2	0.36	0.032	1.6	0.30	0.16	7.5	1.2
LWG0103R002TSSPWBC20	0.0070	0.054	0.027	0.0080	0.031	0.015	0.15	1.2	0.35	0.032	1.6	0.30	0.16	7.5	1.2
LW3-SP03E-C00	0.037	0.98	0.19	0.0040	0.15	0.031	0.32	2.3	0.63	0.11	0.50	0.20	0.054	0.32	0.15
LWG0103R005TSSPWBC00	0.045	3.0	1.1	0.016	0.71	0.26	0.32	13	5.0	0.13	5.5	2.2	0.19	8.7	3.5
LWG0103R032TSSPWBC00	0.090	0.18	0.14	0.052	0.11	0.076	0.54	1.3	0.87	0.19	0.40	0.31	0.42	0.80	0.64
LWG0103R034TSSPWBC00	0.022	0.23	0.12	0.0070	0.037	0.020	0.47	0.73	0.59	0.20	0.30	0.23	0.12	0.31	0.22
LWG0103R004TSSPWBC10	0.068	0.50	0.22	0.013	0.27	0.087	0.24	3.1	1.4	0.043	1.0	0.42	0.029	1.0	0.51
LWG0103R004TSSPWBC20	0.068	0.50	0.21	0.008	0.27	0.086	0.18	3.1	1.3	0.025	1.0	0.40	0.010	1.0	0.49
LWG0104R003TSSPWBC00	0.14	0.88	0.51	0.011	0.090	0.033	9.7	36	21	2.4	8.2	4.9	0.21	0.91	0.41
LW3-SP04W-C00	0.0060	0.60	0.17	0.0030	0.46	0.10	0.060	14	5.0	0.023	6.0	1.9	0.092	5.3	1.9
LWG0104R002TSSPWBC00	0.067	0.44	0.21	0.0080	0.025	0.016	11	21	15	2.7	4.7	3.5	0.26	0.37	0.34
LWG0104R004TSSPWBC00	0.0060	0.60	0.12	0.0030	0.46	0.12	0.060	14	5.2	0.022	6.0	2.0	0.078	5.3	2.0
LWG0105R001TSSPWBC00	0.23	0.37	0.30	0.033	0.049	0.040	2.7	6.2	4.5	0.9	1.6	1.3	0.76	1.3	0.97
LW3-SP05E-C00	0.064	0.47	0.29	0.0090	0.062	0.035	0.72	29	3.6	0.21	7.2	0.98	0.28	6.7	0.99
LWG0105R020TSSPWBC00	0.086	0.15	0.12	0.013	0.035	0.019	1.3	6.2	2.45	0.61	2.7	1.5	0.71	6.8	3.5
LWG0106R001TSSPWBC00	0.072	0.12	0.088	0.013	0.041	0.025	1.4	3.0	1.9	0.34	0.80	0.50	0.32	1.6	0.96
LW3-SP06W-C00	0.020	0.22	0.089	0.0060	0.053	0.019	2.8	15	7.6	0.69	6.1	2.9	1.2	6.7	3.6
LWG0106R002TSSPWBC10	0.12	11	2.2	0.0050	1.4	0.33	0.48	220	25	0.13	55	7.4	0.080	20	2.6
LWG0106R002TSSPWBC20	0.13	11	2.2	0.0050	1.4	0.33	0.50	220	25	0.14	55	7.3	0.080	20	2.6
LWG0106R004TSSPWBC00	0.018	19	1.2	0.0060	110	4.1	0.54	240	31	0.14	46	6.6	0.12	300	19

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Table 3e. Sculpin SWACs for Mechanistic Model Chemicals: Dioxin and Furan Congeners (NEW)

	1,2,3,7,8-PentaCDD (pg/g dw)			2,3,7,8-TetraCDD (pg/g dw)			1,2,3,4,7,8-HexaCDF (pg/g dw)			2,3,4,7,8-PentaCDF (pg/g dw)			2,3,7,8-TetraCDF (pg/g dw)		
Sample ID	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0107R006TSSPWBC00	0.052	3.3	0.76	0.021	5.3	1.1	1.72	64,000	12,000	0.46	9,100	1,800	0.89	14,000	2,600
LW3-SP07E-C00	0.10	2.8	0.34	0.0060	0.45	0.050	0.86	8.3	3.6	0.32	3.5	0.94	0.070	0.59	0.27
LWG0107R003TSSPWBC00	0.041	1.0	0.11	0.0080	1.6	0.052	0.50	18,000	400	0.12	2,700	58	0.23	4,000	86
LW3-SP07W-C00	0.042	0.36	0.11	0.0070	0.17	0.041	0.16	5.0	0.88	0.044	1.4	0.20	0.094	3.5	0.42
LWG0108R002TSSPWBC00	0.0090	0.070	0.014	0.0070	0.017	0.0090	0.078	0.32	0.11	0.024	0.10	0.050	0.047	0.18	0.072
LWG0108R003TSSPWBC00	0.011	0.32	0.16	0.0060	0.067	0.039	0.092	1.4	0.83	0.0070	0.40	0.22	0.097	0.55	0.28
LW3-SP08E-C00	0.072	0.16	0.10	0.014	0.036	0.024	1.0	2.0	1.3	0.20	0.40	0.24	0.017	0.22	0.092
LWG0108R001TSSPWBC00	0.045	0.35	0.15	0.0040	0.63	0.14	0.15	1.2	0.49	0.053	0.50	0.19	0.049	0.43	0.17
LW3-SP08W-C00	0.078	1.5	0.56	0.039	4.1	1.27	0.12	5.6	2.0	0.068	1.6	0.66	0.063	1.5	0.63
LWG0109R001TSSPWBC00	0.10	1.1	0.42	0.016	0.17	0.063	1.2	16	5.3	0.27	4.1	1.37	0.12	1.6	0.63
LW3-SP09W-C00	0.25	0.54	0.39	0.050	0.51	0.11	2.3	5.6	4.0	1.56	4.1	2.7	1.4	3.9	2.6
LWG0109R002TSSPWBC00	0.13	2.8	1.1	0.024	0.59	0.22	0.48	8.5	3.0	0.15	1.9	0.85	0.060	1.4	0.56
LW3-SP10E-C00	0.12	0.30	0.21	0.017	0.074	0.049	0.26	1.2	0.48	0.047	0.70	0.25	0.096	0.16	0.13
LW3-SP10W-C00	0.13	0.83	0.38	0.0080	0.11	0.035	0.71	5.2	2.2	0.28	3.7	1.18	0.11	0.62	0.42
LW3-SP11E-C00	0.16	0.45	0.29	0.033	0.10	0.054	0.48	1.3	0.85	0.16	0.60	0.35	0.053	0.24	0.14

Note – No sample counts are provided for sculpin SWAC statistics because the statistics are based on the natural neighbors interpolation, not individual samples.
CDD – chlorodibenzo-p-dioxin
CDF – chlorodibenzofuran
ID – identification
SWAC – spatially weighted average concentration

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2.2 SMALLMOUTH BASS SWACS

To develop BSARs and to evaluate mechanistic model performance, SWACs at the scale of 1 river mile were calculated as described in Section 3.3.3 of the bioaccumulation modeling report.

