UPDATED

SMALLMOUTH BASS, CRAYFISH, AND CLAM

DATA REPORT

River Operable Unit, Bradford Island
CASCADE LOCKS, OREGON

Prepared by

U.S. ARMY CORPS OF ENGINEERS
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FINAL

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LIST OF ACRONYMS

µg/kg	microgram per kg
BHC	benzene hexachloride
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CSM	conceptual site model
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
DU	Decision Unit
ERDC	Engineer, Research, and Development Center
EPA	United States Environmental Protection Agency
FS	Feasibility Study
GC/ECD	gas chromatography/electron capture detector
mg/kg	milligram per kilogram
MS	matrix spike
MSD	matrix spike duplicate
OC	organochlorine
OU	Operable Unit
PCB	polychlorinated biphenyl
QAPP	Quality Assurance Project Plan
RI	Remedial Investigation
USACE	United States Army Corps of Engineers
USGS	United States Geological Survey

1. INTRODUCTION

The U.S. Army Corps of Engineers (USACE) conducted a Remedial Investigation (RI) for the in-water portion of Bradford Island, known as the River Operable Unit (OU) (USACE 2012), in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and Executive Order 12580. As part of the RI, USACE conducted baseline risk assessments to evaluate risks to human health and the environment from exposure to sediments, surface water, and tissues from within the River OU. Based on the unacceptable risks identified for the River OU, USACE determined remedial action is necessary in order to reduce risk to human health and the environment. USACE has begun to prepare a Feasibility Study (FS) in support of remedial actions in the River OU. As part of the FS, USACE is updating and refining the conceptual site model (CSM) to better understand potential source areas and to develop remedial alternatives. This includes the collection of fish and invertebrate tissues from the Forebay and Reference areas for chemical analysis.

The following sections provide an overview of the sampling design, methods followed, and a summary of the results of the 2020 Bradford Island tissue sampling event. The analysis and interpretation of the 2020 results will be presented in a separate report once completed.

1.1. Updates

This report supersedes the original data report finalized in October 2021. Subsequent to finalization of the original data report, during internal review, the Engineering, Research, and Development Center (ERDC) determined that the Level 2 laboratory reports contained errors that required corrections. See Appendix A for list of specific changes.

Additionally, this data report now includes Stage 2A data validation reports as well as Levels 2 and 4 data reports in the associated appendices. The analytical results for the subset of samples that received analysis of all 209 PCB congeners are included in Appendices I through K.

A memorandum documenting the comparative analysis between the ERDC (EPA Method 8082A), and Eurofins (EPA Method 1668A) PCB congener results is provided in Appendix H. The results from EPA Method 1668A are typically a factor of 1.5 to 2 times greater than the results from EPA Method 8082A for bass samples; total PCB concentrations for all tissue types (bass, clams, and crayfish) are on average 3 times greater than the results from EPA Method 8082A. The concentration associated with the additional congeners reported by Method 1668A accounted for less than 10% of the difference in concentration. The lower detection limits achieved by Method 1668A accounted for an additional 1.8% of the difference observed. The primary reason for the higher reported concentration for PCBs by Method 1688A appears to be associated with a difference in extraction efficiency between the ultrasonic extraction step used in the EPA Method 8082A analysis and the Soxhlet extraction step used in the EPA Method 1668A analysis (see Appendix H). USACE is currently pursuing analysis of the remaining smallmouth bass samples for all 209 PCB congeners using EPA Method 1668A. Those results will be provided in a separate data report in early 2023.

The Table 4 series was updated based on the revised results from ERDC. Corrections were also made to exclude non-detects from presentation of the minimum and average values of detected results presented in the tables. Non-detect values were erroneously included in the original presentation of minimums, maximums, and means for detected concentrations.

Summations for total PCBs are presented as both simple sums, with non-detects summed at the limit of detection, as well as kaplan-meier summations with Efron's bias correction.

2. PROJECT BACKGROUND

2.1. River OU Summary

Previous field efforts performed between 2006 and 2011 in support of the RI found elevated levels of Polychlorinated biphenyls (PCBs) in smallmouth bass, relative to fish collected from upstream reference areas. PCBs in crayfish and clam tissues from the Site were also elevated, relative to the reference area. In support of the FS, USACE conducted supplemental passive porewater sampling and sediment trap deployment in 2017 and 2018. This sampling effort included an underwater video survey, with underwater images of the river bottom along the northern shoreline of Bradford Island showing minimal sediment and large cobbles and boulders. The limited distribution of bedded sediment indicated that the CSM developed in support of the FS may not reflect current conditions at the Site. Subsequently, USACE began collecting data to update the CSM for the River OU. The intent of this data is to help inform the current site conditions for the River OU and to aid in development of remedial action alternatives in the FS.

In 2020, USACE conducted additional in-situ passive porewater sampling to better understand the location of potential primary source contamination along the northern shoreline of Bradford Island. As part of the reevaluation and update to the CSM, tissues of fish and invertebrates were sampled for chemical analysis. Fish movement was also evaluated using radio telemetry to better understand potential source areas for fish. Bass represent an important resident prey species for human health via the fish ingestion pathway. Crayfish and clams are both important invertebrate species with limited home range that provide a localized estimate of uptake, food web transfer, and source.

2.2. Field Effort Summary

The United States Geological Survey (USGS) performed the smallmouth bass and crayfish collection. Collection took place between August 24th and September 28th, 2020. Smallmouth bass (*Micropterus dolomieu*) were collected via angling for purposes of retaining fish for chemical analysis of whole body as well as for bass that were tagged for acoustic telemetry. Results of the acoustic telemetry study are provided as a separate report (Tobias J. Kock, 2021).

Smallmouth bass for tissue analysis were collected from three subareas of the Bonneville dam forebay: Bradford Island, Goose Island, and the Reference Area (Figures 1-9). Based on discussions between USACE and members of the technical advisory group at the time, the Forebay subarea was used as a reference subpopulation.

Signal crayfish (*Pacifastacus leniusculus*) were collected throughout the forebay study area as well as an upstream reference location near Stevenson, Washington (Figures 11 and 12). All crayfish were captured using minnow traps.

Asian clams (*Corbicula fluminea*) were hand collected by SCUBA divers in two phases (Figures 12-17). Phase I included collecting clams from targeted areas along the north shore of Bradford Island based on the results of the passive sampler study and RI data; two of the collection locations off the north shore were designated as reference areas. Phase II included collecting clams from four subareas of the Bonneville Dam forebay: the north shore of Bradford Island (that was subdivided into 10 subareas for some analyses), the south shore of Bradford Island, the Oregon coastline, and Goose Island. Clams were also collected from a reference location near Stevenson, Washington. Phase I took place from September 21st to 25th, 2020, and Phase II collection took place from November 9th to 17th, 2020.

Additional details regarding field activities can be found in the Final Field Report (USACE, Field Report, Bass, Crayfish and Clam Collection, River Operable Unit, Bradford Island, Cascade Locks, OR, 2020).

3. ANALYTICAL METHODS

The methods and procedures used to prepare and chemically analyze the tissue samples are described briefly in this section and in detail in the Quality Assurance Project Plans (QAPP) (USACE, Final Work Plan with Quality Assurance Project Plan for Smallmouth Bass Acoustic Telemetry and Tissue Sampling and Crayfish Tissue Sampling, 2020) and USACE, Final Work Plan with Quality Assurance Project Plan for Clam Sampling, 2020).

3.1. Tissue Analytical Methods

ERDC performed analyses of lipids, mercury, organochlorine pesticides, and PCB congeners. Tissue samples were analyzed according to the methods presented in Table 3-1. Specific analytes analyzed in each tissue type are summarized in Table 3-2.

3.2. Laboratory Deviations from the QAPP

There were no deviations from the QAPP that affected the quality of the data.

Table 3-1 Analytical Methods for Tissue Analyses.

Analyte	Method	Reference
PCB Congeners	GC/ECD	EPA 8082
Organochlorine Pesticides	GC/ECD	EPA 8081
Mercury	Atomic Fluorescence Spectrometry	EPA 7474
Total Lipids	Sulfo-Phospho-Vanillin Colorimetric Method	Van Handel 1985

Note: GC/ECD – gas chromatography/electron capture detector

Table 3-2 Chemical Analyses of Tissue.

Species	Tissue Type	Location	Number of Samples	Number of Samples Analyzed[a]			
				Lipids	PCB congeners	OC Pesticides	Mercury
Smallmouth Bass	Whole body	Bradford	40	40	40	40	40
		Goose Island	20	20	20	20	20
		Reference (part of forebay)	20	20	20	20	20
Signal Crayfish	Whole body, composite	Forebay	20	20	20	20	20
		Reference (Stevenson, WA)	20	20	20	20	20
Asian Clam	Whole body, composite	Phase I					
		North Bradford	38	10	38	10	10
		Reference, Phase I	8	2	8	2	2
		Phase II					
		North Bradford	28	10	28	10	10
		South Bradford	4	4	4	4	4
		Oregon Shoreline	4	4	4	4	4
		Goose Island	4	4	4	4	4
		Reference (Stevenson, WA)	18	18	18	18	18

a: Totals do not include field duplicates, MS, or MSD samples

4. RESULTS OF CHEMICAL ANALYSES

This section summarizes the results of the chemical analyses and data validation of tissue samples.

4.1. Tissue Chemistry Results

This section presents a summary of the tissue chemistry and conventional parameters (lipids) data for each tissue type collected in 2020. The complete data for each tissue type, including duplicate results and detection limits for each analyte are presented in Appendix B (bass tissue), Appendix C (clams tissue), and Appendix D (crayfish tissue). A full evaluation of the tissue data will be presented in a separate data evaluation report.

4.1.1 Smallmouth Bass

Adult smallmouth bass were collected from the North Bradford area (n=40), the vicinity of Goose Island (n=20), and the Forebay reference area (n=20) (Figure 1). All analytes were measured in each individual, whole-body sample. Analytical results for bass are summarized in Table 4-1.

PCB congeners were detected in all bass collected from the North Bradford and Forebay Reference. Total average concentration of total PCB congeners (KM sum with Efron's cap) in bass from the North Bradford area was 1,168 µg/kg and generally ranged from 6.44 to 11,589 µg/kg. The average concentration of total PCBs in bass collected from the Forebay Reference area was 99.4 µg/kg (range: 10.2 to 853 µg/kg); whereas the average in bass from Goose Island was 106 µg/kg total PCBs (range: 4.52 to 744 µg/kg).

Total mercury was detected in all fish collected from the North Bradford, Goose Island, and Forebay Reference areas, with a similar range of concentrations in the three subareas and average concentrations of 0.161 mg/kg, 0.146 mg/kg, and 0.184 mg/kg total mercury, respectively. Organochlorine pesticides were detected in bass, with DDT compounds, alpha-chlordane, dieldrin and endrin being the most frequently detected. Total lipids concentrations were generally similar across the three areas, with lipid content ranging from 1.22% to 8.33%.

Table 4-1 Smallmouth Bass Tissue Data Summary.

Analyte	Units	Detection Frequency		Detected Concentrations		
		Detects/Total	%	Minimum	Maximum	Mean
Bradford Island						
Total PCB Congeners (ND=DL)	µg/kg	40/40	100%	7.37	11589	1111
Total PCB Congeners, KM Sum				6.44	11589	1168
Mercury	mg/kg	40/40	100%	0.0302	0.345	0.161
2,4'-DDD	µg/kg	7/40	18%	0.398	11.7	2.61
2,4´-DDE	µg/kg	1/40	3%	21.4	21.4	21.4
2,4´-DDT	µg/kg	0/40	0%	ND	ND	ND
4,4'-DDD	µg/kg	39/40	98%	1.58	12.8	4.46
4,4'-DDE	µg/kg	40/40	100%	12.4	233	45.9
4,4'-DDT	µg/kg	13/40	33%	0.861	3.89	1.83
alpha-BHC	µg/kg	0/40	0%	ND	ND	ND
alpha-Chlordane	µg/kg	8/40	20%	0.625	2.42	1.17
beta-BHC	µg/kg	0/40	0%	ND	ND	ND
delta-BHC	µg/kg	0/40	0%	ND	ND	ND
Dieldrin	µg/kg	23/40	58%	0.0301	7.08	2.78
Endosulfan I	µg/kg	23/40	58%	0.464	7.07	3.05
Endosulfan II	µg/kg	2/40	5%	5.81	22.7	14.3
Endrin	µg/kg	0/40	0%	ND	ND	ND
Endrin aldehyde	µg/kg	0/40	0%	ND	ND	ND
gamma-BHC (Lindane)	µg/kg	0/40	0%	ND	ND	ND
gamma-Chlordane	µg/kg	4/40	10%	14.1	80.9	43.9
Methoxychlor	µg/kg	1/40	3%	0.794	0.794	0.794
Total Lipids	%	40/40	100%	1.44	8.33	3.68
Goose Island						
Total PCB Congeners (ND=DL)	µg/kg	19/20	95%	6.09	591	46.7
Total PCB Congeners, KM Sum				4.52	744	106
Mercury	mg/kg	20/20	100%	0.0653	0.359	0.146
2,4'-DDD	µg/kg	10/20	50%	0.486	1.30	0.819
2,4´-DDE	µg/kg	5/20	25%	0.433	1.27	0.748
2,4´-DDT	µg/kg	0/20	0%	ND	ND	ND
4,4'-DDD	µg/kg	20/20	100%	1.35	9.85	4.02
4,4'-DDE	µg/kg	20/20	100%	12.4	78.1	32.0
4,4'-DDT	µg/kg	20/20	100%	0.427	3.73	1.87
alpha-BHC	µg/kg	0/20	0%	ND	ND	ND
alpha-Chlordane	µg/kg	0/20	0%	ND	ND	ND
beta-BHC	µg/kg	0/20	0%	ND	ND	ND
delta-BHC	µg/kg	0/20	0%	ND	ND	ND
Dieldrin	µg/kg	6/20	30%	0.379	1.35	0.775
Endosulfan I	µg/kg	11/20	55%	0.429	8.03	3.02
Endosulfan II	µg/kg	0/20	0%	ND	ND	ND
Endrin	µg/kg	0/20	0%	ND	ND	ND
Endrin aldehyde	µg/kg	0/20	0%	ND	ND	ND
gamma-BHC (Lindane)	µg/kg	0/20	0%	ND	ND	ND
gamma-Chlordane	µg/kg	0/20	0%	ND	ND	ND
Methoxychlor	µg/kg	0/20	0%	ND	ND	ND
Total Lipids	%	20/20	100%	1.22	4.66	2.62

Table 4-1 Continued.

Analyte	Units	Detection Frequency		Detected Concentrations		
		Detects/Total	%	Minimum	Maximum	Mean
Reference Area (Forebay)						
Total PCB Congeners (ND=DL)	µg/kg	20/20	100%	11.1	854	115
Total PCB Congeners, KM Sum				10.2	853	99.4
Mercury	mg/kg	20/20	100%	0.0332	1.19	0.184
2,4'-DDD	µg/kg	17/20	85%	0.106	0.848	0.564
2,4´-DDE	µg/kg	0/20	0%	ND	ND	ND
2,4´-DDT	µg/kg	0/20	0%	ND	ND	ND
4,4'-DDD	µg/kg	20/20	100%	0.552	4.31	2.48
4,4'-DDE	µg/kg	20/20	100%	8.46	63.0	25.1
4,4'-DDT	µg/kg	17/20	85%	0.290	2.05	1.08
alpha-BHC	µg/kg	0/20	0%	ND	ND	ND
alpha-Chlordane	µg/kg	0/20	0%	ND	ND	ND
beta-BHC	µg/kg	0/20	0%	ND	ND	ND
delta-BHC	µg/kg	0/20	0%	ND	ND	ND
Dieldrin	µg/kg	1/20	5%	1.83	1.83	1.83
Endosulfan I	µg/kg	0/20	0%	ND	ND	ND
Endosulfan II	µg/kg	0/20	0%	ND	ND	ND
Endrin	µg/kg	0/20	0%	ND	ND	ND
Endrin aldehyde	µg/kg	0/20	0%	ND	ND	ND
gamma-BHC (Lindane)	µg/kg	0/20	0%	ND	ND	ND
gamma-Chlordane	µg/kg	0/20	0%	ND	ND	ND
Methoxychlor	µg/kg	0/20	0%	ND	ND	ND
Total Lipids	%	20/20	100%	1.56	4.52	2.78

Notes:

Field duplicate results are not included in summary statistics. ND = not detected.

4.1.2 Signal Crayfish

Adult Signal crayfish were collected from locations in the Forebay, including North Bradford Island (n=10), Goose Island (n=5), South Bradford Island (n=2), and the Oregon Shoreline (n=3) (Figure 10). Crayfish were also collected from the Reference area, upstream of Stevenson, WA (n=20) (Figure 11). One composite per location was submitted for chemical analysis. Analytical results for crayfish are summarized in Table 4-2.

PCB congeners were detected in 55% of the crayfish composites collected in the Forebay area, with each of the detected values being associated with North or South Bradford Island. Total detected PCB concentrations (KM sum with Efron's cap) ranged from 4.86 to 38.1 µg/kg. PCB congeners were not detected in crayfish collected at Goose Island, the Oregon Shore, or from the upstream Reference area.

Mercury was detected in all crayfish composites in both the Forebay and the upstream Reference, with a similar range in concentrations for both areas (Forebay: 0.0200 to 0.0496 mg/kg; Reference: 0.0176 to 0.0473 mg/kg total mercury). 4,4-DDE was also detected in all Forebay and Reference area crayfish, with similar average concentrations of 0.537 µg/kg and 0.925 µg/kg 4,4-DDE, respectively. Other organochlorine pesticides that were observed less frequently and at concentrations near the reporting limit included 4,4-DDD, alpha-chlordane, beta-BHC, and endosulfan I. These other organochlorine pesticides were observed sporadically throughout both the Forebay and Reference locations.

Lipid content was consistent across the Forebay and Reference areas, with average lipid values of 1.00% and 1.18%, respectively.

Table 4-2 Crayfish Tissue Data Summary.

Analyte	Units	Detection Frequency		Detected Concentrations		
		Detects/Total	%	Minimum	Maximum	Mean
Reference						
Total PCB Congeners (ND=DL)	µg/kg	0/20	0%	ND	ND	ND
Total PCB Congeners, KM Sum				ND	ND	ND
Mercury	mg/kg	20/20	100%	0.0176	0.0473	0.0297
2,4'-DDD	µg/kg	0/20	0%	ND	ND	ND
2,4´-DDE	µg/kg	0/20	0%	ND	ND	ND
2,4´-DDT	µg/kg	0/20	0%	ND	ND	ND
4,4'-DDD	µg/kg	2/20	10%	0.106	0.118	0.112
4,4'-DDE	µg/kg	20/20	100%	0.264	1.82	0.925
4,4'-DDT	µg/kg	0/20	0%	ND	ND	ND
alpha-BHC	µg/kg	0/20	0%	ND	ND	ND
alpha-Chlordane	µg/kg	3/20	15%	0.0410	0.0490	0.0443
beta-BHC	µg/kg	1/20	5%	0.101	0.101	0.101
delta-BHC	µg/kg	0/20	0%	ND	ND	ND
Dieldrin	µg/kg	0/20	0%	ND	ND	ND
Endosulfan I	µg/kg	4/20	20%	0.0390	0.0520	0.0445
Endosulfan II	µg/kg	0/20	0%	ND	ND	ND
Endrin	µg/kg	0/20	0%	ND	ND	ND
Endrin aldehyde	µg/kg	0/20	0%	ND	ND	ND
gamma-BHC (Lindane)	µg/kg	0/20	0%	ND	ND	ND
gamma-Chlordane	µg/kg	0/20	0%	ND	ND	ND
Methoxychlor	µg/kg	0/20	0%	ND	ND	ND
Total Lipids	%	20/20	100%	0.378	1.76	1.18
Forebay						
Total PCB Congeners (ND=DL)	µg/kg	11/20	55%	5.82	38.8	17.7
Total PCB Congeners, KM Sum				4.86	38.1	16.3
Mercury	mg/kg	20/20	100%	0.0200	0.0496	0.0349
2,4'-DDD	µg/kg	0/20	0%	ND	ND	ND
2,4´-DDE	µg/kg	0/20	0%	ND	ND	ND
2,4´-DDT	µg/kg	0/20	0%	ND	ND	ND
4,4'-DDD	µg/kg	3/20	15%	0.0410	0.0640	0.0493
4,4'-DDE	µg/kg	20/20	100%	0.189	1.08	0.537
4,4'-DDT	µg/kg	1/20	5%	0.193	0.193	0.193
alpha-BHC	µg/kg	0/20	0%	ND	ND	ND
alpha-Chlordane	µg/kg	1/20	5%	0.121	0.121	0.121
beta-BHC	µg/kg	0/20	0%	ND	ND	ND
delta-BHC	µg/kg	0/20	0%	ND	ND	ND
Dieldrin	µg/kg	0/20	0%	ND	ND	ND
Endosulfan I	µg/kg	8/20	40%	0.0410	0.0750	0.0518
Endosulfan II	µg/kg	0/20	0%	ND	ND	ND
Endrin	µg/kg	0/20	0%	ND	ND	ND
Endrin aldehyde	µg/kg	0/20	0%	ND	ND	ND
gamma-BHC (Lindane)	µg/kg	0/20	0%	ND	ND	ND
gamma-Chlordane	µg/kg	0/20	0%	ND	ND	ND
Methoxychlor	µg/kg	0/20	0%	ND	ND	ND
Total Lipids	%	20/20	100%	0.643	1.53	1.00

4.1.3 Asian Clams

Adult Asian clams were collected for tissue analysis during two phases. Phase I included 10 targeted "decision units" (DU1 through DU10) located along the north shore of Bradford Island based on results from the passive sampler study (Figures 12-14). Each DU was comprised of up to four stations. Two reference locations were also located along the north shore of Bradford Island in locations with low PCB concentrations in the passive samplers. One composite per DU and reference location was analyzed for lipids, mercury, and organochlorine pesticides. PCB congeners were analyzed on each individual station that comprised each DU or reference location. Analytical results for Phase I clams are summarized in Table 4-3 and 4-5.

Phase II included 10 subareas of the north shore of Bradford Island, with three stations sampled in each subarea (Figure 15). One composite per subarea was submitted for lipids, mercury, and organochlorine pesticides analysis. Clams from each individual station were submitted for PCB congeners analysis (n=28). Clams were also collected and submitted for chemical analysis from locations near Goose Island (n=4), South Bradford Island (n=4), the Oregon Shoreline (n=4), and nine Reference area locations upstream of Stevenson, Washington, each with two stations (n=18) (Figures 16-18). All analytes were measured in clams from each of the Goose Island, South Bradford, Oregon Shoreline, and Reference locations. Analytical results for Phase II clams are summarized in Tables 4-4 and 4-5.

PCB congeners were detected in all Phase I and Phase II clam samples. Total PCB concentrations (KM sum with Efron's cap) for the targeted Phase I stations off the north shore of Bradford Island ranged from 9.71 to 4,451 µg/kg total PCBs. Except for DU-10, the average concentrations for each DU ranged from 12.0 to 51.8 µg/kg.; the average total PCB concentration in clams from DU-10 was 1,200 µg/kg. Total PCB congeners for the reference stations off the north shore of Bradford Island ranged from 6.39 to 33.8 µg/kg total PCBs.

Concentrations of total PCBs in Phase II clams from individual stations within the North Bradford area ranged from 8.67 to 599 µg/kg. The average concentrations for subareas A through J were generally similar to those observed in Phase I, generally ranging from 15.7 to 52.5 µg/kg, with two subareas (E and F) having notably higher average concentrations of 68.9 µg/kg and 254 µg/kg total PCBs, respectively. Total PCB concentrations in clams were lower in the Goose Island, Oregon Shoreline, and upstream Reference areas, with average concentrations of 5.74 µg/kg, 6.50 µg/kg and 6.17 µg/kg, respectively.

Mercury was detected in all clam samples from the Forebay and Reference areas during both Phase I and Phase II sampling, with a similar range in concentrations for all areas. The average total mercury concentrations for Phase II clam tissues in the Forebay (North Bradford, South Bradford, Goose Island, and Oregon Shoreline) ranged from 0.00767 mg/kg to 0.0109 mg/kg; the average total mercury concentration in clam tissues from the Phase II Reference was 0.00816 mg/kg. DDD, DDE, and DDT were the only organochlorine pesticides observed in Phase I and II clam samples, with higher concentrations observed in the Goose Island and Reference samples than for the North Bradford study area. Lipid content was consistent across the Forebay and Reference areas, with average Phase II lipid values ranging from 1.82% to 2.93%.

Table 4-3 Phase I Clams Tissue Data Summary.

Analyte	Units	Detection Frequency		Detected Concentrations		
		Detects/Total	%	Minimum	Maximum	Mean
Reference						
Total PCB Congeners (ND=DL)	µg/kg	8/8	100%	8.18	34.3	17.9
Total PCB Congeners, KM Sum				6.39	33.8	16.0
Mercury	mg/kg	2/2	100%	0.00710	0.00808	0.00759
2,4'-DDD	µg/kg	0/2	0%	ND	ND	ND
2,4´-DDE	µg/kg	0/2	0%	ND	ND	ND
2,4´-DDT	µg/kg	0/2	0%	ND	ND	ND
4,4'-DDD	µg/kg	2/2	100%	0.884	0.941	0.913
4,4'-DDE	µg/kg	2/2	100%	4.43	4.64	4.54
4,4'-DDT	µg/kg	0/2	0%	ND	ND	ND
alpha-BHC	µg/kg	0/2	0%	ND	ND	ND
alpha-Chlordane	µg/kg	0/2	0%	ND	ND	ND
beta-BHC	µg/kg	0/2	0%	ND	ND	ND
delta-BHC	µg/kg	0/2	0%	ND	ND	ND
Dieldrin	µg/kg	0/2	0%	ND	ND	ND
Endosulfan I	µg/kg	0/2	0%	ND	ND	ND
Endosulfan II	µg/kg	0/2	0%	ND	ND	ND
Endrin	µg/kg	0/2	0%	ND	ND	ND
Endrin aldehyde	µg/kg	0/2	0%	ND	ND	ND
gamma-BHC (Lindane)	µg/kg	0/2	0%	ND	ND	ND
gamma-Chlordane	µg/kg	0/2	0%	ND	ND	ND
Methoxychlor	µg/kg	0/2	0%	ND	ND	ND
Total Lipids	%	2/2	100%	3.24	3.34	3.29
North Bradford						
Total PCB Congeners (ND=DL)	µg/kg	38/38	100%	10.5	4451	151
Total PCB Congeners, KM Sum				9.71	4451	150
Mercury	mg/kg	10/10	100%	0.00597	0.00949	0.00773
2,4'-DDD	µg/kg	0/10	0%	ND	ND	ND
2,4´-DDE	µg/kg	0/10	0%	ND	ND	ND
2,4´-DDT	µg/kg	0/10	0%	ND	ND	ND
4,4'-DDD	µg/kg	9/10	90%	0.0388	0.890	0.711
4,4'-DDE	µg/kg	9/10	90%	1.80	4.54	3.46
4,4'-DDT	µg/kg	0/10	0%	ND	ND	ND
alpha-BHC	µg/kg	0/10	0%	ND	ND	ND
alpha-Chlordane	µg/kg	0/10	0%	ND	ND	ND
beta-BHC	µg/kg	0/10	0%	ND	ND	ND
delta-BHC	µg/kg	0/10	0%	ND	ND	ND
Dieldrin	µg/kg	0/10	0%	ND	ND	ND
Endosulfan I	µg/kg	0/10	0%	ND	ND	ND
Endosulfan II	µg/kg	0/10	0%	ND	ND	ND
Endrin	µg/kg	0/10	0%	ND	ND	ND
Endrin aldehyde	µg/kg	0/10	0%	ND	ND	ND
gamma-BHC (Lindane)	µg/kg	0/10	0%	ND	ND	ND
gamma-Chlordane	µg/kg	0/10	0%	ND	ND	ND
Methoxychlor	µg/kg	0/10	0%	ND	ND	ND
Total Lipids	%	10/10	100%	1.88	4.39	2.79

Table 4-4 Phase II Clams Tissue Data Summary.

Analyte	Units	Detection Frequency		Detected Concentrations		
		Detects/Total	%	Minimum	Maximum	Mean
Reference						
Total PCB Congeners (ND=DL)	µg/kg	18/18	100%	6.06	9.23	6.96
Total PCB Congeners, KM Sum				5.20	8.65	6.17
Mercury	mg/kg	18/18	100%	0.00622	0.0113	0.00816
2,4'-DDD	µg/kg	0/18	0%	ND	ND	ND
2,4´-DDE	µg/kg	0/18	0%	ND	ND	ND
2,4´-DDT	µg/kg	0/18	0%	ND	ND	ND
4,4'-DDD	µg/kg	18/18	100%	0.929	2.39	1.61
4,4'-DDE	µg/kg	18/18	100%	4.02	10.9	7.11
4,4'-DDT	µg/kg	18/18	100%	0.215	0.635	0.413
alpha-BHC	µg/kg	0/18	0%	ND	ND	ND
alpha-Chlordane	µg/kg	0/18	0%	ND	ND	ND
beta-BHC	µg/kg	0/18	0%	ND	ND	ND
delta-BHC	µg/kg	0/18	0%	ND	ND	ND
Dieldrin	µg/kg	0/18	0%	ND	ND	ND
Endosulfan I	µg/kg	0/18	0%	ND	ND	ND
Endosulfan II	µg/kg	0/18	0%	ND	ND	ND
Endrin	µg/kg	0/18	0%	ND	ND	ND
Endrin aldehyde	µg/kg	0/18	0%	ND	ND	ND
gamma-BHC (Lindane)	µg/kg	0/18	0%	ND	ND	ND
gamma-Chlordane	µg/kg	0/18	0%	ND	ND	ND
Methoxychlor	µg/kg	1/18	6%	5.78	5.78	5.78
Total Lipids	%	18/18	100%	1.82	2.93	2.29
North Bradford						
Total PCB Congeners (ND=DL)	µg/kg	10/10	100%	9.39	599	57.6
Total PCB Congeners, KM Sum				8.67	599	55.6
Mercury	mg/kg	10/10	100%	0.00767	0.0109	0.00922
2,4'-DDD	µg/kg	0/10	0%	ND	ND	ND
2,4´-DDE	µg/kg	0/10	0%	ND	ND	ND
2,4´-DDT	µg/kg	0/10	0%	ND	ND	ND
4,4'-DDD	µg/kg	10/10	100%	0.521	1.59	1.12
4,4'-DDE	µg/kg	10/10	100%	2.28	9.58	5.53
4,4'-DDT	µg/kg	0/10	0%	ND	ND	ND
alpha-BHC	µg/kg	0/10	0%	ND	ND	ND
alpha-Chlordane	µg/kg	0/10	0%	ND	ND	ND
beta-BHC	µg/kg	0/10	0%	ND	ND	ND
delta-BHC	µg/kg	0/10	0%	ND	ND	ND
Dieldrin	µg/kg	0/10	0%	ND	ND	ND
Endosulfan I	µg/kg	0/10	0%	ND	ND	ND
Endosulfan II	µg/kg	0/10	0%	ND	ND	ND
Endrin	µg/kg	0/10	0%	ND	ND	ND
Endrin aldehyde	µg/kg	0/10	0%	ND	ND	ND
gamma-BHC (Lindane)	µg/kg	0/10	0%	ND	ND	ND
gamma-Chlordane	µg/kg	0/10	0%	ND	ND	ND
Methoxychlor	µg/kg	0/10	0%	ND	ND	ND
Total Lipids	%	10/10	100%	2.09	2.60	2.38

Table 4-4 Continued.

Analyte	Units	Detection Frequency		Detected Concentrations		
		Detects/Total	%	Minimum	Maximum	Mean
South Bradford						
Total PCB Congeners (ND=DL)	µg/kg	4/4	100%	10.8	16.4	13.7
Total PCB Congeners, KM Sum				10.1	15.7	13.1
Mercury	mg/kg	4/4	100%	0.00808	0.0101	0.00933
2,4'-DDD	µg/kg	1/4	25%	2.03	2.03	2.03
2,4´-DDE	µg/kg	0/4	0%	ND	ND	ND
2,4´-DDT	µg/kg	0/4	0%	ND	ND	ND
4,4'-DDD	µg/kg	4/4	100%	0.983	2.02	1.69
4,4'-DDE	µg/kg	4/4	100%	4.38	9.42	7.92
4,4'-DDT	µg/kg	4/4	100%	0.861	1.06	0.946
alpha-BHC	µg/kg	0/4	0%	ND	ND	ND
alpha-Chlordane	µg/kg	0/4	0%	ND	ND	ND
beta-BHC	µg/kg	0/4	0%	ND	ND	ND
delta-BHC	µg/kg	0/4	0%	ND	ND	ND
Dieldrin	µg/kg	0/4	0%	ND	ND	ND
Endosulfan I	µg/kg	0/4	0%	ND	ND	ND
Endosulfan II	µg/kg	0/4	0%	ND	ND	ND
Endrin	µg/kg	0/4	0%	ND	ND	ND
Endrin aldehyde	µg/kg	0/4	0%	ND	ND	ND
gamma-BHC (Lindane)	µg/kg	0/4	0%	ND	ND	ND
gamma-Chlordane	µg/kg	0/4	0%	ND	ND	ND
Methoxychlor	µg/kg	0/4	0%	ND	ND	ND
Total Lipids	%	4/4	100%	2.10	2.59	2.30
Goose Island						
Total PCB Congeners (ND=DL)	µg/kg	4/4	100%	6.52	6.83	6.66
Total PCB Congeners, KM Sum				5.43	5.96	5.74
Mercury	mg/kg	4/4	100%	0.00780	0.00981	0.00893
2,4'-DDD	µg/kg	0/4	0%	ND	ND	ND
2,4´-DDE	µg/kg	1/4	25%	2.87	2.87	2.87
2,4´-DDT	µg/kg	0/4	0%	ND	ND	ND
4,4'-DDD	µg/kg	4/4	100%	1.24	3.05	2.18
4,4'-DDE	µg/kg	4/4	100%	4.71	12.7	9.04
4,4'-DDT	µg/kg	4/4	100%	0.819	1.32	1.06
alpha-BHC	µg/kg	0/4	0%	ND	ND	ND
alpha-Chlordane	µg/kg	0/4	0%	ND	ND	ND
beta-BHC	µg/kg	0/4	0%	ND	ND	ND
delta-BHC	µg/kg	0/4	0%	ND	ND	ND
Dieldrin	µg/kg	0/4	0%	ND	ND	ND
Endosulfan I	µg/kg	0/4	0%	ND	ND	ND
Endosulfan II	µg/kg	0/4	0%	ND	ND	ND
Endrin	µg/kg	0/4	0%	ND	ND	ND
Endrin aldehyde	µg/kg	0/4	0%	ND	ND	ND
gamma-BHC (Lindane)	µg/kg	0/4	0%	ND	ND	ND
gamma-Chlordane	µg/kg	0/4	0%	ND	ND	ND
Methoxychlor	µg/kg	0/4	0%	ND	ND	ND
Total Lipids	%	4/4	100%	2.17	2.63	2.37

Table 4-4 Continued.

Analyte	Units	Detection Frequency		Detected Concentrations		
		Detects/Total	%	Minimum	Maximum	Mean
Oregon Shore						
Total PCB Congeners (ND=DL)	µg/kg	4/4	100%	6.31	8.13	7.16
Total PCB Congeners, KM Sum				5.72	7.83	6.50
Mercury	mg/kg	4/4	100%	0.00672	0.00966	0.00839
2,4'-DDD	µg/kg	0/4	0%	ND	ND	ND
2,4´-DDE	µg/kg	0/4	0%	ND	ND	ND
2,4´-DDT	µg/kg	0/4	0%	ND	ND	ND
4,4'-DDD	µg/kg	4/4	100%	1.59	2.50	2.00
4,4'-DDE	µg/kg	4/4	100%	6.37	11.2	8.55
4,4'-DDT	µg/kg	4/4	100%	0.589	1.11	0.922
alpha-BHC	µg/kg	0/4	0%	ND	ND	ND
alpha-Chlordane	µg/kg	0/4	0%	ND	ND	ND
beta-BHC	µg/kg	0/4	0%	ND	ND	ND
delta-BHC	µg/kg	0/4	0%	ND	ND	ND
Dieldrin	µg/kg	0/4	0%	ND	ND	ND
Endosulfan I	µg/kg	0/4	0%	ND	ND	ND
Endosulfan II	µg/kg	0/4	0%	ND	ND	ND
Endrin	µg/kg	0/4	0%	ND	ND	ND
Endrin aldehyde	µg/kg	0/4	0%	ND	ND	ND
gamma-BHC (Lindane)	µg/kg	0/4	0%	ND	ND	ND
gamma-Chlordane	µg/kg	0/4	0%	ND	ND	ND
Methoxychlor	µg/kg	1/4	25%	0.622	0.622	0.622
Total Lipids	%	4/4	100%	1.89	2.78	2.46

Note: Field duplicate results are not included in summary statistics. ND = not detected.

Table 4-5 Total PCB (KM Sum) Concentrations in Clams from North Bradford Island Subareas (µg/kg).

Subarea	Detects/Total	Percent	Minimum	Maximum	Mean
Phase I					
DU-1	3/3	100%	10.2	22.1	17.0
DU-2	4/4	100%	12.7	18.9	15.5
DU-3	4/4	100%	12.5	31.0	21.5
DU-4	4/4	100%	23.2	28.9	25.9
DU-5	3/3	100%	31.9	50.5	40.6
DU-6	4/4	100%	18.0	38.3	26.8
DU-7	4/4	100%	34.5	66.5	51.8
DU-8	4/4	100%	9.71	16.8	12.0
DU-9	4/4	100%	12.5	68.0	32.9
DU-10	4/4	100%	82.8	4451	1200
Phase II					
Subarea A	3/3	100%	14.8	17.5	15.7
Subarea B	3/3	100%	15.2	25.7	19.5
Subarea C	3/3	100%	29.8	66.0	44.1
Subarea D	3/3	100%	32.5	74.2	52.5
Subarea E	3/3	100%	34.6	95.0	68.9
Subarea F	3/3	100%	15.1	599	254
Subarea G	3/3	100%	17.0	24.6	19.6
Subarea H	2/2	100%	13.8	67.6	40.7
Subarea I	3/3	100%	9.40	27.0	18.2
Subarea J	2/2	100%	8.67	24.8	16.7

4.2. Comparison with Historical Data

Previous tissue data were collected during the remedial investigation and included smallmouth bass, crayfish, and clam tissues from Bradford Island and upstream reference areas (USACE 2016). The following section provides a brief comparison of the concentrations for PCB congeners observed in 2020, relative to previous observations. As noted, the PCB congeners for the 2020 dataset were analyzed using Method 8082A, which resulted in generally lower concentrations relative to data previously analyzed using Method 1668A due to difference in extraction methods. More detailed analysis, including statistical comparisons between data sets will be included in the data evaluation report.