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Table 4a. Smallmouth Bass SWACs for BSAR Chemicals: Metals

		Antimony (mg/kg dw)			Arsenic (mg/kg dw)			Lead (mg/kg dw)			Mercury (mg/kg dw)			Selenium (mg/kg dw)			Zinc (mg/kg dw)		
Sample ID	Count[a]	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
LWG0103R014TSSBWBC00	50	0.161	0.973	0.35	3.62	3.87	3.73	12.6	15.8	13.4	0.0607	0.07	0.0667	0.115	0.544	0.28	99.7	117	104
LWG0104R023TSSBWBC10	50	0.414	1.63	1	3.62	3.87	3.78	13.5	38.2	22.3	0.059	0.07	0.0657	0.326	0.785	0.475	101	125	112
LWG0104R023TSSBWBC20	50	0.315	1.63	0.917	3.62	3.87	3.77	13	38.2	20.7	0.059	0.07	0.0663	0.28	0.785	0.461	99.9	125	111
LWG0104R023TSSBWBC30	50	0.315	1.63	0.94	3.62	3.87	3.78	13	38.2	21.2	0.059	0.07	0.0661	0.28	0.785	0.468	99.9	125	111
LWG0105R006TSSBWBC00	30	0.345	1.59	0.881	3.35	3.69	3.44	15.6	39.3	27.7	0.059	0.0715	0.0645	0.785	1.17	0.966	94.2	119	107
LWG0106R024TSSBWBC00	10	0.287	0.432	0.351	3.35	3.69	3.51	15.6	21.6	18.5	0.066	0.0825	0.0744	0.823	1.17	0.941	94.2	98.8	96.7
LWG0107R009TSSBWBC10	50	0.296	1.03	0.814	3.77	4.55	4.23	16.4	64.5	42.9	0.0649	0.309	0.181	0.898	3.93	2.6	106	143	129
LWG0107R009TSSBWBC20	50	0.264	1.03	0.785	3.54	4.55	4.24	16.5	64.5	45.8	0.0649	0.309	0.195	0.823	3.93	2.37	97.7	143	129
LWG0107R009TSSBWBC30	50	0.264	1.03	0.732	3.54	4.55	4.24	18.3	64.5	52	0.0652	0.309	0.226	0.823	3.93	2.02	97.7	143	129
LWG0108R010TSSBWBC10	4	0.716	0.716	0.716	6.72	6.72	6.72	39.2	39.2	39.2	0.133	0.133	0.133	3.44	3.44	3.44	258	258	258
LWG0108R010TSSBWBC20	5	0.716	0.716	0.716	6.72	6.72	6.72	39.2	39.2	39.2	0.133	0.133	0.133	3.44	3.44	3.44	258	258	258
LWG0108R010TSSBWBC30	5	0.716	0.716	0.716	6.72	6.72	6.72	39.2	39.2	39.2	0.133	0.133	0.133	3.44	3.44	3.44	258	258	258
LWG0108R032TSSBWBC00	30	0.679	1.03	0.822	3.77	4.47	4.01	16.4	56.4	19.9	0.0649	0.237	0.0754	1.82	3.93	3.29	114	139	122
LWG0109R006TSSBWBC00	20	0.696	0.818	0.744	3.84	4.15	4.04	17.4	21	19.6	0.0735	0.0914	0.0817	1.29	2.97	1.79	114	122	119
LW3-SB010E-C00WB	50	0.235	0.67	0.351	3.34	4.02	3.78	15.5	25.1	18.3	0.0609	0.0869	0.0728	0.117	1.21	0.271	93.6	111	107
LW3-SB010W-C00WB	50	0.235	0.664	0.333	3.48	4.02	3.75	15.5	25.1	17.7	0.0609	0.0869	0.0701	0.121	0.871	0.303	98.5	111	108
LW3-SB011E-C00WB	47	0.243	0.83	0.623	2.18	3.99	2.74	24.2	30.9	26.7	0.0342	0.0854	0.0548	0.0555	0.123	0.0863	81.2	104	86.9
LW3-SB011W-C00WB	50	0.326	0.83	0.601	2.34	4.02	3.3	18.8	30.9	24.5	0.0433	0.0869	0.0709	0.0728	0.13	0.107	81.2	107	93.3
LW3-SB02E-C00WB	50	0.161	0.195	0.179	3.67	3.78	3.72	12.9	13.9	13.4	0.0607	0.0714	0.067	0.115	0.191	0.149	102	120	112
LW3-SB03E-C00WB	50	0.161	0.475	0.221	3.64	3.79	3.73	12.6	14.1	13.2	0.0607	0.07	0.0655	0.115	0.328	0.18	99.7	115	106
LW3-SB03W-C00WB	50	0.161	0.475	0.274	3.64	3.79	3.74	12.6	14.1	13.3	0.0607	0.07	0.0657	0.115	0.328	0.219	99.7	112	103
LW3-SB04E-C01WB	50	0.352	1.63	0.821	3.62	3.87	3.77	13.1	38.2	18.6	0.059	0.07	0.0672	0.3	0.782	0.443	99.9	125	109
LW3-SB04W-C00WB	50	0.315	1.63	1.07	3.54	3.87	3.78	13	38.2	24.1	0.059	0.07	0.065	0.28	0.799	0.503	99.9	125	114
LW3-SB05W-C00WB	50	0.345	1.63	1.12	3.35	3.81	3.52	15.6	39.3	31.9	0.059	0.0715	0.0628	0.407	1.17	0.892	94.2	125	113
LW3-SB06E-C00WB	50	0.264	1.48	0.476	3.35	4.47	3.67	15.6	64.5	37	0.0592	0.309	0.154	0.799	1.81	0.997	94.2	141	106
LW3-SB06W-C00WB	50	0.264	0.878	0.401	3.35	4.47	3.72	15.6	64.5	37.1	0.0651	0.309	0.164	0.823	1.81	1.01	94.2	141	106
LW3-SB07E-C00WB	50	0.264	1.03	0.732	3.54	4.55	4.17	16.5	64.5	45.8	0.0649	0.309	0.197	0.823	3.93	2.25	97.7	143	126
LW3-SB07W-C00WB	50	0.264	1.03	0.811	3.66	4.55	4.26	16.5	64.5	46.4	0.0649	0.309	0.197	0.898	3.93	2.48	105	143	130

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Table 4a. Smallmouth Bass SWACs for BSAR Chemicals: Metals

		Antimony (mg/kg dw)			Arsenic (mg/kg dw)			Lead (mg/kg dw)			Mercury (mg/kg dw)			Selenium (mg/kg dw)			Zinc (mg/kg dw)		
Sample ID	**Count[a]**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LW3-SB08E-C00WB	41	0.679	1.03	0.84	3.77	6.72	4.1	16.4	56.4	20.3	0.0649	0.237	0.0751	2.2	3.93	3.4	114	258	126
LW3-SB08W-C00WB	50	0.679	1.03	0.793	3.77	4.52	4.04	16.4	58.5	21.4	0.0649	0.248	0.0861	1.36	3.93	2.63	114	141	122
LW3-SB09E-C00WB	50	0.235	0.818	0.607	3.48	4.15	3.88	15.5	21	18.5	0.0609	0.0914	0.0744	0.209	1.82	1.08	105	122	113
LW3-SB09W-C00WB	50	0.58	0.818	0.725	3.8	4.15	4.04	17.6	21	19.6	0.0709	0.0914	0.0809	1.03	2.2	1.46	108	122	117

[a] Counts represent the number of overlapping 1 mile SWACs for each fish in a given composite. It should be noted that the same 1-mile SWAC was often counted multiple times because the fish were collected in close proximity. See Section 3.3.3 of the bioaccumulation modeling report for additional information regarding SWAC calculations.

ID – identification

SWAC – spatially weighted average concentration

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Table 4b. Smallmouth Bass SWACs for BSAR Chemicals: PAHs, Phthalates, and SVOCs

		Benzo(a)anthracene (mg/kg OC)			Benzo(a)pyrene (mg/kg OC)			Dibenzo(a,h)anthracene (mg/kg OC)			Bis(2-ethylhexyl) phthalate (mg/kg OC)			Hexachlorobenzene (mg/kg OC)		
Sample ID	**Count[a]**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0103R014TSSBWBC00	50	2.73	17.2	14.4	4.6	27.4	23	0.55	3.03	2.5	3.3	19.1	7.6	0.09	0.17	0.14
LWG0104R023TSSBWBC10	50	13.1	78.7	29.1	20.7	106	42.4	2.31	13.8	5.4	9	19.9	16.8	0.11	0.28	0.19
LWG0104R023TSSBWBC20	50	13.1	78.7	26.3	20.7	106	38.7	2.31	13.8	4.8	3.6	19.9	16	0.11	0.28	0.18
LWG0104R023TSSBWBC30	50	13.1	78.7	27.2	20.7	106	39.9	2.31	13.8	5.01	3.6	19.9	16	0.11	0.28	0.18
LWG0105R006TSSBWBC00	30	78.7	443	295	106	563	378	13.8	49.1	36.3	9	73.9	54.3	0.24	0.31	0.27
LWG0106R024TSSBWBC00	10	308	443	376	381	563	474	34.5	49.1	41.7	8.0	73.9	48.3	0.28	0.71	0.45
LWG0107R009TSSBWBC10	50	2.04	130	27	2.1	161	32	0.38	17.2	3.9	5.7	11.6	10	0.18	0.52	0.26
LWG0107R009TSSBWBC20	50	2.04	308	41.7	2.1	381	50.4	0.39	34.5	5.6	5.7	11.5	9.72	0.18	0.70	0.29
LWG0107R009TSSBWBC30	50	3.3	308	53.6	3.4	381	64.9	0.72	34.5	7.2	5.7	11.1	9.42	0.18	0.70	0.32
LWG0108R010TSSBWBC10	4	11.9	11.9	11.9	11.6	11.6	11.6	1.71	1.7	1.7	93.9	93.9	93.9	0.21	0.21	0.21
LWG0108R010TSSBWBC20	5	11.9	11.9	11.9	11.6	11.6	11.6	1.71	1.7	1.7	93.9	93.9	93.9	0.21	0.21	0.21
LWG0108R010TSSBWBC30	5	11.9	11.9	11.9	11.6	11.6	11.6	1.71	1.7	1.7	93.9	93.9	93.9	0.21	0.21	0.21
LWG0108R032TSSBWBC00	30	2.0	7.17	2.9	2.07	7.6	3	0.37	1.5	0.61	9.8	13.6	11.1	0.13	0.24	0.20
LWG0109R006TSSBWBC00	20	2.0	3.4	2.6	2.07	2.9	2.4	0.37	0.47	0.41	11	13.9	12.5	0.12	0.18	0.14
LW3-SB010E-C00WB	50	2.9	4.5	3.6	2.6	4.8	4.0	0.43	0.85	0.65	10.9	22.1	18.4	0.08	0.15	0.094
LW3-SB010W-C00WB	50	2.9	4.4	3.6	3.2	4.8	3.8	0.48	0.85	0.62	12.5	22.1	18.3	0.08	0.15	0.092
LW3-SB011E-C00WB	47	1.5	4.5	3.5	1.8	4.8	3.6	0.28	0.85	0.61	12.9	282	87.1	0.013	0.15	0.10
LW3-SB011W-C00WB	50	3.4	4.5	4.07	3.5	4.8	4.3	0.60	0.85	0.72	12.9	124	35.9	0.022	0.15	0.12
LW3-SB02E-C00WB	50	2.2	15.1	7.4	3.8	24.3	11.9	0.47	2.6	1.3	3.2	3.4	3.3	0.094	0.16	0.13
LW3-SB03E-C00WB	50	3.7	17.2	12.3	6.2	27.4	19.6	0.702	3.03	2.2	3.3	12.6	3.7	0.094	0.16	0.14
LW3-SB03W-C00WB	50	9.3	17.2	15	14.7	27.4	24	1.6	3.03	2.7	3.3	12.6	5.0	0.11	0.16	0.15
LW3-SB04E-C01WB	50	13.1	64.7	21.8	20.7	88.7	32.8	2.3	12.1	4.0	3.7	19.9	15.9	0.11	0.28	0.16
LW3-SB04W-C00WB	50	13.1	163	34.9	20.7	214	49.9	2.3	24.2	6.3	3.6	19.9	15.9	0.11	0.28	0.20
LW3-SB05W-C00WB	50	55.5	443	226	78.2	563	293	10.4	49.1	29.5	9	73.9	43.3	0.24	0.31	0.26

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Table 4b. Smallmouth Bass SWACs for BSAR Chemicals: PAHs, Phthalates, and SVOCs

		Benzo(a)anthracene (mg/kg OC)			Benzo(a)pyrene (mg/kg OC)			Dibenzo(a,h)anthracene (mg/kg OC)			Bis(2-ethylhexyl) phthalate (mg/kg OC)			Hexachlorobenzene (mg/kg OC)		
Sample ID	**Count[a]**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LW3-SB06E-C00WB	50	21.8	443	248	23.4	563	313	3.2	49.1	29.3	5.7	73.9	27.7	0.21	0.71	0.46
LW3-SB06W-C00WB	50	21.8	443	244	23.4	563	306	3.2	49.1	28.3	5.7	73.9	24	0.21	0.71	0.48
LW3-SB07E-C00WB	50	2.04	333	53.8	2.1	413	65.5	0.39	37	7.06	5.7	11.5	9.5	0.18	0.71	0.31
LW3-SB07W-C00WB	50	2.04	154	30.8	2.1	200	36.8	0.39	20.6	4.4	5.7	11.5	9.9	0.18	0.53	0.27
LW3-SB08E-C00WB	41	2.0	11.9	3.3	2.07	11.6	3.4	0.37	1.7	0.67	9.8	93.9	13	0.15	0.24	0.21
LW3-SB08W-C00WB	50	2.0	8.8	3.03	2.07	9.71	3.02	0.37	1.8	0.57	9.8	13.9	11.8	0.12	0.24	0.17
LW3-SB09E-C00WB	50	2.08	3.7	3.2	2.2	3.4	2.9	0.37	0.51	0.46	10.9	19	13	0.090	0.13	0.11
LW3-SB09W-C00WB	50	2.0	3.4	2.9	2.09	3.02	2.6	0.37	0.48	0.42	10.9	13.9	12.3	0.11	0.15	0.12

[a] Counts represent the number of overlapping 1 mile SWACs for each fish in a given composite. It should be noted that the same 1-mile SWAC was often counted multiple times because the fish were collected in close proximity. See Section 3.3.3 of the bioaccumulation modeling report for additional information regarding SWAC calculations.