PCB concentrations in smallmouth bass from Bradford Island, Goose Island, and the Bonneville Forebay in 2020 were lower than those collected from the same area during the same season in 2008 and 2011 (Table 4-6). The average total PCB concentration in fish collected in 2020 was 17 times lower than those collected in 2008/2011, over an order of magnitude. Similarly, the maximum total PCB concentration observed in 2020 was 16 times lower than the maximum observed in 2008/2011.

For both 2008/2011 and 2020, there was a small subset of smallmouth bass with elevated PCB concentrations relative to the entire sampled population (Graph 4-1). For the 2008/2011 fish, there were six fish with tissue concentrations between 19,302 µg/kg and 183,148 µg/kg total PCBs that are driving the elevated average. The remaining fish had tissue concentrations below 2,500 µg/kg. In 2020, three fish had tissue concentrations between 3,670 µg/kg and 11,589 µg/kg total PCBs. All other fish were below 2,237 µg/kg. Overall, this recent sampling effort in 2020 shows a notable reduction in total PCB concentrations for smallmouth bass. While concentrations remain above thresholds considered safe for subsistence level fish consumption and fish advisories for resident fish remain in place, the overall trend in total PCB concentrations has notably decreased compared to the 2008/2011 results.

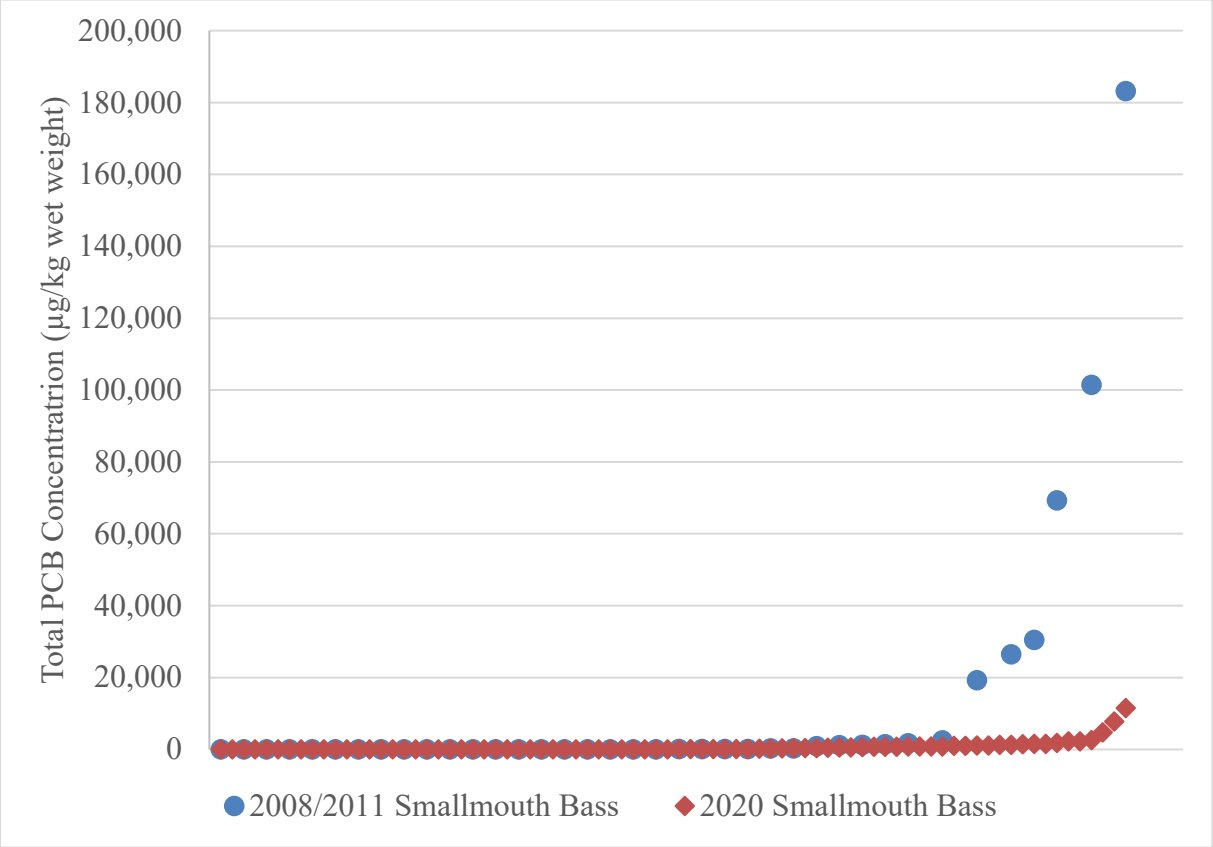
Total PCBs in crayfish tissues were lower in 2008/2011 compared to 2020, with average concentrations of 6.7 µg/kg and 16.27µg/kg, respectively.

Concentrations of total PCB congeners in clams were lower in 2020 throughout the Forebay, relative to the previous data sets. Although the sampled locations differ between 2008/2011 and 2020, with more emphasis on the north shore of Bradford Island in 2020, the maximum, median and average concentrations of total PCBs in clams were lower in 2020 than for the combined 2008/2011 dataset. Total PCB concentrations were also lower in 2020 (Phase I and II) clams collected from targeted locations reoccupying historical collection locations along the north shore of Bradford Island. The highest concentrations were observed in similar locations for both the 2008/2011 and 2020 Phase I and II data, particularly at the eastern end of the north Bradford Island shoreline. The spatial distribution of clam tissue concentrations will be further evaluated in a separate data evaluation report.

Table 4-6 Comparison of Total PCBs in Biota Collected from the Forebay in 2008/2011 and 2020

Event	Number of Samples	Concentration of Total PCBs (µg/kg wet weight)				
		Minimum	Maximum	Average	Standard Deviation	Median
Smallmouth Bass						
2008/2011[a,b]	38	13.2	183,148	11,608	35,083	64.4
2020[b]	80	4.52	11,589	628	1,709	64.8
Signal Crayfish						
2008/2011[a, c]	15	0.55	42.6	6.7	11.6	1.0
2020[c]	20	4.86	38.1	16.3	12.5	10.5
Asian Clams						
Forebay						
2008/2011[a, c]	23	24.5	2,029	298	446	32.9
Phase II, 2020[c]	28	8.67	599	55.6	109	24.8
Asian Clams, North Bradford						
2011 Station ID:	**112**	**113**	**114**	**115**	**117**	**118**
2011 Average Total PCBs:	2,029	1,878	1,082	449	185	303
2020 Station ID:	**DU-10**	**E2**	**D2**	**C2, C3**	**A3**	**DU-1, A2**
2020 Average Total PCBs [d]:	1,200	77.2	74.2	36.6, 29.8	17.5	17.0,14.9

Notes:
2008/2011 data were analyzed with EPA method 1668, whereas 2020 data were analyzed using method 8082.
a: Data from remedial investigation (USACE 2012).
b: Includes bass from the North Bradford, Forebay Reference, and Goose Island areas.
c: Kaplan-Meier averages used in 2008/2011 and 2020 datasets
d: Includes stations sampled in the Forebay during Phases I and II.



Graph 4-1 2008/2011(blue circle; Method 8082A) Versus 2020 (red diamond; Method 1668A) Total PCB Concentrations of Smallmouth Bass near Bradford Island.

4.3. Data Validation and Data Usability Assessments

Stage 2A data validation was performed by the USACE Seattle District project chemist on all results generated by ERDC. Stage 2A data validation was performed by Laboratory Data Consultants, Inc. on all results generated by Eurofins Knoxville for the subset of samples analyzed for all 209 PCB congeners, and the data validation was reviewed by the USACE Seattle District project chemist. Data Usability Assessments by the project team determined that all data were acceptable for use as qualified.

5. NEXT STEPS

The information provided in this data report does not include analysis and interpretation of the results, with the exception of basic statistics (minimum, maximum, mean) provided for the various analyses. USACE plans to perform an analysis of all the tissue results and present an interpretation of those results in a subsequent data evaluation report. USACE is currently pursuing analysis of the remaining smallmouth bass samples for all 209 PCB congeners using EPA Method 1668A. This analysis and interpretation will inform the continuing feasibility study efforts, including remedial alternatives development.

6. REFERENCES

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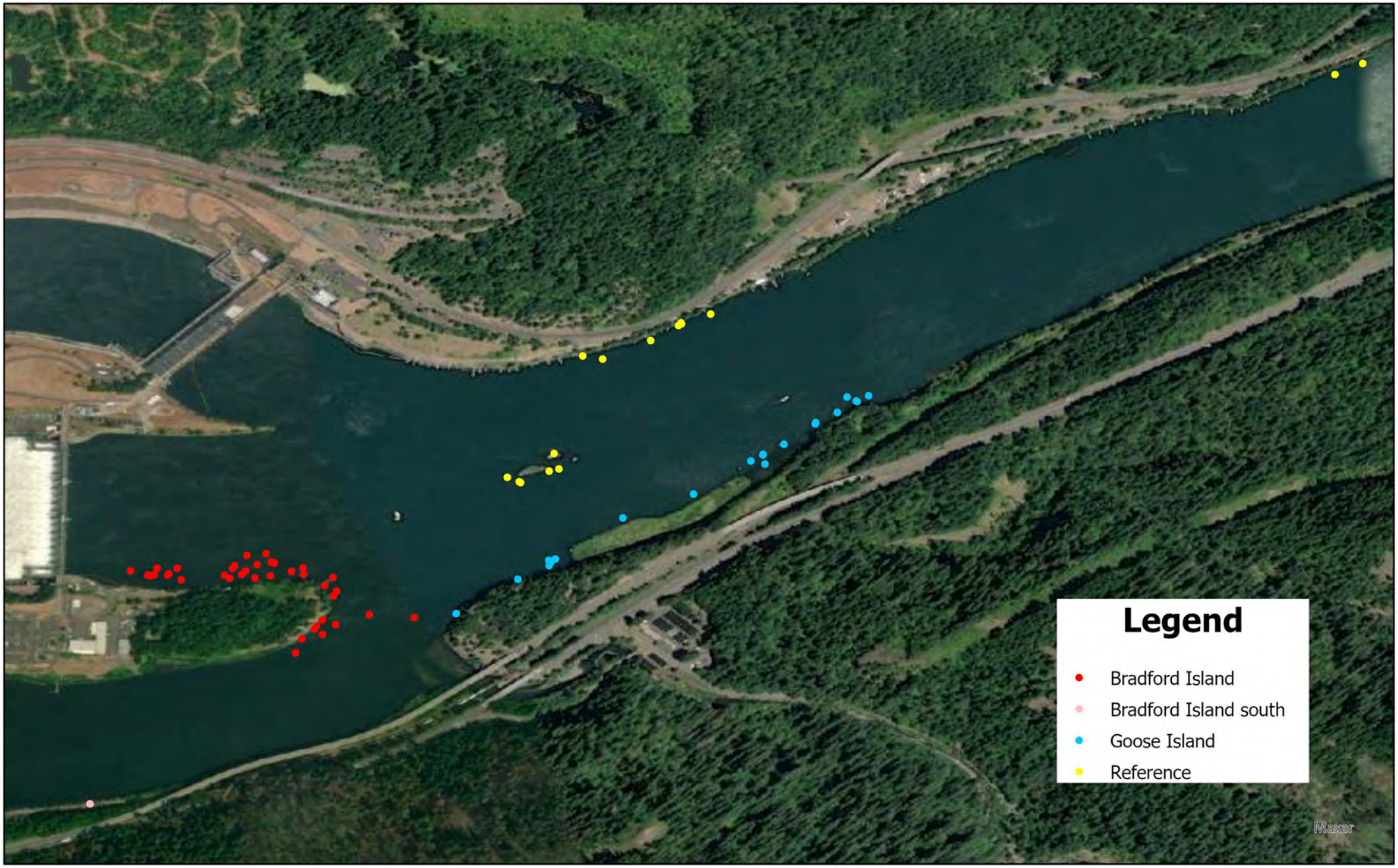
USACE. (2020). *Field Report, Bass, Crayfish and Clam Collection, River Operable Unit, Bradford Island, Cascade Locks, OR.* December 10, 2020.

USACE. (2020). *Final Work Plan with Quality Assurance Project Plan for Clam Sampling.* September 18, 2020.

USACE. (2020). *Final Work Plan with Quality Assurance Project Plan for Smallmouth Bass Acoustic Telemetry and Tissue Sampling and Crayfish Tissue Sampling.* August 14, 2020.

FIGURES

Figure 1. Smallmouth Bass Locations for Tissue Analysis



N

0 0.25 0.5 1 Miles

Figure 2. Smallmouth Bass Locations: Bradford Island North Shore

N

0 125 250 500 Feet

Legend

- Bradford Island

Figure 3. Smallmouth Bass Locations: Bradford Island North Shore & Eastern Tip

N

0 125 250 500 Feet

Legend

Bradford Island

Figure 4. Smallmouth Bass Locations: South of Bradford Island

N

0 125 250 500 Feet

Legend

Bradford Island south

Figure 5. Smallmouth Bass Locations: Goose Island (West)

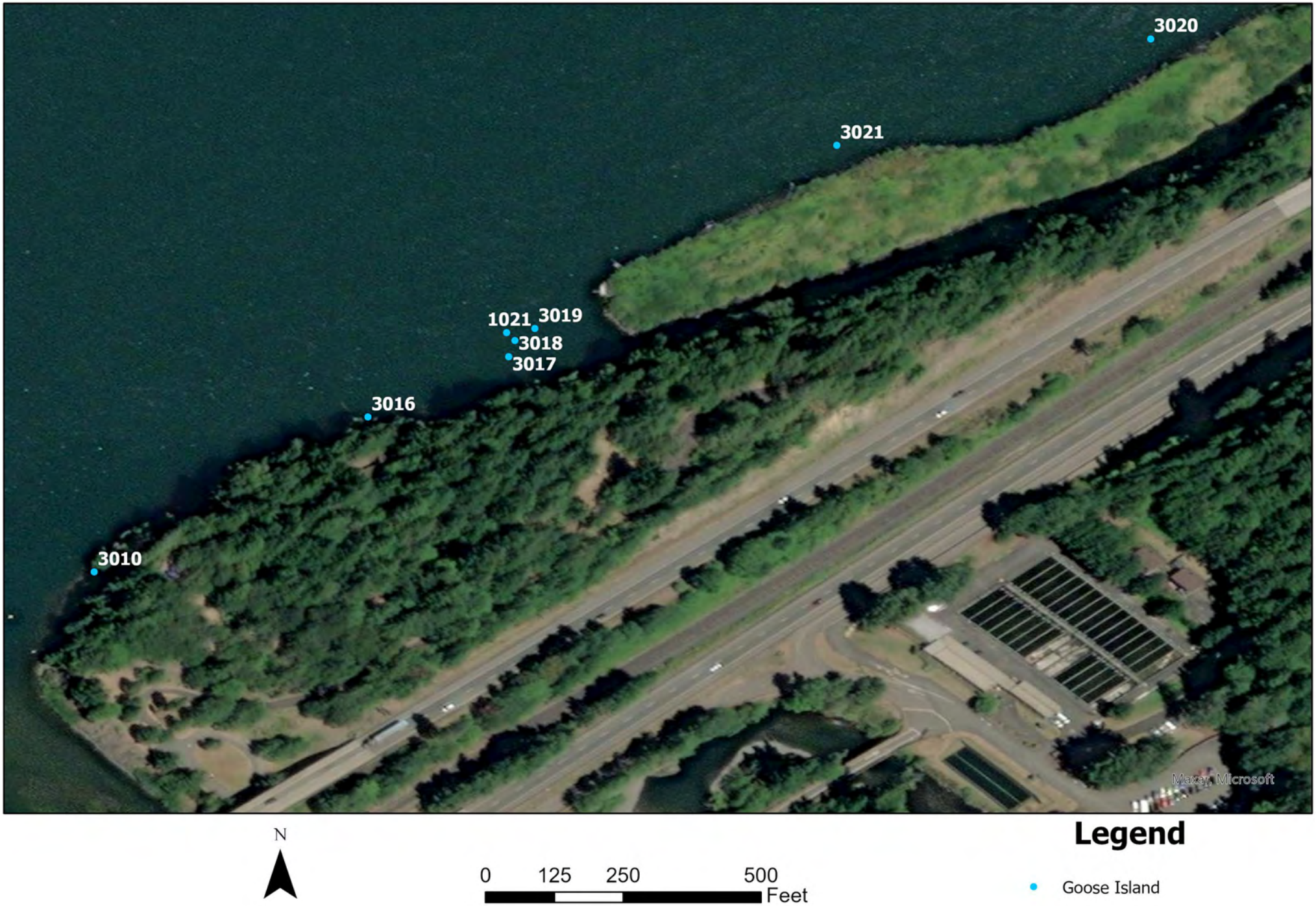


Figure 6. Smallmouth Bass Locations: Goose Island (East)

N

0 125 250 500 Feet

Legend

Goose Island

Figure 7. Smallmouth Bass Locations: Reference (Boat Rock)

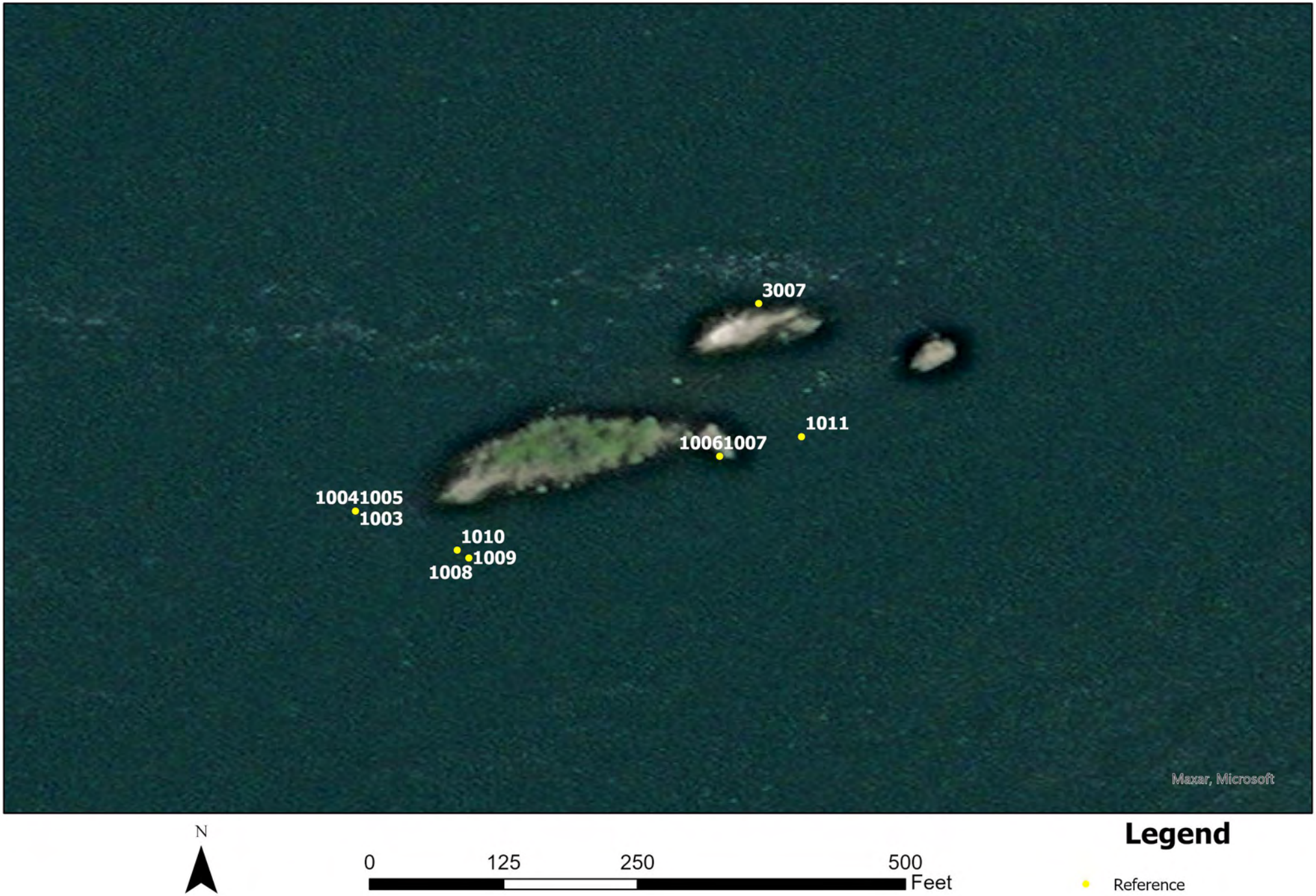


Figure 8. Smallmouth Bass Locations: Reference (WA Coast West)

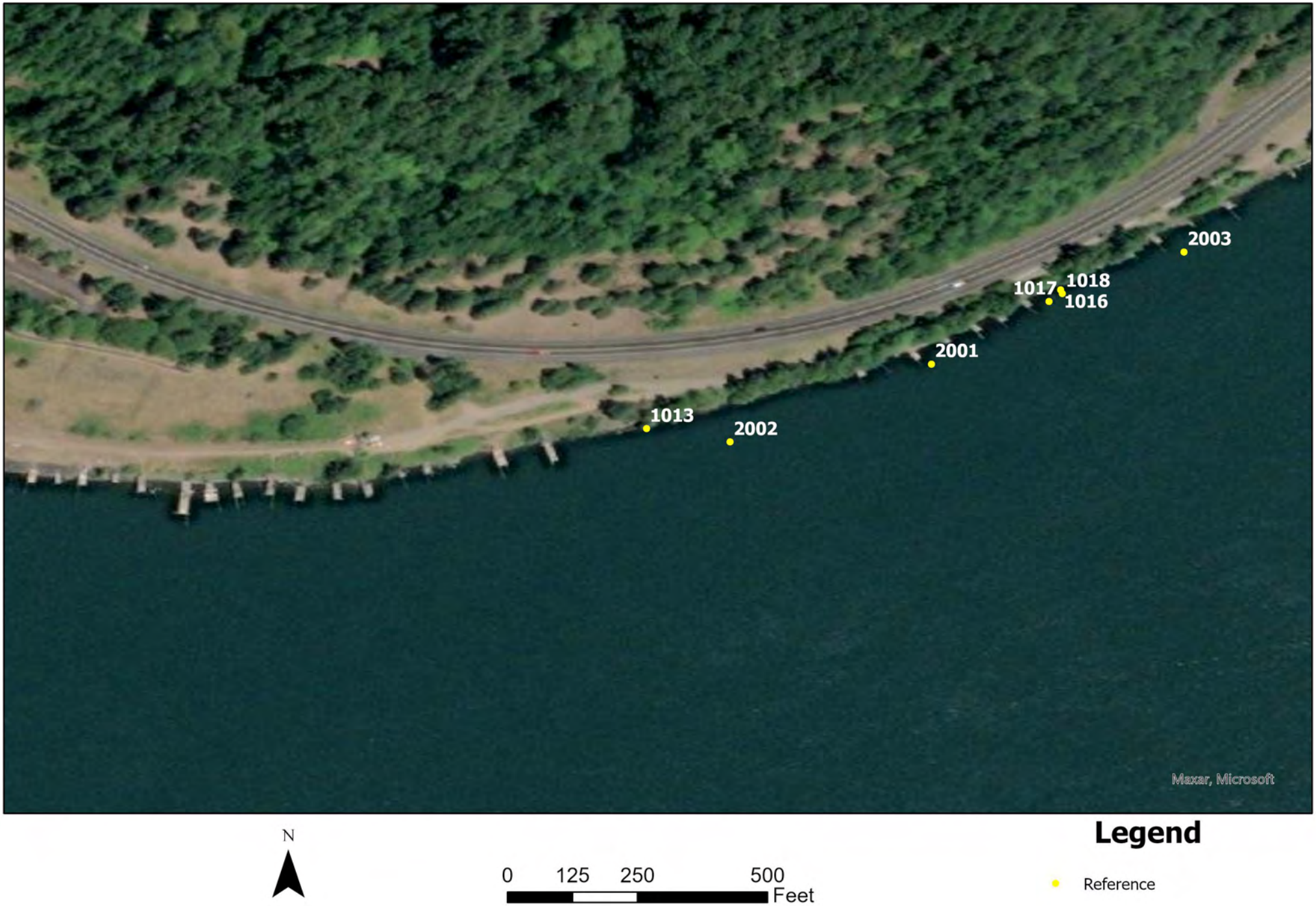


Figure 9. Smallmouth Bass Locations: Reference (WA Coast East)

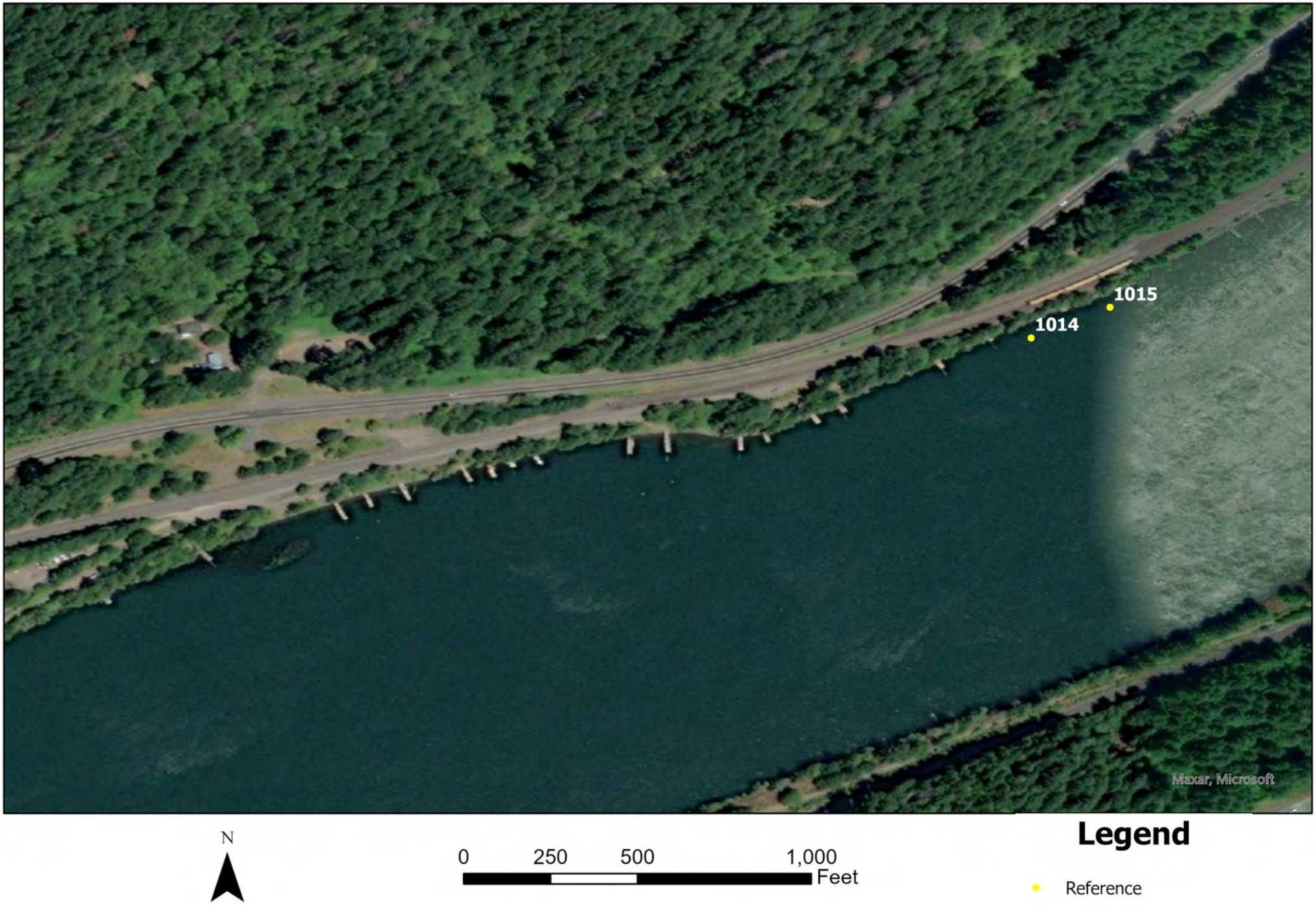


Figure 10. Crayfish Composite Locations: Site

N

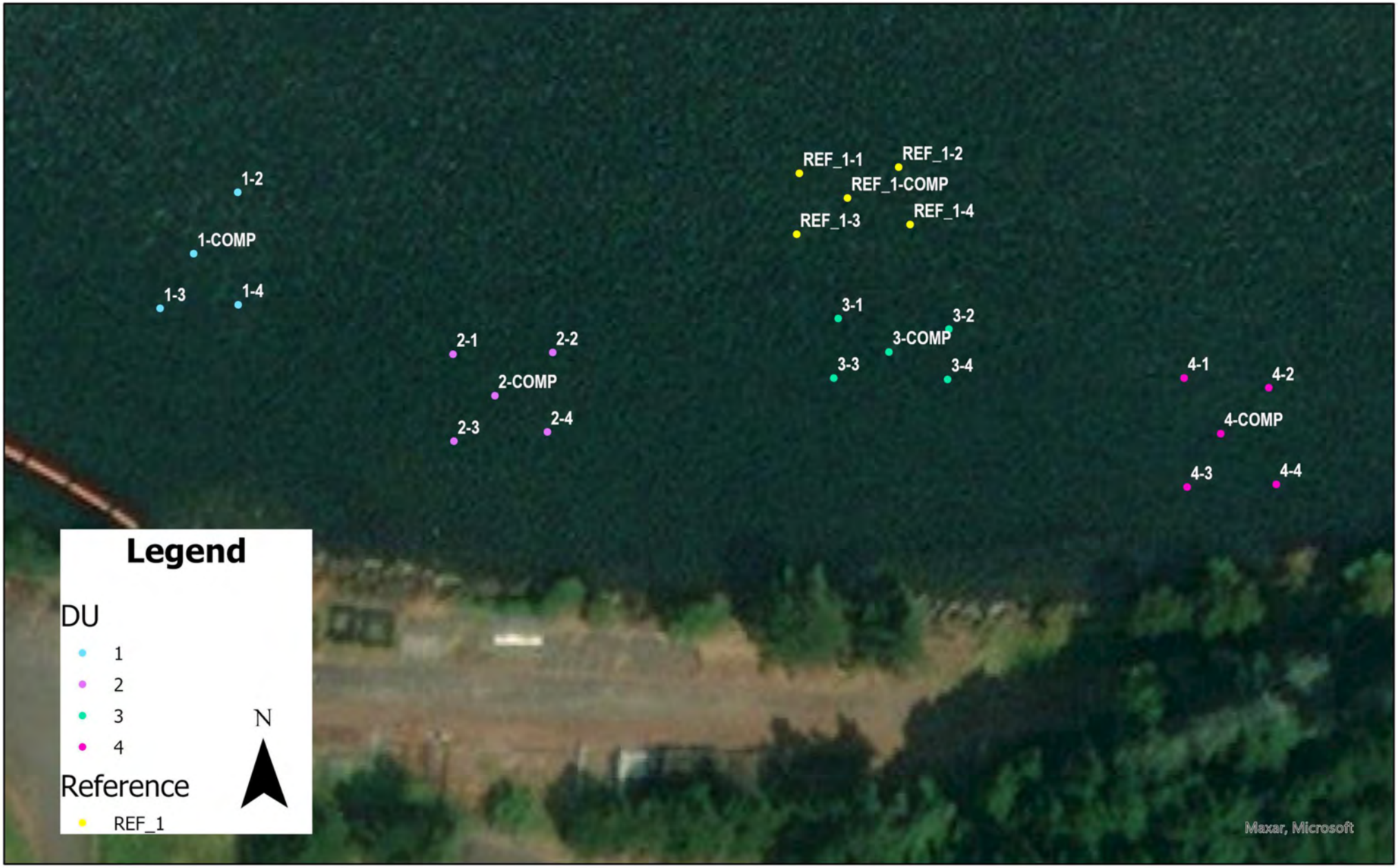
0 500 1,000 2,000 Feet

Legend

Crayfish_Site_2020

Figure 11. Crayfish Composite Locations: Reference

Figure 12. Clam Locations Phase 1: Bradford Island North Shore (West)



0 100 200 400 Feet

Figure 13. Clam Locations Phase 1: Bradford Island North Shore (Center)

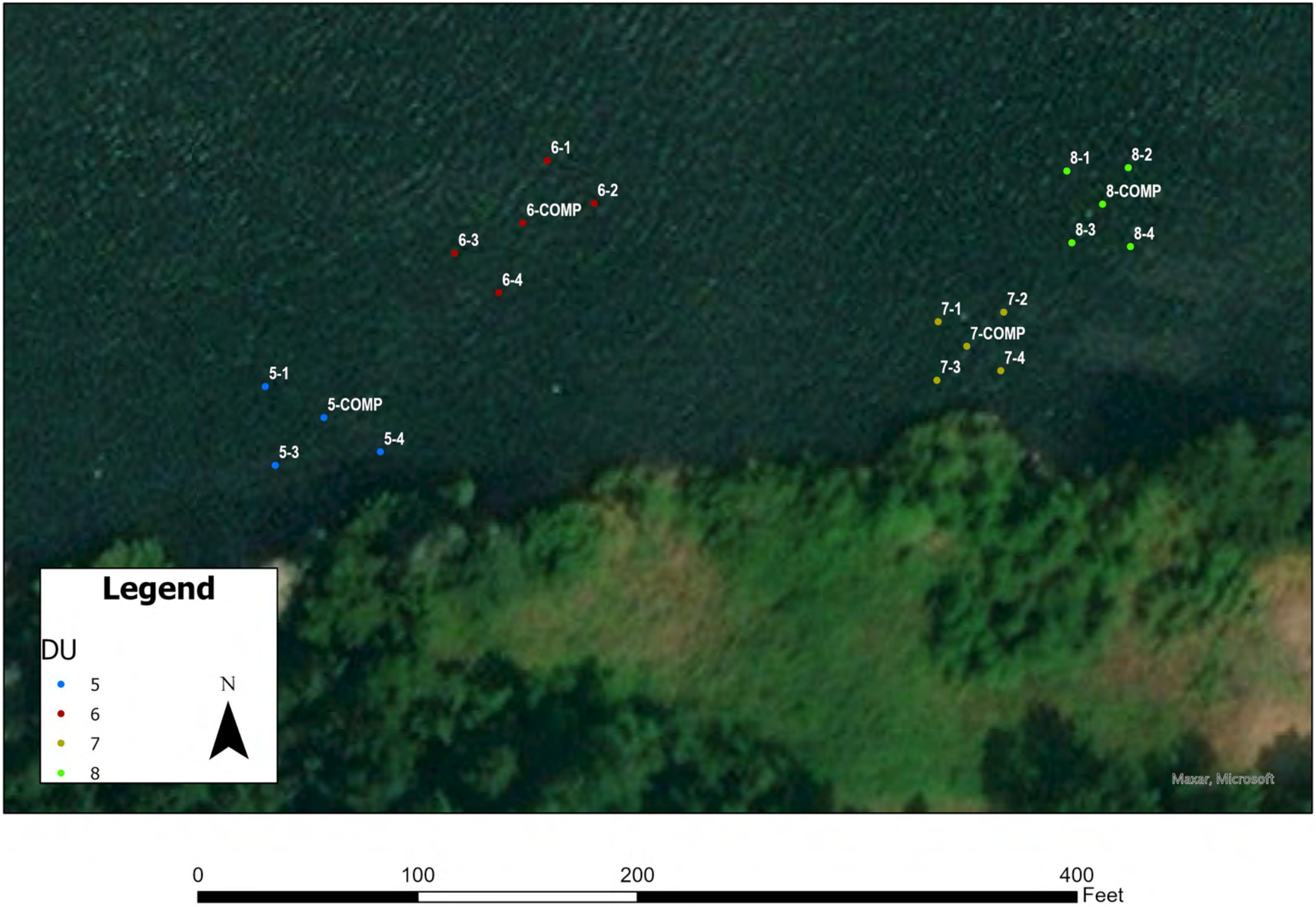


Figure 14. Clam Locations Phase 1: Bradford Island North Shore (East)