ID – identification

SWAC – spatially weighted average concentration

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Table 5a. Smallmouth Bass SWACs for Mechanistic Model Chemicals: PCBs ~~and Dioxins and Furans~~

		Total PCBs[a] (µg/kg dw)			PCB 77 (µg/kg dw)			PCB 126 (µg/kg dw)			~~2,3,4,7,8-PeCDF (µg/kg dw)~~		
Sample ID	**Count[a]**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	~~**Min**~~	~~**Max**~~	~~**Mean**~~
LWG0103R014TSSBWBC00	50	20.6	75.7	42.6	0.039	0.711	0.195	0.0041	0.026	0.013	~~0.00014~~	~~0.00055~~	~~0.00028~~
LWG0104R023TSSBWBC10	50	31.4	65	55.9	0.063	0.096	0.081	0.0072	0.018	0.015	~~0.00018~~	~~0.0010~~	~~0.00054~~
LWG0104R023TSSBWBC20	50	20.6	65	54.7	0.039	0.096	0.078	0.0041	0.018	0.015	~~0.00014~~	~~0.0010~~	~~0.00049~~
LWG0104R023TSSBWBC30	50	20.6	65	54.4	0.039	0.096	0.078	0.0041	0.018	0.015	~~0.00014~~	~~0.0010~~	~~0.00050~~
LWG0105R006TSSBWBC00	30	20.5	31.4	24.9	0.055	0.064	0.057	0.0066	0.009	0.007	~~0.00082~~	~~0.0012~~	~~0.00096~~
LWG0106R024TSSBWBC00	10	20.5	41.6	29.3	0.055	0.102	0.070	0.0066	0.015	0.011	~~0.00082~~	~~0.0013~~	~~0.00096~~
LWG0107R009TSSBWBC10	50	46.7	74.6	63.2	0.065	0.133	0.102	0.0080	0.016	0.011	~~0.00132~~	~~0.11~~	~~0.068~~
LWG0107R009TSSBWBC20	50	41.6	74.6	64.1	0.065	0.133	0.107	0.0080	0.016	0.011	~~0.00132~~	~~0.11~~	~~0.068~~
LWG0107R009TSSBWBC30	50	41.6	74.6	65.4	0.084	0.133	0.113	0.0080	0.016	0.012	~~0.00132~~	~~0.11~~	~~0.061~~
LWG0108R010TSSBWBC10	4	307	307	307	0.169	0.169	0.169	0.084	0.084	0.084	~~0.00040~~	~~0.00040~~	~~0.00040~~
LWG0108R010TSSBWBC20	5	307	307	307	0.169	0.169	0.169	0.084	0.084	0.084	~~0.00040~~	~~0.00040~~	~~0.00040~~
LWG0108R010TSSBWBC30	5	307	307	307	0.169	0.169	0.169	0.084	0.084	0.084	~~0.00040~~	~~0.00040~~	~~0.00040~~
LWG0108R032TSSBWBC00	30	33.3	68.3	51	0.065	0.539	0.098	0.0080	0.022	0.011	~~0.00029~~	~~0.099~~	~~0.045~~
LWG0109R006TSSBWBC00	20	33.3	86.6	65.1	0.069	0.712	0.479	0.011	0.030	0.022	~~0.00029~~	~~0.00061~~	~~0.00044~~
LW3-SB010E-C00WB	50	44.9	212	61.3	0.032	0.759	0.120	0.0070	0.031	0.012	~~0.00020~~	~~0.00067~~	~~0.00060~~
LW3-SB010W-C00WB	50	44.9	138	59.4	0.033	0.701	0.131	0.0070	0.030	0.012	~~0.00023~~	~~0.00067~~	~~0.00062~~
LW3-SB011E-C00WB	47	69.2	405	257	0.022	0.034	0.027	0.0052	0.016	0.012	~~0.00019~~	~~0.00033~~	~~0.00021~~
LW3-SB011W-C00WB	50	44.9	405	195	0.022	0.037	0.030	0.0070	0.016	0.012	~~0.00019~~	~~0.00065~~	~~0.00030~~
LW3-SB02E-C00WB	50	34.3	76.9	58.7	0.313	0.711	0.503	0.012	0.026	0.019	~~0.00035~~	~~0.00054~~	~~0.00044~~
LW3-SB03E-C00WB	50	20.6	70.5	42.1	0.039	0.666	0.329	0.0041	0.024	0.014	~~0.00014~~	~~0.00054~~	~~0.00035~~
LW3-SB03W-C00WB	50	20.6	55.6	37.3	0.039	0.458	0.212	0.0041	0.018	0.011	~~0.00014~~	~~0.00042~~	~~0.00028~~
LW3-SB04E-C01WB	50	22	65	55.8	0.039	0.096	0.078	0.0042	0.018	0.016	~~0.00014~~	~~0.00095~~	~~0.00042~~

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Table 5a. Smallmouth Bass SWACs for Mechanistic Model Chemicals: PCBs ~~and Dioxins and Furans~~

		Total PCBs[a] (µg/kg dw)			PCB 77 (µg/kg dw)			PCB 126 (µg/kg dw)			~~2,3,4,7,8-PeCDF (µg/kg dw)~~		
Sample ID	**Count[a]**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	~~**Min**~~	~~**Max**~~	~~**Mean**~~
LW3-SB04W-C00WB	50	20.6	65	52.6	0.039	0.096	0.078	0.0041	0.018	0.014	~~0.00014~~	~~0.00107~~	~~0.00059~~
LW3-SB05W-C00WB	50	20.5	63.8	28.3	0.055	0.096	0.061	0.0066	0.018	0.007	~~0.00082~~	~~0.0012~~	~~0.00097~~
LW3-SB06E-C00WB	50	20.5	74.6	42.1	0.055	0.133	0.093	0.0066	0.016	0.012	~~0.00082~~	~~0.11~~	~~0.00524~~
LW3-SB06W-C00WB	50	20.5	74.6	45.2	0.055	0.133	0.098	0.0066	0.016	0.013	~~0.00082~~	~~0.11~~	~~0.00815~~
LW3-SB07E-C00WB	50	33	74.6	62.4	0.065	0.133	0.107	0.0080	0.016	0.012	~~0.00122~~	~~0.11~~	~~0.059~~
LW3-SB07W-C00WB	50	47.4	74.6	64.7	0.065	0.133	0.106	0.0080	0.016	0.011	~~0.00172~~	~~0.11~~	~~0.072~~
LW3-SB08E-C00WB	41	33.3	307	58.4	0.065	0.169	0.083	0.0080	0.084	0.012	~~0.00029~~	~~0.099~~	~~0.049~~
LW3-SB08W-C00WB	50	33.3	85.9	57.8	0.065	0.706	0.257	0.0080	0.030	0.015	~~0.00029~~	~~0.104~~	~~0.028~~
LW3-SB09E-C00WB	50	46.7	100	79.6	0.078	0.759	0.559	0.012	0.031	0.026	~~0.00032~~	~~0.00067~~	~~0.00060~~
LW3-SB09W-C00WB	50	33.3	96.7	75.7	0.126	0.759	0.614	0.013	0.031	0.026	~~0.00029~~	~~0.00064~~	~~0.00051~~

[a] Counts represent the number of overlapping 1 mile SWACs for each fish in a given composite. It should be noted that the same 1-mile SWAC was often counted multiple times because the fish were collected in close proximity. See Section 3.3.3 of the bioaccumulation modeling report for additional information regarding SWAC calculations.

PCB – polychlorinated biphenyl

~~PeCDF – pentachlorodibenzofuran~~

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Table 5b. Smallmouth Bass SWACs for Mechanistic Model Chemicals: Pesticides

		4,4′-DDD (µg/kg dw)			4,4′-DDE (µg/kg dw)			4,4′-DDT (µg/kg dw)			Aldrin (µg/kg dw)			alpha-HCH (µg/kg dw)		
Sample ID	**Count[a]**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0103R014TSSBWBC00	50	1.41	2.78	2.47	1.8	1.97	1.92	1.55	6.07	3.88	0.27	0.49	0.38	0.14	0.20	0.17
LWG0104R023TSSBWBC10	50	2.48	2.85	2.71	1.9	2.03	1.97	2.84	6.07	4.78	0.24	0.30	0.28	0.13	0.17	0.15
LWG0104R023TSSBWBC20	50	2.37	2.85	2.69	1.9	2.03	1.96	2.84	6.07	4.78	0.24	0.40	0.28	0.13	0.17	0.15
LWG0104R023TSSBWBC30	50	2.37	2.85	2.69	1.9	2.03	1.96	2.84	6.07	4.77	0.24	0.40	0.28	0.13	0.17	0.15
LWG0105R006TSSBWBC00	30	2.67	6.61	4.04	1.8	2.08	1.92	2.84	6.93	4.19	0.24	0.58	0.40	0.13	0.18	0.14
LWG0106R024TSSBWBC00	10	4.21	19.4	9.99	1.8	3.26	2.27	4.35	11.9	7.09	0.41	0.63	0.57	0.14	0.21	0.18
LWG0107R009TSSBWBC10	50	4.91	29.8	22.8	3.32	13.1	9.81	4.07	118	74.7	0.23	1.4	1.02	0.23	0.90	0.68
LWG0107R009TSSBWBC20	50	7.9	29.8	23.8	3.26	13.1	9.82	11.2	118	75.6	0.27	1.4	1.04	0.203	0.90	0.68
LWG0107R009TSSBWBC30	50	17	29.8	24.3	3.26	13.1	9.72	11.2	118	71.1	0.40	1.4	1.04	0.203	0.90	0.70
LWG0108R010TSSBWBC10	4	3.84	3.84	3.84	2.59	2.59	2.59	6.53	6.53	6.53	0.36	0.36	0.36	0.32	0.32	0.32
LWG0108R010TSSBWBC20	5	3.84	3.84	3.84	2.59	2.59	2.59	6.53	6.53	6.53	0.36	0.36	0.36	0.32	0.32	0.32
LWG0108R010TSSBWBC30	5	3.84	3.84	3.84	2.59	2.59	2.59	6.53	6.53	6.53	0.36	0.36	0.36	0.32	0.32	0.32
LWG0108R032TSSBWBC00	30	2.32	27.8	13.4	3	12.7	6.7	2.18	106	45.8	0.19	1.35	0.65	0.17	0.86	0.403
LWG0109R006TSSBWBC00	20	2.32	4.76	3.5	3	5.51	4.64	1.34	2.55	2.13	0.19	0.65	0.53	0.17	0.26	0.21
LW3-SB010E-C00WB	50	0.84	2.92	1.04	1.27	5.2	1.69	1.01	9.8	1.64	0.26	0.63	0.35	0.24	0.34	0.30
LW3-SB010W-C00WB	50	0.84	2.21	1.02	1.37	4.25	1.68	1.06	6.09	1.39	0.26	0.46	0.33	0.24	0.34	0.31
LW3-SB011E-C00WB	47	0.67	1.03	0.88	0.77	1.47	1.03	3.48	16.2	11.1	0.09	0.35	0.21	0.080	0.26	0.19
LW3-SB011W-C00WB	50	0.82	1.03	0.95	0.85	1.53	1.23	1.38	16.2	8.51	0.16	0.39	0.29	0.14	0.31	0.23
LW3-SB02E-C00WB	50	1.41	2.44	1.94	1.8	1.97	1.91	1.55	3.33	1.9	0.32	0.49	0.44	0.17	0.20	0.18
LW3-SB03E-C00WB	50	1.63	2.76	2.29	1.86	1.97	1.93	1.55	4.98	2.69	0.29	0.49	0.45	0.16	0.19	0.17
LW3-SB03W-C00WB	50	2.14	2.76	2.44	1.89	1.97	1.93	1.64	4.98	3.4	0.29	0.49	0.42	0.16	0.17	0.17
LW3-SB04E-C01WB	50	2.37	2.85	2.68	1.9	2.03	1.95	3.38	6.07	4.87	0.25	0.35	0.28	0.13	0.17	0.15
LW3-SB04W-C00WB	50	2.37	2.85	2.7	1.9	2.05	1.97	2.84	6.07	4.57	0.24	0.40	0.28	0.13	0.17	0.15
LW3-SB05W-C00WB	50	2.67	6.61	3.52	1.8	2.08	1.96	2.84	6.93	3.96	0.24	0.58	0.35	0.13	0.18	0.14
LW3-SB06E-C00WB	50	2.82	27.4	14.2	1.8	11.1	3.95	2.91	104	14.7	0.28	1.40	0.58	0.14	0.86	0.29

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Table 5b. Smallmouth Bass SWACs for Mechanistic Model Chemicals: Pesticides

		4,4′-DDD (µg/kg dw)			4,4′-DDE (µg/kg dw)			4,4′-DDT (µg/kg dw)			Aldrin (µg/kg dw)			alpha-HCH (µg/kg dw)		
Sample ID	**Count[a]**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LW3-SB06W-C00WB	50	3.29	27.4	16.1	1.8	11.1	4.36	3.6	104	18.4	0.38	1.40	0.63	0.14	0.86	0.33
LW3-SB07E-C00WB	50	7.9	29.8	22.7	3	13.1	9.2	8.37	118	67.1	0.27	1.40	0.97	0.203	0.903	0.63
LW3-SB07W-C00WB	50	7.9	29.8	23.9	3.45	13.1	10.1	11.2	118	79.2	0.27	1.40	1.07	0.22	0.903	0.70
LW3-SB08E-C00WB	41	2.32	27.8	14.8	2.59	12.7	7.12	2.18	106	51.1	0.19	1.35	0.69	0.17	0.86	0.44
LW3-SB08W-C00WB	50	2.32	27.8	9.88	3	12.9	6.15	1.39	111	29.9	0.19	1.40	0.63	0.17	0.903	0.35
LW3-SB09E-C00WB	50	0.90	3.52	2.54	1.47	5.51	4.2	1.01	2.55	1.46	0.26	0.65	0.51	0.18	0.32	0.26
LW3-SB09W-C00WB	50	2.25	3.52	3.12	3.02	5.51	4.95	1.01	2.55	1.9	0.37	0.65	0.58	0.17	0.26	0.22

[a] Counts represent the number of overlapping 1 mile SWACs for each fish in a given composite. It should be noted that the same 1-mile SWAC was often counted multiple times because the fish were collected in close proximity. See Section 3.3.3 of the bioaccumulation modeling report for additional information regarding SWAC calculations.