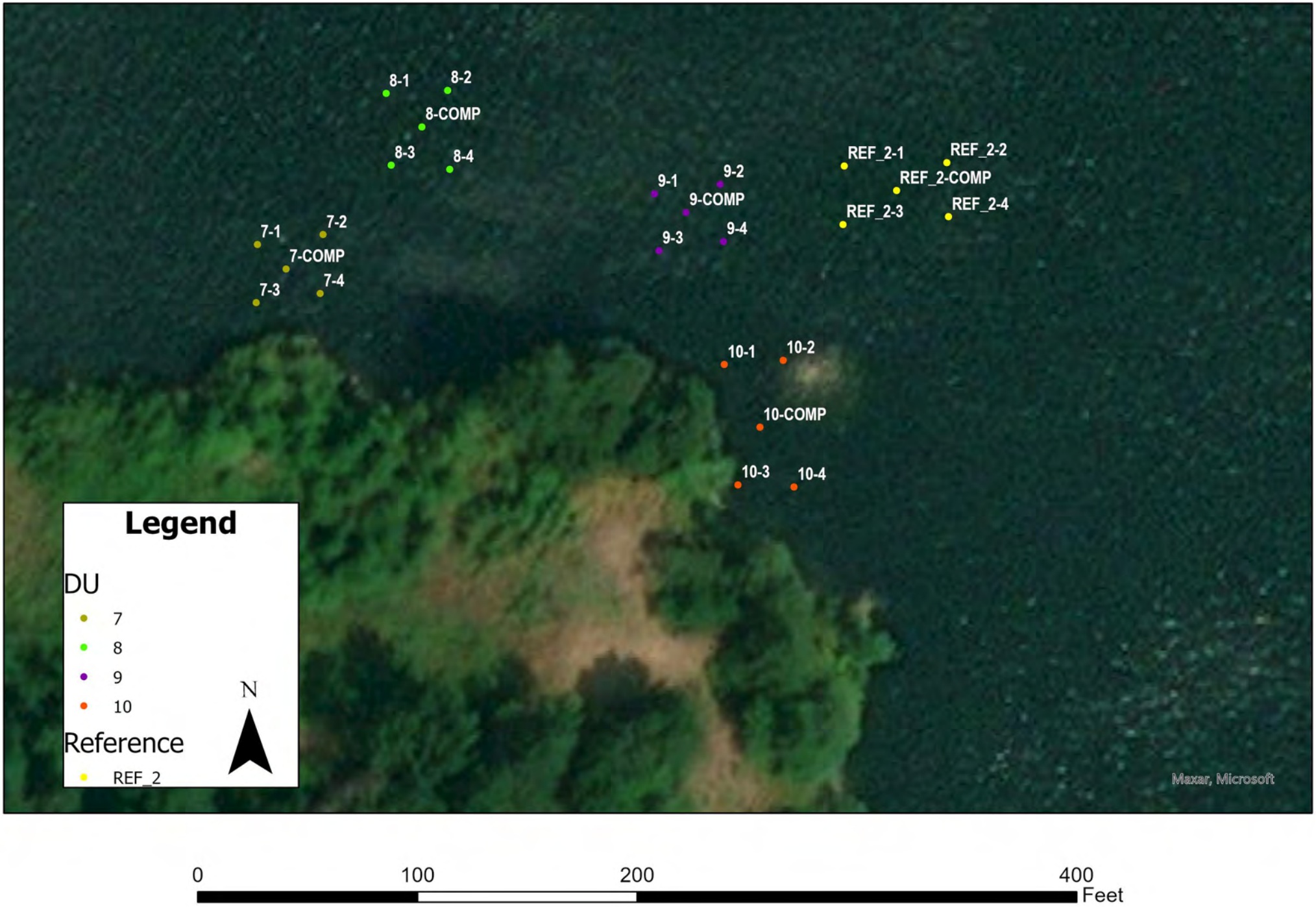


Figure 15. Clam Locations Phase 2: Site Stations

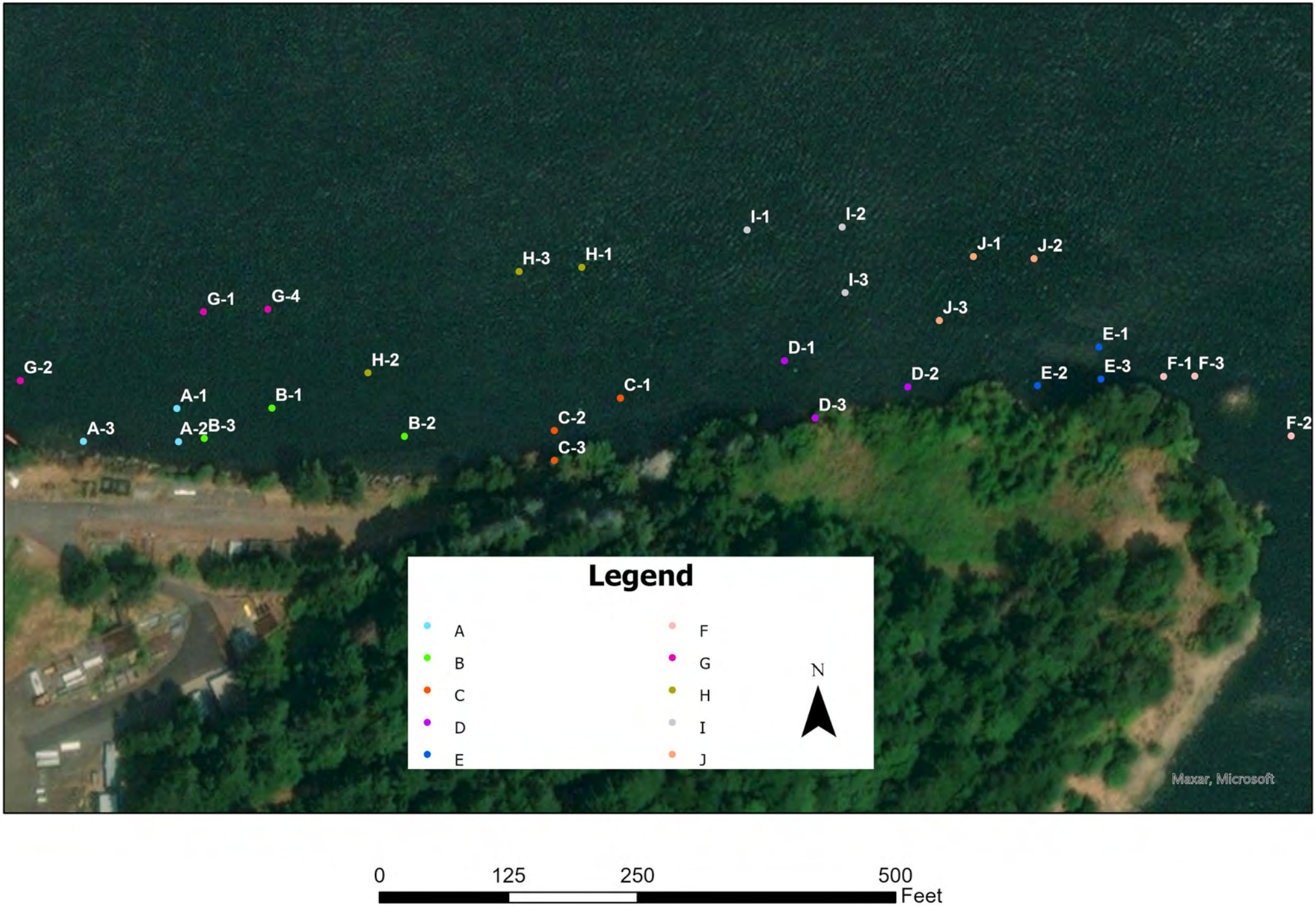
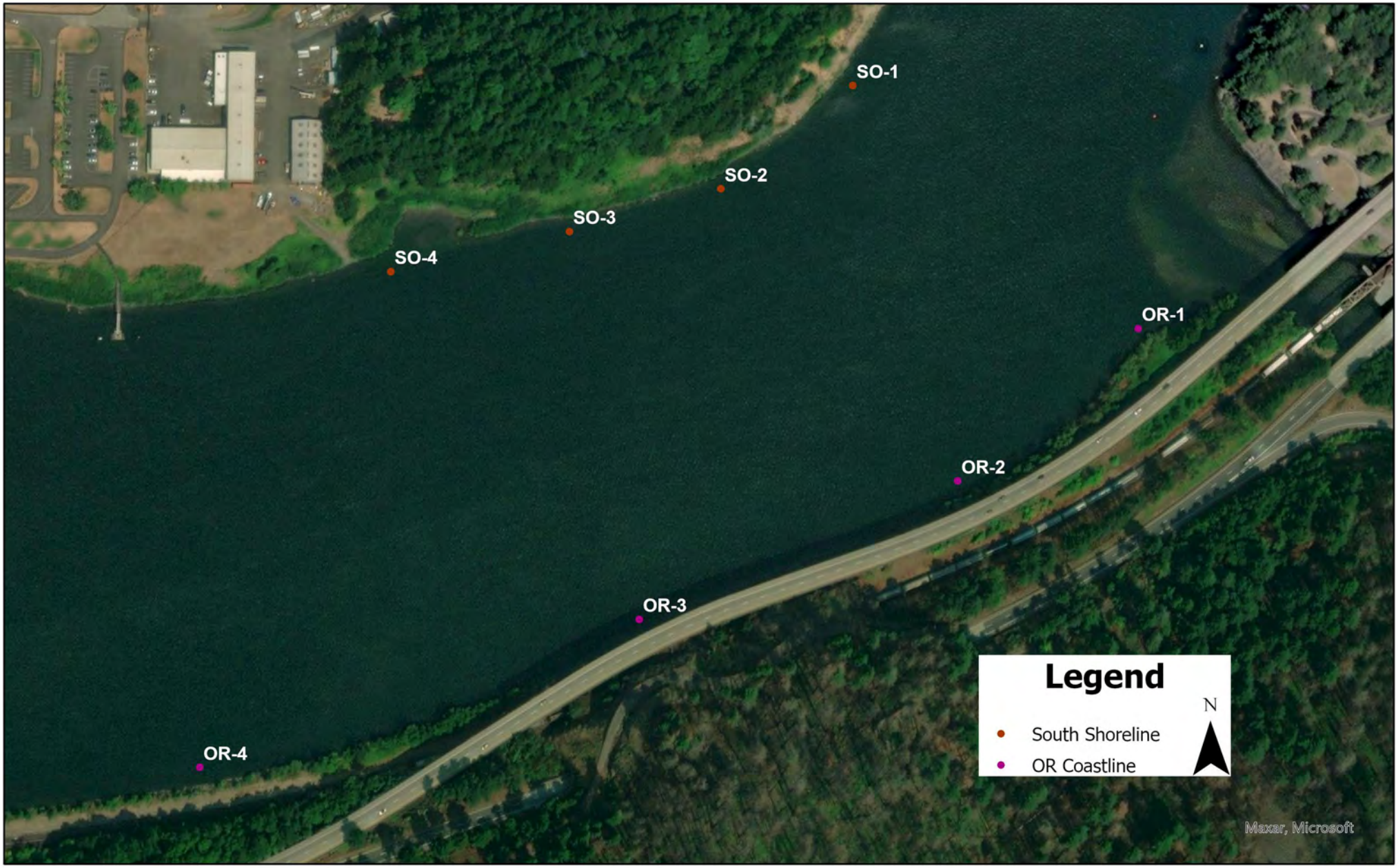


Figure 16. Clam Locations Phase 2: South of Bradford Island and Oregon Coastline



0 375 750 1,500 Feet

Figure 17. Clam Locations Phase 2: Goose Island

0 150 300 600 Feet

Figure 18. Clam Locations Phase 2: Reference by Stevenson, WA

0 250 500 1,000 Feet

Appendix A:

Summary of changes from data published October 2021

Bradford Island 2020 Tissue Data – Change List from ERDC

Changes in Final Level II Data Reports from the Initial Reports

Bass

- PCB Congeners
  - 20H2701: Addition of PCB 85 (2C) for B21F103-DUP1 (this is the dilution of B21F071-DUP1 in which PCB 85 (2C) was E-flagged).
  - 20H2701: For batch B21F071, the original prep sample amount for the BLK, BS/BSD was set to the default 1g instead of 10g which was the amount used for all the samples. This changed the DLs/RLs as well the theoretical and actual spike concentrations calculated. However, lowering the DLs and RLs didn't result in any detects in the blank or any failing BS/BSD recoveries since theoretical spike concentrations and actual spike concentrations were adjusted proportionally.
  - 20H2601: Added the dilution of B21F034-DUP4 for PCBs 110 and 118 in B21F082-DUP1 sourced to 20H2601-31RE3.
  - 20H2601: Added the dilution of B21F034-DUP5 for PCB 118 in B21F082-DUP2 sourced to 20H2601-32RE3.
  - 20H2601: Added the dilution of 20H2601-11RE3 for PCB 183 in 20H2601-11RE4.
  - 20H2601: Added the dilution of 20H2601-11RE3 for PCB 183 in 20H2601-11RE4.
  - 20I0302 and 20I0303: Dilutions of PCB 174 (2C) and 66 (2C) were added to 20I0302-05RE3
  - 20I0302 and 20I0303: Dilution of PCB 110 (2C) was added to 20I0302-06RE2
  - 20I0302 and 20I0303: 21F0020-CCV1, 21F0020-CCV2, and 21F0020-CCV3 were added since more congeners were present in the dilutions than the previous work order 20I2304 which also reported those CCVs.
  - 20I0302 and 20I0303: PCB 174/128/202 had been incorrectly calibrated and integrated for 20I0303-09RE1, 20I0303-10RE1, 21F0015-ICV1 and -ICV3 and in 21F0015-CCV1, -CCV2, and -CCV3. This changed the analyte concentrations, the standard concentration, and the percent recoveries.
  - 20I0302 and 20I0303: PCB 190 (2C) in B21F079-BS1 recovery was changed from NR to 2810%
  - 20I0302 and 20I0303: PCB 25 (2C) in B21F079-BS1 recovery was changed from NR to 740%
  - B21F113-DUP1 (Dilution in Seq: 21F0020 and sourced to 20I2304-09RE4) had an incorrect tissue mass when compared to the laboratory book. It was corrected.
  - 20I0302-02RE3 (Dilution in Seq: 21F0020 Batch B21F113) had the wrong prep date when compared to the laboratory book. It was corrected.
  - B21F071-MS2 (Seq: 21F0013) sourced to 20H2701-05RE1 had an incorrect tissue mass when compared to the laboratory book. It was corrected.
  - All the preparatory QC in batch B21F073 had the incorrect prep date when compared to the laboratory book. It was corrected.
- Organochlorine Pesticides
  - Result changed: SB3025 (20I0302-04RE1) gamma-chlordane
  - Result changed: SB3024 (20I0302-05RE1) gamma-chlordane

    - Changes to correct missing qualifiers or incorrect prep dates.
- Mercury
    - Results changed: SB2014 (20I2304-06RE3)
- Lipids
    - 20H2601: Analytical dates and times were incorrect for some of the samples in 20H2601; Level II was reissued and changes were highlighted.

Clams

- PCB Congeners
    - With 3rd package (starts with 20K3001), the following summary was provided:
        - the changes which were mostly RL, DL, or qualifier changes.
        - The only change to data involved the sample B1-9NOV2020-H-01 (20K3002-03). During the reviewing process, we noticed the extraction volume was incorrect. Once we corrected the issue, the BS failed. So we re-extracted and re-analyzed that sample as 20K3002-03RE1 under batch B22A059 Sequence 22B0004.
        - The pdf still has the original data for B1-9NOV2020-H-01 and the re-analyzed data but we removed the original data from the excel.
- Organochlorine Pesticides
    - Result changed: B1-12NOV2020-G1-1 (20K3001-05RE1) 2,4-DDE
    - Result changed: REF-17NOV2020-WA8-1 (20K3007-04RE1) 2,4-DDE, 2,4'-DDD, and gamma chlordane
    - The L2 was revised due to the wrong masses being used for B21B0009-DUP1, 20K3007-06 - 20K3007-10, B21C034-MSD2 in the previous Level II package due to typos in the batch benchsheet when compared to the laboratory prep book. The errors have been corrected.
    - The wrong concentrations were entered for the analytes in 21G0009-CCV6, -CCB7, -CCV8 and -CCV9. The concentrations have been corrected.
    - The source concentrations for B21C034-DUP4 and -DUP5 were incorrect. The source concentrations have been corrected.
- Mercury
    - Result changed: B1-12NOV2020-G1-2 (20K3001-06RE2)
    - Result changed: REF-16NOV2020-WA2-1 (20K3006-04RE2)
    - Result changed: REF-16NOV2020-WA3-2 (20K3006-07RE2)

Crayfish

- PCB Congeners
    - ERDC corrected missing qualifiers or corrected DLs and RLs. Some nondetect values changed due to corrected DLs.
    - 6/10/22 Revised: B21F074 (samples 20I2305-05RE2, 20I1003-07RE2) had the wrong prep date. It has been fixed.

- Mercury
    - Result changed: CF Comp 1 through CF Comp 16 (20I1003-01RE3 through 20I1003-16RE3)
    - Result changed: CF Comp 21 (20I2304-05RE2)
    - Result changed: CF Comp 31 (20I2304-17)
- Pesticides
    - ERDC reissued L2 due to the wrong naming convention used in the lab notebook that resulted in an incorrect tissue mass for B20L033-MSD2. Also, the B21C031-BLK, BS/BSD had the initial mass of 1g instead of 10g which resulted in the RLs and DLs, spike concentration, etc being 10 times too high in relation to the samples.

Appendix B:

Bass Tissue Analytical Results

Smallmouth Bass - Identifiers

USACE Sample ID	Collection Date	Collection Method	Collection Area	Species	JUV/ADL	Total Length (mm)	Latitude (DD)	longitude (DD)
SB1001	8/24/2020	Angling	South of Bradford	SB	ADL	380	45.6378	-121.94019
SB1001 FD	8/24/2020	Angling	South of Bradford	SB	ADL	380	45.6378	-121.94019
SB1002	8/24/2020	Angling	Bradford Island	SB	ADL	254	45.6424	-121.9348
SB1003	8/24/2020	Angling	Reference	SB	ADL	450	45.64503	-121.93095
SB1004	8/24/2020	Angling	Reference	SB	ADL	295	45.64503	-121.93095
SB1005	8/24/2020	Angling	Reference	SB	ADL	275	45.64503	-121.93095
SB1006	8/24/2020	Angling	Reference	SB	ADL	299	45.64517	-121.93002
SB1007	8/24/2020	Angling	Reference	SB	ADL	282	45.64517	-121.93002
SB2001	8/24/2020	Angling	Reference	SB	JUV	134	45.64806	-121.92778
SB2002	8/24/2020	Angling	Reference	SB	JUV	138	45.64765	-121.92884
SB2003	8/24/2020	Angling	Reference	SB	ADL	232	45.64865	-121.92645
SB3001	8/24/2020	Angling	Bradford Island	SB	ADL	230	45.64155	-121.43504
SB3002	8/24/2020	Angling	Goose Island	SB	ADL	320	45.64624	-121.92412
SB3003	8/24/2020	Angling	Goose Island	SB	ADL	422	45.64576	-121.92483
SB3003 FD	8/24/2020	Angling	Goose Island	SB	ADL	422	45.64576	-121.92483
SB3004	8/24/2020	Angling	Goose Island	SB	ADL	345	45.64532	-121.92525
SB1008	8/25/2020	Angling	Reference	SB	ADL	362	45.64491	-121.93066
SB1008 FD	8/25/2020	Angling	Reference	SB	ADL	362	45.64491	-121.93066
SB1009	8/25/2020	Angling	Reference	SB	ADL	245	45.64491	-121.93066
SB1010	8/25/2020	Angling	Reference	SB	ADL	270	45.64493	-121.93069
SB1011	8/25/2020	Angling	Reference	SB	ADL	229	45.64522	-121.92981
SB1012	8/25/2020	Angling	Reference	SB	ADL	232	4564760	-121.92948
SB1013	8/25/2020	Angling	Reference	SB	ADL	195	45.64772	-121.92928
SB1014	8/25/2020	Angling	Reference	SB	ADL	234	45.65395	-121.91263
SB1015	8/25/2020	Angling	Reference	SB	ADL	235	45.65419	-121.91201
SB1016	8/25/2020	Angling	Reference	SB	ADL	231	45.64845	-121.9271
SB1017	8/25/2020	Angling	Reference	SB	ADL	255	45.64839	-121.92716
SB1018	8/25/2020	Angling	Reference	SB	ADL	263	45.64843	-121.92709
SB1019	8/25/2020	Angling	Goose Island	SB	ADL	302	45.64671	-121.92321
SB2004	8/25/2020	Angling	Bradford Island	SB	ADL	308	45.64251	-121.93473
SB2005	8/25/2020	Angling	Bradford Island	SB	ADL	270	45.64199	-121.93401

Smallmouth Bass - Identifiers

USACE Sample ID	Collection Date	Collection Method	Collection Area	Species	JUV/ADL	Total Length (mm)	Latitude (DD)	longitude (DD)
SB3005	8/25/2020	Angling	Bradford Island	SB	ADL	230	45.64146	-121.9355
SB3006	8/25/2020	Angling	Bradford Island	SB	ADL	403	45.64193	-121.93301
SB3006 FD	8/25/2020	Angling	Bradford Island	SB	ADL	403	45.64193	-121.93301
SB3007	8/25/2020	Angling	Reference	SB	ADL	350	45.64556	-121.92992
SB3007 FD	8/25/2020	Angling	Reference	SB	ADL	350	45.64556	-121.92992
SB3008	8/25/2020	Angling	Bradford Island	SB	ADL	274	45.64174	-121.93517
SB3008 FD	8/25/2020	Angling	Bradford Island	SB	ADL	274	45.64174	-121.93517
SB3009	8/25/2020	Angling	Bradford Island	SB	ADL	219	45.64188	-121.93504
SB3010	8/25/2020	Angling	Goose Island	SB	ADL	216	45.64201	-121.93208
SB3011	8/25/2020	Angling	Goose Island	SB	ADL	261	45.64554	-121.92529
SB3011 FD	8/25/2020	Angling	Goose Island	SB	ADL	261	45.64554	-121.92529
SB3012	8/25/2020	Angling	Goose Island	SB	ADL	274	45.64621	-121.92413
SB3012 FD	8/25/2020	Angling	Goose Island	SB	ADL	274	45.64621	-121.92413
SB2006	8/26/2020	Angling	Bradford Island	SB	ADL	360	45.64264	-121.935
SB2006 FD	8/26/2020	Angling	Bradford Island	SB	ADL	360	45.64264	-121.935
SB2007	8/26/2020	Angling	Bradford Island	SB	ADL	275	45.64281	-121.93481
SB1020	8/26/2020	Angling	Goose Island	SB	ADL	230	45.64539	-121.92556
SB3015	8/26/2020	Angling	Bradford Island	SB	ADL	228	45.64177	-121.93475
SB1022	8/26/2020	Angling	Goose Island	SB	ADL	387	45.64553	-121.9253
SB1022 FD	8/26/2020	Angling	Goose Island	SB	ADL	387	45.64553	-121.9253
SB1021	8/26/2020	Angling	Goose Island	SB	ADL	343	45.6432	-121.93003
SB3014	8/26/2020	Angling	Bradford Island	SB	ADL	381	45.64114	-121.93564
SB3013	8/26/2020	Angling	Bradford Island	SB	ADL	225	45.64167	-121.93523
SB3013 FD	8/26/2020	Angling	Bradford Island	SB	ADL	225	45.64167	-121.93523
SB3023	9/2/2020	Angling	Bradford Island	SB	ADL	270	45.64286	-121.93891
SB3023 FD	9/2/2020	Angling	Bradford Island	SB	ADL	270	45.64286	-121.93891
SB2008	9/2/2020	Angling	Bradford Island	SB	ADL	360	45.64285	-121.9362
SB2009	9/2/2020	Angling	Bradford Island	SB	ADL	475	45.64296	-121.93929
SB3025	9/2/2020	Angling	Bradford Island	SB	ADL	385	45.64288	-121.93683
SB3024	9/2/2020	Angling	Bradford Island	SB	ADL	395	45.64289	-121.93844
SB3022	9/2/2020	Angling	Bradford Island	SB	ADL	422	45.64287	-121.93877

Smallmouth Bass - Identifiers

USACE Sample ID	Collection Date	Collection Method	Collection Area	Species	JUV/ADL	Total Length (mm)	Latitude (DD)	longitude (DD)
SB1023	8/27/2020	Angling	Goose Island	SB	ADL	235	45.64684	-121.92295
SB1023 FD	8/27/2020	Angling	Goose Island	SB	ADL	235	45.64684	-121.92295
SB1024	8/27/2020	Angling	Goose Island	SB	ADL	261	45.64681	-121.92343
SB1025	8/27/2020	Angling	Goose Island	SB	ADL	228	45.64647	-121.92365
SB1026	8/27/2020	Angling	Goose Island	SB	ADL	260	45.64672	-121.92323
SB3016	8/27/2020	Angling	Goose Island	SB	ADL	247	45.64278	-121.93072
SB3017	8/27/2020	Angling	Goose Island	SB	ADL	348	45.64308	-121.93002
SB3018	8/27/2020	Angling	Goose Island	SB	ADL	239	45.64316	-121.929989
SB3019	8/27/2020	Angling	Goose Island	SB	ADL	215	45.64322	-121.92989
SB3020	8/27/2020	Angling	Goose Island	SB	ADL	379	45.64466	-121.92683
SB3021	8/27/2020	Angling	Goose Island	SB	ADL	275	45.64413	-121.92839
SB3021 FD	8/27/2020	Angling	Goose Island	SB	ADL	275	45.64413	-121.92839
SB3026	9/3/2020	Angling	Bradford Island	SB	ADL	272	45.64286	-121.93721
SB3026 FD	9/3/2020	Angling	Bradford Island	SB	ADL	272	45.64286	-121.93721
SB3027	9/3/2020	Angling	Bradford Island	SB	ADL	331	45.64285	-121.93884
SB3028	9/3/2020	Angling	Bradford Island	SB	ADL	232	45.64301	-121.93704
SB3029	9/9/2020	Angling	Bradford Island	SB	ADL	351	45.64279	-121.9371
SB1027	9/10/2020	Angling	Bradford Island	SB	ADL	350	45.64296	-121.93674
SB1027 FD	9/10/2020	Angling	Bradford Island	SB	ADL	350	45.64296	-121.93674
SB2010	9/11/2020	Angling	Bradford Island	SB	ADL	268	45.64303	-121.93547
SB2011	9/11/2020	Angling	Bradford Island	SB	ADL	234	45.6428	-121.93654
SB2012	9/11/2020	Angling	Bradford Island	SB	ADL	303	45.64305	-12193687
SB2013	9/11/2020	Angling	Bradford Island	SB	ADL	368	45.64308	-121.93699
SB2014	9/11/2020	Angling	Bradford Island	SB	ADL	382	45.64302	-121.93871
SB3030	9/10/2020	Angling	Bradford Island	SB	ADL	313	45.64277	-121.93817
SB3031	9/10/2020	Angling	Bradford Island	SB	ADL	300	45.64314	-121.93611
SB3032	9/10/2020	Angling	Bradford Island	SB	ADL	412	45.64288	-121.93546
SB3032 FD	9/10/2020	Angling	Bradford Island	SB	ADL	412	45.64288	-121.93546
SB3033	9/11/2020	Angling	Bradford Island	SB	ADL	243	45.64286	-121.93847
SB3034	9/11/2020	Angling	Bradford Island	SB	ADL	275	45.64316	-121.93618
SB3035	9/11/2020	Angling	Bradford Island	SB	ADL	337	45.64334	-121.93629

Smallmouth Bass - Identifiers

USACE Sample ID	Collection Date	Collection Method	Collection Area	Species	JUV/ADL	Total Length (mm)	Latitude (DD)	longitude (DD)
SB3036	9/11/2020	Angling	Bradford Island	SB	ADL	270	45.64295	-121.93573
SB3037	9/11/2020	Angling	Bradford Island	SB	ADL	350	45.6431	-121.93649
SB3038	9/11/2020	Angling	Bradford Island	SB	ADL	380	45.64302	-121.93826
SB3039	9/11/2020	Angling	Bradford Island	SB	ADL	374	45.6433	-121.93671

Notes:
SB = smallmouth bass
JUV = juvinele
ADL = adult
mm = millimeters
DD = decimal degrees

Smallmouth Bass - Lipids and Mercury

USACE Sample ID	Lab Sample ID	SDG #	Collection Area	% Lipids		Mercury (mg/kg)	
SB1001	20H2601-01	20H2601	South of Bradford	4.66		0.222	
SB1001 FD	B21I162-DUP1	20H2601	South of Bradford	4.12		NA	
SB1002	20H2601-02	20H2601	Bradford Island	3.69		0.0787	
SB1003	20H2601-03	20H2601	Reference	4.52		0.521	
SB1004	20H2601-04	20H2601	Reference	3.63		0.119	
SB1005	20H2601-05	20H2601	Reference	3.42		0.118	
SB1006	20H2601-06	20H2601	Reference	3.00		0.133	
SB1007	20H2601-07	20H2601	Reference	3.38		0.122	
SB2001	20H2601-08	20H2601	Reference	2.19	J	0.0479	
SB2002	20H2601-09	20H2601	Reference	1.56		0.0332	
SB2003	20H2601-10	20H2601	Reference	3.45		0.109	
SB3001	20H2601-11	20H2601	Bradford Island	3.28		0.104	
SB3002	20H2601-12	20H2601	Goose Island	3.91		0.124	
SB3003	20H2601-13	20H2601	Goose Island	4.66		0.359	
SB3003 FD	B20L027-DUP1	20H2601	Goose Island	NA		0.315	
SB3004	20H2601-14	20H2601	Goose Island	4.26		0.193	
SB1008	20H2601-15	20H2601	Reference	3.91		0.196	
SB1008 FD	B21I162-DUP2/ B20L027-DUP2	20H2601	Reference	4.04		0.185	
SB1009	20H2601-16	20H2601	Reference	3.19		0.112	
SB1010	20H2601-17	20H2601	Reference	3.28		0.107	
SB1011	20H2601-18	20H2601	Reference	3.56		0.112	
SB1012	20H2601-19	20H2601	Reference	2.76		0.137	
SB1013	20H2601-20	20H2601	Reference	1.94		0.0981	
SB1014	20H2601-21	20H2601	Reference	1.65		0.103	
SB1015	20H2601-22	20H2601	Reference	2.17		0.0975	
SB1016	20H2601-23	20H2601	Reference	2.28		0.0910	
SB1017	20H2601-24	20H2601	Reference	1.71		0.110	
SB1018	20H2601-25	20H2601	Reference	1.91		0.148	
SB1019	20H2601-26	20H2601	Goose Island	3.11		0.136	
SB2004	20H2601-27	20H2601	Bradford Island	2.43		0.121	
SB2005	20H2601-28	20H2601	Bradford Island	1.91		0.122	
SB3005	20H2601-29	20H2601	Bradford Island	1.96		0.0680	
SB3006	20H2601-30	20H2601	Bradford Island	2.39		0.206	
SB3006 FD	B20L027-DUP3	20H2601	Bradford Island	NA		0.185	
SB3007	20H2601-31	20H2601	Reference	2.07		0.200	
SB3007 FD	B20L027-DUP4	20H2601	Reference	NA		0.176	
SB3008	20H2601-32	20H2601	Bradford Island	1.95		0.131	
SB3008 FD	B20L027-DUP5	20H2601	Bradford Island	NA		0.129	
SB3009	20H2601-33	20H2601	Bradford Island	1.89		0.0774	
SB3010	20H2601-34	20H2601	Goose Island	1.93		0.129	
SB3011	20H2601-35	20H2601	Goose Island	1.86		0.0945	
SB3011 FD	B21I163-DUP3	20H2601	Goose Island	2.63		NA	
SB3012	20H2601-36	20H2601	Goose Island	1.93		0.104	
SB3012 FD	B20L027-DUP6	20H2601	Goose Island	NA		0.0935	

Smallmouth Bass - Lipids and Mercury

USACE Sample ID	Lab Sample ID	SDG #	Collection Area	% Lipids		Mercury (mg/kg)	
SB2006	20H2701-01	20H2701	Bradford Island	3.85		0.185	J+
SB2006 FD	B21I141-DUP1/ B20L027-DUP7	20H2701	Bradford Island	1.78		0.171	
SB2007	20H2701-02	20H2701	Bradford Island	2.93		0.174	
SB1020	20H2701-03	20H2701	Goose Island	2.45		0.0908	
SB3015	20H2701-04	20H2701	Bradford Island	2.36		0.0564	
SB1022	20H2701-05	20H2701	Goose Island	4.44		0.218	J-
SB1022 FD	B20L027-DUP8	20H2701	Goose Island	NA		0.21	
SB1021	20H2701-06	20H2701	Goose Island	2.34		0.124	
SB3014	20H2701-07	20H2701	Bradford Island	2.20		0.172	
SB3013	20H2701-08	20H2701	Bradford Island	2.40		0.0995	
SB3013 FD	B21I141-DUP1	20H2701	Bradford Island	2.06		NA	
SB3023	20I0302-01	20I0302	Bradford Island	3.04		0.138	J+
SB3023 FD	B21I141-DUP3/ B20L023-DUP1	20I0302	Bradford Island	3.26		0.143	
SB2008	20I0302-02	20I0302	Bradford Island	2.45		0.294	
SB2009	20I0302-03	20I0302	Bradford Island	4.18		0.345	
SB3025	20I0302-04	20I0302	Bradford Island	4.59		0.313	
SB3024	20I0302-05	20I0302	Bradford Island	2.45		0.0302	
SB3022	20I0302-06	20I0302	Bradford Island	1.77		0.0940	
SB1023	20I0303-01	20I0303	Goose Island	2.50		0.0653	
SB1023 FD	B21I141-DUP4	20I0303	Goose Island	2.31		NA	
SB1024	20I0303-02	20I0303	Goose Island	1.95		0.125	
SB1025	20I0303-03	20I0303	Goose Island	1.22		0.142	
SB1026	20I0303-04	20I0303	Goose Island	2.09		0.109	
SB3016	20I0303-05	20I0303	Goose Island	1.86		0.148	
SB3017	20I0303-06	20I0303	Goose Island	2.45		0.182	
SB3018	20I0303-07	20I0303	Goose Island	2.21		0.0777	
SB3019	20I0303-08	20I0303	Goose Island	1.78		0.122	
SB3020	20I0303-09	20I0303	Goose Island	2.32		0.251	
SB3021	20I0303-10	20I0303	Goose Island	2.93		0.124	
SB3021 FD	B21I141-DUP5	20I0303	Goose Island	2.79		NA	
SB3026	20I1004-01	20I1004	Bradford Island	3.75	J-	0.127	J-
SB3026 FD	B20L027-DUP9	20I1004	Bradford Island	NA		0.139	J-
SB3027	20I1004-02	20I1004	Bradford Island	6.14	J-	0.172	J-
SB3028	20I1004-03	20I1004	Bradford Island	3.77	J-	0.109	J-
SB3029	20I1004-04	20I1004	Bradford Island	3.64	J-	0.202	J-
SB1027	20I2304-01	20I2304	Bradford Island	4.68		0.222	J-
SB1027 FD	B20L023-DUP2	20I2304	Bradford Island	NA		0.229	
SB2010	20I2304-02	20I2304	Bradford Island	4.11		0.127	
SB2011	20I2304-03	20I2304	Bradford Island	4.96		0.149	
SB2012	20I2304-04	20I2304	Bradford Island	8.33		0.134	
SB2013	20I2304-05	20I2304	Bradford Island	5.30		0.246	
SB2014	20I2304-06	20I2304	Bradford Island	1.44		0.350	
SB3030	20I2304-07	20I2304	Bradford Island	4.10		0.146	

Smallmouth Bass - Lipids and Mercury

USACE Sample ID	Lab Sample ID	SDG #	Collection Area	% Lipids		Mercury (mg/kg)	
SB3031	20I2304-08	20I2304	Bradford Island	4.97		0.160	
SB3032	20I2304-09	20I2304	Bradford Island	3.29		0.249	
SB3033	20I2304-10	20I2304	Bradford Island	3.59		0.147	
SB3034	20I2304-11	20I2304	Bradford Island	3.57		0.140	
SB3035	20I2304-12	20I2304	Bradford Island	6.47		0.133	
SB3036	20I2304-13	20I2304	Bradford Island	4.10		0.174	
SB3037	20I2304-14	20I2304	Bradford Island	3.93		0.186	
SB3038	20I2304-15	20I2304	Bradford Island	8.16		0.131	
SB3039	20I2304-16	20I2304	Bradford Island	2.58		0.114	

Notes:
NA = not analyzed
SDG = sample delivery group
mg/kg = milligrams per kilogram
J+ = estimated value that may be biased high
J- = estimated value that may be biased low

Smallmouth Bass - Organochlorine Pesticides

USACE Sample ID	Lab Sample ID	SDG #	Collection Area	2,4'-DDD (ug/kg)		2,4'-DDE (ug/kg)		2,4'-DDT (ug/kg)		4,4'-DDD (ug/kg)		4,4'-DDE (ug/kg)		4,4'-DDT (ug/kg)		alpha-BHC (ug/kg)		alpha Chlordane (ug/kg)		beta-BHC (ug/kg)	
SB1001	20H2601-01	20H2601	South of Bradford	1.29		0.038	U	0.038	U	6.69		70.6		2.25	J	0.038	U	0.038	U	0.038	U
SB1001 FD	B21I162-DUP1	20H2601	South of Bradford	NA		NA		NA		NA		NA		NA		NA		NA		NA	
SB1002	20H2601-02	20H2601	Bradford Island	0.398		0.037	U	0.037	U	2.79		23.1		1.59	J	0.037	U	0.037	U	0.037	U
SB1003	20H2601-03	20H2601	Reference	0.716		0.037	U	0.037	U	4.15		63.0		1.91	J	0.037	U	0.037	U	0.037	U
SB1004	20H2601-04	20H2601	Reference	0.037	U	0.037	U	0.037	U	2.38		20.7		0.037	U	0.037	U	0.037	U	0.037	U
SB1005	20H2601-05	20H2601	Reference	0.510		0.037	U	0.037	U	2.62		21.6		1.36		0.037	U	0.037	U	0.037	U
SB1006	20H2601-06	20H2601	Reference	0.638	J+	0.038	U	0.038	U	2.88	J+	20.8	J+	1.43	J+	0.038	U	0.038	U	0.038	U
SB1007	20H2601-07	20H2601	Reference	0.684		0.037	U	0.037	U	2.54		27.4		1.18		0.037	U	0.037	U	0.037	U
SB2001	20H2601-08	20H2601	Reference	0.231		0.059	U	0.059	U	0.915		19.3		0.571	J	0.059	U	0.059	U	0.059	U
SB2002	20H2601-09	20H2601	Reference	0.106		0.038	U	0.038	U	0.552		8.46		0.290	J	0.038	U	0.038	U	0.038	U
SB2003	20H2601-10	20H2601	Reference	0.399		0.037	U	0.037	U	2.01		18.6		0.912		0.037	U	0.037	U	0.037	U
SB3001	20H2601-11	20H2601	Bradford Island	0.037	U	0.037	U	0.037	U	4.68		134		0.037	U	0.037	U	0.037	U	0.037	U
SB3002	20H2601-12	20H2601	Goose Island	0.762		0.037	U	0.037	U	4.71		42.7		2.57	J	0.037	U	0.037	U	0.037	U
SB3003	20H2601-13	20H2601	Goose Island	0.814		0.038	U	0.038	U	4.02		32.8		1.95	J	0.038	U	0.038	U	0.038	U
SB3003 FD	B20J090-DUP6	20H2601	Goose Island	0.709		0.037	U	0.037	U	0.161	U	34.0		1.46		0.037	U	0.037	U	0.037	U
SB3004	20H2601-14	20H2601	Goose Island	0.840		0.038	U	0.038	U	6.12		34.5		2.13		0.038	U	0.038	U	0.038	U
SB1008	20H2601-15	20H2601	Reference	0.699	J+	0.037	U	0.037	U	4.27		37.5		1.86		0.037	U	0.037	U	0.037	U
SB1008 FD	B20J090-DUP7	20H2601	Reference	0.545		0.037	U	0.037	U	4.34		41.1		1.91		0.037	U	0.037	U	0.037	U
SB1009	20H2601-16	20H2601	Reference	0.848		0.038	U	0.038	U	2.92		25.1		2.05	J	0.038	U	0.038	U	0.038	U
SB1010	20H2601-17	20H2601	Reference	0.781		0.037	U	0.037	U	2.80		29.6		1.59		0.037	U	0.037	U	0.037	U
SB1011	20H2601-18	20H2601	Reference	0.407		0.037	U	0.037	U	1.72		19.6		0.684	J	0.037	U	0.037	U	0.037	U
SB1012	20H2601-19	20H2601	Reference	0.644		0.038	U	0.038	U	2.02		20.9		0.703		0.038	U	0.038	U	0.038	U
SB1013	20H2601-20	20H2601	Reference	0.038	U	0.038	U	0.038	U	1.34		21.3		0.038	U	0.038	U	0.038	U	0.038	U
SB1014	20H2601-21	20H2601	Reference	0.517		0.038	U	0.038	U	2.43		18.6		0.477	J	0.038	U	0.038	U	0.038	U
SB1015	20H2601-22	20H2601	Reference	0.498		0.037	U	0.037	U	1.86		19.5		0.824		0.037	U	0.037	U	0.037	U
SB1016	20H2601-23	20H2601	Reference	0.626		0.037	U	0.037	U	2.27		17.2		0.567		0.037	U	0.037	U	0.037	U
SB1017	20H2601-24	20H2601	Reference	0.765		0.038	U	0.038	U	3.48		29.4		1.10	J	0.038	U	0.038	U	0.038	U
SB1018	20H2601-25	20H2601	Reference	0.599		0.037	U	0.037	U	2.61		23.1		0.889		0.037	U	0.037	U	0.037	U
SB1019	20H2601-26	20H2601	Goose Island	0.038	U	0.038	U	0.038	U	6.71		55.3		2.67	J	0.038	U	0.038	U	0.038	U
SB2004	20H2601-27	20H2601	Bradford Island	0.037	U	0.037	U	0.037	U	3.41		22.0		0.037	U	0.037	U	0.037	U	0.037	U
SB2005	20H2601-28	20H2601	Bradford Island	0.466		0.037	U	0.037	U	2.07		15.8		0.861	J	0.037	U	0.037	U	0.037	U
SB3005	20H2601-29	20H2601	Bradford Island	0.037	U	0.037	U	0.037	U	3.33		24.4		1.32	J	0.037	U	0.037	U	0.037	U
SB3006	20H2601-30	20H2601	Bradford Island	0.727	J+	0.037	U	0.037	U	5.16	J+	34.9		0.037	U	0.037	U	0.037	U	0.037	U
SB3006 FD	B20J090-DUP8	20H2601	Bradford Island	0.933		0.038	U	0.038	U	6.26		44.1		1.00		0.038	U	0.038	U	0.038	U
SB3007	20H2601-31	20H2601	Reference	0.037	U	0.037	U	0.037	U	4.49		44.7		0.037	U	0.037	U	0.037	U	0.037	U
SB3007 FD	B20J090-DUP9	20H2601	Reference	0.037	U	0.037	U	0.037	U	3.37		35.6		0.037	U	0.037	U	0.037	U	0.037	U
SB3008	20H2601-32	20H2601	Bradford Island	0.629		0.037	U	0.037	U	3.49	J-	27.0		1.23	J	0.037	U	0.037	U	0.037	U
SB3008 FD	B20J090-DUPA	20H2601	Bradford Island	0.037	U	0.037	U	0.037	U	2.81		29.0		1.16		0.037	U	0.037	U	0.037	U
SB3009	20H2601-33	20H2601	Bradford Island	0.038	U	0.038	U	0.038	U	2.92		28.4		1.30	J	0.038	U	0.038	U	0.038	U
SB3010	20H2601-34	20H2601	Goose Island	0.486		0.038	U	0.038	U	1.96		16.5		0.795		0.038	U	0.038	U	0.038	U
SB3011	20H2601-35	20H2601	Goose Island	1.01		0.037	U	0.037	U	4.04		21.6		1.53		0.037	U	0.037	U	0.037	U
SB3011 FD	B21I163-DUP3	20H2601	Goose Island	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Smallmouth Bass - Organochlorine Pesticides