DDD – dichlorodiphenyldichloroethane

DDE – dichlorodiphenyldichloroethylene

DDT – dichlorodiphenyltrichloroethane

HCH – hexachlorocyclohexane

ID – identification

SWAC – spatially weighted average concentration

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Table 5c. Smallmouth Bass SWACs for Mechanistic Model Chemicals: Pesticides, cont.

		beta-HCH (µg/kg dw)			Dieldrin (µg/kg dw)			gamma-HCH (µg/kg dw)			Heptachlor (µg/kg dw)			Heptachlor Epoxide (µg/kg dw)		
Sample ID	**Count[a]**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0103R014TSSBWBC00	50	1.21	2.02	1.44	0.20	0.36	0.25	0.47	0.70	0.54	0.087	0.12	0.10	0.11	0.25	0.16
LWG0104R023TSSBWBC10	50	0.49	1.32	1.08	0.20	0.25	0.22	0.30	0.64	0.50	0.11	0.16	0.14	0.11	0.17	0.14
LWG0104R023TSSBWBC20	50	0.49	1.39	1.12	0.20	0.25	0.22	0.30	0.64	0.51	0.13	0.17	0.15	0.11	0.17	0.14
LWG0104R023TSSBWBC30	50	0.49	1.39	1.11	0.20	0.25	0.22	0.30	0.64	0.50	0.14	0.73	0.53	0.11	0.17	0.14
LWG0105R006TSSBWBC00	30	0.50	1.18	0.81	0.24	0.43	0.31	0.30	0.86	0.63	0.12	0.73	0.53	0.14	0.17	0.15
LWG0106R024TSSBWBC00	10	0.86	1.82	1.38	0.31	0.52	0.44	0.65	0.91	0.79	0.12	0.73	0.54	0.14	0.24	0.18
LWG0107R009TSSBWBC10	50	1.12	1.97	1.73	0.35	1.52	1.12	0.49	1.56	1.16	0.32	0.32	0.32	0.23	0.93	0.68
LWG0107R009TSSBWBC20	50	1.20	1.97	1.76	0.33	1.52	1.12	0.50	1.56	1.18	0.32	0.32	0.32	0.24	0.93	0.69
LWG0107R009TSSBWBC30	50	1.40	1.97	1.81	0.33	1.52	1.13	0.52	1.56	1.17	0.32	0.32	0.32	0.24	0.93	0.72
LWG0108R010TSSBWBC10	4	2.66	2.66	2.66	0.88	0.88	0.88	1.73	1.73	1.73	0.13	0.70	0.31	0.40	0.40	0.40
LWG0108R010TSSBWBC20	5	2.66	2.66	2.66	0.88	0.88	0.88	1.73	1.73	1.73	0.13	0.19	0.16	0.40	0.40	0.40
LWG0108R010TSSBWBC30	5	2.66	2.66	2.66	0.88	0.88	0.88	1.73	1.73	1.73	0.15	0.36	0.26	0.40	0.40	0.40
LWG0108R032TSSBWBC00	30	0.87	1.97	1.31	0.46	1.45	0.79	0.48	1.46	0.84	0.18	0.36	0.25	0.17	0.89	0.39
LWG0109R006TSSBWBC00	20	0.87	1.26	1.06	0.46	1.02	0.80	0.43	0.54	0.49	0.11	0.36	0.25	0.17	0.25	0.21
LW3-SB010E-C00WB	50	0.48	1.36	0.97	0.24	0.80	0.35	0.39	0.81	0.67	0.19	0.36	0.31	0.21	0.51	0.30
LW3-SB010W-C00WB	50	0.48	1.30	1.03	0.24	0.64	0.33	0.39	0.81	0.69	0.091	0.109	0.1	0.21	0.46	0.28
LW3-SB011E-C00WB	47	0.45	0.92	0.70	0.11	1.02	0.68	0.33	0.76	0.56	0.087	0.109	0.099	0.24	0.56	0.45
LW3-SB011W-C00WB	50	0.48	0.92	0.66	0.33	1.02	0.67	0.39	0.76	0.55	0.087	0.104	0.096	0.34	0.56	0.44
LW3-SB02E-C00WB	50	1.47	2.16	1.86	0.25	0.37	0.30	0.47	0.79	0.59	0.087	0.115	0.1	0.14	0.25	0.19
LW3-SB03E-C00WB	50	1.28	1.98	1.61	0.23	0.33	0.27	0.47	0.64	0.52	0.087	0.12	0.10	0.14	0.23	0.17
LW3-SB03W-C00WB	50	1.28	1.87	1.45	0.23	0.29	0.25	0.47	0.57	0.51	0.11	0.16	0.13	0.14	0.19	0.16
LW3-SB04E-C01WB	50	0.49	1.35	1.17	0.20	0.25	0.22	0.31	0.64	0.53	0.12	0.67	0.22	0.11	0.17	0.14
LW3-SB04W-C00WB	50	0.49	1.39	1.02	0.20	0.25	0.22	0.30	0.64	0.48	0.12	0.67	0.24	0.11	0.17	0.14

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Table 5c. Smallmouth Bass SWACs for Mechanistic Model Chemicals: Pesticides, cont.

		beta-HCH (µg/kg dw)			Dieldrin (µg/kg dw)			gamma-HCH (µg/kg dw)			Heptachlor (µg/kg dw)			Heptachlor Epoxide (µg/kg dw)		
Sample ID	**Count[a]**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LW3-SB05W-C00WB	50	0.49	1.18	0.72	0.22	0.43	0.28	0.30	0.86	0.54	0.12	0.73	0.49	0.13	0.17	0.15
LW3-SB06E-C00WB	50	0.53	1.96	1.47	0.25	1.41	0.54	0.32	1.56	0.75	0.12	0.73	0.55	0.14	0.87	0.32
LW3-SB06W-C00WB	50	0.68	1.96	1.60	0.27	1.41	0.60	0.52	1.56	0.79	0.13	0.70	0.35	0.14	0.87	0.35
LW3-SB07E-C00WB	50	1.20	1.97	1.75	0.33	1.52	1.05	0.50	1.56	1.11	0.13	0.73	0.27	0.24	0.93	0.65
LW3-SB07W-C00WB	50	1.20	1.97	1.76	0.33	1.52	1.15	0.50	1.56	1.21	0.14	0.22	0.18	0.26	0.93	0.71
LW3-SB08E-C00WB	41	0.87	2.66	1.41	0.46	1.45	0.83	0.48	1.73	0.91	0.13	0.19	0.16	0.17	0.89	0.43
LW3-SB08W-C00WB	50	0.87	1.97	1.24	0.46	1.52	0.84	0.43	1.53	0.72	0.087	0.12	0.10	0.17	0.93	0.34
LW3-SB09E-C00WB	50	1.01	1.36	1.22	0.24	1.02	0.67	0.43	0.76	0.53	0.11	0.16	0.14	0.19	0.25	0.22
LW3-SB09W-C00WB	50	0.89	1.36	1.15	0.58	1.02	0.83	0.43	0.54	0.49	0.13	0.17	0.15	0.17	0.25	0.21

[a] Counts represent the number of overlapping 1 mile SWACs for each fish in a given composite. It should be noted that the same 1-mile SWAC was often counted multiple times because the fish were collected in close proximity. See Section 3.3.3 of the bioaccumulation modeling report for additional information regarding SWAC calculations.

HCH – hexachlorocyclohexane

ID – identification

SWAC – spatially weighted average concentration

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Table 5d. Smallmouth Bass SWACs for Mechanistic Model Chemicals: Pesticides, cont.

		Sum DDD (µg/kg dw)			Sum DDE (µg/kg dw)			Sum DDT (µg/kg dw)			Total Chlordane (µg/kg dw)			Total DDx (µg/kg dw)		
Sample ID	**Count[a]**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0103R014TSSBWBC00	50	2.02	3.57	3.14	1.94	2.27	2.22	2.28	6.64	4.48	0.77	0.94	0.84	6.56	12.5	9.91
LWG0104R023TSSBWBC10	50	3.19	3.92	3.62	2.2	2.32	2.26	3.33	6.64	5.37	0.78	1.07	0.95	9.47	12.5	11.3
LWG0104R023TSSBWBC20	50	3.04	3.92	3.57	2.2	2.32	2.26	3.33	6.64	5.38	0.78	1.07	0.93	9.47	12.5	11.3
LWG0104R023TSSBWBC30	50	3.04	3.92	3.57	2.2	2.32	2.26	3.33	6.64	5.36	0.78	1.07	0.94	9.47	12.5	11.3
LWG0105R006TSSBWBC00	30	3.81	8.28	5.37	2.16	2.61	2.36	3.33	8.35	4.94	1.04	1.34	1.15	9.47	19.1	12.6
LWG0106R024TSSBWBC00	10	5.52	25.6	12.9	2.25	5.45	3.45	5.04	13.6	8.44	1.13	2.35	1.53	12.7	44.2	24.6
LWG0107R009TSSBWBC10	50	7.24	40.9	31.4	3.71	16.8	12.5	5.02	136	86.5	1.86	4.16	3.18	16.3	192	130
LWG0107R009TSSBWBC20	50	10.9	40.9	32.9	5.19	16.8	12.6	12.7	136	87.4	1.91	4.16	3.27	38.5	192	132
LWG0107R009TSSBWBC30	50	23	40.9	33.6	5.19	16.8	12.6	12.7	136	82	2.35	4.16	3.33	40.6	192	128
LWG0108R010TSSBWBC10	4	5.87	5.87	5.87	3.28	3.28	3.28	7.59	7.59	7.59	2.42	2.42	2.42	16.7	16.7	16.7
LWG0108R010TSSBWBC20	5	5.87	5.87	5.87	3.28	3.28	3.28	7.59	7.59	7.59	2.42	2.42	2.42	16.7	16.7	16.7
LWG0108R010TSSBWBC30	5	5.87	5.87	5.87	3.28	3.28	3.28	7.59	7.59	7.59	2.42	2.42	2.42	16.7	16.7	16.7
LWG0108R032TSSBWBC00	30	3.6	38.2	18.4	3.28	16	8.25	2.47	122	53.4	1.75	3.57	2.42	9.45	175	79.8
LWG0109R006TSSBWBC00	20	3.6	7.03	5.31	3.28	6.06	5.1	1.7	2.91	2.46	1.75	2.97	2.46	9.45	14.3	12.9
LW3-SB010E-C00WB	50	1.42	4.4	1.86	1.59	5.7	1.95	1.42	10.9	2.11	1.12	11.6	1.81	4.6	17.2	5.86
LW3-SB010W-C00WB	50	1.42	3.61	1.82	1.59	4.74	1.94	1.46	6.82	1.82	1.12	4.98	1.53	4.6	11.8	5.49
LW3-SB011E-C00WB	47	1.95	7.12	4.95	1.2	1.77	1.64	4.18	19.3	13.4	1.93	21.9	12.6	7.89	28.7	20.4
LW3-SB011W-C00WB	50	1.45	7.12	3.93	1.61	1.77	1.72	1.79	19.3	9.97	1.75	21.9	9.66	4.8	28.7	15.9
LW3-SB02E-C00WB	50	2.02	3.05	2.54	1.94	2.26	2.13	2.28	3.91	2.64	0.75	0.94	0.85	6.56	9.25	7.28
LW3-SB03E-C00WB	50	2.24	3.51	2.91	2.03	2.27	2.21	2.28	5.52	3.33	0.78	0.94	0.86	6.71	11.4	8.47
LW3-SB03W-C00WB	50	2.75	3.51	3.09	2.2	2.27	2.24	2.43	5.52	4	0.78	0.90	0.84	7.34	11.4	9.37
LW3-SB04E-C01WB	50	3.04	3.92	3.52	2.2	2.32	2.26	3.89	6.64	5.46	0.78	1.07	0.911	10	12.5	11.3
LW3-SB04W-C00WB	50	3.04	4.01	3.63	2.2	2.35	2.27	3.33	6.64	5.16	0.78	1.1	0.97	9.47	12.5	11.1
LW3-SB05W-C00WB	50	3.81	8.28	4.78	2.16	2.61	2.33	3.33	8.35	4.62	1.04	1.34	1.13	9.47	19.1	11.7

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Table 5d. Smallmouth Bass SWACs for Mechanistic Model Chemicals: Pesticides, cont.

		Sum DDD (µg/kg dw)			Sum DDE (µg/kg dw)			Sum DDT (µg/kg dw)			Total Chlordane (µg/kg dw)			Total DDx (µg/kg dw)		
Sample ID	**Count[a]**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LW3-SB06E-C00WB	50	4.01	38.3	19.1	2.16	14.7	5.52	3.4	119	16.8	1.1	4.16	2.06	9.78	171	41.3
LW3-SB06W-C00WB	50	4.58	38.3	21.7	2.16	14.7	6.16	4.2	119	21.1	1.13	4.16	2.24	11	171	48.7
LW3-SB07E-C00WB	50	10.9	40.9	31.3	5.13	16.8	11.9	9.99	136	77.5	1.84	4.16	3.13	37.5	192	120
LW3-SB07W-C00WB	50	10.9	40.9	33	5.19	16.8	13	12.7	136	91.6	1.91	4.16	3.29	38.5	192	137
LW3-SB08E-C00WB	41	3.6	38.2	20.3	3.28	16	8.83	2.47	122	59.5	1.75	3.57	2.5	9.45	175	88.3
LW3-SB08W-C00WB	50	3.6	38.2	13.8	3.28	16.4	7.32	1.74	129	34.8	1.75	3.75	2.52	9.45	182	55.8
LW3-SB09E-C00WB	50	1.58	5.55	4	1.7	6.06	4.64	1.42	2.91	1.83	1.12	2.97	2.12	4.65	14.3	10.4
LW3-SB09W-C00WB	50	3.6	5.55	4.8	3.28	6.06	5.44	1.42	2.91	2.24	1.9	2.97	2.51	9.45	14.3	12.5

[a] Counts represent the number of overlapping 1 mile SWACs for each fish in a given composite. It should be noted that the same 1-mile SWAC was often counted multiple times because the fish were collected in close proximity. See Section 3.3.3 of the bioaccumulation modeling report for additional information regarding SWAC calculations.