USACE Sample ID	Lab Sample ID	SDG #	Collection Area	2,4'-DDD (ug/kg)		2,4'-DDE (ug/kg)		2,4'-DDT (ug/kg)		4,4'-DDD (ug/kg)		4,4'-DDE (ug/kg)		4,4'-DDT (ug/kg)		alpha-BHC (ug/kg)		alpha Chlordane (ug/kg)		beta-BHC (ug/kg)	
SB3012	20H2601-36	20H2601	Goose Island	0.037	U	0.037	U	0.037	U	2.14		15.8	J+	0.710	J+	0.037	U	0.037	U	0.037	U
SB3012 FD	B20L020-DUP1	20H2601	Goose Island	0.037	U	0.037	U	0.037	U	1.83		20.6		0.161	U	0.161	U	0.037	U	0.037	U
SB2006	20H2701-01	20H2701	Bradford Island	0.038	U	0.038	U	0.038	U	3.63	J+	41.1		0.038	UJ	0.038	U	0.038	U	0.038	U
SB2006 FD	B21F071-DUP1/ B21F103-DUP1	20H2701	Bradford Island	0.037	U	0.037	U	0.037	U	6.61		74.5		0.037	U	0.037	U	0.037	U	0.037	U
SB2007	20H2701-02	20H2701	Bradford Island	0.038	U	0.038	U	0.038	U	4.29		233		0.038	U	0.038	U	0.038	U	0.038	U
SB1020	20H2701-03	20H2701	Goose Island	0.038	U	0.038	U	0.038	U	1.35		12.4		0.427		0.038	U	0.038	U	0.038	U
SB3015	20H2701-04	20H2701	Bradford Island	0.038	U	0.038	U	0.038	U	2.00		12.4		0.038	U	0.038	U	0.038	U	0.038	U
SB1022	20H2701-05	20H2701	Goose Island	1.21		0.037	U	0.037	U	8.81		77.5		3.75		0.037	U	0.037	U	0.037	U
SB1022 FD	B21A023-DUP4	20H2701	Goose Island	1.30		0.038	U	0.038	U	9.85		78.1		3.73		0.038	U	0.038	U	0.038	U
SB1021	20H2701-06	20H2701	Goose Island	0.785		0.037	U	0.037	U	4.87		35.0		1.90		0.037	U	0.037	U	0.037	U
SB3014	20H2701-07	20H2701	Bradford Island	0.812		0.038	U	0.038	U	4.33		32.0		0.873		0.038	U	0.038	U	0.038	U
SB3013	20H2701-08	20H2701	Bradford Island	0.035	U	0.035	U	0.035	U	1.97		21.0		0.035	U	0.035	U	0.035	U	0.035	U
SB3023	20I0302-01	20I0302	Bradford Island	0.038	U	0.038	U	0.038	U	4.30		34.7		0.038	U	0.038	U	0.038	U	0.038	U
SB2008	20I0302-02	20I0302	Bradford Island	0.038	U	0.038	U	0.038	U	3.86		50.5		0.038	U	0.038	U	0.038	U	0.038	U
SB2009	20I0302-03	20I0302	Bradford Island	0.038	U	21.4		0.038	U	0.038	U	55.7		0.038	U	0.038	U	0.038	U	0.038	U
SB3025	20I0302-04	20I0302	Bradford Island	0.038	U	0.038	U	0.038	U	6.16		75.4		0.038	U	0.038	U	0.038	U	0.038	U
SB3024	20I0302-05	20I0302	Bradford Island	11.7		0.037	U	0.037	U	6.18		54.5		0.037	U	0.037	U	0.037	U	0.037	U
SB3022	20I0302-06	20I0302	Bradford Island	0.038	U	0.038	U	0.038	U	12.8		156		0.038	U	0.038	U	0.038	U	0.038	U
SB1023	20I0303-01	20I0303	Goose Island	0.796		0.038	U	0.038	U	4.45		33.6		1.35		0.038	U	0.038	U	0.038	U
SB1024	20I0303-02	20I0303	Goose Island	0.038	U	0.038	U	0.038	U	3.36		29.6		1.63		0.038	U	0.038	U	0.038	U
SB1025	20I0303-03	20I0303	Goose Island	0.038	U	0.038	U	0.038	U	1.36		14.3		1.34		0.038	U	0.038	U	0.038	U
SB1026	20I0303-04	20I0303	Goose Island	0.037	U	0.433		0.037	U	2.94		27.7		2.23		0.037	U	0.037	U	0.037	U
SB3016	20I0303-05	20I0303	Goose Island	0.038	U	0.614		0.038	U	3.06		24.9		2.02		0.038	U	0.038	U	0.038	U
SB3017	20I0303-06	20I0303	Goose Island	0.037	U	0.037	U	0.037	U	4.70		30.6		1.25		0.037	U	0.037	U	0.037	U
SB3018	20I0303-07	20I0303	Goose Island	0.518		0.573		0.038	U	2.79		22.0		2.93		0.038	U	0.038	U	0.038	U
SB3019	20I0303-08	20I0303	Goose Island	0.037	U	0.037	U	0.037	U	1.53		14.8		2.07		0.037	U	0.037	U	0.037	U
SB3020	20I0303-09	20I0303	Goose Island	0.966		0.851		0.038	U	3.38		33.5		1.10		0.038	U	0.038	U	0.038	U
SB3021	20I0303-10	20I0303	Goose Island	0.038	U	1.27		0.038	U	6.44		58.0		3.26		0.038	U	0.038	U	0.038	U
SB3026	20I1004-01	20I1004	Bradford Island	0.038	UJ	0.038	UJ	0.038	UJ	2.87	J-	19.3	J-	0.038	UJ	0.038	UJ	0.625	J-	0.038	UJ
SB3026 FD	B20L027-DUP9	20I1004	Bradford Island	NA		NA		NA		NA		NA		NA		NA		NA		NA	
SB3027	20I1004-02	20I1004	Bradford Island	0.037	UJ	0.037	UJ	0.037	UJ	4.53	J-	34.3	J-	0.037	UJ	0.037	UJ	1.05	J-	0.037	UJ
SB3028	20I1004-03	20I1004	Bradford Island	0.038	UJ	0.038	UJ	0.038	UJ	3.67	J-	22.6	J-	0.038	UJ	0.038	UJ	0.739	J-	0.038	UJ
SB3029	20I1004-04	20I1004	Bradford Island	0.038	UJ	0.038	UJ	0.038	UJ	6.76	J-	23.5	J-	0.038	UJ	0.038	UJ	2.42	J-	0.038	UJ
SB1027	20I2304-01	20I2304	Bradford Island	0.037	U	0.037	U	0.037	U	7.22		62.6		0.037	U	0.037	U	0.037	U	0.037	U
SB2010	20I2304-02	20I2304	Bradford Island	0.037	U	0.037	U	0.037	U	2.08		14.3		0.037	U	0.037	U	0.938	J	0.037	U
SB2011	20I2304-03	20I2304	Bradford Island	0.038	U	0.038	U	0.038	U	2.01		17.5		0.164	U	0.164	U	0.038	U	0.038	U
SB2012	20I2304-04	20I2304	Bradford Island	0.038	U	0.038	U	0.038	U	6.83		45.9		0.164	U	0.164	U	1.50		0.038	U
SB2013	20I2304-05	20I2304	Bradford Island	0.038	U	0.038	U	0.038	U	3.47		29.4		0.164	U	0.164	U	0.807	J	0.038	U
SB2014	20I2304-06	20I2304	Bradford Island	0.037	U	0.037	U	0.037	U	1.58		26.1		0.037	U	0.162	U	0.037	U	0.037	U
SB3030	20I2304-07	20I2304	Bradford Island	0.037	U	0.037	U	0.037	U	5.88		57.9		2.46		0.037	U	0.037	U	0.037	U
SB3031	20I2304-08	20I2304	Bradford Island	0.037	U	0.037	U	0.037	U	4.72		34.9		0.162	U	0.162	U	0.037	U	0.037	U
SB3032	20I2304-09	20I2304	Bradford Island	0.038	U	0.038	U	0.038	U	2.65		31.7	J+	0.164	U	0.164	U	0.038	U	0.038	U

Smallmouth Bass - Organochlorine Pesticides

USACE Sample ID	Lab Sample ID	SDG #	Collection Area	2,4'-DDD (ug/kg)		2,4'-DDE (ug/kg)		2,4'-DDT (ug/kg)		4,4'-DDD (ug/kg)		4,4'-DDE (ug/kg)		4,4'-DDT (ug/kg)		alpha-BHC (ug/kg)		alpha Chlordane (ug/kg)		beta-BHC (ug/kg)	
SB3032 FD	B21A035-DUP2	20I2304	Bradford Island	0.037	U	0.037	U	0.037	U	1.83		18.7		0.161	U	0.161	U	0.037	U	0.037	U
SB3033	20I2304-10	20I2304	Bradford Island	0.038	U	0.038	U	0.038	U	2.77		24.3		0.038	U	0.163	U	0.038	U	0.038	U
SB3034	20I2304-11	20I2304	Bradford Island	0.037	U	0.037	U	0.037	U	5.56		35.8		0.161	U	0.161	U	1.25		0.037	U
SB3035	20I2304-12	20I2304	Bradford Island	0.038	U	0.038	U	0.038	U	4.98		36.4		2.55		0.163	U	0.038	U	0.038	U
SB3036	20I2304-13	20I2304	Bradford Island	0.038	U	0.038	U	0.038	U	2.20		22.2		0.163	U	0.163	U	0.038	U	0.038	U
SB3037	20I2304-14	20I2304	Bradford Island	0.038	U	0.038	U	0.038	U	5.95		45.6		3.89		0.163	U	0.038	U	0.038	U
SB3038	20I2304-15	20I2304	Bradford Island	0.038	U	0.038	U	0.038	U	8.03		43.4		1.86		0.164	U	0.038	U	0.038	U
SB3039	20I2304-16	20I2304	Bradford Island	0.038	U	0.038	U	0.038	U	4.65		45.6		2.70		0.163	U	0.038	U	0.038	U

Notes:
NA = not analyzed
SDG = sample delivery group
ug/kg = micrograms per kilogram
J+ = estimated value that may be biased high
J- = estimated value that may be biased low
U = not detected
UJ = not detected; estimated value

Smallmouth Bass - Organochlorine Pesticides

USACE Sample ID	Lab Sample ID	SDG #	Collection Area	delta-BHC (ug/kg)		Dieldrin (ug/kg)		Endosulfan I (ug/kg)		Endosulfan II (ug/kg)		Endrin (ug/kg)		Endrin aldehyde (ug/kg)		gamma-BHC (Lindane) (ug/kg)		gamma-Chlordane (ug/kg)		Methoxychlor (ug/kg)	
SB1001	20H2601-01	20H2601	South of Bradford	0.164	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1001 FD	B21I162-DUP1	20H2601	South of Bradford	NA		NA		NA		NA		NA		NA		NA		NA		NA	
SB1002	20H2601-02	20H2601	Bradford Island	0.160	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB1003	20H2601-03	20H2601	Reference	0.162	U	1.83		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB1004	20H2601-04	20H2601	Reference	0.160	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB1005	20H2601-05	20H2601	Reference	0.161	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB1006	20H2601-06	20H2601	Reference	0.164	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1007	20H2601-07	20H2601	Reference	0.161	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB2001	20H2601-08	20H2601	Reference	0.256	U	0.059	U	0.059	U	0.059	U	0.059	U	0.059	U	0.059	U	0.059	U	0.059	U
SB2002	20H2601-09	20H2601	Reference	0.163	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB2003	20H2601-10	20H2601	Reference	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3001	20H2601-11	20H2601	Bradford Island	0.161	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3002	20H2601-12	20H2601	Goose Island	0.161	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3003	20H2601-13	20H2601	Goose Island	0.162	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB3003 FD	B20J090-DUP6	20H2601	Goose Island	0.161	U	0.409		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3004	20H2601-14	20H2601	Goose Island	0.163	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1008	20H2601-15	20H2601	Reference	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB1008 FD	B20J090-DUP7	20H2601	Reference	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB1009	20H2601-16	20H2601	Reference	0.163	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1010	20H2601-17	20H2601	Reference	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB1011	20H2601-18	20H2601	Reference	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB1012	20H2601-19	20H2601	Reference	0.164	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1013	20H2601-20	20H2601	Reference	0.163	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1014	20H2601-21	20H2601	Reference	0.162	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1015	20H2601-22	20H2601	Reference	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB1016	20H2601-23	20H2601	Reference	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB1017	20H2601-24	20H2601	Reference	0.163	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1018	20H2601-25	20H2601	Reference	0.161	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB1019	20H2601-26	20H2601	Goose Island	0.164	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB2004	20H2601-27	20H2601	Bradford Island	0.160	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB2005	20H2601-28	20H2601	Bradford Island	0.160	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3005	20H2601-29	20H2601	Bradford Island	0.159	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3006	20H2601-30	20H2601	Bradford Island	0.159	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3006 FD	B20J090-DUP8	20H2601	Bradford Island	0.163	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB3007	20H2601-31	20H2601	Reference	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3007 FD	B20J090-DUP9	20H2601	Reference	0.160	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3008	20H2601-32	20H2601	Bradford Island	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3008 FD	B20J090-DUPA	20H2601	Bradford Island	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3009	20H2601-33	20H2601	Bradford Island	0.163	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB3010	20H2601-34	20H2601	Goose Island	0.162	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB3011	20H2601-35	20H2601	Goose Island	0.160	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3011 FD	B21I163-DUP3	20H2601	Goose Island	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Smallmouth Bass - Organochlorine Pesticides

USACE Sample ID	Lab Sample ID	SDG #	Collection Area	delta-BHC (ug/kg)		Dieldrin (ug/kg)		Endosulfan I (ug/kg)		Endosulfan II (ug/kg)		Endrin (ug/kg)		Endrin aldehyde (ug/kg)		gamma-BHC (Lindane) (ug/kg)		gamma-Chlordane (ug/kg)		Methoxychlor (ug/kg)	
SB3012	20H2601-36	20H2601	Goose Island	0.037	U	0.037	U	2.31	J+	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3012 FD	B20L020-DUP1	20H2601	Goose Island	0.161	U	1.35		1.18		0.037	U	0.037	U	0.037	U	0.161	U	0.037	U	0.037	U
SB2006	20H2701-01	20H2701	Bradford Island	0.162	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.038	UJ	0.038	UJ
SB2006 FD	B21F071-DUP1/ B21F103-DUP1	20H2701	Bradford Island	0.159	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB2007	20H2701-02	20H2701	Bradford Island	0.164	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1020	20H2701-03	20H2701	Goose Island	0.162	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB3015	20H2701-04	20H2701	Bradford Island	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1022	20H2701-05	20H2701	Goose Island	0.161	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB1022 FD	B21A023-DUP4	20H2701	Goose Island	0.163	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1021	20H2701-06	20H2701	Goose Island	0.160	U	0.848		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
SB3014	20H2701-07	20H2701	Bradford Island	0.164	U	1.04		0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB3013	20H2701-08	20H2701	Bradford Island	0.152	U	7.08		0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.794	
SB3023	20I0302-01	20I0302	Bradford Island	0.038	U	0.038	U	7.07	J	0.038	U	0.038	U	0.038	U	0.038	U	19.3		0.038	U
SB2008	20I0302-02	20I0302	Bradford Island	0.038	U	0.038	U	4.93	J	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB2009	20I0302-03	20I0302	Bradford Island	0.038	U	5.24		4.56	J	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB3025	20I0302-04	20I0302	Bradford Island	0.038	U	0.038	U	3.72	J	22.7		0.038	U	0.038	U	0.038	U	61.1		0.038	U
SB3024	20I0302-05	20I0302	Bradford Island	0.037	U	0.037	U	3.39	J	0.037	U	0.037	U	0.037	U	0.037	U	80.9		0.038	U
SB3022	20I0302-06	20I0302	Bradford Island	0.038	U	0.038	U	2.91	J	5.81		0.038	U	0.038	U	0.038	U	14.1		0.038	U
SB1023	20I0303-01	20I0303	Goose Island	0.038	U	0.038	U	8.03	J	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1024	20I0303-02	20I0303	Goose Island	0.038	U	0.038	U	2.67	J	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1025	20I0303-03	20I0303	Goose Island	0.038	U	0.379		0.429	J	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB1026	20I0303-04	20I0303	Goose Island	0.037	U	0.037	U	2.49	J	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3016	20I0303-05	20I0303	Goose Island	0.038	U	0.038	U	4.18	J	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB3017	20I0303-06	20I0303	Goose Island	0.037	U	0.037	U	4.18	J	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3018	20I0303-07	20I0303	Goose Island	0.038	U	0.516		0.448	J	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB3019	20I0303-08	20I0303	Goose Island	0.037	U	0.037	U	1.35	J	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3020	20I0303-09	20I0303	Goose Island	0.038	U	1.15		1.53	J	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB3021	20I0303-10	20I0303	Goose Island	0.038	U	0.038	U	6.14	J	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB3026	20I1004-01	20I1004	Bradford Island	0.038	UJ	1.16	J-	0.498	J-	0.038	UJ	0.038	UJ	0.038	UJ	0.038	UJ	0.038	UJ	0.038	UJ
SB3026 FD	B20L027-DUP9	20I1004	Bradford Island	NA		NA		NA		NA		NA		NA		NA		NA		NA	
SB3027	20I1004-02	20I1004	Bradford Island	0.037	UJ	1.30	J-	0.037	UJ	0.037	UJ	0.037	UJ	0.037	UJ	0.037	UJ	0.037	UJ	0.037	UJ
SB3028	20I1004-03	20I1004	Bradford Island	0.038	UJ	1.17	J-	0.464	J-	0.038	UJ	0.038	UJ	0.038	UJ	0.038	UJ	0.038	UJ	0.038	UJ
SB3029	20I1004-04	20I1004	Bradford Island	0.038	UJ	3.51	J-	1.01	J-	0.038	UJ	0.038	UJ	0.038	UJ	0.038	UJ	0.038	UJ	0.038	UJ
SB1027	20I2304-01	20I2304	Bradford Island	0.037	U	3.17	J	3.10	J	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB2010	20I2304-02	20I2304	Bradford Island	0.037	U	1.97	J	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB2011	20I2304-03	20I2304	Bradford Island	0.164	U	2.09	J	2.22	J	0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	U
SB2012	20I2304-04	20I2304	Bradford Island	0.164	U	3.46	J	2.08	J	0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	U
SB2013	20I2304-05	20I2304	Bradford Island	0.164	U	2.79	J	2.05		0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB2014	20I2304-06	20I2304	Bradford Island	0.162	U	0.301	J	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
SB3030	20I2304-07	20I2304	Bradford Island	0.161	U	2.26	J	2.33		0.037	U	0.037	U	0.037	U	0.161	U	0.037	U	0.037	U
SB3031	20I2304-08	20I2304	Bradford Island	0.162	U	2.39	J	2.26		0.037	U	0.037	U	0.037	U	0.162	U	0.037	U	0.037	U
SB3032	20I2304-09	20I2304	Bradford Island	0.164	U	2.52	J	2.90	J-	0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	UJ

Smallmouth Bass - Organochlorine Pesticides

USACE Sample ID	Lab Sample ID	SDG #	Collection Area	delta-BHC (ug/kg)		Dieldrin (ug/kg)		Endosulfan I (ug/kg)		Endosulfan II (ug/kg)		Endrin (ug/kg)		Endrin aldehyde (ug/kg)		gamma-BHC (Lindane) (ug/kg)		gamma-Chlordane (ug/kg)		Methoxychlor (ug/kg)	
SB3032 FD	B21A035-DUP2	20I2304	Bradford Island	0.161	U	1.35		1.18		0.037	U	0.037	U	0.037	U	0.161	U	0.037	U	0.037	U
SB3033	20I2304-10	20I2304	Bradford Island	0.163	U	3.76	J	4.04		0.038	U	0.038	U	0.038	U	0.163	U	0.038	U	0.038	U
SB3034	20I2304-11	20I2304	Bradford Island	0.161	U	4.67	J	3.87		0.037	U	0.037	U	0.037	U	0.161	U	0.037	U	0.037	U
SB3035	20I2304-12	20I2304	Bradford Island	0.163	U	4.17	J	5.02		0.038	U	0.038	U	0.038	U	0.163	U	0.038	U	0.038	U
SB3036	20I2304-13	20I2304	Bradford Island	0.163	U	2.25	J	2.73		0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
SB3037	20I2304-14	20I2304	Bradford Island	0.163	U	4.03	J	4.91		0.038	U	0.038	U	0.038	U	0.163	U	0.038	U	0.038	U
SB3038	20I2304-15	20I2304	Bradford Island	0.164	U	1.54	J	1.85		0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	U
SB3039	20I2304-16	20I2304	Bradford Island	0.163	U	2.74	J	3.12		0.038	U	0.038	U	0.038	U	0.163	U	0.038	U	0.038	U

Notes:
NA = not analyzed
SDG = sample delivery group
ug/kg = micrograms per kilogram
J+ = estimated value that may be biased high
J- = estimated value that may be biased low
U = not detected
UJ = not detected; estimated value

Smallmouth Bass - Total PCBs

Field Sample Number	Laboratory ID	SDG	Collection Area	Total PCBs (ug/kg)	
SB1001	20H2601-01RE1	20H2601	S of Bradford Island	49.1	
SB1002	20H2601-02RE2	20H2601	Bradford Island	73.4	
SB1027	20I2304-01RE2/RE3	20I2304	Bradford Island	666	
SB2004	20H2601-27RE3/RE4	20H2601	Bradford Island	1063	
SB2005	20H2601-28RE1	20H2601	Bradford Island	37.9	
SB2006	20H2701-01RE3/RE4	20H2701	Bradford Island	891	
SB2006 FD	B21F071-DUP1/ B21F103-DUP1	20H2701	Bradford Island	1752	
SB2007	20H2701-02RE3/RE4	20H2701	Bradford Island	11590	
SB2008	20I0302-02RE2/RE3	20I0302	Bradford Island	410	
SB2009	20I0302-03RE2/RE3	20I0302	Bradford Island	532	
SB2010	20I2304-02RE3/RE4	20I2304	Bradford Island	1142	
SB2011	20I2304-03RE2/RE3	20I2304	Bradford Island	321	
SB2012	20I2304-04RE3/RE4	20I2304	Bradford Island	773	
SB2013	20I2304-05RE3/RE4	20I2304	Bradford Island	662	
SB2014	20I2304-06RE2/RE3	20I2304	Bradford Island	158	
SB3001	20H2601-11RE3/RE4	20H2601	Bradford Island	7992	
SB3005	20H2601-29RE2	20H2601	Bradford Island	99.8	
SB3006	20H2601-30RE2	20H2601	Bradford Island	148	
SB3006 FD	B21F034-DUP3	20H2601	Bradford Island	138	
SB3008	20H2601-32RE2/RE3	20H2601	Bradford Island	137	
SB3008 FD	B21F034-DUP5/ B21F082-DUP2	20H2601	Bradford Island	149	
SB3009	20H2601-33RE1	20H2601	Bradford Island	54.3	
SB3013	20H2701-08RE1/RE2	20H2701	Bradford Island	211	
SB3014	20H2701-07RE1	20H2701	Bradford Island	41.9	
SB3015	20H2701-04RE3/RE4	20H2701	Bradford Island	2248	
SB3022	20I0302-06RE2/RE3	20I0302	Bradford Island	574	
SB3023	20I0302-01RE1	20I0302	Bradford Island	7.37	
SB3024	20I0302-05RE3/RE4	20I0302	Bradford Island	6126	
SB3025	20I0302-04RE2/RE3/RE4	20I0302	Bradford Island	2113	
SB3026	20I1004-01RE2/RE3	20I1004	Bradford Island	747	
SB3027	20I1004-02RE3/RE4	20I1004	Bradford Island	758	
SB3028	20I1004-03RE3/RE4	20I1004	Bradford Island	601	
SB3029	20I1004-04RE2/RE3/RE4	20I1004	Bradford Island	3669	
SB3030	20I2304-07RE2	20I2304	Bradford Island	126	
SB3031	20I2304-08RE2/RE3	20I2304	Bradford Island	411	
SB3032	20I2304-09RE3/RE4	20I2304	Bradford Island	242	
SB3032 FD	B21F073-DUP1/ B21F113-DUP1	20I2304	Bradford Island	268	
SB3033	20I2304-10RE2/RE3	20I2304	Bradford Island	450	
SB3034	20I2304-11RE3/RE4	20I2304	Bradford Island	938	
SB3035	20I2304-12RE2	20I2304	Bradford Island	97.2	
SB3036	20I2304-13RE2/RE3	20I2304	Bradford Island	155	

Smallmouth Bass - Total PCBs

Field Sample Number	Laboratory ID	SDG	Collection Area	Total PCBs (ug/kg)	
SB3037	20I2304-14RE2	20I2304	Bradford Island	60.2	
SB3038	20I2304-15RE2	20I2304	Bradford Island	46.0	
SB3039	20I2304-16RE2/RE3	20I2304	Bradford Island	144	
SB1019	20H2601-26RE2/RE3	20H2601	Goose Island	591	
SB1020	20H2701-03RE1	20H2701	Goose Island	16.3	
SB1021	20H2701-06RE1	20H2701	Goose Island	37.1	
SB1022	20H2701-05RE1	20H2701	Goose Island	64.8	
SB1022 FD	B21F071-DUP2	20H2701	Goose Island	54.1	
SB1023	20I0303-01RE1	20I0302	Goose Island	7.68	
SB1024	20I0303-02RE1	20I0303	Goose Island	6.90	
SB1025	20I0303-03RE1	20I0303	Goose Island	5.64	U
SB1026	20I0303-04RE1	20I0303	Goose Island	8.23	
SB3002	20H2601-12RE1	20H2601	Goose Island	33.9	
SB3003	20H2601-13RE1	20H2601	Goose Island	22.8	
SB3003 FD	B21F034-DUP1	20H2601	Goose Island	23.4	
SB3004	20H2601-14RE1	20H2601	Goose Island	30.0	
SB3010	20H2601-34RE1	20H2601	Goose Island	11.8	
SB3011	20H2601-35RE1	20H2601	Goose Island	12.0	
SB3012	20H2601-36RE1	20H2601	Goose Island	8.03	
SB3012 FD	B21F079-DUP1	20I0302/20I0303	Goose Island	6.58	
SB3016	20I0303-05RE1	20I0303	Goose Island	18.2	
SB3017	20I0303-06RE1	20I0303	Goose Island	8.49	
SB3018	20I0303-07RE1	20I0303	Goose Island	7.32	
SB3019	20I0303-08RE1	20I0303	Goose Island	6.09	
SB3020	20I0303-09RE1	20I0303	Goose Island	34.2	
SB3021	20I0303-10RE1	20I0303	Goose Island	18.8	
SB1003	20H2601-03RE1	20H2601	Reference Area	85.5	
SB1004	20H2601-04RE2/RE3	20H2601	Reference Area	344	
SB1005	20H2601-05RE1	20H2601	Reference Area	11.1	
SB1006	20H2601-06RE1	20H2601	Reference Area	13.9	
SB1007	20H2601-07RE1	20H2601	Reference Area	15.2	
SB1008	20H2601-15RE1	20H2601	Reference Area	15.8	
SB1008 FD	B21F034-DUP2	20H2601	Reference Area	14.8	
SB1009	20H2601-16RE1	20H2601	Reference Area	16.2	
SB1010	20H2601-17RE1	20H2601	Reference Area	14.4	
SB1011	20H2601-18RE1	20H2601	Reference Area	15.0	
SB1012	20H2601-19RE1	20H2601	Reference Area	11.6	
SB1013	20H2601-20RE2/RE3	20H2601	Reference Area	854	
SB1014	20H2601-21RE1	20H2601	Reference Area	11.6	
SB1015	20H2601-22RE1	20H2601	Reference Area	14.0	
SB1016	20H2601-23RE1	20H2601	Reference Area	11.6	
SB1017	20H2601-24RE1	20H2601	Reference Area	12.8	
SB1018	20H2601-25RE1	20H2601	Reference Area	12.0	
SB2001	20H2601-08RE2	20H2601	Reference Area	15.6	

Smallmouth Bass - Total PCBs

Field Sample Number	Laboratory ID	SDG	Collection Area	Total PCBs (ug/kg)	
SB2002	20H2601-09RE2	20H2601	Reference Area	14.9	
SB2003	20H2601-10RE1	20H2601	Reference Area	12.6	
SB3007	20H2601-31RE2/RE3	20H2601	Reference Area	618	
SB3007 FD	B21F034-DUP4/ B21F082-DUP1	20H2601	Reference Area	390	

Notes:
SDG = Sample Delivery Group
ug/kg = micrograms per kilogram
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
U = not detected

Smallmouth Bass - PCB Congeners: Bradford Island

USACE Sample ID:		SB1001		SB1002		SB1027		SB2004		SB2005		SB2006		SB2006 FD		SB2007		SB2008		SB2009		SB2010	
Lab Sample ID:		20H2601-01RE1		20H2601-02RE2		20I2304-01RE2/RE3		20H2601-27RE3/RE4		20H2601-28RE1		20H2701-01RE3/RE4		B21F071-DUP1/B21F103-DUP1		20H2701-02RE3/RE4		20I0302-02RE2/RE3		20I0302-03RE2/RE3		20I2304-02RE3/RE4	
Lab Sample Delivery Group:		20H2601		20H2601		20I2304		20H2601		20H2601		20H2701		20H2701		20H2701		20I0302		20I0302		20I2304	
Collection Area:		S of Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	ug/kg	49.1		73.4		666		1063		37.9		891		1752		11590		410		532		1142	
PCB 10	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 103	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.156		0.155		0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 104	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 105	ug/kg	1.13		2.80		55.3		244		0.554		NA		157		NA		22.4		NA		83.9	
PCB 105/132	ug/kg	NA		NA		NA		NA		NA		74.5		NA		771		NA		29.8	J-	NA	
PCB 107	ug/kg	0.196		0.234		2.42		2.58		0.037	U	3.35		4.37		19.1		5.39		7.20	J-	3.81	
PCB 110	ug/kg	1.46		1.51		31.2		47.2		0.037	U	34.7		67.3		647		8.55		9.34	J-	45.0	
PCB 114	ug/kg	0.163		0.131		0.659		0.936		0.037	U	0.872		1.43		9.46		0.266		0.289	J-	1.31	
PCB 115/87	ug/kg	0.073	U	0.073	U	8.52		15.0		0.074	U	11.8	J+	20.2		323		4.76		7.39	J-	24.9	
PCB 117/81	ug/kg	0.073	U	0.073	U	4.17		6.34		0.074	U	6.69		10.8		59.8		3.72		0.076	UJ	7.75	
PCB 118	ug/kg	3.37		15.0		131		211		4.43		173		350		1410		136		138		161	
PCB 119	ug/kg	0.180		0.188		0.723		1.14		0.222		0.880		1.13		8.36		2.53		2.97	J-	1.19	
PCB 12	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 121	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	NA		NA		0.038	U
PCB 123	ug/kg	0.037	U	0.633	J+	0.037	U	3.34	J+	0.194	J+	4.01	J+	NA		27.4	J+	NA		NA		3.98	
PCB 124	ug/kg	0.037	U	0.036	U	3.09		2.21		0.037	U	4.00	J+	5.25		97.7		NA		NA		6.22	
PCB 124/144	ug/kg	NA		NA		NA		NA		NA		NA		NA				0.788		0.781	J-	NA	
PCB 126/129/178	ug/kg	0.11	U	0.109	U	0.111	U	0.113	U	0.11	U	8.11	J+	6.24		0.114	U	2.74		3.71	J-	0.112	U
PCB 128/174/202	ug/kg	NA		NA		NA		NA		NA		NA		0.111	U	NA		NA		NA		NA	
PCB 13	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 130	ug/kg	0.257		0.687		6.15		5.72		0.177		7.18	J+	11.1		86.7		3.39		3.93	J-	9.84	
PCB 131/122/142	ug/kg	0.11	U	0.109	U	0.111	U	0.113	U	0.11	U	2.58	J+	0.111	U	0.114	U	0.112	U	0.113	UJ	0.112	U
PCB 132	ug/kg	0.810		0.560		6.70		5.28		0.037	U	9.53	NS	15.7		NA		NA		NA		11.5	
PCB 134	ug/kg	0.858		0.460		3.04		2.02		0.430		3.17	J+	5.22		45.2		1.65		2.07	J-	5.66	
PCB 135	ug/kg	1.24		0.409		3.05		2.56		0.489		3.87		5.02		48.2		1.54		0.973	J-	3.39	
PCB 136	ug/kg	0.037	U	0.036	U	1.87		3.05		0.037	U	2.59	J+	3.43		38.3		0.037	U	0.038	UJ	3.22	
PCB 137	ug/kg	0.440		1.99		10.1		13.8		0.836		15.0		43.4		154		5.89		5.94	J-	13.9	
PCB 138/163/164	ug/kg	4.31		7.75		104		134		3.16		120		235		1150		41.2		54.8	J-	137	
PCB 14	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 141	ug/kg	0.545		0.601		5.53		5.34		0.037	U	7.06	J+	11.5		NA		NA		NA		11.8	
PCB 141/179	ug/kg	NA		NA		NA		NA		NA		NA		NA		135		3.29		4.72	J-	NA	
PCB 144	ug/kg	0.240		0.267		1.73		1.43		0.037	U	2.30		3.14		60.0		NA		NA		3.76	
PCB 146	ug/kg	0.818		2.01		11.7		15.9		1.04		16.6		43.6		159		8.17		8.97	J-	16.4	
PCB 147	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	3.08		0.037	U	0.038	U	0.037	U	7.46	J-	0.038	U
PCB 149/123	ug/kg	NA		NA		NA		NA		NA		NA		31.4		NA		2.47		3.31	J-	NA	
PCB 149/82/165	ug/kg	1.58		1.52		13.7		9.05		0.597		20.4	J+	NA		355		NA		NA		34.8	
PCB 15/17	ug/kg	0.073	U	0.073	U	0.074	U	0.075	U	0.074	U	0.075	U	0.074	U	4.89		0.075	U	0.076	UJ	0.075	U
PCB 151	ug/kg	0.593		0.487		3.43		3.71		0.205		4.89	J+	7.52		86.0		2.87		3.70	J-	7.95	
PCB 153	ug/kg	NA		NA		0.037	U	NA		NA		0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 153/131	ug/kg	0.073	U	0.073	U	NA		0.075	U	0.074	U	NA		NA		NA		NA				NA	
PCB 154	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.786	J+	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 156	ug/kg	0.965		3.08		18.6		38.6		1.32		36.2		73.8		268		7.90		7.95	J-	29.1	
PCB 157/201	ug/kg	0.689		1.00		4.69		6.45		0.675		6.68	J+	11.0		45.4		0.075	U	0.076	UJ	6.61	
PCB 158	ug/kg	0.465		0.691		6.80		8.02		0.242		10.1		16.8		126		3.96		5.29	J-	15.0	
PCB 16	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.325		0.037	U	0.038	UJ	0.038	U
PCB 165	ug/kg	NA		NA		6.65		NA		NA		NA		NA		NA		0.037	U	0.038	UJ	NA	
PCB 167	ug/kg	0.455		1.43		NA		9.26		0.743		9.94		16.6		96.7		4.87		5.12	J-	8.46	
PCB 170/203	ug/kg	1.01		1.44		9.00		10.6	U	2.01		10.5	J+	17.7		119		7.09		7.86	J-	11.2	

Smallmouth Bass - PCB Congeners: Bradford Island

USACE Sample ID:		SB1001		SB1002		SB1027		SB2004		SB2005		SB2006		SB2006 FD		SB2007		SB2008		SB2009		SB2010	
Lab Sample ID:		20H2601-01RE1		20H2601-02RE2		20I2304-01RE2/RE3		20H2601-27RE3/RE4		20H2601-28RE1		20H2701-01RE3/RE4		B21F071-DUP1/B21F103-DUP1		20H2701-02RE3/RE4		20I0302-02RE2/RE3		20I0302-03RE2/RE3		20I2304-02RE3/RE4	
Lab Sample Delivery Group:		20H2601		20H2601		20I2304		20H2601		20H2601		20H2701		20H2701		20H2701		20I0302		20I0302		20I2304	
Collection Area:		S of Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	0.488		0.448		2.77		2.43	U	0.074	U	2.95		4.72		0.076	U	1.86		2.06	J-	3.77	
PCB 173	ug/kg	0.272		0.287		0.037	U	0.287		0.256		0.314		0.409		1.60		0.037	U	0.038	UJ	0.450	
PCB 174/128/202	ug/kg	1.66		1.74		14.5		14.9		0.11	U	22.5	J+	39.9		361		8.43		12.3	J-	42.6	
PCB 175	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.375	J+	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 176	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	4.33		4.99	J-	0.038	U
PCB 177	ug/kg	0.667		0.396		3.27		2.64		0.647		3.32	J+	5.36		29.0		0.827		1.48	J-	3.87	
PCB 179	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	NA		NA		NA		0.038	U
PCB 18	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	3.31		0.037	U	0.038	UJ	0.038	U
PCB 180	ug/kg	3.41		2.94		18.9		18.2		5.13		26.0		53.3		176		10.9		12.7	J-	16.0	
PCB 183	ug/kg	1.04		0.788		3.39		4.76		0.909		4.14		5.50		54.8		3.03		3.40	J-	3.79	
PCB 184	ug/kg	NA		NA		0.037	U	NA		NA		NA		2.58		NA		0.075	U	1.39	J-	0.038	U
PCB 184/122	ug/kg	0.073	U	0.073	U	NA		0.075	U	0.074	U	1.65		NA		18.6		NA		NA		NA	
PCB 185	ug/kg	0.037	U	0.036	U	0.037	U	0.343		0.037	U	0.494		0.696		3.24		0.037	U	0.208	J-	0.613	
PCB 187	ug/kg	1.20		1.17		6.28		6.95		2.73		8.07		13.3		60.4		2.54		4.50	J-	6.22	
PCB 189	ug/kg	0.037	U	0.264		0.702		0.786		0.271		0.934		1.23		4.55		0.343		0.504	J-	0.765	
PCB 19	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	1.16		0.037	U	0.038	UJ	0.038	U
PCB 190	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		1.64		1.42	J-	NA	
PCB 190/199	ug/kg	0.671		0.692		3.20		3.37		1.19		3.85	J+	6.00		19.4		NA		NA		3.26	
PCB 191	ug/kg	0.037	U	0.036	U	0.395		0.471		0.037	U	0.519		0.629		2.53		0.126		0.038	UJ	0.505	
PCB 192	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 193	ug/kg	0.202		0.214		0.678		0.845		0.342		1.04		1.25		5.05		0.037	U	0.550	J-	0.758	
PCB 194	ug/kg	0.315		0.330		1.33		1.91		1.25		1.52		2.44		6.80		1.23		1.32	J-	1.14	
PCB 195	ug/kg	0.268		0.259		0.779		0.735		0.629		0.902		1.12		3.30		0.546		0.638	J-	0.688	
PCB 196	ug/kg	0.264		0.239		0.959		0.915		0.695		1.06		1.80		3.46		0.571		0.730	J-	0.754	
PCB 197	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 199	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		0.982		1.25	J-	NA	
PCB 20	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 200	ug/kg	0.387		0.353		0.448		0.433		0.037	U	0.332		0.418		0.858		0.037	U	0.038	UJ	0.400	
PCB 205	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.268		0.081	J-	0.038	U
PCB 206	ug/kg	0.246		0.236		0.593		0.537		0.278		0.602		0.813		1.74		0.388		0.332	J-	0.507	
PCB 207	ug/kg	0.037	U	0.036	U	0.259		0.261		0.037	U	0.278		0.338		0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 208	ug/kg	0.037	U	0.036	U	0.278		0.242		0.037	U	0.324		0.347		0.038	U	0.037	U	0.096	J-	0.038	U
PCB 209	ug/kg	0.037	U	0.036	U	0.242		0.212		0.037	U	0.285		0.360		0.038	U	0.037	U	0.080	J-	0.212	
PCB 22	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 24/27	ug/kg	0.073	U	0.073	U	0.074	U	0.075	U	0.074	U	0.075	U	0.074	U	1.11		0.075	U	0.076	UJ	0.075	U
PCB 25/54	ug/kg	0.073	U	0.073	U	0.074	U	0.075	U	0.074	U	0.075	U	0.074	U	1.21		0.075	U	0.076	UJ	0.075	U
PCB 26	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	1.93		0.037	U	0.096	J-	0.258	
PCB 28/31	ug/kg	0.465		0.073	U	1.15		1.35		0.074	U	0.858		1.01		11.3		0.075	U	2.23	J-	1.32	
PCB 29	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 32	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	1.59		0.037	U	0.038	UJ	0.038	U
PCB 33	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 34	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 35	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 37/59	ug/kg	0.073	U	0.073	U	0.074	U	0.075	U	0.074	U	0.075	U	0.074	U	0.076	U	0.075	U	0.076	UJ	0.075	U
PCB 4	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 40	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	4.39		0.037	U	0.038	UJ	0.038	U
PCB 42	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 44	ug/kg	0.445		0.176		1.46		4.28		0.037	U	1.36		1.72		103		0.489		1.06	J-	3.85	
PCB 45	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		0.037	U	0.038	UJ	NA	

Smallmouth Bass - PCB Congeners: Bradford Island

USACE Sample ID:		SB1001		SB1002		SB1027		SB2004		SB2005		SB2006		SB2006 FD		SB2007		SB2008		SB2009		SB2010	
Lab Sample ID:		20H2601-01RE1		20H2601-02RE2		20I2304-01RE2/RE3		20H2601-27RE3/RE4		20H2601-28RE1		20H2701-01RE3/RE4		B21F071-DUP1/B21F103-DUP1		20H2701-02RE3/RE4		20I0302-02RE2/RE3		20I0302-03RE2/RE3		20I2304-02RE3/RE4	
Lab Sample Delivery Group:		20H2601		20H2601		20I2304		20H2601		20H2601		20H2701		20H2701		20H2701		20I0302		20I0302		20I2304	
Collection Area:		S of Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 47/49	ug/kg	0.467		0.218	J	1.83		3.62		0.074	U	1.85		2.79		103		0.788		3.35	J-	7.61	
PCB 48	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.640		0.037	U	0.038	UJ	0.038	U
PCB 5	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 51	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	1.72		0.037	U	0.038	UJ	0.038	U
PCB 52	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		2.81		8.59	J-	NA	
PCB 52/45	ug/kg	0.960		0.727		4.79		12.6		0.074	U	5.29	J+	8.29		414		NA		NA		20.9	
PCB 53	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	7.15		0.037	U	0.038	UJ	0.371	
PCB 56/60	ug/kg	0.620		0.389		1.45		2.22		0.074	U	2.07		2.78		38.6		0.742		1.81	J-	4.76	
PCB 6	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 63	ug/kg	0.037	U	0.250		0.950		1.32		0.037	U	1.00		1.31		7.38		NA		NA		1.17	
PCB 63/121	ug/kg	NA		NA		NA		NA		NA		NA		1.06		NA		0.182	J	0.253	J-	NA	
PCB 64	ug/kg	0.723		0.036	U	1.44		2.34		0.037	U	0.825		37.7		30.6		0.037	U	1.19	J-	1.98	
PCB 66	ug/kg	0.990		1.06		8.71		17.5		0.385		13.3		NA		207		6.70		8.44	J-	22.4	
PCB 67/41/100	ug/kg	0.11	U	0.109	U	0.111	U	0.113	U	0.11	U	0.112	U	0.333	J	0.114	U	0.112	U	0.113	UJ	0.112	U
PCB 69	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 7	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 70	ug/kg	0.992		0.698		5.56		7.13		0.206		8.52		12.3		342		4.33		10.0	J-	23.4	
PCB 71	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.273		0.301		2.72		0.037	U	0.038	UJ	0.338	
PCB 73	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 74	ug/kg	0.404		0.781		6.57		13.5		0.178		10.1		16.0		153		5.71		7.00	J-	16.8	
PCB 75	ug/kg	0.269		0.122		0.856		2.00		0.037	U	1.85		2.70		30.7		0.618		1.79	J-	3.42	
PCB 77	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 78	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	UJ	0.038	U
PCB 8	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.612		0.037	U	0.038	UJ	0.038	U
PCB 82	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		0.981		1.36	J-	NA	
PCB 83	ug/kg	0.037	U	0.335		3.14		2.65		0.037	U	3.52	J+	5.64		71.7		1.46		1.82	J-	6.82	
PCB 84	ug/kg	0.037	U	0.036	U	2.76		4.71		0.037	U	3.39		4.77		118		1.29		0.038	UJ	4.96	
PCB 85	ug/kg	0.705		1.10		7.28		10.8		0.385		12.8		33.2		272		4.44		7.44	J-	30.8	
PCB 9	ug/kg	0.037	U	0.036	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.430		0.037	U	0.038	UJ	0.038	U
PCB 90/101	ug/kg	2.55		3.18		25.1		0.075	U	0.948		36.5		106		852		14.2		22.3	J-	80.6	
PCB 91	ug/kg	0.037	U	0.242		3.00		3.47		0.037	U	3.38		4.30		83.8		1.35		1.45	J-	4.93	
PCB 92	ug/kg	0.037	U	0.975		5.63		9.07		0.037	U	6.36	J+	9.24		156		3.04		4.42	J-	9.73	
PCB 93	ug/kg	0.536		0.036	U	1.43		1.43		0.037	U	0.829		0.650		0.038	U	6.76		8.35	J-	0.038	U
PCB 95/155	ug/kg	1.12		1.10		10.5		15.1		0.216	J	15.5	J+	25.3		512		6.46		8.06	J-	32.1	
PCB 97	ug/kg	0.692		1.06		12.1		13.2		0.037	U	17.9		47.3		399		7.39		11.5	J-	39.3	
PCB 99	ug/kg	1.26		2.89		44.8		62.4		0.037	U	55.0		107		552		18.1		45.2		67.3	

Notes:

Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection

NA = Not analyzed - Results for this congener or congener combination are not available due to coelution with another congener. In some cases, samples were diluted and reanalyzed so that congener concentration would be in the appropriate calibration range. If a congener was reanalyzed due to calibration range concentration, and that congener then coeluted with a congener that had an appropriate concentration in the initial calibration range, then both results were reported, but in that case, only the combined concentration was used to calculate the sum for total PCB concentration.

NS = Not summed for total PCBs. The result flagged NS is valid; however, during a dilution reanalysis to bring a higher concentration congener into the calibration range, the congener flagged NS coeluted with the higher concentration congener. The combined sum of the coeluting congeners was used in the sum of total PCBs. The result flagged NS is provided for information.

ug/kg = micrograms per kilogram

2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.

J = estimated value

J+ = estimated value that may be biased high

J- = estimated value that may be biased low

U = not detected

UJ = not detected; estimated value

Smallmouth Bass - PCB Congeners: Bradford Island

USACE Sample ID:		SB2011		SB2012		SB2013		SB2014		SB3001		SB3005		SB3006		SB3006 FD		SB3008		SB3008 FD		SB3009	
Lab Sample ID:		20I2304-03RE2/RE3		20I2304-04RE3/RE4		20I2304-05RE3/RE4		20I2304-06RE2/RE3		20H2601-11RE3/RE4		20H2601-29RE2		20H2601-30RE2		B21F034-DUP3		20H2601-32RE2/RE3		B21F034-DUP5/B21F082-DUP2		20H2601-33RE1	
Lab Sample Delivery Group:		20I2304		20I2304		20I2304		20I2304		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601	
Collection Area:		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	ug/kg	321		773		662		158		7992		99.8		148		138		137		149		54.3	
PCB 10	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 103	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 104	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 105	ug/kg	15.8		55.1		0.750	U	5.80		1260		4.34		4.65	J-	5.15		5.59		7.24		2.58	J-
PCB 105/132	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 107	ug/kg	1.21		2.00		2.57		0.691		12.6		0.317		0.295		0.323		0.349		0.414		0.129	J-
PCB 110	ug/kg	8.55		0.038	U	26.7		3.11		345		5.73		9.11		8.16		7.29	J-	8.85		1.95	J-
PCB 114	ug/kg	0.437		1.27		0.935		0.225		6.05		0.218		0.245		0.249		0.276		0.316		0.120	J-
PCB 115/87	ug/kg	4.31		27.5		14.6		1.86		190		2.94		4.33		4.04		3.99		4.58		1.24	J-
PCB 117/81	ug/kg	1.92		3.90		6.58		1.60		34.5		0.865		0.720	J-	0.074	U	0.870		0.074	U	0.537	J-
PCB 118	ug/kg	96.5		107		108		48.9		935		12.9		15.1		14.0		25.7		31.6		9.92	J-
PCB 119	ug/kg	0.674		1.05		1.04		0.403		5.69		0.434		0.321		0.327		0.308		0.364		0.332	J-
PCB 12	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 121	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 123	ug/kg	1.40		1.95		3.45		0.906		18.1	J+	0.037	U	0.470	J+	0.474	J	0.505	J	0.676	J	0.269	J-
PCB 124	ug/kg	1.31		2.53		3.28		0.604		51.1		0.037	U	0.780		0.804		0.037	U	0.037	U	0.037	UJ
PCB 124/144	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 126/129/178	ug/kg	0.113	U	0.113	U	0.112	U	0.112	U	0.114	U	0.112	U	0.11	U	0.111	U	0.112	U	0.111	U	0.111	UJ
PCB 128/174/202	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 13	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 130	ug/kg	2.30		5.25		7.31		1.23		55.5		0.756		0.917		0.871		0.834		0.037	U	0.362	J-
PCB 131/122/142	ug/kg	0.113	U	0.113	U	0.112	U	0.112	U	0.114	U	0.112	U	0.11	U	0.111	U	0.112	U	0.111	U	0.111	UJ
PCB 132	ug/kg	3.03		14.4		6.40		1.18		312		1.68		2.80		2.97		1.35		1.79		0.416	J-
PCB 134	ug/kg	1.33		3.28		2.48		0.698		23.6		0.722		0.953		0.940		0.626		0.780		0.342	J-
PCB 135	ug/kg	1.84		3.83		2.34		0.669		28.0		0.975		1.88		2.04		1.06		1.30		0.037	UJ
PCB 136	ug/kg	1.34		3.66		2.16		0.037	U	18.3		0.859		0.894		1.10		0.633		0.738		0.037	UJ
PCB 137	ug/kg	5.09		7.47		13.8		3.10		101		1.63		1.60	J-	1.62		2.15		2.53		1.16	J-
PCB 138/163/164	ug/kg	32.1		87.2		71.5		15.1		755		11.9		12.1	J-	11.2		14.4	J-	16.7		6.14	J-
PCB 14	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 141	ug/kg	2.52		8.10		5.99		0.941		237		1.55		1.43		1.47		1.69		1.97		0.700	J-
PCB 141/179	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 144	ug/kg	0.908		2.11		2.00		0.472		14.6		0.446		0.532		0.614		0.379	J+	0.450		0.167	J-
PCB 146	ug/kg	5.62		9.46		17.1		3.91		104		1.60		1.70		1.59		2.21	J-	2.56		1.21	J-
PCB 147	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 149/123	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 149/82/165	ug/kg	7.97		19.4		15.9		2.63		198		2.51		5.11		5.10		2.12		2.36		0.518	J-
PCB 15/17	ug/kg	0.075	U	1.77		0.829		0.075	U	2.99		0.074	U	0.073	U	0.074	U	0.075	U	0.074		0.074	UJ
PCB 151	ug/kg	1.98		5.70		5.18		1.02		47.7		1.06		1.08		0.961		1.05		1.27		0.468	J-
PCB 153	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	NA		NA		NA		NA		NA		NA		NA	
PCB 153/131	ug/kg	NA		NA		NA		NA		0.076	U	0.074	U	0.073	U	0.074	U	0.075	U	0.074	U	0.074	UJ
PCB 154	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038		0.037	U	1.22	J-	1.07		0.764		0.037	U	0.037	UJ
PCB 156	ug/kg	8.70		15.7		20.0		5.91		175		2.34		2.48	J-	2.40		3.34	J-	3.93		1.87	J-
PCB 157/201	ug/kg	2.38		3.80		5.87		1.62		32.0		0.932		1.02		0.893		1.21		1.43		0.873	J-
PCB 158	ug/kg	3.00		8.98		8.36		1.37		78.9		1.46		1.50	J-	1.29		1.61		1.96		0.681	J-
PCB 16	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 165	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 167	ug/kg	3.36		4.90		9.14		2.33		55.6		0.919		1.01		0.976		1.33		1.52		0.921	J-
PCB 170/203	ug/kg	3.87		6.15		9.36		2.27		83.0		1.57		1.49		1.48		1.82		2.19		1.16	J-

Smallmouth Bass - PCB Congeners: Bradford Island

USACE Sample ID:		SB2011		SB2012		SB2013		SB2014		SB3001		SB3005		SB3006		SB3006 FD		SB3008		SB3008 FD		SB3009	
Lab Sample ID:		20I2304-03RE2/RE3		20I2304-04RE3/RE4		20I2304-05RE3/RE4		20I2304-06RE2/RE3		20H2601-11RE3/RE4		20H2601-29RE2		20H2601-30RE2		B21F034-DUP3		20H2601-32RE2/RE3		B21F034-DUP5/B21F082-DUP2		20H2601-33RE1	
Lab Sample Delivery Group:		20I2304		20I2304		20I2304		20I2304		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601	
Collection Area:		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	1.26		2.41		2.48		0.815		15.3		0.671		0.073	U	0.074	U	0.075	U	0.074	U	0.074	UJ
PCB 173	ug/kg	0.237		0.410		0.366		0.287		1.18		0.246		0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 174/128/202	ug/kg	7.04		20.2		18.9		2.85		228		3.88		3.74		4.10		4.25		5.66		0.111	UJ
PCB 175	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 176	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 177	ug/kg	1.25		2.15		2.83		0.847		16.6		0.490		0.630		0.576		0.546		0.592		0.037	UJ
PCB 179	ug/kg	0.038	U	0.796		0.446		0.037	U	4.45		0.214		0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 18	ug/kg	0.038	U	0.763		0.464		0.037	U	1.98		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 180	ug/kg	6.46		10.4		15.0		6.12		115		2.60		2.76	J-	3.09		3.19	J-	4.18		1.91	J-
PCB 183	ug/kg	1.68		2.34		3.09		0.896		30.1		0.869		0.959		0.914		0.994		1.16		0.037	UJ
PCB 184	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	NA		NA		NA		NA		NA		NA		NA	
PCB 184/122	ug/kg	NA		NA		NA		NA		10.8		0.074	U	0.073	U	0.074	U	0.075	U	0.074	U	0.074	UJ
PCB 185	ug/kg	0.038	U	0.461		0.483		0.037	U	2.39		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 187	ug/kg	2.51		3.92		6.91		2.52		43.0		0.968		1.20		1.21		1.25		1.55		0.727	J-
PCB 189	ug/kg	0.404		0.574		0.825		0.379		3.07		0.244		0.249		0.292		0.268		0.359		0.037	UJ
PCB 19	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 190	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 190/199	ug/kg	1.42		2.15		2.99		1.22		15.4		0.781		0.717		0.745		0.863		0.982		0.591	J-
PCB 191	ug/kg	0.251		0.357		0.467		0.256		1.74		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 192	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 193	ug/kg	0.399		0.508		0.810		0.407		3.32		0.200		0.209		0.238		0.248		0.242		0.184	J-
PCB 194	ug/kg	0.533		0.934		1.28		0.587		7.38		0.382		0.378		0.386		0.462		0.545		0.286	J-
PCB 195	ug/kg	0.371		0.492		0.628		0.344		2.70		0.254		0.265		0.265		0.280		0.329		0.224	J-
PCB 196	ug/kg	0.409		0.597		0.783		0.421		3.20		0.270		0.276		0.287		0.305		0.340		0.037	UJ
PCB 197	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 199	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 20	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 200	ug/kg	0.320		0.493		0.391		0.341		0.849		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 205	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 206	ug/kg	0.315		0.478		0.561		0.342		1.66		0.266		0.282		0.237		0.265		0.262		0.037	UJ
PCB 207	ug/kg	0.038	U	0.038	U	0.238		0.037	U	0.409		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 208	ug/kg	0.038	U	0.210		0.245		0.177		0.558		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 209	ug/kg	0.038	U	0.199		0.238		0.197		0.650		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 22	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 24/27	ug/kg	0.075	U	0.694		0.503		0.075	U	0.613		0.074	U	0.073	U	0.074	U	0.075	U	0.074	U	0.074	UJ
PCB 25/54	ug/kg	0.075	U	0.075	U	0.075	U	0.075	U	0.076	U	0.074	U	0.073	U	0.074	U	0.075	U	0.074	U	0.074	UJ
PCB 26	ug/kg	0.038	U	0.383		0.345		0.037	U	1.30		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 28/31	ug/kg	0.409		1.35		1.53		0.075	U	10.6		0.074	U	0.742		0.833		0.075	U	0.074	U	0.074	UJ
PCB 29	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 32	ug/kg	0.038	U	0.516		0.283		0.037	U	0.826		0.037	U	0.203		0.166		0.037	U	0.037	U	0.037	UJ
PCB 33	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 34	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 35	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 37/59	ug/kg	0.075	U	0.075	U	0.075	U	0.075	U	0.076	U	0.074	U	0.073	U	0.074	U	0.075	U	0.074	U	0.074	UJ
PCB 4	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 40	ug/kg	0.038	U	0.634		0.038	U	0.037	U	1.76		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 42	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 44	ug/kg	0.915		8.18		4.20		0.320		39.0		0.430		1.83		1.46		0.836		0.853		0.208	J-
PCB 45	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Smallmouth Bass - PCB Congeners: Bradford Island

USACE Sample ID:		SB2011		SB2012		SB2013		SB2014		SB3001		SB3005		SB3006		SB3006 FD		SB3008		SB3008 FD		SB3009	
Lab Sample ID:		20I2304-03RE2/RE3		20I2304-04RE3/RE4		20I2304-05RE3/RE4		20I2304-06RE2/RE3		20H2601-11RE3/RE4		20H2601-29RE2		20H2601-30RE2		B21F034-DUP3		20H2601-32RE2/RE3		B21F034-DUP5/B21F082-DUP2		20H2601-33RE1	
Lab Sample Delivery Group:		20I2304		20I2304		20I2304		20I2304		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601	
Collection Area:		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 47/49	ug/kg	1.05		6.04		4.67		0.368		32.5		0.596		1.44		1.13		0.946		1.05		0.074	UJ
PCB 48	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.213		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 5	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 51	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	1.17		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 52	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 52/45	ug/kg	3.52		23.4		15.1		0.075	U	171		1.64		4.73	J-	4.27		2.91	J-	3.09		0.936	J-
PCB 53	ug/kg	0.038	U	1.44		0.646		0.037	U	3.92		0.037	U	0.427		0.428		0.037	U	0.037	U	0.037	UJ
PCB 56/60	ug/kg	0.825		2.53		2.82		0.632		19.3		0.487		0.794		0.803		0.530		0.578		0.074	UJ
PCB 6	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 63	ug/kg	0.451		0.784		1.14		0.366		5.04		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 63/121	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 64	ug/kg	0.038	U	3.74		1.83		0.037	U	11.8		0.471		1.11		0.968		0.689		0.756		0.037	UJ
PCB 66	ug/kg	4.61		10.8		15.1		1.93		122		0.991		1.97	J-	1.81		1.58	J-	1.78		0.817	J-
PCB 67/41/100	ug/kg	0.113	U	0.113	U	0.112	U	0.112	U	0.114	U	0.112	U	0.11	U	0.111	U	0.112	U	0.111	U	0.111	UJ
PCB 69	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 7	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 70	ug/kg	4.79		11.3		17.2		1.27		115		1.01		4.02	J-	3.36		0.851		0.884		0.199	J-
PCB 71	ug/kg	0.038	U	0.350		0.270		0.037	U	2.40		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 73	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	1.14		0.249		0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 74	ug/kg	3.66		8.91		13.5		1.75		91.0		0.628		1.36	J-	1.36		1.31	J-	1.56		0.601	J-
PCB 75	ug/kg	0.835		2.50		2.28		0.192		28.5		0.159		0.593		0.510		0.254		0.293		0.037	UJ
PCB 77	ug/kg	0.038	U	0.038	U	0.615		0.037	U	3.39		0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 78	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 8	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 82	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 83	ug/kg	1.54		3.60		3.30		0.511		33.3		0.513		0.951		0.882		0.600		0.707		0.184	J-
PCB 84	ug/kg	1.59		10.3		3.93		0.819		58.1		0.992		2.86	J-	2.60		0.940		1.16		0.037	UJ
PCB 85	ug/kg	4.13		15.6		13.9		1.40		153		2.17		2.61		2.45		2.73		3.22		1.13	J-
PCB 9	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	UJ
PCB 90/101	ug/kg	13.9		73.0		38.5		4.90		470		0.074	U	10.0	J-	7.97		9.01	J-	0.074	U	3.07	J-
PCB 91	ug/kg	1.21		6.51		3.40		0.454		46.5		0.658		1.78	J-	1.43		0.845		0.875		0.037	UJ
PCB 92	ug/kg	3.04		11.5		8.89		1.23		79.2		3.36		3.18	J-	2.91		2.35		2.77		1.18	J-
PCB 93	ug/kg	0.038	U	0.65		0.742		0.556		1.50		0.978		0.846		0.551		0.595		0.578		0.627	J-
PCB 95/155	ug/kg	7.76		31.0		18.4		2.13		242		2.90		7.22	J-	6.37		3.35	J-	3.75		1.10	J-
PCB 97	ug/kg	6.54		24.9		16.1		2.15		213		1.70		3.78	J-	3.39		1.97	J-	2.26		0.491	J-
PCB 99	ug/kg	13.5		45.9		36.4		6.49		341		4.06		5.54	J-	4.74		5.74	J-	6.52		2.24	J-

Notes:

Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection

NA = Not analyzed - Results for this congener or congener combination are not available due to coelution with another congener. In some cases, samples were diluted and reanalyzed so that congener concentration would be in the appropriate calibration range. If a congener was reanalyzed due to calibration range concentration, and that congener then coeluted with a congener that had an appropriate concentration in the initial calibration range, then both results were reported, but in that case, only the combined concentration was used to calculate the sum for total PCB concentration.

NS = Not summed for total PCBs. The result flagged NS is valid; however, during a dilution reanalysis to bring a higher concentration congener into the calibration range, the congener flagged NS coeluted with the higher concentration congener. The combined sum of the coeluting congeners was used in the sum of total PCBs. The result flagged NS is provided for information.

ug/kg = micrograms per kilogram

2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.

J = estimated value

J+ = estimated value that may be biased high

J- = estimated value that may be biased low

U = not detected

UJ = not detected; estimated value

Smallmouth Bass - PCB Congeners: Bradford Island

USACE Sample ID:		SB3013		SB3014		SB3015		SB3022		SB3023		SB3024		SB3025		SB3026		SB3027		SB3028		SB3029	
Lab Sample ID:		20H2701-08RE1/RE2		20H2701-07RE1		20H2701-04RE3/RE4		20I0302-06RE2/RE3		20I0302-01RE1		20I0302-05RE3/RE4		20I0302-04RE2/RE3/RE4		20I1004-01RE2/RE3		20I1004-02RE3/RE4		20I1004-03RE3/RE4		20I1004-04RE2/RE3/RE4	
Lab Sample Delivery Group:		20H2701		20H2701		20H2701		20I0302		20I0302		20I0302		20I0302		20I1004		20I1004		20I1004		20I1004	
Collection Area:		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	ug/kg	211		41.9		2248		574		7.37		6126		2113		747		758		601		3669	
PCB 10	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 103	ug/kg	0.036	U	0.037	U	0.037	U	0.065	J-	0.038	UJ	1.60		0.397	J-	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 104	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 105	ug/kg	9.04		1.49		NA		23.8	J-	0.075	UJ	NA		NA		60.4	J-	41.4	J-	29.5	J-	NA	
PCB 105/132	ug/kg	NA		NA		181		4.80	J-	0.038	UJ	371		144		NA		NA		NA		204	J-
PCB 107	ug/kg	0.855		0.037	U	5.42		22.4	J-	NA		59.9		14.0	J-	1.91	J-	2.57	J-	1.72	J-	5.60	J-
PCB 110	ug/kg	11.0		1.51		114		54.0		0.422	J-	442		130		48.3	J-	46.0	J-	39.9	J-	192	J-
PCB 114	ug/kg	0.290		0.080	J	2.67		12.2	J-	0.038	UJ	5.85		1.84	J-	0.880	J-	1.22	J-	1.19	J-	3.32	J-
PCB 115/87	ug/kg	5.14		0.719		58.4		3.06	J-	0.075	UJ	223		29.7	J-	12.6	J-	20.8	J-	19.8	J-	112	J-
PCB 117/81	ug/kg	1.43		0.285		10.3	U	NA		0.075	UJ	18.4		9.84	J-	4.96	J-	5.99	J-	3.22	J-	11.9	J-
PCB 118	ug/kg	31.4	J+	3.85		305		117		0.038	UJ	746		344		160	J-	99.8	J-	58.3	J-	315	J-
PCB 119	ug/kg	0.602		0.219		2.75		1.95	J-	0.038	UJ	14.4		8.13	J-	0.850	J-	1.11	J-	1.07	J-	2.74	J-
PCB 12	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 121	ug/kg	0.186		0.037	U	0.037	U	NA		NA		NA		NA		0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 123	ug/kg	0.036	U	0.037	U	5.26	J+	NA		NA		NA		NA		3.00	J-	3.15	J-	1.79	J-	6.75	J-
PCB 124	ug/kg	1.06		0.037	U	8.49		NA		NA		NA		NA		2.55	J-	2.95	J-	2.39	J-	7.79	J-
PCB 124/144	ug/kg	NA		NA		NA		0.731	J-	0.075	UJ	9.87		3.71	J-	NA		NA		NA		NA	
PCB 126/129/178	ug/kg	0.109	U	0.112	U	0.112	U	2.31	J-	0.113	UJ	19.0		9.37	J-	0.112	UJ	0.112	UJ	0.113	UJ	0.112	UJ
PCB 128/174/202	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 13	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 130	ug/kg	1.56		0.298		15.7		2.62	J-	0.038	UJ	19.2		9.84	J-	4.81	J-	6.12	J-	4.35	J-	18.1	J-
PCB 131/122/142	ug/kg	0.109	U	0.112	U	0.112	U	0.113	UJ	0.113	UJ	11.9		0.113	UJ	0.112	UJ	0.112	UJ	0.113	UJ	0.112	UJ
PCB 132	ug/kg	3.35		0.651		NA		NA		NA		NA		NA		6.85	J-	11.0	J-	13.3	J-	NA	
PCB 134	ug/kg	1.15		0.524		6.22		2.49	J-	0.038	UJ	12.2		4.55	J-	2.20	J-	3.05	J-	2.74	J-	9.40	J-
PCB 135	ug/kg	1.53		0.832		7.34		1.64	J-	0.038	UJ	13.6		5.37	J-	3.02	J-	3.72	J-	3.81	J-	15.0	J-
PCB 136	ug/kg	1.08		0.037	U	6.86		0.038	UJ	0.038	UJ	17.3		5.38	J-	2.73	J-	3.92	J-	3.52	J-	12.3	J-
PCB 137	ug/kg	3.05		0.573		32.4		5.1	J-	0.038	UJ	101		15.8	J-	9.99	J-	10.7	J-	6.72	J-	46.9	J-
PCB 138/163/164	ug/kg	22.2		3.73		267		40.2	J-	0.321	J-	678		271		104	J-	71.9	J-	49.7	J-	366	J-
PCB 14	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 141	ug/kg	2.31		0.446		14.9		NA		NA		NA		NA		5.68	J-	7.13	J-	7.70	J-	67.8	J-
PCB 141/179	ug/kg	NA		NA		NA		5.75	J-	0.075	UJ	101		14.8	J-	NA		NA		NA		NA	
PCB 144	ug/kg	0.794		0.151		5.76		NA		NA		NA		NA		1.76	J-	2.15	J-	2.12	J-	10.9	J-
PCB 146	ug/kg	3.76		0.665		32.3		7.22	J-	0.038	UJ	89.0		47.9		11.4	J-	12.7	J-	7.47	J-	57.5	J-
PCB 147	ug/kg	0.036	U	0.037	U	0.037	U	1.06	J-	0.038	UJ	7.70		3.41	J-	0.037	UJ	0.037	UJ	1.39	J-	0.037	UJ
PCB 149/123	ug/kg	NA		NA		NA		3.06	J-	0.075	UJ	14.9		5.27	J-	NA		NA		NA		NA	
PCB 149/82/165	ug/kg	6.70		1.24		57.9		NA		NA		NA		NA		14.6	J-	18.7	J-	22.8	J-	160	J-
PCB 15/17	ug/kg	0.073	U	0.074	U	2.27		0.589	J-	0.075	UJ	3.47		1.07	J-	0.468	J-	1.17	J-	1.04	J-	2.93	J-
PCB 151	ug/kg	2.72		0.670		17.3		3.61	J-	0.038	UJ	50.6		8.83	J-	4.18	J-	5.34	J-	4.81	J-	48.3	J-
PCB 153	ug/kg	0.036	U	0.037	U	0.037	U	46.0		0.038	UJ	335		133		0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 153/131	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 154	ug/kg	0.036	U	0.037	U	0.037	U	NA		0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 156	ug/kg	5.19		0.890		56.7		7.54	J-	0.038	UJ	156		77.6		17.9	J-	19.1	J-	11.3	J-	85.7	J-
PCB 157/201	ug/kg	1.53		0.505		9.95		0.076	UJ	0.075	UJ	0.075	U	6.67	J-	4.47	J-	4.81	J-	3.19	J-	15.0	J-
PCB 158	ug/kg	2.32		0.439		32.4		4.31	J-	0.038	UJ	82.8		12.4	J-	5.99	J-	8.25	J-	7.41	J-	37.5	J-
PCB 16	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.12	J-
PCB 165	ug/kg	NA		NA		NA		0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	6.85	J-	NA		NA		NA	
PCB 167	ug/kg	1.99		0.382		12.8		3.74	J-	0.038	UJ	17.9		11.4	J-	NA		6.89	J-	4.08	J-	19.6	J-
PCB 170/203	ug/kg	2.43		0.847		19.0		5.64	J-	0.634	J-	28.2		19.3	J-	7.14	J-	7.88	J-	5.59	J-	90.9	J-

Smallmouth Bass - PCB Congeners: Bradford Island

USACE Sample ID:		SB3013		SB3014		SB3015		SB3022		SB3023		SB3024		SB3025		SB3026		SB3027		SB3028		SB3029	
Lab Sample ID:		20H2701-08RE1/RE2		20H2701-07RE1		20H2701-04RE3/RE4		20I0302-06RE2/RE3		20I0302-01RE1		20I0302-05RE3/RE4		20I0302-04RE2/RE3/RE4		20I1004-01RE2/RE3		20I1004-02RE3/RE4		20I1004-03RE3/RE4		20I1004-04RE2/RE3/RE4	
Lab Sample Delivery Group:		20H2701		20H2701		20H2701		20I0302		20I0302		20I0302		20I0302		20I1004		20I1004		20I1004		20I1004	
Collection Area:		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	0.073	U	0.074	U	6.00		1.86	J-	0.075	UJ	0.075	U	5.52	J-	2.16	J-	8.19	J-	2.23	J-	19.4	J-
PCB 173	ug/kg	0.036	U	0.037	U	0.611		0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.316	J-	0.364	J-	0.306	J-	1.23	J-
PCB 174/128/202	ug/kg	6.03		1.34		77.4		10.4	J-	0.113	UJ	193.0		31.4	J-	14.7	J-	19.9	J-	20.8	J-	49.3	J-
PCB 175	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.515	J-	0.037	UJ	0.037	UJ	0.038	UJ	2.41	J-
PCB 176	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	10.9	J-	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 177	ug/kg	0.983		0.339		6.94		0.881	J-	0.038	UJ	4.52		3.76	J-	2.10	J-	2.67	J-	2.00	J-	44.6	J-
PCB 179	ug/kg	0.290		0.037	U	0.037	U	NA		NA		NA		NA		0.543	J-	0.037	UJ	0.038	UJ	5.10	J-
PCB 18	ug/kg	0.036	U	0.037	U	1.35		0.252	J-	0.038	UJ	2.51		0.601	J-	0.399	J-	0.784	J-	0.303	J-	1.94	J-
PCB 180	ug/kg	4.28		1.86		36.4		14.6	J-	0.038	UJ	107		81.1		12.9	J-	15.3	J-	8.62	J-	162	J-
PCB 183	ug/kg	1.09		0.417		6.68		2.92	J-	0.119	J-	12.1		9.06	J-	2.60	J-	2.92	J-	2.34	J-	46.7	J-
PCB 184	ug/kg	NA		NA		NA		0.076	UJ	0.075	UJ	0.075	U	2.28	J-	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 184/122	ug/kg	0.745		0.074	U	4.57		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 185	ug/kg	0.036	U	0.037	U	1.10		0.038	UJ	0.038	UJ	1.07		0.728	J-	0.360	J-	0.437	J-	0.364	J-	6.02	J-
PCB 187	ug/kg	2.10		0.780		11.4		2.25	J-	0.038	UJ	10.8		10.7	J-	5.23	J-	6.41	J-	3.27	J-	88.8	J-
PCB 189	ug/kg	0.294		0.037	U	1.04		0.430	J-	0.038	UJ	1.68		1.26	J-	0.635	J-	0.686	J-	0.485	J-	2.56	J-
PCB 19	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.224		0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 190	ug/kg	NA		NA		NA		1.17	J-	0.038	UJ	6.99		4.79	J-	NA		NA		NA		NA	
PCB 190/199	ug/kg	1.17		0.513		6.46		NA		NA		NA		NA		2.43	J-	2.92	J-	1.89	J-	30.2	J-
PCB 191	ug/kg	0.036	U	0.037	U	0.606		0.038	UJ	0.038	UJ	0.785		0.766	J-	0.392	J-	0.399	J-	0.291	J-	2.08	J-
PCB 192	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 193	ug/kg	0.270		0.208		1.19		0.587	J-	0.038	UJ	1.69		1.76	J-	0.653	J-	0.712	J-	0.453	J-	5.79	J-
PCB 194	ug/kg	0.455		0.276		2.44		1.03	J-	0.038	UJ	4.08		4.39	J-	1.02	J-	1.08	J-	0.710	J-	17.7	J-
PCB 195	ug/kg	0.324		0.223		1.28		0.489	J-	0.038	UJ	1.86		2.05	J-	0.615	J-	0.709	J-	0.476	J-	9.62	J-
PCB 196	ug/kg	0.368		0.037	U	1.81		0.495	J-	0.038	UJ	2.09		2.40	J-	0.736	J-	0.873	J-	0.522	J-	12.1	J-
PCB 197	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.915	J-
PCB 199	ug/kg	NA		NA		NA		0.837	J-	0.038	UJ	3.10		3.78	J-	NA		NA		NA		NA	
PCB 20	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 200	ug/kg	0.036	U	0.037	U	0.680		0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.377	J-	0.403	J-	0.416	J-	2.22	J-
PCB 205	ug/kg	0.036	U	0.037	U	0.037	U	0.223	J-	0.038	UJ	0.467		0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 206	ug/kg	0.313		0.236		1.34		0.422	J-	0.038	UJ	1.62		0.981	J-	0.503	J-	0.450	J-	0.390	J-	3.01	J-
PCB 207	ug/kg	0.036	U	0.037	U	0.350		0.038	UJ	0.038	UJ	0.037	U	0.198	J-	0.037	UJ	0.236	J-	0.038	UJ	0.745	J-
PCB 208	ug/kg	0.036	U	0.037	U	0.529		0.038	UJ	0.038	UJ	0.350		0.038	UJ	0.037	UJ	0.238	J-	0.038	UJ	1.01	J-
PCB 209	ug/kg	0.036	U	0.037	U	0.296		0.038	UJ	0.038	UJ	0.331		0.105	J-	0.037	UJ	0.232	J-	0.221	J-	0.334	J-
PCB 22	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 24/27	ug/kg	0.073	U	0.074	U	0.515		0.076	UJ	0.075	UJ	0.075	U	0.075	UJ	0.074	UJ	0.324	J-	0.075	UJ	0.727	J-
PCB 25/54	ug/kg	0.073	U	0.074	U	0.075	U	0.076	UJ	0.075	UJ	0.123	J	0.075	UJ	0.074	UJ	0.037	UJ	0.075	UJ	0.419	J-
PCB 26	ug/kg	0.036	U	0.037	U	0.620		0.038	UJ	0.038	UJ	0.888		0.170	J-	0.037	UJ	0.335	J-	0.038	UJ	1.02	J-
PCB 28/31	ug/kg	0.073	U	0.074	U	5.68		1.24	J-	0.075	UJ	5.60		1.87	J-	1.16	J-	1.78	J-	1.11	J-	3.94	J-
PCB 29	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 32	ug/kg	0.036	U	0.037	U	0.724		0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.381	J-	0.328	J-	1.00	J-
PCB 33	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 34	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 35	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 37/59	ug/kg	0.073	U	0.074	U	0.075	U	0.076	UJ	0.075	UJ	0.075	U	0.075	UJ	0.074	UJ	0.075	UJ	0.075	UJ	0.075	UJ
PCB 4	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 40	ug/kg	0.036	U	0.037	U	0.814		0.298	J-	0.038	UJ	2.24		0.657	J-	0.037	UJ	0.605	J-	0.038	UJ	1.71	J-
PCB 42	ug/kg	0.036	U	0.037	U	0.037	U	0.630	J-	0.038	UJ	0.037	U	1.09	J-	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 44	ug/kg	0.955		0.219		12.7		3.64	J-	0.038	UJ	41.7		6.71	J-	3.43	J-	8.54	J-	4.93	J-	37.0	J-
PCB 45	ug/kg	NA		NA		NA		0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	NA		NA		NA		NA	