DDD – dichlorodiphenyldichloroethane

DDE – dichlorodiphenyldichloroethylene

DDT – dichlorodiphenyltrichloroethane

ID – identification

SWAC – spatially weighted average concentration

total DDx – sum of all six DDT isomers (2,4′-DDD, 2,4′-DDE, 2,4′-DDT, 4,4′-DDD, 4,4′-DDE and 4,4′-DDT)

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Table 5e. Smallmouth Bass SWACs for Mechanistic Model Chemicals: Dioxin and Furan Congeners (NEW)

		1,2,3,7,8-PentaCDD (pg/g dw)			2,3,7,8-TetraCDD (pg/g dw)			1,2,3,4,7,8-HexaCDF (pg/g dw)			2,3,4,7,8-PentaCDF (pg/g dw)			2,3,7,8-TetraCDF (pg/g dw)		
Sample ID	**Count[a]**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LWG0103R014TSSBWBC00	50	0.056	0.15	0.093	0.022	0.062	0.037	0.29	2.1	0.74	0.15	0.95	0.36	0.42	0.96	0.58
LWG0104R023TSSBWBC10	50	0.090	0.15	0.13	0.033	0.057	0.049	0.46	3.6	2.0	0.20	0.96	0.56	0.46	0.60	0.51
LWG0104R023TSSBWBC20	50	0.056	0.15	0.12	0.022	0.057	0.047	0.29	3.6	1.8	0.15	0.96	0.51	0.42	0.60	0.50
LWG0104R023TSSBWBC30	50	0.056	0.15	0.12	0.022	0.057	0.047	0.29	3.6	1.8	0.15	0.96	0.52	0.42	0.60	0.50
LWG0105R006TSSBWBC00	30	0.10	0.18	0.13	0.040	0.044	0.041	2.0	3.9	2.7	0.65	1.1	0.83	0.51	1.1	0.77
LWG0106R024TSSBWBC00	10	0.14	0.21	0.18	0.030	0.044	0.039	2.0	3.2	2.4	0.65	1.4	0.89	0.78	1.8	1.2
LWG0107R009TSSBWBC10	50	0.12	1.6	1.1	0.039	0.77	0.50	6.7	860	530	1.3	130	79	2.0	190	120
LWG0107R009TSSBWBC20	50	0.13	1.6	1.1	0.037	0.77	0.52	3.2	860	530	1.4	130	79	1.73	190	120
LWG0107R009TSSBWBC30	50	0.21	1.6	1.2	0.037	0.77	0.58	3.2	860	480	1.4	130	71	1.73	190	100
LWG0108R010TSSBWBC10	4	0.18	0.18	0.18	0.064	0.064	0.064	2.5	2.5	2.5	0.41	0.41	0.41	0.27	0.27	0.27
LWG0108R010TSSBWBC20	5	0.18	0.18	0.18	0.064	0.064	0.064	2.5	2.5	2.5	0.41	0.41	0.41	0.27	0.27	0.27
LWG0108R010TSSBWBC30	5	0.18	0.18	0.18	0.064	0.064	0.064	2.5	2.5	2.5	0.41	0.41	0.41	0.27	0.27	0.27
LWG0108R032TSSBWBC00	30	0.11	1.4	0.36	0.039	0.68	0.14	0.64	800	330	0.29	120	47	0.41	170	70
LWG0109R006TSSBWBC00	20	0.11	0.18	0.15	0.040	0.18	0.13	0.64	1.3	0.99	0.29	0.55	0.41	0.41	0.54	0.47
LW3-SB010E-C00WB	50	0.18	0.36	0.30	0.047	0.18	0.077	0.60	1.4	1.1	0.18	0.67	0.56	0.28	0.54	0.39
LW3-SB010W-C00WB	50	0.22	0.36	0.30	0.047	0.17	0.080	0.61	1.4	1.2	0.19	0.67	0.59	0.28	0.54	0.40
LW3-SB011E-C00WB	47	0.026	0.29	0.21	0.018	0.14	0.11	0.050	0.70	0.49	0.023	0.26	0.16	0.032	0.39	0.29
LW3-SB011W-C00WB	50	0.18	0.34	0.26	0.047	0.14	0.094	0.38	1.1	0.69	0.14	0.59	0.26	0.23	0.39	0.36
LW3-SB02E-C00WB	50	0.072	0.14	0.11	0.036	0.062	0.050	0.84	1.8	1.3	0.48	0.95	0.72	0.58	0.96	0.82
LW3-SB03E-C00WB	50	0.056	0.14	0.094	0.022	0.062	0.041	0.29	1.8	0.94	0.15	0.95	0.52	0.42	0.96	0.71
LW3-SB03W-C00WB	50	0.056	0.11	0.082	0.022	0.050	0.034	0.29	1.2	0.66	0.15	0.69	0.36	0.42	0.86	0.59
LW3-SB04E-C01WB	50	0.060	0.15	0.12	0.023	0.057	0.048	0.30	3.5	1.8	0.15	0.93	0.50	0.42	0.60	0.50
LW3-SB04W-C00WB	50	0.10	0.15	0.13	0.040	0.057	0.050	0.63	3.7	2.6	0.23	1.0	0.71	0.46	0.60	0.51

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Table 5e. Smallmouth Bass SWACs for Mechanistic Model Chemicals: Dioxin and Furan Congeners (NEW)

		1,2,3,7,8-PentaCDD (pg/g dw)			2,3,7,8-TetraCDD (pg/g dw)			1,2,3,4,7,8-HexaCDF (pg/g dw)			2,3,4,7,8-PentaCDF (pg/g dw)			2,3,7,8-TetraCDF (pg/g dw)		
Sample ID	**Count[a]**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**	**Min**	**Max**	**Mean**
LW3-SB05W-C00WB	50	0.10	0.18	0.13	0.040	0.049	0.043	2.0	3.9	2.9	0.65	1.1	0.85	0.49	1.1	0.70
LW3-SB06E-C00WB	50	0.14	1.6	0.60	0.030	0.77	0.26	2.0	860	40	0.65	130	7.2	0.73	190	9.8
LW3-SB06W-C00WB	50	0.14	1.6	0.69	0.030	0.77	0.30	2.0	860	79	0.65	130	13	0.73	190	18
LW3-SB07E-C00WB	50	0.13	1.6	1.2	0.041	0.77	0.61	6.7	860	510	2.4	130	76	2.3	190	110
LW3-SB07W-C00WB	50	0.13	1.6	1.1	0.037	0.77	0.51	3.2	860	540	1.4	130	79	1.7	190	120
LW3-SB08E-C00WB	41	0.11	1.4	0.41	0.039	0.68	0.17	0.64	800	360	0.29	120	52	0.41	170	77
LW3-SB08W-C00WB	50	0.11	1.5	0.35	0.039	0.72	0.18	0.64	830	220	0.29	120	32	0.41	180	47
LW3-SB09E-C00WB	50	0.14	0.32	0.20	0.078	0.18	0.15	0.72	1.4	1.3	0.31	0.67	0.55	0.40	0.54	0.50
LW3-SB09W-C00WB	50	0.11	0.19	0.16	0.066	0.18	0.15	0.64	1.3	1.1	0.29	0.56	0.46	0.41	0.54	0.48

[a] Counts represent the number of overlapping 1 mile SWACs for each fish in a given composite. It should be noted that the same 1-mile SWAC was often counted multiple times because the fish were collected in close proximity. See Section 3.3.3 of the bioaccumulation modeling report for additional information regarding SWAC calculations.

CDD – chlorodibenzo-p-dioxin

CDF – chlorodibenzofuran

ID – identification

SWAC – spatially weighted average concentration

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