Smallmouth Bass - PCB Congeners: Bradford Island

USACE Sample ID:		SB3013		SB3014		SB3015		SB3022		SB3023		SB3024		SB3025		SB3026		SB3027		SB3028		SB3029	
Lab Sample ID:		20H2701-08RE1/RE2		20H2701-07RE1		20H2701-04RE3/RE4		20I0302-06RE2/RE3		20I0302-01RE1		20I0302-05RE3/RE4		20I0302-04RE2/RE3/RE4		20I1004-01RE2/RE3		20I1004-02RE3/RE4		20I1004-03RE3/RE4		20I1004-04RE2/RE3/RE4	
Lab Sample Delivery Group:		20H2701		20H2701		20H2701		20I0302		20I0302		20I0302		20I0302		20I1004		20I1004		20I1004		20I1004	
Collection Area:		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.665		0.037	U	1.49		0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 47/49	ug/kg	1.66		0.074	U	11.5		4.72	J-	0.075	UJ	0.075	U	8.79	J-	3.55	J-	6.39	J-	5.14	J-	18.6	J-
PCB 48	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.435	J-
PCB 5	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.470		0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 51	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	1.29		0.446	J-	0.037	UJ	0.037	UJ	0.038	UJ	1.34	J-
PCB 52	ug/kg	NA		NA		NA		13.8	J-	0.038	UJ	184		55.0		NA		NA		NA		NA	
PCB 52/45	ug/kg	3.52		0.616		34.8		NA		NA		NA		NA		11.7	J-	22.3	J-	15.9	J-	123	J-
PCB 53	ug/kg	0.036	U	0.037	U	3.44		0.672	J-	0.038	UJ	4.62		1.69	J-	0.037	UJ	1.11	J-	1.44	J-	5.07	J-
PCB 56/60	ug/kg	0.974		0.421		8.06		1.52	J-	0.075	UJ	9.74		3.53	J-	1.74	J-	2.58	J-	1.92	J-	6.49	J-
PCB 6	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 63	ug/kg	0.346		0.037	U	1.75		NA		NA		NA		NA		0.806	J-	1.08	J-	0.589	J-	1.81	J-
PCB 63/121	ug/kg	NA		NA		NA		0.251	J-	0.075	UJ	2.66		1.12	J-	NA		NA		NA		NA	
PCB 64	ug/kg	0.845		0.037		5.16		3.00	J-	0.038	UJ	15.4		4.44	J-	1.75	J-	3.84	J-	2.64	J-	10.5	J-
PCB 66	ug/kg	3.07		0.697		46.1		8.15	J-	0.038	UJ	79.7		17.2	J-	9.92	J-	13.3	J-	8.63	J-	51.4	J-
PCB 67/41/100	ug/kg	0.109	U	0.112	U	0.112	U	0.113	UJ	0.113	UJ	1.15		0.113	UJ	0.112	UJ	0.112	UJ	0.113	UJ	0.112	UJ
PCB 69	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 7	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 70	ug/kg	2.37		0.625		56.5		6.01	J-	0.038	UJ	63.2		14.3	J-	10.0	J-	12.9	J-	9.42	J-	62.7	J-
PCB 71	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	1.60		0.430	J-	0.274	J-	0.358	J-	0.348	J-	1.06	J-
PCB 73	ug/kg	0.428		0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.279	J-
PCB 74	ug/kg	2.18		0.351		32.9		6.20	J-	0.038	UJ	62.3		14.7	J-	7.93	J-	10.2	J-	6.47	J-	37.9	J-
PCB 75	ug/kg	1.16		0.037	U	6.57		1.93	J-	0.038	UJ	9.56		3.59	J-	1.81	J-	2.51	J-	2.46	J-	7.53	J-
PCB 77	ug/kg	0.036	U	0.037	U	0.037		0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 78	ug/kg	0.036	U	0.037	U	0.037		0.038	UJ	0.038	UJ	0.037	U	2.18	J-	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 8	ug/kg	0.036	U	0.037	U	0.037		0.038	UJ	0.038	UJ	0.423		0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 82	ug/kg	NA		NA		NA		2.32	J-	0.038	UJ	18.8		6.81	J-	NA		NA		NA		NA	
PCB 83	ug/kg	1.14		0.286		9.58		1.55	J-	0.038	UJ	14.7		5.57	J-	2.76	J-	3.85	J-	3.41	J-	11.6	J-
PCB 84	ug/kg	1.86		0.037	U	16.8		4.16	J-	0.038	UJ	67.2		10.1	J-	3.98	J-	8.22	J-	8.55	J-	55.8	J-
PCB 85	ug/kg	3.67		0.633		54.6		7.34	J-	0.038	UJ	133		19.3	J-	9.93	J-	14.3	J-	13.7	J-	62.2	J-
PCB 9	ug/kg	0.036	U	0.037	U	0.037	U	0.038	UJ	0.038	UJ	0.037	U	0.038	UJ	0.037	UJ	0.037	UJ	0.038	UJ	0.037	UJ
PCB 90/101	ug/kg	13.9		2.20		127		26.3	J-	0.170	J-	496		155		25.6	J-	48.9	J-	43.8	J-	241	J-
PCB 91	ug/kg	1.41		0.206		11.2		3.40	J-	0.038	UJ	54.8		8.90	J-	3.50	J-	6.10	J-	5.84	J-	34.7	J-
PCB 92	ug/kg	4.56		1.40		25.5		6.04	J-	0.290	J-	95.5		13.7	J-	6.87	J-	9.54	J-	8.49	J-	45.1	J-
PCB 93	ug/kg	0.036	U	0.809		0.037	U	8.06	J-	0.038	UJ	34.8		17.1	J-	0.781	J-	0.882	J-	1.16	J-	1.44	J-
PCB 95/155	ug/kg	6.55		0.965		95.5		13.0	J-	0.227	J-	250		34.0	J-	17.6	J-	27.2	J-	26.5	J-	180	J-
PCB 97	ug/kg	5.32		0.656		86.5		8.08	J-	0.038	UJ	162		58.0		13.5	J-	19.4	J-	18.9	J-	89.3	J-
PCB 99	ug/kg	8.65		1.42		130		18.0	J-	0.038	UJ	304		117		47.7	J-	33.9	J-	39.2	J-	132	J-

Notes:

Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection

NA = Not analyzed - Results for this congener or congener combination are not available due to coelution with another congener. In some cases, samples were diluted and reanalyzed so that congener concentration would be in the appropriate calibration range. If a congener was reanalyzed due to calibration range concentration, and that congener then coeluted with a congener that had an appropriate concentration in the initial calibration range, then both results were reported, but in that case, only the combined concentration was used to calculate the sum for total PCB concentration.

NS = Not summed for total PCBs. The result flagged NS is valid; however, during a dilution reanalysis to bring a higher concentration congener into the calibration range, the congener flagged NS coeluted with the higher concentration congener. The combined sum of the coeluting congeners was used in the sum of total PCBs. The result flagged NS is provided for information.

ug/kg = micrograms per kilogram

2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.

J = estimated value

J+ = estimated value that may be biased high

J- = estimated value that may be biased low

U = not detected

UJ = not detected; estimated value

Smallmouth Bass - PCB Congeners: Bradford Island

USACE Sample ID:		SB3030		SB3031		SB3032		SB3032 FD		SB3033		SB3034		SB3035		SB3036		SB3037		SB3038		SB3039	
Lab Sample ID:		20I2304-07RE2		20I2304-08RE2/RE3		20I2304-09RE3/RE4		B21F073-DUP1/B21F113-DUP1		20I2304-10RE2/RE3		20I2304-11RE3/RE4		20I2304-12RE2		20I2304-13RE2/RE3		20I2304-14RE2		20I2304-15RE2		20I2304-16RE2/RE3	
Lab Sample Delivery Group:		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304	
Collection Area:		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	ug/kg	126		411		242		268		450		938		97.2		155		60.2		46.0		144	
PCB 10	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 103	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 104	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 105	ug/kg	5.35		16.8		7.84	J	11		19.4		43.2		3.50		6.69		1.86		0.932		4.12	
PCB 105/132	ug/kg	NA		NA		NA		NA		NA		2.45		NA		NA		NA		NA		NA	
PCB 107	ug/kg	0.390		0.952		0.732	J-	0.93		1.29		62.7		0.353		0.623		0.197		0.209		0.466	
PCB 110	ug/kg	6.47		53.7		3.39	J-	4.5		33.7		NA		4.09		1.47		2.19		1.55		3.86	
PCB 114	ug/kg	0.366		0.568		0.251	J-	0.3		0.604		1.64		0.226		0.161		0.208		0.198		0.248	
PCB 115/87	ug/kg	3.53		10.2		1.98	J-	2.4		8.40		39.0		2.13		1.02		1.36		1.03		2.04	
PCB 117/81	ug/kg	0.909		1.91		1.58	J-	1.9		2.40		4.81		0.962		0.075	U	0.684		0.560		1.11	
PCB 118	ug/kg	16.3		87.3		110	J+	94.4		103		88.4		18.8		60.4		7.50		2.50		38.3	
PCB 119	ug/kg	0.392		0.747		0.266	J-	0.33		0.872		1.63		0.313		0.294		0.326		0.267		0.486	
PCB 12	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 121	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 123	ug/kg	0.037	U	1.01		0.972	J-	NA		0.037	U	2.83		0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 124	ug/kg	0.037	U	1.21		0.661	J-	1.2		1.67		3.19		0.037	U	0.500		0.037	U	0.038	U	0.526	
PCB 124/144	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 126/129/178	ug/kg	0.112	U	0.111	U	0.113	UJ	0.82		0.111	U	0.112	U	0.111	U	0.113	U	0.112	U	0.113	U	0.112	U
PCB 128/174/202	ug/kg	NA		NA		NA		0.112	U	NA		NA		NA		NA		NA		NA		NA	
PCB 13	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 130	ug/kg	0.843		2.38		1.61	J-	2.1		3.06		7.09		0.716		1.10		0.464		0.364		0.818	
PCB 131/122/142	ug/kg	0.112	U	0.111	U	0.113	UJ	0.112	U	0.111	U	0.112	U	0.111	U	0.113	U	0.112	U	0.113	U	0.112	U
PCB 132	ug/kg	0.906		6.79		1.62	J-	2.0		6.16		55.7		0.760		0.535		0.667		0.641		1.20	
PCB 134	ug/kg	1.16		1.53		0.584	J-	0.76		1.76		4.44		0.796		0.500		0.890		1.25		0.987	
PCB 135	ug/kg	0.986		2.00		0.735	J-	0.94		2.22		5.82		0.875		0.527		0.730		0.038	U	0.971	
PCB 136	ug/kg	0.037	U	2.08		0.038	UJ	0.037	U	2.12		5.48		0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 137	ug/kg	1.58		3.42		3.64	J-	5.0		6.08		10.8		1.99		3.23		0.971		0.515		2.41	
PCB 138/163/164	ug/kg	15.9		34.3		21.4	J	30		47.0		74.5		10.6		14.4		5.95		4.10		12.5	
PCB 14	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 141	ug/kg	1.89		3.41		1.30	J-	1.7		3.56		11.4		0.948		0.552		0.677		0.038	U	1.06	
PCB 141/179	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 144	ug/kg	0.493		1.01		0.448	J-	0.56		1.13		2.89		0.339		0.307		0.306		0.237		0.338	
PCB 146	ug/kg	2.10		4.68		4.50	J-	5.9		7.12		13.5		2.18		3.80		1.15		0.844		3.15	
PCB 147	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 149/123	ug/kg	1.66		NA		NA		4.9		NA		NA		1.65		NA		NA		NA		NA	
PCB 149/82/165	ug/kg	NA		9.57		3.99	J-	NA		10.0		33.0		NA		1.80		1.25		2.11		2.09	
PCB 15/17	ug/kg	0.075	U	0.074	U	0.076	UJ	0.075	U	0.074	U	1.82		0.074	U	0.075	U	0.075	U	0.076	U	0.075	U
PCB 151	ug/kg	1.58		3.09		1.17	J-	1.5		3.31		8.69		0.960		0.535		0.640		0.746		0.948	
PCB 153	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 153/131	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 154	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 156	ug/kg	2.56		6.56		7.07	J	10		12.5		18.3		3.18		5.78		1.56		0.773		4.47	
PCB 157/201	ug/kg	1.16		1.96		1.94	J-	2.5		3.07		5.08		1.22		1.72		0.075	U	0.076	U	1.36	
PCB 158	ug/kg	1.92		3.65		2.06	J-	2.7		4.12		11.8		1.14		0.836		0.662		0.499		1.20	
PCB 16	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 165	ug/kg	NA		NA		NA		3.8		NA		NA		NA		NA		NA		NA		NA	
PCB 167	ug/kg	0.814		2.23		2.84	J-	3.9		4.50		7.07		0.037	U	2.49		0.699		0.386		2.03	
PCB 170/203	ug/kg	2.18		3.46		2.95	J-	1.2		4.54		8.02		1.50		2.34		1.01		0.923		2.02	

Smallmouth Bass - PCB Congeners: Bradford Island

USACE Sample ID:		SB3030		SB3031		SB3032		SB3032 FD		SB3033		SB3034		SB3035		SB3036		SB3037		SB3038		SB3039	
Lab Sample ID:		20I2304-07RE2		20I2304-08RE2/RE3		20I2304-09RE3/RE4		B21F073-DUP1/B21F113-DUP1		20I2304-10RE2/RE3		20I2304-11RE3/RE4		20I2304-12RE2		20I2304-13RE2/RE3		20I2304-14RE2		20I2304-15RE2		20I2304-16RE2/RE3	
Lab Sample Delivery Group:		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304	
Collection Area:		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	1.15		1.41		0.972	J-	0.27		1.52		2.78		0.673		0.716		0.545		0.582		0.770	
PCB 173	ug/kg	0.037	U	0.295		0.286	J-	5.5		0.348		0.375		0.037	U	0.270		0.253		0.038	U	0.282	
PCB 174/128/202	ug/kg	4.48		8.49		4.30	J-	NA		9.09		28.2		2.52		1.65		1.68		1.52		2.62	
PCB 175	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 176	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 177	ug/kg	0.657		1.24		0.989	J-	1.3		1.85		2.77		0.670		0.810		0.037	U	0.748		0.037	U
PCB 179	ug/kg	0.037	U	0.487		0.179	J-	0.23		0.424		1.09		0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 18	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.819		0.037	U	0.038	U	0.037	U	0.326		0.037	U
PCB 180	ug/kg	6.76		6.43		6.25	J	8.9		9.86		17.1		3.96		5.25		0.037	U	0.038	U	8.83	
PCB 183	ug/kg	1.16		1.68		1.13	J-	1.4		1.80		3.06		0.648		0.806		0.037	U	0.038	U	0.895	
PCB 184	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 184/122	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 185	ug/kg	0.297		0.361		0.292	J-	0.32		0.382		0.527		0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 187	ug/kg	1.80		2.62		2.55	J-	3.4		3.91		6.04		1.39		2.27		1.06		1.39		3.59	
PCB 189	ug/kg	0.320		0.394		0.437	J-	0.50		0.526		0.704		0.311		0.383		0.037	U	0.038	U	0.385	
PCB 19	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 190	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 190/199	ug/kg	1.13		1.48		1.38	J-	1.7		1.82		2.57		0.834		1.07		0.684		0.076	U	1.36	
PCB 191	ug/kg	0.037	U	0.278		0.265	J-	0.30		0.306		0.407		0.037	U	0.265		0.037	U	0.038	U	0.037	U
PCB 192	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 193	ug/kg	0.336		0.408		0.401	J-	0.48		0.521		0.770		0.260		0.380		0.247		0.217		0.445	
PCB 194	ug/kg	0.610		0.682		0.677	J-	0.81		0.796		1.10		0.389		0.526		0.342		0.038	U	0.702	
PCB 195	ug/kg	0.405		0.420		0.384	J-	0.43		0.475		0.593		0.266		0.330		0.252		0.266		0.435	
PCB 196	ug/kg	0.435		0.491		0.466	J-	0.54		0.582		0.730		0.497		0.401		0.317		0.038	U	0.580	
PCB 197	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 199	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 20	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 200	ug/kg	0.423		0.375		0.339	J-	0.36		0.415		0.422		0.338		0.322		0.373		0.426		0.390	
PCB 205	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 206	ug/kg	0.387		0.362		0.372	J-	0.42		0.416		0.425		0.283		0.297		0.268		0.302		0.396	
PCB 207	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 208	ug/kg	0.194		0.159		0.165	J-	0.19		0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 209	ug/kg	0.037	U	0.037	U	0.165	J-	0.18		0.037	U	0.174		0.037	U	0.171		0.037	U	0.038	U	0.214	
PCB 22	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 24/27	ug/kg	0.075	U	0.074	U	0.038	UJ	0.075	U	0.074	U	0.599		0.074	U	0.075	U	0.075	U	0.076	U	0.075	U
PCB 25/54	ug/kg	0.075	U	0.074	U	0.038	UJ	0.075	U	0.074	U	0.074	U	0.074	U	0.075	U	0.075	U	0.076	U	0.075	U
PCB 26	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.341		0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 28/31	ug/kg	0.075	U	0.646		0.754	J-	1.0		0.775		1.87		0.074	U	0.345		0.717		1.02		0.075	U
PCB 29	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 32	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.499		0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 33	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 34	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 35	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 37/59	ug/kg	0.075	U	0.074	U	0.076	UJ	0.075	U	0.074	U	0.074	U	0.074	U	0.075	U	0.075	U	0.076	U	0.075	U
PCB 4	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 40	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.724		0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 42	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 44	ug/kg	0.464		3.36		0.300	J-	0.35		1.96		9.13		0.514		0.264		0.439		0.533		0.544	
PCB 45	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Smallmouth Bass - PCB Congeners: Bradford Island

USACE Sample ID:		SB3030		SB3031		SB3032		SB3032 FD		SB3033		SB3034		SB3035		SB3036		SB3037		SB3038		SB3039	
Lab Sample ID:		20I2304-07RE2		20I2304-08RE2/RE3		20I2304-09RE3/RE4		B21F073-DUP1/B21F113-DUP1		20I2304-10RE2/RE3		20I2304-11RE3/RE4		20I2304-12RE2		20I2304-13RE2/RE3		20I2304-14RE2		20I2304-15RE2		20I2304-16RE2/RE3	
Lab Sample Delivery Group:		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304		20I2304	
Collection Area:		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island		Bradford Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 47/49	ug/kg	0.804		2.28		0.369	J-	0.47		1.73		7.00		0.499		0.329		0.609		0.783		0.546	
PCB 48	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 5	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 51	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 52	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 52/45	ug/kg	1.83		8.18		0.778	J-	0.93		5.27		25.3		0.074	U	0.699		1.09		1.07		1.31	
PCB 53	ug/kg	0.037	U	0.429		0.038	UJ	0.037	U	0.037	U	1.70		0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 56/60	ug/kg	0.075	U	1.43		0.748	J-	0.80		1.32		3.22		0.074	U	0.645		0.658		0.743		0.682	
PCB 6	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 63	ug/kg	0.037	U	0.512		0.318	J-	0.39		0.621		0.981		0.037	U	0.395		0.037	U	0.038	U	0.037	U
PCB 63/121	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 64	ug/kg	0.796		1.56		0.038	UJ	0.037	U	1.10		4.21		0.563		0.038	U	0.658		0.038	U	0.037	U
PCB 66	ug/kg	1.37		4.22		1.81	J-	2.3		5.25		13.9		1.12		2.46		0.962		1.10		1.78	
PCB 67/41/100	ug/kg	0.112	U	0.111	U	0.113	UJ	0.112	U	0.111	U	0.112	U	0.111	U	0.113	U	0.112	U	0.113	U	0.112	U
PCB 69	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 7	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 70	ug/kg	0.037	U	5.54		1.28	J-	1.7		5.50		14.0		0.611		1.03		0.671		0.801		1.23	
PCB 71	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.525		0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 73	ug/kg	0.241		0.037	U	0.038	UJ	0.037	U	0.302		0.218		0.037	U	0.126		0.200		0.306		0.230	
PCB 74	ug/kg	1.11		3.47		1.37	J-	1.9		4.40		11.5		0.997		2.15		0.665		0.439		1.51	
PCB 75	ug/kg	0.582		0.770		0.293	J-	0.35		1.09		3.27		0.307		0.198		0.326		0.525		0.406	
PCB 77	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.700		0.604		0.340		0.037	U	0.038	U	0.909	
PCB 78	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 8	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 82	ug/kg	NA		NA		NA		NA		NA		NA		NA		0.386		NA		0.457		0.592	
PCB 83	ug/kg	0.551		1.67		0.571	J-	0.73		1.65		5.04		0.462		NA		0.409		0.038	U	1.20	
PCB 84	ug/kg	0.037	U	5.09		0.595	J-	0.72		3.86		15.2		0.037	U	0.511		0.037	U	0.670		1.31	
PCB 85	ug/kg	2.68		5.78		1.81	J-	2.3		5.68		16.3		1.46		0.728		0.945		NA		NA	
PCB 9	ug/kg	0.037	U	0.037	U	0.038	UJ	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U
PCB 90/101	ug/kg	7.25		22.4		6.23	J-	7.7		21.3		65.5		4.41		3.46		3.38		2.10		4.46	
PCB 91	ug/kg	0.515		2.91		0.508	J-	0.64		2.88		10.0		0.397		0.275		0.415		0.347		1.56	
PCB 92	ug/kg	2.59		4.79		1.52	J-	2.0		5.40		17.0		2.50		1.04		2.32		1.20		2.70	
PCB 93	ug/kg	1.13		0.641		0.333	J-	0.44		0.940		0.999		0.912		0.541		0.893		0.949		1.11	
PCB 95/155	ug/kg	2.64		13.3		2.23	J-	2.9		10.9		40.1		1.75		1.25		1.27		1.23		2.26	
PCB 97	ug/kg	1.11		8.90		2.94	J-	3.8		8.52		23.9		1.09		1.15		0.721		0.670		1.76	
PCB 99	ug/kg	5.29		16.7		7.55	J-	10		28.8		36.1		3.78		6.77		2.04		1.47		4.75	

Notes:

Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection

NA = Not analyzed - Results for this congener or congener combination are not available due to coelution with another congener. In some cases, samples were diluted and reanalyzed so that congener concentration would be in the appropriate calibration range. If a congener was reanalyzed due to calibration range concentration, and that congener then coeluted with a congener that had an appropriate concentration in the initial calibration range, then both results were reported, but in that case, only the combined concentration was used to calculate the sum for total PCB concentration.

NS = Not summed for total PCBs. The result flagged NS is valid; however, during a dilution reanalysis to bring a higher concentration congener into the calibration range, the congener flagged NS coeluted with the higher concentration congener. The combined sum of the coeluting congeners was used in the sum of total PCBs. The result flagged NS is provided for information.

ug/kg = micrograms per kilogram

2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.

J = estimated value

J+ = estimated value that may be biased high

J- = estimated value that may be biased low

U = not detected

UJ = not detected; estimated value

Smallmouth Bass - PCB Congeners: Goose Island

USACE Sample ID:		SB1019		SB1020		SB1021		SB1022		SB1022 FD		SB1023		SB1024		SB1025		SB1026		SB3002		SB3003		SB3003 FD	
Lab Sample ID:		20H2601-26RE2/RE3		20H2701-03RE1		20H2701-06RE1		20H2701-05		B21F071-DUP2		20I0303-01RE1		20I0303-02RE1		20I0303-03RE1		20I0303-04RE1		20H2601-12RE1		20H2601-13RE1		B21F034-DUP1	
Lab Sample Delivery Group:		20H2601		20H2701		20H2701		20H2701		20H2701		20I0302		20I0303		20I0303		20I0303		20H2601		20H2601		20H2601	
Collection Area:		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	ug/kg	591		16.3		37.1		64.8		54.1		7.68		6.90		5.64		8.23		33.9		22.8		23.4	
PCB 10	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 103	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 104	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 105	ug/kg	15.3		0.482		1.02		1.74		1.81		NA		NA		0.075	U	NA		0.784		0.542		0.570	
PCB 105/132	ug/kg	NA		NA		NA		NA		NA		0.074	UJ	0.074	U	NA		0.687		NA		NA		NA	
PCB 107	ug/kg	0.790		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.147		0.037	U	0.037	U
PCB 110	ug/kg	33.7		0.357		1.10		1.19		1.35		0.037	UJ	0.402		0.038	U	0.344		1.06		0.037	U	0.423	
PCB 114	ug/kg	1.51		0.037	U	0.038	U	0.122	J-	0.135		0.037	UJ	0.037	U	0.038	U	0.037	U	0.139		0.037	U	0.037	U
PCB 115/87	ug/kg	10.3		0.075	U	0.076	U	0.642		0.656		0.074	UJ	0.074	U	0.075	U	0.074	U	0.473		0.074	U	0.075	U
PCB 117/81	ug/kg	3.20		0.075	U	0.076	U	0.289		0.301		0.074	UJ	0.074	U	0.075	U	0.074	U	0.245	J	0.074	U	0.075	U
PCB 118	ug/kg	51.7		1.16		2.43		5.15	J-	5.62		0.037	UJ	0.037	U	0.038	U	0.037	U	1.85		1.66	J-	1.62	
PCB 119	ug/kg	1.47		0.248		0.279		0.260	J-	0.241		0.037	UJ	0.037	U	0.038	U	0.037	U	0.362		0.086		0.037	U
PCB 12	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 121	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	NA		NA		NA		NA		0.038	U	0.037	U	0.037	U
PCB 123	ug/kg	1.18	J	0.037	U	0.038	U	0.037	U	0.037	U	NA		NA		NA		NA		0.038	U	0.037	U	0.037	U
PCB 124	ug/kg	1.37		0.037	U	0.038	U	0.037	U	0.037	U	NA		NA		NA		NA		0.038	U	0.037	U	0.037	U
PCB 124/144	ug/kg	NA		NA		NA		NA		NA		0.074	UJ	0.074	U	0.075	U	0.074	U	NA		NA		NA	
PCB 126/129/178	ug/kg	0.113	U	0.112	U	0.114	U	0.112	U	0.112	U	0.112	UJ	0.111	U	0.113	U	0.111	U	0.113	U	0.111	U	0.112	U
PCB 128/174/202	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 13	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 130	ug/kg	1.37		0.154		0.232		0.406		0.367		0.037	UJ	0.037	U	0.038	U	0.037	U	0.216		0.212		0.189	
PCB 131/122/142	ug/kg	0.113	U	0.112	U	0.114	U	0.112	U	0.112	U	0.112	UJ	0.111	U	0.113	U	0.111	U	0.113	U	0.111	U	0.112	U
PCB 132	ug/kg	3.30		0.037	U	0.038	U	0.037	U	0.037	U	NA		NA		NA		NA		0.439		0.037	U	0.037	U
PCB 134	ug/kg	1.33		0.317		1.00		1.57		0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.870		0.639		0.560	
PCB 135	ug/kg	2.41		0.037	U	1.04		0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.846		0.037	U	0.037	U
PCB 136	ug/kg	1.42		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 137	ug/kg	1.61		0.213		0.421		1.10		1.30		0.037	UJ	0.037	U	0.038	U	0.037	U	0.499		0.290		0.263	
PCB 138/163/164	ug/kg	16.7		1.55		3.79		10.8	J-	11.4		0.112	UJ	0.111	U	0.113	U	0.111	U	3.23		2.41		2.41	
PCB 14	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 141	ug/kg	2.44		0.037	U	0.507		0.037	U	0.726		NA		NA		NA		NA		0.474		0.037	U	0.037	U
PCB 141/179	ug/kg	NA		NA		NA		NA		NA		0.074	UJ	0.074	U	0.075	U	0.436		NA		NA		NA	
PCB 144	ug/kg	0.757		0.136		0.195		0.216		0.252		NA		NA		NA		NA		0.163		0.037	U	0.037	U
PCB 146	ug/kg	3.19		0.324		0.649		1.03		1.07		0.037	UJ	0.037	U	0.038	U	0.037	U	0.655		0.497		0.486	
PCB 147	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 149/123	ug/kg	NA		NA		NA		NA		NA		0.074	UJ	0.074	U	0.075	U	0.074	U	NA		NA		NA	
PCB 149/82/165	ug/kg	12.1		0.531		0.880		1.32		0.112	U	NA		NA		NA		NA		1.01		0.575		0.468	
PCB 15/17	ug/kg	0.258		0.075	U	0.076	U	0.075	U	0.075	U	0.074	UJ	0.074	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 151	ug/kg	3.15		0.843		1.55		1.79	J-	0.715		0.037	UJ	0.037	U	0.038	U	0.037	U	0.541		0.255		0.189	
PCB 153	ug/kg	NA		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	NA		NA		NA	
PCB 153/131	ug/kg	0.075	U	NA		NA		NA		NA		NA		NA		NA		NA		0.075	U	0.074	U	0.075	U
PCB 154	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 156	ug/kg	2.48		0.465		0.655		1.80		1.82		0.564	J-	0.037	U	0.038	U	0.037	U	0.601		0.566		0.626	
PCB 157/201	ug/kg	1.07		0.075		0.076	U	0.825		0.801		0.074	UJ	0.074	U	0.075	U	0.074	U	0.492		0.074	U	0.075	U
PCB 158	ug/kg	1.88		0.218		0.458		1.45		1.51		0.037	UJ	0.037	U	0.038	U	0.037	U	0.398		0.296		0.302	
PCB 16	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 165	ug/kg	NA		NA		NA		NA		NA		0.037	UJ	0.037	U	0.038	U	0.037	U	NA		NA		NA	
PCB 167	ug/kg	0.997		0.037	U	0.038	U	0.479		0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.302		0.308		0.317	
PCB 170/203	ug/kg	3.47		0.547		1.04		2.03		2.17		0.074	UJ	0.074	U	0.075	U	0.074	U	0.914		0.797		0.907	

Smallmouth Bass - PCB Congeners: Goose Island

USACE Sample ID:		SB1019		SB1020		SB1021		SB1022		SB1022 FD		SB1023		SB1024		SB1025		SB1026		SB3002		SB3003		SB3003 FD	
Lab Sample ID:		20H2601-26RE2/RE3		20H2701-03RE1		20H2701-06RE1		20H2701-05		B21F071-DUP2		20I0303-01RE1		20I0303-02RE1		20I0303-03RE1		20I0303-04RE1		20H2601-12RE1		20H2601-13RE1		B21F034-DUP1	
Lab Sample Delivery Group:		20H2601		20H2701		20H2701		20H2701		20H2701		20I0302		20I0303		20I0303		20I0303		20H2601		20H2601		20H2601	
Collection Area:		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	1.58		0.075	U	0.628		1.06		1.13		0.074	UJ	0.074	U	0.075	U	0.074	U	0.483		0.074	U	0.075	U
PCB 173	ug/kg	0.278		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.225		0.037	U	0.037	
PCB 174/128/202	ug/kg	6.27		0.112	U	1.41		3.26		3.60		0.112	UJ	0.111	U	0.113	U	0.111	U	1.24		0.111	U	0.112	U
PCB 175	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 176	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.440		0.037	U	0.037	U
PCB 177	ug/kg	2.16		0.037	U	0.038	U	0.557		0.631		0.037	UJ	0.037	U	0.038	U	0.037	U	0.462		0.037	U	0.037	U
PCB 179	ug/kg	0.965		0.037	U	0.038	U	0.037	U	0.037	U	NA		NA		NA		NA		0.038	U	0.037	U	0.037	U
PCB 18	ug/kg	0.507		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 180	ug/kg	8.62		0.915		4.34		7.33	J-	0.037	U	0.753	J-	0.630		0.038	U	0.485		0.038	U	2.42		2.84	
PCB 183	ug/kg	1.97		0.103	J	0.481		0.719		0.852		0.037	UJ	0.037	U	0.038	U	0.037	U	0.802		0.651		0.672	
PCB 184	ug/kg	NA		NA		NA		NA		NA		0.074	UJ	0.074	U	0.075	U	0.074	U	NA		NA		NA	
PCB 184/122	ug/kg	0.075	U	0.075	U	0.076	U	0.075	U	0.075	U	NA		NA		NA		NA		0.075	U	0.074	U	0.075	U
PCB 185	ug/kg	0.439		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 187	ug/kg	4.71		0.037	U	1.02		1.40		1.47		0.037	UJ	0.037	U	0.038	U	0.616		0.986		0.816		0.759	
PCB 189	ug/kg	0.335		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 19	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 190	ug/kg	NA		NA		NA		NA		NA		0.037	UJ	0.037	U	0.038	U	0.037	U	NA		NA		NA	
PCB 190/199	ug/kg	2.33		0.075	U	0.746		1.05		1.08		NA		NA		NA		NA		0.075	U	0.551		0.593	
PCB 191	ug/kg	0.233		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 192	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 193	ug/kg	0.492		0.181		0.205		0.282		0.325		0.037	UJ	0.037	U	0.038	U	0.037	U	0.201		0.204		0.214	
PCB 194	ug/kg	1.82		0.037	U	0.338		0.455		0.486		0.037	UJ	0.037	U	0.038	U	0.037	U	0.358		0.284		0.296	
PCB 195	ug/kg	0.770		0.205		0.316		0.372		0.403		0.037	UJ	0.037	U	0.038	U	0.037	U	0.253		0.228		0.256	
PCB 196	ug/kg	0.811		0.037	U	0.305		0.401		0.467		0.037	UJ	0.037	U	0.038	U	0.037	U	0.247		0.210		0.262	
PCB 197	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 199	ug/kg	NA		NA		NA		NA		NA		0.037	UJ	0.037	U	0.038	U	0.037	U	NA		NA		NA	
PCB 20	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 200	ug/kg	0.038	U	0.037	U	0.237		0.449		0.434		0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 205	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 206	ug/kg	0.632		0.037	U	0.264		0.337		0.348		0.037	UJ	0.037	U	0.038	U	0.037	U	0.257		0.246		0.248	
PCB 207	ug/kg	0.254		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 208	ug/kg	0.283		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 209	ug/kg	0.038	U	0.037	U	0.038	U	0.247		0.226		0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.188		0.228	
PCB 22	ug/kg	0.898		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 24/27	ug/kg	0.075	U	0.075	U	0.076	U	0.075	U	0.075	U	0.074	UJ	0.074	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 25/54	ug/kg	2.19		0.075	U	0.076	U	0.075	U	0.075	U	0.074	UJ	0.074	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 26	ug/kg	1.70		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 28/31	ug/kg	13.6		0.075	U	0.076	U	0.075	U	0.075	U	0.074	UJ	0.074	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 29	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 32	ug/kg	0.316		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 33	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 34	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 35	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 37/59	ug/kg	2.80		0.075	U	0.076	U	0.075	U	0.075	U	0.074	UJ	0.074	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 4	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 40	ug/kg	1.56		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 42	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 44	ug/kg	11.9		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 45	ug/kg	NA		NA		NA		NA		NA		0.037	UJ	0.037	U	0.038	U	0.037	U	NA		NA		NA	

Smallmouth Bass - PCB Congeners: Goose Island

USACE Sample ID:		SB1019		SB1020		SB1021		SB1022		SB1022 FD		SB1023		SB1024		SB1025		SB1026		SB3002		SB3003		SB3003 FD	
Lab Sample ID:		20H2601-26RE2/RE3		20H2701-03RE1		20H2701-06RE1		20H2701-05		B21F071-DUP2		20I0303-01RE1		20I0303-02RE1		20I0303-03RE1		20I0303-04RE1		20H2601-12RE1		20H2601-13RE1		B21F034-DUP1	
Lab Sample Delivery Group:		20H2601		20H2701		20H2701		20H2701		20H2701		20I0302		20I0303		20I0303		20I0303		20H2601		20H2601		20H2601	
Collection Area:		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 47/49	ug/kg	24.2		0.075	U	0.076	U	0.075	U	0.075	U	0.074	UJ	0.074	U	0.075	U	0.074	U	0.391		0.074	U	0.075	U
PCB 48	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 5	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 51	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 52	ug/kg	NA		NA		NA		NA		NA		0.037	UJ	0.037	U	0.038	U	0.037	U	NA		NA		NA	
PCB 52/45	ug/kg	30.1		0.075	U	0.076	U	0.576		0.449		NA		NA		NA		NA		0.573		0.257		0.289	
PCB 53	ug/kg	0.841		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 56/60	ug/kg	15.7		0.075	U	0.076	U	0.075	U	0.075	U	0.074	UJ	0.074	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 6	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 63	ug/kg	3.38		0.037	U	0.038	U	0.037	U	0.037	U	NA		NA		NA		NA		0.038	U	0.037	U	0.037	U
PCB 63/121	ug/kg	NA		NA		NA		NA		NA		0.074	UJ	0.074	U	0.075	U	0.074	U	NA		NA		NA	
PCB 64	ug/kg	14.6		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 66	ug/kg	55.3		0.254		0.633		0.676		0.607		0.037	UJ	0.037	U	0.038	U	0.037	U	0.616		0.420		0.403	
PCB 67/41/100	ug/kg	0.113	U	0.112	U	0.114	U	0.112	U	0.112	U	0.112	UJ	0.111	U	0.113	U	0.111	U	0.113	U	0.111	U	0.112	U
PCB 69	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 7	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 70	ug/kg	16.2		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.198		0.197	
PCB 71	ug/kg	0.73		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 73	ug/kg	0.449		0.037	U	0.038	U	0.424		0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.165		0.037	U	0.037	U
PCB 74	ug/kg	29.5		0.037	U	0.277		0.309		0.291		0.037	UJ	0.037	U	0.038	U	0.037	U	0.304		0.185		0.241	
PCB 75	ug/kg	19.3		0.037	U	0.245		0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.290		0.037	U	0.037	U
PCB 77	ug/kg	2.20		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 78	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 8	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 82	ug/kg	NA		NA		NA		NA		NA		0.037	UJ	0.037	U	0.038	U	0.037	U	NA		NA		NA	
PCB 83	ug/kg	3.21		0.037	U	0.340		0.688		0.607		0.037	UJ	0.037	U	0.038	U	0.037	U	0.362		0.261		0.250	
PCB 84	ug/kg	5.42		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 85	ug/kg	10.8		0.037	U	0.652		1.08		0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.566		0.037	U	0.037	U
PCB 9	ug/kg	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 90/101	ug/kg	28.8		0.757		1.82		2.11	J-	2.04		0.188	J-	0.074	U	0.075	U	0.472		1.81		0.915	J-	0.812	
PCB 91	ug/kg	7.23		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 92	ug/kg	9.00		1.08		0.038	U	0.037	UJ	0.037	U	0.667	J-	0.466		0.038	U	0.037	U	0.038	U	0.037	U	0.037	U
PCB 93	ug/kg	1.35		0.037	U	0.038	U	0.037	U	0.037	U	0.037	UJ	0.037	U	0.038	U	0.037	U	1.01		0.825		0.619	
PCB 95/155	ug/kg	18.7		0.227	J	0.607		0.850		0.826		0.101	J-	0.074	U	0.075	U	0.074	U	0.614		0.208	J	0.192	J
PCB 97	ug/kg	12.8		0.269		0.038	U	0.455		0.037	U	0.037	UJ	0.037	U	0.038	U	0.050	J	0.352		0.037	U	0.037	U
PCB 99	ug/kg	28.3		0.402		1.17		2.21	J-	1.93		0.188	J-	0.037	U	0.038	U	0.037	U	0.909		0.634		0.647	

Notes:

Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection

NA = Not analyzed - Results for this congener or congener combination are not available due to coelution with another congener. In some cases, samples were diluted and reanalyzed so that congener concentration would be in the appropriate calibration range. If a congener was reanalyzed due to calibration range concentration, and that congener then coeluted with a congener that had an appropriate concentration in the initial calibration range, then both results were reported, but in that case, only the combined concentration was used to calculate the sum for total PCB concentration.

ug/kg = micrograms per kilogram

2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.

J = estimated value

J- = estimated value that may be biased low

U = not detected

UJ = not detected; estimated value

Smallmouth Bass - PCB Congeners: Goose Island

USACE Sample ID:		SB3004		SB3010		SB3011		SB3012		SB3012 FD		SB3016		SB3017		SB3018		SB3019		SB3020		SB3021	
Lab Sample ID:		20H2601-14RE1		20H2601-34RE1		20H2601-35RE1		20H2601-36RE1		B21F079-DUP1		20I0303-05RE1		20I0303-06RE1		20I0303-07RE1		20I0303-08RE1		20I0303-09RE1		20I0303-10RE1	
Lab Sample Delivery Group:		20H2601		20H2601		20H2601		20H2601		20I0302/20I0303		20I0303		20I0303		20I0303		20I0303		20I0303		20I0303	
Collection Area:		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	ug/kg	30.0		11.8		12.0		8.03		6.58		18.2		8.49		7.32		6.09		34.2		18.8	
PCB 10	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 103	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 104	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 105	ug/kg	0.793		0.037	U	0.038	U	0.667		0.299	J-	NA		NA		NA		NA		NA		NA	
PCB 105/132	ug/kg	NA		NA		NA		NA		NA		1.38		0.600	J-	0.635		0.074	U	1.84		1.17	
PCB 107	ug/kg	0.114	J	0.037	U	0.038	U	0.038	U	0.038	UJ	0.075	J	0.037	UJ	0.038	U	0.037	U	0.136		0.038	U
PCB 110	ug/kg	1.11		0.037	U	0.038	U	0.038	U	0.038	UJ	0.252		0.296	J-	0.077	J	0.037	U	0.977		0.468	
PCB 114	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 115/87	ug/kg	0.075	U	0.073	U	0.075	U	0.076	U	0.076	UJ	0.567		0.075	UJ	0.075	U	0.074	U	0.746		0.359	
PCB 117/81	ug/kg	0.075	U	0.073	U	0.075	U	0.076	U	0.076	UJ	0.075	U	0.075	UJ	0.075	U	0.074	U	0.075	U	0.076	U
PCB 118	ug/kg	2.04		0.796		0.736		0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	3.93		0.038	U
PCB 119	ug/kg	0.291		0.321		0.432		0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 12	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 121	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	NA		NA		NA		NA		NA		NA		NA	
PCB 123	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	NA		NA		NA		NA		NA		NA		NA	
PCB 124	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.076	UJ	NA		NA		NA		NA		NA		NA	
PCB 124/144	ug/kg	NA		NA		NA		NA		NA		0.075	U	0.075	UJ	0.075	U	0.074	U	0.075	U	0.076	U
PCB 126/129/178	ug/kg	0.114	U	0.11	U	0.113	U	0.114	U	0.114	UJ	0.113	U	0.112	UJ	0.113	U	0.112	U	0.112	U	0.113	U
PCB 128/174/202	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 13	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 130	ug/kg	0.218		0.119	J	0.139		0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 131/122/142	ug/kg	0.113	U	0.11	U	0.113	U	0.114	U	0.114	UJ	0.113	U	0.112	UJ	0.113	U	0.112	U	0.112	U	0.113	U
PCB 132	ug/kg	0.589		0.037	U	0.038	U	0.272		NA		NA		NA		NA		NA		NA		NA	
PCB 134	ug/kg	0.648		0.364		0.370		0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 135	ug/kg	0.860		0.501		0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 136	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 137	ug/kg	0.038	U	0.256		0.300		0.038	U	0.038	UJ	0.425		0.196	J-	0.038	U	0.037	U	0.486		0.267	
PCB 138/163/164	ug/kg	2.95		1.38		1.36		0.114	U	0.114	UJ	2.51		0.112	UJ	0.113	U	0.112	U	3.73		2.61	
PCB 14	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 141	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.076	UJ	NA		NA		NA		NA		NA		NA	
PCB 141/179	ug/kg	NA		NA		NA		NA		NA		0.664		0.388	J-	0.339		0.074	U	0.673		0.713	
PCB 144	ug/kg	0.160		0.037	U	0.133		0.038	U	NA		NA		NA		NA		NA		NA		NA	
PCB 146	ug/kg	0.565		0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.608		0.445	
PCB 147	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 149/123	ug/kg	NA		NA		NA		NA		NA		0.075	U	0.075	UJ	0.075	U	0.074	U	0.075	U	0.076	U
PCB 149/82/165	ug/kg	0.930		0.383		0.454		0.114	U	0.076	UJ	NA		NA		NA		NA		NA		NA	
PCB 15/17	ug/kg	0.075		0.073	U	0.075	U	0.076	U	0.076	UJ	0.075	U	0.075	UJ	0.075	U	0.074	U	0.075	U	0.076	U
PCB 151	ug/kg	0.382		0.197		0.206		0.038	U	0.038	UJ	0.091	J	0.037	UJ	0.038	U	0.037	U	0.168		0.261	
PCB 153	ug/kg	NA		NA		NA		NA		NA		2.01		0.037	UJ	0.457		0.037	U	3.25		0.038	U
PCB 153/131	ug/kg	0.075	U	0.073	U	0.075	U	0.076	U	0.038	UJ	NA		NA		NA		NA		NA		NA	
PCB 154	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 156	ug/kg	0.684		0.037	U	0.038	U	0.038	U	0.038	UJ	0.116	J	0.037	UJ	0.038	U	0.037	U	0.404		0.038	U
PCB 157/201	ug/kg	0.489		0.073	U	0.075	U	0.076	U	0.076	UJ	0.075	U	0.075	UJ	0.075	U	0.074	U	0.075	U	0.076	U
PCB 158	ug/kg	0.354		0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.104	J
PCB 16	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 165	ug/kg	NA		NA		NA		NA		0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 167	ug/kg	0.337		0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 170/203	ug/kg	0.781		0.561		0.531		0.076	U	0.076	UJ	0.075	U	0.075	UJ	0.075	U	0.074	U	0.318		0.355	

Smallmouth Bass - PCB Congeners: Goose Island

USACE Sample ID:		SB3004		SB3010		SB3011		SB3012		SB3012 FD		SB3016		SB3017		SB3018		SB3019		SB3020		SB3021	
Lab Sample ID:		20H2601-14RE1		20H2601-34RE1		20H2601-35RE1		20H2601-36RE1		B21F079-DUP1		20I0303-05RE1		20I0303-06RE1		20I0303-07RE1		20I0303-08RE1		20I0303-09RE1		20I0303-10RE1	
Lab Sample Delivery Group:		20H2601		20H2601		20H2601		20H2601		20I0302/20I0303		20I0303		20I0303		20I0303		20I0303		20I0303		20I0303	
Collection Area:		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	0.413		0.073	U	0.075	U	0.076	U	0.076	UJ	0.075	U	0.075	UJ	0.075	U	0.172	J	0.075	U	0.076	U
PCB 173	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 174/128/202	ug/kg	1.10		0.11	U	0.113	U	0.114	U	0.114	UJ	0.113	U	0.112	UJ	0.113	U	0.112	U	1.70		1.56	
PCB 175	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 176	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 177	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	1.08		0.038	U
PCB 179	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	NA		NA		NA		NA		NA		NA		NA	
PCB 18	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 180	ug/kg	2.06		1.15		1.05		1.20		0.531	J-	1.12		0.751	J-	0.038	U	0.356		1.19		0.038	U
PCB 183	ug/kg	0.665		0.037	U	0.038	U	0.038	U	0.038	UJ	0.566		0.411	J-	0.038	U	0.037	U	0.379		0.578	
PCB 184	ug/kg	NA		NA		NA		NA		NA		0.075	U	0.075	UJ	0.075	U	0.074	U	0.075	U	0.076	U
PCB 184/122	ug/kg	0.075	U	0.073	U	0.075	U	0.076	U	0.076	UJ	NA		NA		NA		NA		NA		NA	
PCB 185	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 187	ug/kg	0.912		0.037	U	0.429		0.340		0.038	UJ	0.361		0.646		0.038	U	0.189		0.862		0.859	
PCB 189	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 19	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 190	ug/kg	NA		NA		NA		NA		NA		0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 190/199	ug/kg	0.075	U	0.073	U	0.075	U	0.076	U	0.038	UJ	NA		NA		NA		NA		NA		NA	
PCB 191	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 192	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 193	ug/kg	0.195		0.175		0.175		0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.046	J
PCB 194	ug/kg	0.297		0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.247		0.038	U
PCB 195	ug/kg	0.218		0.219		0.255		0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 196	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 197	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 199	ug/kg	NA		NA		NA		NA		0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 20	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 200	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 205	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 206	ug/kg	0.248		0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 207	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 208	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 209	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 22	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 24/27	ug/kg	0.075	U	0.073	U	0.075	U	0.076	U	0.076	UJ	0.075	U	0.075	UJ	0.075	U	0.074	U	0.075	U	0.076	U
PCB 25/54	ug/kg	0.075	U	0.073	U	0.075	U	0.076	U	0.076	UJ	0.075	U	0.075	UJ	0.075	U	0.074	U	0.075	U	0.076	U
PCB 26	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 28/31	ug/kg	0.075	U	0.073	U	0.075	U	0.076	U	0.076	UJ	0.075	U	0.075	UJ	0.075	U	0.074	U	0.075	U	0.076	U
PCB 29	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 32	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 33	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 34	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 35	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 37/59	ug/kg	0.075	U	0.073	U	0.075	U	0.076	U	0.076	UJ	0.075	U	0.075	UJ	0.075	U	0.074	U	0.075	U	0.076	U
PCB 4	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 40	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 42	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 44	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 45	ug/kg	NA		NA		NA		NA		0.243	J-	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U

Smallmouth Bass - PCB Congeners: Goose Island

USACE Sample ID:		SB3004		SB3010		SB3011		SB3012		SB3012 FD		SB3016		SB3017		SB3018		SB3019		SB3020		SB3021	
Lab Sample ID:		20H2601-14RE1		20H2601-34RE1		20H2601-35RE1		20H2601-36RE1		B21F079-DUP1		20I0303-05RE1		20I0303-06RE1		20I0303-07RE1		20I0303-08RE1		20I0303-09RE1		20I0303-10RE1	
Lab Sample Delivery Group:		20H2601		20H2601		20H2601		20H2601		20I0302/20I0303		20I0303		20I0303		20I0303		20I0303		20I0303		20I0303	
Collection Area:		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island		Goose Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 47/49	ug/kg	0.075	U	0.073	U	0.075	U	0.076	U	0.076	UJ	0.075	U	0.075	UJ	0.075	U	0.074	U	0.075	U	0.076	U
PCB 48	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 5	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 51	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 52	ug/kg	NA		NA		NA		NA				0.344		0.037	UJ	0.038	U	0.037	U	0.359		0.397	
PCB 52/45	ug/kg	0.516		0.073	U	0.075	U	0.076	U	0.038	UJ	NA		NA		NA		NA		NA		NA	
PCB 53	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 56/60	ug/kg	0.075	U	0.073	U	0.075	U	0.076	U	0.076	UJ	0.075	U	0.075	UJ	0.075	U	0.074	U	0.075	U	0.076	U
PCB 6	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 63	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.076	UJ	NA		NA		NA		NA		NA		NA	
PCB 63/121	ug/kg	NA		NA		NA		NA		NA		0.075	U	0.075	UJ	0.075	U	0.074	U	0.075	U	0.076	U
PCB 64	ug/kg	0.038	U	0.037	U	0.038	U	0.038		0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 66	ug/kg	0.397		0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.439	
PCB 67/41/100	ug/kg	0.113	U	0.11	U	0.113	U	0.114	U	0.114	UJ	0.113	U	0.112	UJ	0.113	U	0.112	U	0.112	U	0.113	U
PCB 69	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 7	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 70	ug/kg	0.302		0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.288		0.169	
PCB 71	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 73	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 74	ug/kg	0.201		0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 75	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 77	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 78	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 8	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 82	ug/kg	NA		NA		NA		NA		0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 83	ug/kg	0.324		0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 84	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.181		0.038	U
PCB 85	ug/kg	0.531		0.037	U	0.038	U	0.038	U	0.038	UJ	0.348		0.037	UJ	0.038	U	0.037	U	0.386		0.278	
PCB 9	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.037	U	0.038	U
PCB 90/101	ug/kg	1.70		0.558		0.547		0.076	U	0.076	UJ	0.836		0.075	UJ	0.075	U	0.074	U	2.91		0.763	
PCB 91	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.100	J	0.038	U
PCB 92	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.657		0.037	UJ	0.440		0.037	U	1.00		1.29	
PCB 93	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.110	J	0.150	
PCB 95/155	ug/kg	0.618		0.073	U	0.075	U	0.076	U	0.076	UJ	0.118	J	0.075	UJ	0.075	U	0.074	U	0.338		0.209	J
PCB 97	ug/kg	0.423		0.037	U	0.038	U	0.038	U	0.038	UJ	0.038	U	0.037	UJ	0.038	U	0.037	U	0.401		0.054	J
PCB 99	ug/kg	0.844		0.037	U	0.038	U	0.038	U	0.038	UJ	1.08		0.037	UJ	0.038	U	0.037	U	1.37		0.851	

Notes:

Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection

NA = Not analyzed - Results for this congener or congener combination are not available due to coelution with another congener. In some cases, samples were diluted and reanalyzed so that congener concentration would be in the appropriate calibration range. If a congener was reanalyzed due to calibration range concentration, and that congener then coeluted with a congener that had an appropriate concentration in the initial calibration range, then both results were reported, but in that case, only the combined concentration was used to calculate the sum for total PCB concentration.

ug/kg = micrograms per kilogram

2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.

J = estimated value

J- = estimated value that may be biased low

U = not detected

UJ = not detected; estimated value

Smallmouth Bass - PCB Congeners: Reference Area

USACE Sample ID:		SB1003		SB1004		SB1005		SB1006		SB1007		SB1008		SB1008 FD		SB1009		SB1010		SB1011		SB1012	
Lab Sample ID:		20H2601-03RE1		20H2601-04RE2/RE3		20H2601-05RE1		20H2601-06RE1		20H2601-07RE1		20H2601-15RE1		B21F034-DUP2		20H2601-16RE1		20H2601-17RE1		20H2601-18RE1		20H2601-19RE1	
Lab Sample Delivery Group:		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601	
Collection Area:		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	ug/kg	85.5		344		11.1		13.9		15.2		15.8		14.8		16.2		14.4		15.0		11.6	
PCB 10	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 103	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 104	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 105	ug/kg	2.71		14.2		0.037	U	0.334		0.338		0.461	J-	0.427		0.400		0.339	J-	0.316		0.231	
PCB 105/132	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 107	ug/kg	0.301		0.88		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.083	J	0.116	J-	0.037	U	0.037	U
PCB 110	ug/kg	2.38		33.0		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 114	ug/kg	0.201		0.583		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 115/87	ug/kg	1.55		10.2		0.073	U	0.074	U	0.074	U	0.075	UJ	0.075	U	0.075	U	0.075	UJ	0.075	U	0.074	U
PCB 117/81	ug/kg	0.075	U	1.67		0.073	U	0.074	U	0.074	U	0.075	UJ	0.075	U	0.075	U	0.075	UJ	0.075	U	0.074	U
PCB 118	ug/kg	9.54		51.7		0.719		0.913		1.07		1.06	J-	0.913		1.00		0.852	J-	0.799		0.541	
PCB 119	ug/kg	0.226		0.589		0.037	U	0.206		0.037	U	0.227	J-	0.184		0.184		0.037	UJ	0.201		0.079	J
PCB 12	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 121	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 123	ug/kg	0.037	U	0.997	J+	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 124	ug/kg	0.037	U	1.57		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 124/144	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 126/129/178	ug/kg	0.112	U	0.111	U	0.11	U	0.112	U	0.111	U	0.112	UJ	0.112	U	0.114	U	0.114	UJ	0.114	U	0.111	U
PCB 128/174/202	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 13	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 130	ug/kg	0.707		2.44		0.037	U	0.037	U	0.171		0.125	J-	0.161		0.162		0.150	J-	0.136		0.129	
PCB 131/122/142	ug/kg	0.112	U	0.111	U	0.11	U	0.112	U	0.111	U	0.112	UJ	0.112	U	0.113	U	0.112	UJ	0.112	U	0.112	U
PCB 132	ug/kg	1.45		7.02		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 134	ug/kg	1.12		1.59		0.301		0.404		0.377		0.471	J-	0.463		0.355		0.318	J-	0.327		0.216	
PCB 135	ug/kg	1.29		2.37		0.037	U	0.037	U	0.529		0.038	UJ	0.037	U	0.521		0.538	J-	0.447		0.037	U
PCB 136	ug/kg	0.037	U	2.12		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 137	ug/kg	1.53		3.27		0.037	U	0.037	U	0.037	U	0.218	J-	0.206		0.235		0.220	J-	0.213		0.037	U
PCB 138/163/164	ug/kg	11.8		30.6		1.19		1.50		1.53		1.82	J-	1.71		1.63		1.46	J-	1.27		0.988	
PCB 14	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 141	ug/kg	1.14		3.39		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 141/179	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 144	ug/kg	0.419		1.18		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.129		0.116	J-	0.037	U	0.037	U
PCB 146	ug/kg	1.87		3.68		0.037	U	0.037	U	0.407		0.358	J-	0.339		0.356		0.341	J-	0.340		0.246	
PCB 147	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 149/123	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 149/82/165	ug/kg	2.59		12.4		0.11	U	0.112	U	0.529		0.591	J-	0.439		0.598		0.530	J-	0.455		0.371	J
PCB 15/17	ug/kg	0.075	U	0.074	U	0.073	U	0.074	U	0.074	U	0.075	UJ	0.075	U	0.075	U	0.075	UJ	0.075	U	0.074	U
PCB 151	ug/kg	0.037	U	2.53		0.037	U	0.037	U	0.230		0.251	J-	0.253		0.234		0.195	J-	0.199		0.037	U
PCB 153	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 153/131	ug/kg	0.075	U	0.074	U	0.073	U	0.074	U	0.074	U	0.075	UJ	0.075	U	0.075	U	0.075	UJ	0.438		0.486	
PCB 154	ug/kg	0.037	U	0.586		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 156	ug/kg	2.49		5.15		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.384		0.037	U
PCB 157/201	ug/kg	0.956		1.72		0.073	U	0.074	U	0.074	U	0.075	UJ	0.075	U	0.075	U	0.075	UJ	0.075	U	0.074	U
PCB 158	ug/kg	1.33		3.43		0.037	U	0.184		0.204		0.240	J-	0.213		0.231		0.206	J-	0.037	U	0.037	U
PCB 16	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 165	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 167	ug/kg	1.04		2.07		0.037	U	0.037	U	0.250		0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 170/203	ug/kg	2.05		2.9		0.534		0.596		0.605		0.633	J-	0.612		0.605		0.567	J-	0.583		0.483	
PCB 171/172	ug/kg	0.606		1.22		0.073	U	0.074	U	0.281		0.075	UJ	0.075	U	0.275		0.075	UJ	0.075	U	0.074	U

Smallmouth Bass - PCB Congeners: Reference Area

USACE Sample ID:		SB1003		SB1004		SB1005		SB1006		SB1007		SB1008		SB1008 FD		SB1009		SB1010		SB1011		SB1012	
Lab Sample ID:		20H2601-03RE1		20H2601-04RE2/RE3		20H2601-05RE1		20H2601-06RE1		20H2601-07RE1		20H2601-15RE1		B21F034-DUP2		20H2601-16RE1		20H2601-17RE1		20H2601-18RE1		20H2601-19RE1	
Lab Sample Delivery Group:		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601	
Collection Area:		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 173	ug/kg	0.037	U	0.351		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 174/128/202	ug/kg	3.30		8.65		0.11	U	0.602		0.581		0.112	UJ	0.112	U	0.688		0.624	J-	0.584		0.497	
PCB 175	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 176	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 177	ug/kg	0.616		1.13		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 179	ug/kg	0.037	U	0.469		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 18	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 180	ug/kg	6.67		4.1		0.934		1.24		0.037	U	1.62	J-	1.65		1.10		1.08	J-	0.912		0.678	
PCB 183	ug/kg	1.42		1.46		0.037	U	0.453		0.435		0.516	J-	0.503		0.377		0.345	J-	0.328		0.240	
PCB 184	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 184/122	ug/kg	0.075	U	0.074	U	0.073	U	0.074	U	0.074	U	0.075	UJ	0.075	U	0.075	U	0.075	UJ	0.075	U	0.074	U
PCB 185	ug/kg	0.037	U	0.274		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 187	ug/kg	2.12		1.88		0.545		0.601		0.732		0.597	J-	0.562		0.562		0.564	J-	0.579		0.425	
PCB 189	ug/kg	0.278		0.325		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 19	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 190	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 190/199	ug/kg	1.10		1.29		0.073	U	0.074	U	0.481		0.075	UJ	0.075	U	0.075	U	0.075	UJ	0.355		0.334	
PCB 191	ug/kg	0.037	U	0.205		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 192	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 193	ug/kg	0.334		0.278		0.037	U	0.037	U	0.174		0.180	J-	0.180		0.177		0.171	J-	0.171		0.183	
PCB 194	ug/kg	0.727		0.621		0.241		0.223		0.239		0.038	UJ	0.037	U	0.038	U	0.198	J-	0.209		0.189	
PCB 195	ug/kg	0.443		0.36		0.037	U	0.225		0.233		0.199	J-	0.254		0.203		0.192	J-	0.201		0.189	
PCB 196	ug/kg	0.434		0.343		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 197	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.237		0.037	U
PCB 199	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 20	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 200	ug/kg	0.037	U	0.427		0.388		0.359		0.331		0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 205	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 206	ug/kg	0.372		0.318		0.220		0.234		0.224		0.232	J-	0.037	U	0.224		0.037	UJ	0.235		0.037	U
PCB 207	ug/kg	0.037	U	0.208		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 208	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 209	ug/kg	0.248		0.168		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.155		0.037	U
PCB 22	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 24/27	ug/kg	0.075	U	0.074	U	0.073	U	0.074	U	0.074	U	0.075	UJ	0.075	U	0.075	U	0.075	UJ	0.075	U	0.074	U
PCB 25/54	ug/kg	0.075	U	0.074	U	0.073	U	0.074	U	0.074	U	0.075	UJ	0.075	U	0.075	U	0.075	UJ	0.075	U	0.074	U
PCB 26	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 28/31	ug/kg	0.075	U	0.391		0.073	U	0.074	U	0.074	U	0.075	UJ	0.075	U	0.649		0.075	UJ	0.075	U	0.074	U
PCB 29	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 32	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 33	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 34	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 35	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 37/59	ug/kg	0.075	U	0.074	U	0.073	U	0.074	U	0.074	U	0.075	UJ	0.075	U	0.075	U	0.075	UJ	0.075	U	0.074	U
PCB 4	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 40	ug/kg	0.037	U	0.274		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 42	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 44	ug/kg	0.155		2.74		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 45	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 46	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 47/49	ug/kg	0.268		2.11		0.073	U	0.074	U	0.074	U	0.075	UJ	0.075	U	0.075	U	0.075	UJ	0.075	U	0.074	U

Smallmouth Bass - PCB Congeners: Reference Area

USACE Sample ID:		SB1003		SB1004		SB1005		SB1006		SB1007		SB1008		SB1008 FD		SB1009		SB1010		SB1011		SB1012	
Lab Sample ID:		20H2601-03RE1		20H2601-04RE2/RE3		20H2601-05RE1		20H2601-06RE1		20H2601-07RE1		20H2601-15RE1		B21F034-DUP2		20H2601-16RE1		20H2601-17RE1		20H2601-18RE1		20H2601-19RE1	
Lab Sample Delivery Group:		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601	
Collection Area:		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 48	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 5	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 51	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 52	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 52/45	ug/kg	0.586		7.07		0.073	U	0.074	U	0.074	U	0.075	UJ	0.075	U	0.075	U	0.075	UJ	0.075	U	0.074	U
PCB 53	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 56/60	ug/kg	0.407		1.4		0.073	U	0.074	U	0.074	U	0.075	UJ	0.075	U	0.075	U	0.075	UJ	0.075	U	0.074	U
PCB 6	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 63	ug/kg	0.037	U	0.374		0.215		0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 63/121	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 64	ug/kg	0.496		1.46		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 66	ug/kg	0.766		4.26		0.203		0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.170		0.146	
PCB 67/41/100	ug/kg	0.112	U	0.111	U	0.11	U	0.112	U	0.111	U	0.112	UJ	0.112	U	0.113	U	0.112	UJ	0.112	U	0.112	U
PCB 69	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 7	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 70	ug/kg	0.333		6.17		0.118	J	0.147		0.113	J	0.038	UJ	0.037	U	0.038	U	0.120	J-	0.037	U	0.063	J
PCB 71	ug/kg	0.037	U	0.203		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 73	ug/kg	0.037	U	0.037	U	0.116	J	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 74	ug/kg	0.474		3.09		0.107	J	0.115	J	0.131		0.038	UJ	0.037	U	0.038	U	0.126	J-	0.037	U	0.037	U
PCB 75	ug/kg	0.217		0.617		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 77	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 78	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 8	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 82	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 83	ug/kg	0.037	U	1.92		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.132		0.037	U
PCB 84	ug/kg	0.037	U	5.12		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 85	ug/kg	1.51		5.63		0.037	U	0.274		0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 9	ug/kg	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 90/101	ug/kg	4.39		23.3		0.475		0.641		0.693		0.795	J-	0.632		0.717		0.620	J-	0.442		0.395	
PCB 91	ug/kg	0.037	U	3.49		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 92	ug/kg	0.037	U	4.52		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 93	ug/kg	0.037	U	0.737		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 95/155	ug/kg	1.35		15.2		0.073	U	0.115	J	0.121	J	0.188	J-	0.169	J	0.181	J	0.130	J-	0.075	U	0.074	U
PCB 97	ug/kg	1.01		9.35		0.037	U	0.037	U	0.037	U	0.038	UJ	0.037	U	0.038	U	0.037	UJ	0.037	U	0.037	U
PCB 99	ug/kg	3.04		14.4		0.037	U	0.037	U	0.037	U	0.371	J-	0.390		0.038	U	0.037	UJ	0.037	U	0.141	

Notes:

Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection

NA = Not analyzed - Results for this congener or congener combination are not available due to coelution with another congener. In some cases, samples were diluted and reanalyzed so that congener concentration would be in the appropriate calibration range. If a congener was reanalyzed due to calibration range concentration, and that congener then coeluted with a congener that had an appropriate concentration in the initial calibration range, then both results were reported, but in that case, only the combined concentration was used to calculate the sum for total PCB concentration.

ug/kg = micrograms per kilogram

2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.

J = estimated value

J+ = estimated value that may be biased high

J- = estimated value that may be biased low

U = not detected

UJ = not detected; estimated value

Smallmouth Bass - PCB Congeners: Reference Area

USACE Sample ID:		SB1013		SB1014		SB1015		SB1016		SB1017		SB1018		SB2001		SB2002		SB2003		SB3007		SB3007 FD	
Lab Sample ID:		20H2601-20RE2/RE3		20H2601-21RE1		20H2601-22RE1		20H2601-23RE1		20H2601-24RE1		20H2601-25RE1		20H2601-08RE2		20H2601-09RE2		20H2601-10RE1		20H2601-31RE2/RE3		B21F034-DUP4/B21F082-DUP1	
Lab Sample Delivery Group:		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601	
Collection Area:		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	ug/kg	854		11.6		14.0		11.6		12.8		12.0		15.6		14.9		12.6		618		390	
PCB 10	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 103	ug/kg	0.149		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 104	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 105	ug/kg	163		0.289		0.316		0.038	U	0.037	U	0.037	U	0.429		0.063	U	0.304		84.0		16.2	
PCB 105/132	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 107	ug/kg	2.38		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	1.38		1.08	
PCB 110	ug/kg	41.3		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.337		0.063	U	0.038	U	51.6		46.4	
PCB 114	ug/kg	0.764		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.938		0.734	
PCB 115/87	ug/kg	13.7		0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	17.9		12.3	
PCB 117/81	ug/kg	4.86		0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	1.96	J-	1.56	
PCB 118	ug/kg	124		0.681		0.638		0.647		0.757		0.827		0.698		0.499		0.673		66.8		61.9	
PCB 119	ug/kg	0.753		0.164		0.308		0.528		0.147		0.191		0.329		0.481		0.262		0.926	J-	0.591	
PCB 12	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 121	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 123	ug/kg	2.50	J+	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	1.17	J	0.922	J
PCB 124	ug/kg	3.15		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	1.43	J	1.11	
PCB 124/144	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 126/129/178	ug/kg	0.114	U	0.11	U	0.114	U	0.113	U	0.112	U	0.112	U	0.186	U	0.19	U	0.113	U	0.112	U	0.111	U
PCB 128/174/202	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 13	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 130	ug/kg	6.01		0.130		0.141		0.137		0.149		0.118	J	0.062	U	0.063	U	0.038	U	3.64	J+	2.77	
PCB 131/122/142	ug/kg	0.113	U	0.11	U	0.113	U	0.113	U	0.112	U	0.112	U	0.186	U	0.19	U	0.113	U	0.112		0.111	U
PCB 132	ug/kg	9.97		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	12.5		9.48	
PCB 134	ug/kg	2.33		0.239		0.338		0.318		0.420		0.356		0.062	U	0.367		0.280		2.45	J	1.88	
PCB 135	ug/kg	3.04		0.395		0.426		0.646		0.522		0.037	U	0.062	U	0.310		0.394		3.94	J+	3.04	
PCB 136	ug/kg	2.77		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	3.16	J-	2.24	
PCB 137	ug/kg	9.31		0.037	U	0.191		0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	4.78	J	3.67	
PCB 138/163/164	ug/kg	95.8		1.08		1.26		1.18		1.45		1.43		1.42		1.34		1.22		52.4		35.8	
PCB 14	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 141	ug/kg	5.27		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.274		0.265		0.038	U	6.48	J	4.81	
PCB 141/179	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 144	ug/kg	1.83		0.037	U	0.038	U	0.038	U	0.128		0.037	U	0.062	U	0.063	U	0.038	U	1.70		1.31	
PCB 146	ug/kg	12.0		0.266		0.292		0.038	U	0.324		0.037	U	0.272		0.063	U	0.301		5.96	J	4.16	
PCB 147	ug/kg	2.23		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.254		0.063	U	0.038	U	0.037	U	0.037	U
PCB 149/123	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 149/82/165	ug/kg	20.3		0.446		0.432		0.527		0.494		0.526		0.676		0.19	U	0.075	U	20.1	J	14.6	
PCB 15/17	ug/kg	0.076	U	0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	0.461	J	0.074	U
PCB 151	ug/kg	4.48		0.165		0.038	U	0.038	U	0.037	U	0.037	U	0.243		0.275		0.038	U	4.38	J-	2.99	
PCB 153	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 153/131	ug/kg	0.076	U	0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	0.075	U	0.074	U
PCB 154	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	1.08	J-	0.037	U
PCB 156	ug/kg	16.8		0.334		0.038	U	0.404		0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	8.67		6.44	
PCB 157/201	ug/kg	4.52		0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	2.53	J-	1.90	
PCB 158	ug/kg	8.19		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.238		5.92	J	4.27	
PCB 16	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 165	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 167	ug/kg	6.33		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	3.01	J+	2.23	
PCB 170/203	ug/kg	7.63		0.482		0.547		0.516		0.537		0.596		0.775		0.778		0.548		4.32	J-	3.41	
PCB 171/172	ug/kg	2.32		0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	1.53		1.53	

Smallmouth Bass - PCB Congeners: Reference Area

USACE Sample ID:		SB1013		SB1014		SB1015		SB1016		SB1017		SB1018		SB2001		SB2002		SB2003		SB3007		SB3007 FD	
Lab Sample ID:		20H2601-20RE2/RE3		20H2601-21RE1		20H2601-22RE1		20H2601-23RE1		20H2601-24RE1		20H2601-25RE1		20H2601-08RE2		20H2601-09RE2		20H2601-10RE1		20H2601-31RE2/RE3		B21F034-DUP4/B21F082-DUP1	
Lab Sample Delivery Group:		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601	
Collection Area:		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 173	ug/kg	0.402		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.294		0.255	
PCB 174/128/202	ug/kg	19.8		0.11	U	0.113	U	0.113	U	0.112	U	0.112	U	0.186	U	0.19	U	0.113	U	16.0	J	12.7	
PCB 175	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 176	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.256		0.037	U	0.037	U
PCB 177	ug/kg	3.17		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.250		1.81		1.34	
PCB 179	ug/kg	0.632		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.785	J	0.606	
PCB 18	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.210	J	0.037	U
PCB 180	ug/kg	13.3		0.037	U	0.940		0.038	U	0.037	U	1.07		0.062	U	0.063	U	0.877		7.02	J	5.43	
PCB 183	ug/kg	3.61		0.244		0.351		0.038	U	0.037	U	0.037	U	0.062	U	0.374		0.315		2.19	J	1.67	
PCB 184	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 184/122	ug/kg	0.076	U	0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	1.27	J	0.074	U
PCB 185	ug/kg	0.492		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.339	J	0.296	
PCB 187	ug/kg	6.28		0.470		0.485		0.427		0.562		0.666		0.062	U	0.389		0.505		2.81	J+	2.13	
PCB 189	ug/kg	0.623		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.389	J	0.380	
PCB 19	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 190	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 190/199	ug/kg	2.87		0.073	U	0.365		0.075	U	0.375		0.074	U	0.124	U	0.127	U	0.075	U	1.74	J	1.36	
PCB 191	ug/kg	0.383		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.284	J-	0.215	
PCB 192	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 193	ug/kg	0.678		0.037	U	0.178		0.168		0.171		0.181		0.062	U	0.063	U	0.038	U	0.413	J	0.342	
PCB 194	ug/kg	1.67		0.037	U	0.211		0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.791	J	0.602	
PCB 195	ug/kg	0.695		0.194		0.217		0.038	U	0.223		0.209		0.062	U	0.063	U	0.228		0.391	J	0.407	
PCB 196	ug/kg	0.796		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.433	J	0.448	
PCB 197	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.449	
PCB 199	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 20	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 200	ug/kg	0.441		0.037	U	0.255		0.444		0.245		0.373		0.062	U	0.063	U	0.038	U	0.272	J	0.037	U
PCB 205	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 206	ug/kg	0.536		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.354	J	0.308	
PCB 207	ug/kg	0.228		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 208	ug/kg	0.244		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 209	ug/kg	0.194		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.177	J	0.186	
PCB 22	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 24/27	ug/kg	0.076	U	0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	0.075	U	0.074	U
PCB 25/54	ug/kg	0.076	U	0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	0.075	U	0.074	U
PCB 26	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 28/31	ug/kg	1.01		0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	0.680	J	0.074	U
PCB 29	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 32	ug/kg	0.107	J	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 33	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 34	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 35	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.200	J	0.244		0.038	U	0.037	U	0.037	U
PCB 37/59	ug/kg	0.076	U	0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	0.075	U	0.074	U
PCB 4	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 40	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.489	J-	0.037	U
PCB 42	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 44	ug/kg	3.62		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.372		0.375		0.038	U	5.20	J-	3.06	
PCB 45	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 46	ug/kg	0.240		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.526	J-	0.037	U
PCB 47/49	ug/kg	3.11		0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	3.57	J	2.49	

Smallmouth Bass - PCB Congeners: Reference Area

USACE Sample ID:		SB1013		SB1014		SB1015		SB1016		SB1017		SB1018		SB2001		SB2002		SB2003		SB3007		SB3007 FD	
Lab Sample ID:		20H2601-20RE2/RE3		20H2601-21RE1		20H2601-22RE1		20H2601-23RE1		20H2601-24RE1		20H2601-25RE1		20H2601-08RE2		20H2601-09RE2		20H2601-10RE1		20H2601-31RE2/RE3		B21F034-DUP4/B21F082-DUP1	
Lab Sample Delivery Group:		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601		20H2601	
Collection Area:		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area		Reference Area	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 48	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 5	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 51	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 52	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 52/45	ug/kg	10.3		0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	12.8	J	8.08	
PCB 53	ug/kg	0.238		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.481	J	0.369	
PCB 56/60	ug/kg	2.23		0.073	U	0.075	U	0.075	U	0.075	U	0.074	U	0.124	U	0.127	U	0.075	U	1.14	J-	0.825	
PCB 6	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 63	ug/kg	0.673		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.501	J	0.318	
PCB 63/121	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 64	ug/kg	1.82		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	2.45	J-	0.037	U
PCB 66	ug/kg	10.1		0.037	U	0.186		0.038	U	0.196		0.037	U	0.332		0.063	U	0.203		5.65	J	0.037	U
PCB 67/41/100	ug/kg	0.113	U	0.11	U	0.113	U	0.113	U	0.112	U	0.112	U	0.186	U	0.19	U	0.113	U	0.112	U	0.111	U
PCB 69	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 7	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	UJ	0.037	U
PCB 70	ug/kg	9.63		0.037	U	0.038	U	0.038	U	0.174		0.037	U	0.243		0.063	U	0.217		4.17	J-	2.82	
PCB 71	ug/kg	0.209		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.292	J	0.037	U
PCB 73	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.171		0.037	U	0.037	U
PCB 74	ug/kg	7.52		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	3.91	J-	2.67	
PCB 75	ug/kg	1.40		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	1.20	J-	0.755	
PCB 77	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 78	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 8	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 82	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 83	ug/kg	2.83		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	2.83	J-	2.14	
PCB 84	ug/kg	6.23		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	7.56	J	5.39	
PCB 85	ug/kg	10.5		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	9.81		6.87	
PCB 9	ug/kg	0.038	U	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	0.037	U	0.037	U
PCB 90/101	ug/kg	48.2		0.489		0.514		0.487		0.592		0.628		0.605		0.672		0.519		56.4		25.9	
PCB 91	ug/kg	4.22		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	5.15	J	3.37	
PCB 92	ug/kg	5.97		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	7.81	J+	4.84	
PCB 93	ug/kg	0.038	U	0.717		0.847		0.038	U	0.635		0.037	U	0.062	U	0.063	U	0.038	U	0.918		0.037	U
PCB 95/155	ug/kg	22.6		0.097	J	0.080	J	0.075	U	0.124	J	0.074	U	0.124	U	0.127	U	0.129	J	24.2		16.0	
PCB 97	ug/kg	18.6		0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.062	U	0.063	U	0.038	U	14.8	J	9.76	
PCB 99	ug/kg	45.6		0.181		0.038	U	0.214		0.037	U	0.037	U	0.235		0.180	J	0.038	U	28.1	J-	13.7	

Notes:

Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection

NA = Not analyzed - Results for this congener or congener combination are not available due to coelution with another congener. In some cases, samples were diluted and reanalyzed so that congener concentration would be in the appropriate calibration range. If a congener was reanalyzed due to calibration range concentration, and that congener then coeluted with a congener that had an appropriate concentration in the initial calibration range, then both results were reported, but in that case, only the combined concentration was used to calculate the sum for total PCB concentration.

ug/kg = micrograms per kilogram

2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.

J = estimated value

J+ = estimated value that may be biased high

J- = estimated value that may be biased low

U = not detected

UJ = not detected; estimated value

Appendix C:

Clams Tissue Analytical Results

Phase I Clams - Identifiers

Sample ID	Collection Date	Collection Method	Collection Area	Species	Latitude	Longitude
BI-21SEP20-DU1-COMP	9/21/2020	DIVER	BRADFORD	CLAM	45°38'34.704"N	121°56'22.138"W
BI-22SEP20-DU 2-COMP	9/22/2020	DIVER	BRADFORD	CLAM	45°38'34.087"N	121°56'20.333"W
BI-23SEP20-DU 3-COMP	9/23/2020	DIVER	BRADFORD	CLAM	45°38'34.25"N	121°56'17.952"W
BI-23SEP20-DU 4-COMP	9/23/2020	DIVER	BRADFORD	CLAM	45°38'33.886"N	121°56'15.958"W
BI-23SEP20-DU 5-COMP	9/23/2020	DIVER	BRADFORD	CLAM	45°38'34.029"N	121°56'13.351"W
BI-23SEP20-DU 6-COMP	9/23/2020	DIVER	BRADFORD	CLAM	45°38'34.892"N	121°56'12.059"W
BI-24SEP20-DU 7-COMP	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.311"N	121°56'9.226"W
BI-24SEP20-DU 8-COMP	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.942"N	121°56'8.343"W
BI-24SEP20-DU 9-COMP	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.542"N	121°56'6.658"W
BI-25SEP20-DU 10-COMP	9/25/2020	DIVER	BRADFORD	CLAM	45°38'33.571"N	121°56'6.204"W
BI-25SEP20-DU 10-COMP FD	9/25/2020	DIVER	BRADFORD	CLAM	45°38'33.571"N	121°56'6.204"W
BI-22SEP20-REF 1-COMP	9/22/2020	DIVER	REFERENCE	CLAM	45°38'34.903"N	121°56'18.189"W
BI-25SEP20-REF 2-COMP	9/25/2020	DIVER	REFERENCE	CLAM	45°38'34.627"N	121°56'5.309"W
BI-21SEP20-DU 1-2	9/21/2020	DIVER	BRADFORD	CLAM	45°38'34.961"N	121°56'21.868"W
BI-21SEP20-DU 1-3	9/21/2020	DIVER	BRADFORD	CLAM	45°38'34.474"N	121°56'22.344"W
BI-21SEP20-DU 1-4	9/21/2020	DIVER	BRADFORD	CLAM	45°38'34.486"N	121°56'21.874"W
BI-22SEP20-DU 2-1	9/22/2020	DIVER	BRADFORD	CLAM	45°38'34.265"N	121°56'20.582"W
BI-22SEP20-DU 2-2	9/22/2020	DIVER	BRADFORD	CLAM	45°38'34.266"N	121°56'19.981"W
BI-22SEP20-DU 2-3	9/22/2020	DIVER	BRADFORD	CLAM	45°38'33.896"N	121°56'20.582"W
BI-22SEP20-DU 2-4	9/22/2020	DIVER	BRADFORD	CLAM	45°38'33.93"N	121°56'20.019"W
BI-22SEP20-DU 3-1	9/23/2020	DIVER	BRADFORD	CLAM	45°38'34.393"N	121°56'18.256"W
BI-23SEP20-DU 3-2	9/23/2020	DIVER	BRADFORD	CLAM	45°38'34.342"N	121°56'17.588"W
BI-23SEP20-DU 3-3	9/23/2020	DIVER	BRADFORD	CLAM	45°38'34.142"N	121°56'18.286"W
BI-23SEP20-DU 3-4	9/23/2020	DIVER	BRADFORD	CLAM	45°38'34.131"N	121°56'17.601"W
BI-23SEP20-DU 4-1	9/23/2020	DIVER	BRADFORD	CLAM	45°38'34.123"N	121°56'16.173"W
BI-23SEP20-DU 4-2	9/23/2020	DIVER	BRADFORD	CLAM	45°38'34.076"N	121°56'15.665"W
BI-23SEP20-DU 4-3	9/23/2020	DIVER	BRADFORD	CLAM	45°38'33.661"N	121°56'16.164"W
BI-23SEP20-DU 4-4	9/23/2020	DIVER	BRADFORD	CLAM	45°38'33.668"N	121°56'15.626"W
BI-23SEP20-DU 5-1	9/23/2020	DIVER	BRADFORD	CLAM	45°38'34.173"N	121°56'13.723"W
BI-23SEP20-DU 5-3	9/23/2020	DIVER	BRADFORD	CLAM	45°38'33.818"N	121°56'13.667"W
BI-23SEP20-DU 5-4	9/23/2020	DIVER	BRADFORD	CLAM	45°38'33.872"N	121°56'12.992"W
BI-23SEP20-DU 6-1	9/23/2020	DIVER	BRADFORD	CLAM	45°38'35.171"N	121°56'11.898"W
BI-23SEP20-DU 6-2	9/23/2020	DIVER	BRADFORD	CLAM	45°38'34.977"N	121°56'11.602"W
BI-24SEP20-DU 6-3	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.761"N	121°56'12.498"W
BI-24SEP20-DU 6-4	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.58"N	121°56'12.221"W
BI-24SEP20-DU 7-1	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.423"N	121°56'9.409"W
BI-24SEP20-DU 7-2	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.463"N	121°56'8.987"W
BI-24SEP20-DU 7-3	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.161"N	121°56'9.421"W
BI-24SEP20-DU 7-4	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.199"N	121°56'9.009"W
BI-24SEP20-DU 8-1	9/24/2020	DIVER	BRADFORD	CLAM	45°38'35.094"N	121°56'8.571"W
BI-24SEP20-DU 8-2	9/24/2020	DIVER	BRADFORD	CLAM	45°38'35.105"N	121°56'8.177"W
BI-24SEP20-DU 8-3	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.771"N	121°56'8.544"W
BI-24SEP20-DU 8-4	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.75"N	121°56'8.169"W
BI-24SEP20-DU 9-1	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.627"N	121°56'6.859"W
BI-24SEP20-DU 9-2	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.666"N	121°56'6.438"W
BI-24SEP20-DU 9-3	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.371"N	121°56'6.834"W
BI-24SEP20-DU 9-4	9/24/2020	DIVER	BRADFORD	CLAM	45°38'34.409"N	121°56'6.422"W
BI-25SEP20-DU 10-1	9/25/2020	DIVER	BRADFORD	CLAM	45°38'33.855"N	121°56'6.427"W
BI-25SEP20-DU 10-2	9/25/2020	DIVER	BRADFORD	CLAM	45°38'33.871"N	121°56'6.05"W
BI-25SEP20-DU 10-3	9/25/2020	DIVER	BRADFORD	CLAM	45°38'33.314"N	121°56'6.349"W
BI-25SEP20-DU 10-4	9/25/2020	DIVER	BRADFORD	CLAM	45°38'33.301"N	121°56'5.99"W

Phase I Clams - Identifiers

Sample ID	Collection Date	Collection Method	Collection Area	Species	Latitude	Longitude
BI-22SEP20-REF 1-1	9/22/2020	DIVER	REFERENCE	CLAM	45°38'35.01"N	121°56'18.478"W
BI-22SEP20-REF 1-2	9/22/2020	DIVER	REFERENCE	CLAM	45°38'35.03"N	121°56'17.878"W
BI-22SEP20-REF 1-3	9/22/2020	DIVER	REFERENCE	CLAM	45°38'34.752"N	121°56'18.5"W
BI-22SEP20-REF 1-4	9/22/2020	DIVER	REFERENCE	CLAM	45°38'34.787"N	121°56'17.815"W
BI-25SEP20-REF 2-1	9/25/2020	DIVER	REFERENCE	CLAM	45°38'34.741"N	121°56'5.641"W
BI-25SEP20-REF 2-2	9/25/2020	DIVER	REFERENCE	CLAM	45°38'34.75"N	121°56'4.984"W
BI-25SEP20-REF 2-3	9/25/2020	DIVER	REFERENCE	CLAM	45°38'34.478"N	121°56'5.653"W
BI-25SEP20-REF 2-4	9/25/2020	DIVER	REFERENCE	CLAM	45°38'34.506"N	121°56'4.978"W

Phase I Clams - Lipids and Mercury

Sample Identification Number	Laboratory ID	SDG	Collection Area	Lipids (%)		Mercury (mg/kg)	
BI-21SEP20-DU1-COMP	20J0101-01	20J0101	FOREBAY	2.20		0.00837	
BI-22SEP20-DU 2-COMP	20J0101-02	20J0101	FOREBAY	3.02		0.00755	
BI-23SEP20-DU 3-COMP	20J0101-03	20J0101	FOREBAY	2.20		0.00815	
BI-23SEP20-DU 4-COMP	20J0101-04	20J0101	FOREBAY	1.88		0.00901	
BI-23SEP20-DU 5-COMP	20J0101-05	20J0101	FOREBAY	4.39		0.00949	
BI-23SEP20-DU 6-COMP	20J0101-06	20J0101	FOREBAY	3.61		0.00711	
BI-24SEP20-DU 7-COMP	20J0101-07	20J0101	FOREBAY	2.82		0.00767	
BI-24SEP20-DU 8-COMP	20J0101-08	20J0101	FOREBAY	2.44		0.00761	
BI-24SEP20-DU 9-COMP	20J0101-09	20J0101	FOREBAY	3.08		0.00597	
BI-25SEP20-DU 10-COMP	20J0101-10	20J0101	FOREBAY	2.05		0.00661	
BI-25SEP20-DU 10-COMP FD	B20K003-DUP1/ B20L014-DUP5	20J0101	FOREBAY	2.54		0.00618	
BI-22SEP20-REF 1-COMP	20J0101-11	20J0101	REFERENCE	3.34		0.00808	
BI-25SEP20-REF 2-COMP	20J0101-12	20J0101	REFERENCE	3.24		0.00710	

Notes:
NA = not analyzed
SDG = sample delivery group
mg/kg = milligrams per kilogram

Phase I Clams - Organochlorine Pesticides

Sample ID	Lab Sample ID	SDG #	Collection Area	2,4'-DDD (ug/kg)		2,4´-DDE (ug/kg)		2,4´-DDT (ug/kg)		4,4'-DDD (ug/kg)		4,4'-DDE (ug/kg)		4,4'-DDT (ug/kg)		alpha-BHC (ug/kg)		alpha-Chlordane (ug/kg)		beta-BHC (ug/kg)	
BI-21SEP20-DU1-COMP	20J0101-01	20J0101	North Bradford	0.038	U	0.038	U	0.038	U	0.638		2.66		0.038	U	0.038	U	0.038	U	0.038	U
BI-22SEP20-DU 2-COMP	20J0101-02	20J0101	North Bradford	0.038	U	0.038	U	0.038	U	0.845		4.02		0.038	U	0.038	U	0.038	U	0.038	U
BI-23SEP20-DU 3-COMP	20J0101-03	20J0101	North Bradford	0.038	U	0.038	U	0.038	U	0.753		3.72		0.038	U	0.038	U	0.038	U	0.038	U
BI-23SEP20-DU 4-COMP	20J0101-04	20J0101	North Bradford	0.037	U	0.037	U	0.037	U	0.812		3.90		0.037	U	0.037	U	0.037	U	0.037	U
BI-23SEP20-DU 5-COMP	20J0101-05	20J0101	North Bradford	0.037	U	0.037	U	0.037	U	0.649		3.34		0.037	U	0.037	U	0.037	U	0.037	U
BI-23SEP20-DU 6-COMP	20J0101-06	20J0101	North Bradford	0.038	U	0.038	U	0.038	U	0.594		3.10		0.038	U	0.038	U	0.038	U	0.038	U
BI-24SEP20-DU 7-COMP	20J0101-07	20J0101	North Bradford	0.037	U	0.037	U	0.037	U	0.826		4.54		0.037	U	0.037	U	0.037	U	0.037	U
BI-24SEP20-DU 8-COMP	20J0101-08	20J0101	North Bradford	0.038	U	0.038	U	0.038	U	0.890		4.09		0.038	U	0.038	U	0.038	U	0.038	U
BI-24SEP20-DU 9-COMP	20J0101-09	20J0101	North Bradford	0.038	U	0.038	U	0.038	U	0.388		1.80		0.038	U	0.038	U	0.038	U	0.038	U
BI-25SEP20-DU 10-COMP	20J0101-10	20J0101	North Bradford	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-25SEP20-DU 10-COMP FD	B21B009-DUP1	20J0101	North Bradford	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-22SEP20-REF 1-COMP	20J0101-11	20J0101	Reference	0.037	U	0.037	U	0.037	U	0.941	J+	4.64	J+	0.037	U	0.037	U	0.037	U	0.037	U
BI-25SEP20-REF 2-COMP	20J0101-12	20J0101	Reference	0.037	U	0.037	U	0.037	U	0.884		4.43		0.037	U	0.037	U	0.037	U	0.037	U

Notes:
NA = not analyzed
SDG = sample delivery group
ug/kg = micrograms per kilogram
J+ = estimated value that may be biased high
U = not detected

Phase I Clams - Organochlorine Pesticides

Sample ID	Lab Sample ID	SDG #	Collection Area	delta-BHC (ug/kg)		Dieldrin (ug/kg)		Endosulfan I (ug/kg)		Endosulfan II (ug/kg)		Endrin (ug/kg)		Endrin aldehyde (ug/kg)		gamma-BHC (Lindane) (ug/kg)		gamma-Chlordane (ug/kg)		Methoxychlor (ug/kg)	
BI-21SEP20-DU1-COMP	20J0101-01	20J0101	North Bradford	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
BI-22SEP20-DU 2-COMP	20J0101-02	20J0101	North Bradford	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
BI-23SEP20-DU 3-COMP	20J0101-03	20J0101	North Bradford	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
BI-23SEP20-DU 4-COMP	20J0101-04	20J0101	North Bradford	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-23SEP20-DU 5-COMP	20J0101-05	20J0101	North Bradford	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-23SEP20-DU 6-COMP	20J0101-06	20J0101	North Bradford	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
BI-24SEP20-DU 7-COMP	20J0101-07	20J0101	North Bradford	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-24SEP20-DU 8-COMP	20J0101-08	20J0101	North Bradford	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
BI-24SEP20-DU 9-COMP	20J0101-09	20J0101	North Bradford	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
BI-25SEP20-DU 10-COMP	20J0101-10	20J0101	North Bradford	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-25SEP20-DU 10-COMP FD	B21B009-DUP1	20J0101	North Bradford	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-22SEP20-REF 1-COMP	20J0101-11	20J0101	Reference	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-25SEP20-REF 2-COMP	20J0101-12	20J0101	Reference	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U

Notes:
NA = not analyzed
SDG = sample delivery group
ug/kg = micrograms per kilogram
J+ = estimated value that may be biased high
U = not detected

Phase I Clams - PCB Totals

Station Number	USACE Sample ID	Lab Sample ID	SDG	Collection Area	Total PCBs (ug/kg)	
DU1-2	BI-21SEP20-DU1-2	20J0102-01	20J0102	North Bradford	11.0	
DU1-3	BI-21SEP20-DU1-3	20J0102-02	20J0102	North Bradford	19.3	
DU1-4	BI-21SEP20-DU1-4	20J0102-03	20J0102	North Bradford	22.7	
DU2-1	BI-22SEP20-DU2-1	20J0102-06	20J0102	North Bradford	13.8	
DU2-2	BI-22SEP20-DU2-2	20J0102-04	20J0102	North Bradford	13.5	
DU2-3	BI-22SEP20-DU2-3	20J0102-07	20J0102	North Bradford	19.6	
DU2-4	BI-22SEP20-DU2-4	20J0102-05	20J0102	North Bradford	18.3	
DU3-1	BI-22SEP20-DU3-1	20J0102-08	20J0102	North Bradford	24.2	
DU3-2	BI-23SEP20-DU3-2	20J0102-09	20J0102	North Bradford	13.4	
DU3-3	BI-23SEP20-DU3-3	20J0102-10	20J0102	North Bradford	17.6	
DU3-3D	BI-23SEP20-DU3-3 FD	B21B012-DUP1	20J0102	North Bradford	21.4	
DU3-4	BI-23SEP20-DU3-4	20J0103-01	20J0103	North Bradford	31.6	
DU4-1	BI-23SEP20-DU4-1	20J0103-02	20J0103	North Bradford	27.6	
DU4-2	BI-23SEP20-DU4-2	20J0103-03	20J0103	North Bradford	23.8	
DU4-3	BI-23SEP20-DU4-3	20J0103-04	20J0103	North Bradford	23.3	
DU4-3D	BI-23SEP20-DU4-3 FD	B21B016-DUP1	20J0103	North Bradford	28.0	
DU4-4	BI-23SEP20-DU4-4	20J0103-05	20J0103	North Bradford	29.4	
DU5-1	BI-23SEP20-DU5-1	20J0103-08	20J0103	North Bradford	39.7	
DU5-3	BI-23SEP20-DU5-3	20J0103-06	20J0103	North Bradford	51.0	
DU5-4	BI-23SEP20-DU5-4	20J0103-07	20J0103	North Bradford	32.4	
DU6-1	BI-23SEP20-DU6-1	20J0103-09	20J0103	North Bradford	18.7	
DU6-2	BI-23SEP20-DU6-2	20J0103-10	20J0103	North Bradford	19.8	
DU6-3	BI-24SEP20-DU6-3	20J0104-01	20J0104	North Bradford	32.6	
DU6-4	BI-24SEP20-DU6-4	20J0104-02	20J0104	North Bradford	38.9	
DU7-1	BI-24SEP20-DU7-1	20J0104-03	20J0104	North Bradford	35.5	
DU7-2	BI-24SEP20-DU7-2	20J0104-04	20J0104	North Bradford	47.5	
DU7-3	BI-24SEP20-DU7-3	20J0104-05	20J0104	North Bradford	66.8	
DU7-4	BI-24SEP20-DU7-4	20J0104-06	20J0104	North Bradford	59.8	
DU8-1	BI-24SEP20-DU8-1	20J0104-07	20J0104	North Bradford	10.5	
DU8-2	BI-24SEP20-DU8-2	20J0104-08	20J0104	North Bradford	11.4	
DU8-3	BI-24SEP20-DU8-3	20J0104-09	20J0104	North Bradford	17.1	
DU8-4	BI-24SEP20-DU8-4	20J0104-10	20J0104	North Bradford	12.2	
DU8-4D	BI-24SEP20-DU8-4 FD	B21B016-DUP2	20J0104	North Bradford	6.25	
DU9-1	BI-24SEP20-DU9-1	20J0105-01	20J0105	North Bradford	68.3	
DU9-2	BI-24SEP20-DU9-2	20J0105-02	20J0105	North Bradford	14.2	
DU9-3	BI-24SEP20-DU9-3	20J0105-03	20J0105	North Bradford	37.4	
DU9-3D	BI-24SEP20-DU9-3 FD	B21B015-DUP1	20J0105	North Bradford	45.4	
DU9-4	BI-24SEP20-DU9-4	20J0105-04	20J0105	North Bradford	13.1	
DU10-1	BI-25SEP20-DU10-1	20J0105-05	20J0105	North Bradford	117	
DU10-2	BI-25SEP20-DU10-2	20J0105-06	20J0105	North Bradford	83.1	
DU10-3	BI-25SEP20-DU10-3	20J0105-07/RE1/RE2	20J0105	North Bradford	4451	
DU10-4	BI-25SEP20-DU10-4	20J0105-08/RE1	20J0105	North Bradford	148	
REF-1-1	BI-22SEP20-REF1-1	20J0105-09	20J0105	Reference	11.7	
REF-1-2	BI-22SEP20-REF1-2	20J0105-10	20J0105	Reference	26.1	

Phase I Clams - PCB Totals

Station Number	USACE Sample ID	Lab Sample ID	SDG	Collection Area	Total PCBs (ug/kg)	
REF-1-3	BI-22SEP20-REF1-3	20J0106-01	20J0106	Reference	34.3	
REF 1-4	BI-22SEP20-REF1-4	20J0106-02	20J0106	Reference	33.2	
REF 2-1	BI-25SEP20-REF2-1	20J0106-03	20J0106	Reference	12.4	
REF 2-2	BI-25SEP20-REF2-2	20J0106-04	20J0106	Reference	8.18	
REF2-2 DUP	BI-25SEP20-REF2-2	B21B016-DUP3	20J0106	Reference	7.19	
REF 2-3	BI-25SEP20-REF2-3	20J0106-05	20J0106	Reference	8.29	
REF 2-4	BI-25SEP20-REF2-4	20J0106-06	20J0106	Reference	8.79	

Notes:
SDG = Sample Delivery Group
ug/kg = micrograms per kilogram
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection

Phase I Clams - PCB Congeners

Station Number:		DU1-2		DU1-3		DU1-4		DU2-1		DU2-2		DU2-3		DU2-4		DU3-1		DU3-2	
USACE Sample ID:		BI-21SEP20-DU1-2		BI-21SEP20-DU1-3		BI-21SEP20-DU1-4		BI-22SEP20-DU2-1		BI-22SEP20-DU2-2		BI-22SEP20-DU2-3		BI-22SEP20-DU2-4		BI-22SEP20-DU3-1		BI-23SEP20-DU3-2	
Lab Sample ID:		20J0102-01		20J0102-02		20J0102-03		20J0102-06		20J0102-04		20J0102-07		20J0102-05		20J0102-08		20J0102-09	
Lab Sample Delivery Group:		20J0102		20J0102		20J0102		20J0102		20J0102		20J0102		20J0102		20J0102		20J0102	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**11.0**		**19.3**		**22.7**		**13.8**		**13.5**		**19.6**		**18.3**		**24.2**		**13.4**	
PCB 10	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 103	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 104	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 105	ug/kg	0.361		0.691		0.888		0.495		0.426		0.751		0.759		0.981		0.551	
PCB 107	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 110	ug/kg	0.487		1.19		1.41		0.721		0.579		1.15		1.05		1.40		0.740	
PCB 114	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 115/87	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 117/81	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 118	ug/kg	0.855		2.23		2.19		1.48		1.47		2.12		2.26		2.89		1.34	
PCB 119	ug/kg	0.128		0.174		0.112	J	0.157		0.038	U	0.257		0.100	J	0.147		0.038	U
PCB 12	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 121	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 124	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 126/129/178	ug/kg	0.114	U	0.114	U	0.113	U	0.114	U	0.114	U	0.113	U	0.113	U	0.112	U	0.114	U
PCB 128/174/202	ug/kg	0.114	U	0.114	U	0.703		0.114	U	0.114	U	0.113	U	0.113	U	0.112	U	0.114	U
PCB 13	ug/kg	0.038	U	0.038	U	0.075	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 130	ug/kg	0.038	U	0.038	U	0.164		0.038	U	0.120	J	0.155		0.138		0.193		0.038	U
PCB 131/122/142	ug/kg	0.114	U	0.114	U	0.113	U	0.114	U	0.114	U	0.113	U	0.113	U	0.112	U	0.114	U
PCB 132	ug/kg	0.185		0.306		0.339		0.189		0.210		0.277		0.332		0.418		0.280	
PCB 134	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 135	ug/kg	0.038	U	0.038	U	0.428		0.038	U	0.038	U	0.394		0.038	U	0.416		0.038	U
PCB 136	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 137	ug/kg	0.038	U	0.250		0.232		0.038	U	0.038	U	0.226		0.217		0.266		0.038	U
PCB 138/163/164	ug/kg	1.06		1.73		2.01		1.30		1.31		1.90		1.86		2.53		1.34	
PCB 14	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 141	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 144	ug/kg	0.038	U	0.109	J	0.105	J	0.038	U	0.038	U	0.038	U	0.038	U	0.120	J	0.038	U
PCB 146	ug/kg	0.169		0.248		0.308		0.229		0.212		0.285		0.278		0.334		0.038	U
PCB 147	ug/kg	0.038	U	0.038	U	0.266		0.038	U	0.038	U	0.218		0.038	U	0.037	U	0.038	U
PCB 149/123	ug/kg	0.530		0.800		0.944		0.630		0.628		0.969		0.852		1.23		0.717	
PCB 15/17	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 151	ug/kg	0.138		0.190		0.206		0.186		0.153		0.186		0.184		0.220		0.182	
PCB 153	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 154	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 156	ug/kg	0.038	U	0.377		0.465		0.038	U	0.038	U	0.038	U	0.038	U	0.530		0.038	U
PCB 157/201	ug/kg	0.076	U	0.076	U	0.387		0.076	U	0.076	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 158	ug/kg	0.038	U	0.038	U	0.294		0.217		0.038	U	0.253		0.259		0.309		0.210	
PCB 16	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 165	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 167	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.314		0.038	U
PCB 170/203	ug/kg	0.076	U	0.076	U	0.441		0.076	U	0.076	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 171/172	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U	0.076	U

Phase I Clams - PCB Congeners

Station Number:		DU1-2		DU1-3		DU1-4		DU2-1		DU2-2		DU2-3		DU2-4		DU3-1		DU3-2	
USACE Sample ID:		BI-21SEP20-DU1-2		BI-21SEP20-DU1-3		BI-21SEP20-DU1-4		BI-22SEP20-DU2-1		BI-22SEP20-DU2-2		BI-22SEP20-DU2-3		BI-22SEP20-DU2-4		BI-22SEP20-DU3-1		BI-23SEP20-DU3-2	
Lab Sample ID:		20J0102-01		20J0102-02		20J0102-03		20J0102-06		20J0102-04		20J0102-07		20J0102-05		20J0102-08		20J0102-09	
Lab Sample Delivery Group:		20J0102		20J0102		20J0102		20J0102		20J0102		20J0102		20J0102		20J0102		20J0102	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 173	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 175	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 176	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 177	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 179	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 18	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 180	ug/kg	0.038	U	0.348		0.378		0.374		0.354		0.391		0.418		0.428		0.364	
PCB 183	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 184	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 185	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 187	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.196		0.038	U	0.227		0.038	U
PCB 189	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 19	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 190/199	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.076	U	0.076	U	0.321		0.075	U	0.076	U
PCB 191	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 192	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 193	ug/kg	0.038	U	0.038	U	0.179		0.038	U	0.038	U	0.164		0.038	U	0.037	U	0.038	U
PCB 194	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 195	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 196	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 197	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 20	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 200	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 205	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 206	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 207	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 208	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 209	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 22	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 24/27	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 25/54	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 26	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 28/31	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 29	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 32	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 33	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 34	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 35	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 37/59	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 4	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 40	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 42	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 44	ug/kg	0.170		0.406		0.370		0.276		0.254		0.314		0.361		0.310		0.242	
PCB 46	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U

Phase I Clams - PCB Congeners

Station Number:		DU1-2		DU1-3		DU1-4		DU2-1		DU2-2		DU2-3		DU2-4		DU3-1		DU3-2	
USACE Sample ID:		BI-21SEP20-DU1-2		BI-21SEP20-DU1-3		BI-21SEP20-DU1-4		BI-22SEP20-DU2-1		BI-22SEP20-DU2-2		BI-22SEP20-DU2-3		BI-22SEP20-DU2-4		BI-22SEP20-DU3-1		BI-23SEP20-DU3-2	
Lab Sample ID:		20J0102-01		20J0102-02		20J0102-03		20J0102-06		20J0102-04		20J0102-07		20J0102-05		20J0102-08		20J0102-09	
Lab Sample Delivery Group:		20J0102		20J0102		20J0102		20J0102		20J0102		20J0102		20J0102		20J0102		20J0102	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 47/49	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 48	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 5	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 51	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 52/45	ug/kg	0.076	U	0.446		0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.335		0.076	U
PCB 53	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 56/60	ug/kg	0.398		0.416		0.417		0.398		0.372		0.418		0.415		0.406		0.076	U
PCB 6	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 63	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 64	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 66	ug/kg	0.199		0.277		0.330		0.038	U	0.192		0.290		0.289	U	0.307		0.189	
PCB 67/41/100	ug/kg	0.114	U	0.114	U	0.113	U	0.114	U	0.114	U	0.113	U	0.113	U	0.112	U	0.114	U
PCB 69	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 7	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 70	ug/kg	0.038	U	0.382		0.427		0.289		0.227		0.335		0.304		0.400		0.038	U
PCB 71	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 73	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 74	ug/kg	0.038	U	0.174		0.214		0.038	U	0.038	U	0.168		0.217		0.174		0.038	U
PCB 75	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 77	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 78	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 8	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 82	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 83	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 84	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 85	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 9	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 90/101	ug/kg	0.584		1.37		1.47		0.805		0.705		1.25		1.17		1.57		0.846	
PCB 91	ug/kg	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.192		0.038	U
PCB 92	ug/kg	0.038	U	0.446		0.396		0.038	U	0.038	U	0.350		0.038	U	0.437		0.038	U
PCB 93	ug/kg	0.038	U	0.038	U	0.193		0.038	U	0.228		0.240		0.038		0.285		0.269	
PCB 95/155	ug/kg	0.260		0.847		0.897		0.398		0.508		0.694		0.739		0.897		0.346	
PCB 97	ug/kg	0.298		0.735		0.761		0.413		0.432		0.719		0.726		0.897		0.379	
PCB 99	ug/kg	0.424		0.758		0.761		0.523		0.396		0.647		0.609		0.907		0.539	

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Phase I Clams - PCB Congeners

Station Number:		DU3-3		DU3-3D		DU3-4		DU4-1		DU4-2		DU4-3		DU4-3D		DU4-4	
USACE Sample ID:		BI-23SEP20-DU3-3		BI-23SEP20-DU3-3 FD		BI-23SEP20-DU3-4		BI-23SEP20-DU4-1		BI-23SEP20-DU4-2		BI-23SEP20-DU4-3		BI-23SEP20-DU4-3 FD		BI-23SEP20-DU4-4	
Lab Sample ID:		20J0102-10		B21B012-DUP1		20J0103-01		20J0103-02		20J0103-03		20J0103-04		B21B016-DUP1		20J0103-05	
Lab Sample Delivery Group:		20J0102		20J0102		20J0103		20J0103		20J0103		20J0103		20J0103		20J0103	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**17.6**		**21.4**		**31.6**		**27.6**		**23.8**		**23.3**		**28.0**		**29.4**	
PCB 10	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 103	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 104	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 105	ug/kg	0.649		0.71		1.21		0.989		0.763		0.684		0.74		0.941	
PCB 107	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.068		0.078	J	0.151	
PCB 110	ug/kg	0.933		1.1		1.84		1.68		1.24		1.12		1.3		1.49	
PCB 114	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 115/87	ug/kg	0.073	U	0.072	U	0.075	U	0.076	U	0.076	U	0.422		0.42		0.075	U
PCB 117/81	ug/kg	0.073	U	0.072		0.075	U	0.076	U	0.076	U	0.076	U	0.038	U	0.075	U
PCB 118	ug/kg	1.50		2.00		3.08		2.84		2.02		2.67		3.2		2.51	
PCB 119	ug/kg	0.138		0.13		0.283		0.038	U	0.196		0.090		0.11	J	0.163	
PCB 12	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 121	ug/kg	0.036	U	0.072	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 124	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 126/129/178	ug/kg	0.109	U	0.108	U	0.112	U	0.114	U	0.114	U	0.113	U	0.114	U	0.113	U
PCB 128/174/202	ug/kg	0.574		0.65		0.798		1.01		0.733		0.622		0.67		1.02	
PCB 13	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 130	ug/kg	0.126		0.15		0.265		0.038	U	0.197		0.164		0.18		0.242	
PCB 131/122/142	ug/kg	0.109	U	0.108	U	0.112	U	0.114	U	0.114	U	0.113	U	0.114	U	0.113	U
PCB 132	ug/kg	0.282		0.27		0.551		0.470		0.404		0.283		0.35		0.461	
PCB 134	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.199		0.038	U	0.038	U	0.229	
PCB 135	ug/kg	0.425		0.53		0.740		0.473		0.491		0.501		0.60		0.593	
PCB 136	ug/kg	0.036	U	0.036	U	0.158		0.038	U	0.100	J	0.038	U	0.038	U	0.245	
PCB 137	ug/kg	0.191		0.21		0.255		0.038	U	0.038	U	0.230		0.24		0.038	U
PCB 138/163/164	ug/kg	1.42		1.9		2.82		2.34		2.01		2.16		2.5		2.37	
PCB 14	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 141	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.144		0.15		0.038	U
PCB 144	ug/kg	0.132		0.10	J	0.165		0.122	J	0.120	J	0.104	J	0.12	J	0.188	
PCB 146	ug/kg	0.224		0.27		0.390		0.320		0.280		0.316		0.36		0.329	
PCB 147	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.155	
PCB 149/123	ug/kg	0.753		1.0		1.39		1.31		0.871		0.844		1.4		1.05	
PCB 15/17	ug/kg	0.073	U	0.072	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U
PCB 151	ug/kg	0.160		0.21		0.282		0.282		0.254		0.215		0.25		0.312	
PCB 153	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 154	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 156	ug/kg	0.328		0.41		0.579		0.481		0.454		0.501		0.56		0.494	
PCB 157/201	ug/kg	0.073	U	0.072	U	0.457		0.360		0.366		0.076	U	0.43		0.416	
PCB 158	ug/kg	0.232		0.25		0.384		0.038	U	0.279		0.287		0.30		0.341	
PCB 16	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 165	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 167	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.35		0.290	
PCB 170/203	ug/kg	0.421		0.42		0.497		0.465		0.076	U	0.076	U	0.076	U	0.529	
PCB 171/172	ug/kg	0.073	U	0.072	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U

Phase I Clams - PCB Congeners

Station Number:		DU3-3		DU3-3D		DU3-4		DU4-1		DU4-2		DU4-3		DU4-3D		DU4-4	
USACE Sample ID:		BI-23SEP20-DU3-3		BI-23SEP20-DU3-3 FD		BI-23SEP20-DU3-4		BI-23SEP20-DU4-1		BI-23SEP20-DU4-2		BI-23SEP20-DU4-3		BI-23SEP20-DU4-3 FD		BI-23SEP20-DU4-4	
Lab Sample ID:		20J0102-10		B21B012-DUP1		20J0103-01		20J0103-02		20J0103-03		20J0103-04		B21B016-DUP1		20J0103-05	
Lab Sample Delivery Group:		20J0102		20J0102		20J0103		20J0103		20J0103		20J0103		20J0103		20J0103	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 173	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.201		0.038	U	0.038	U	0.230	
PCB 175	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 176	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.204	
PCB 177	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.240		0.038	U	0.038	U	0.251	
PCB 179	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 18	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 180	ug/kg	0.342		0.40		0.531		0.376		0.392		0.441		0.51		0.450	
PCB 183	ug/kg	0.036	U	0.036	U	0.191		0.511		0.107	J	0.147		0.14		0.240	
PCB 184	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 185	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 187	ug/kg	0.184		0.22		0.381		0.250		0.242		0.222		0.24		0.337	
PCB 189	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 19	ug/kg	0.036	U	0.072	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 190/199	ug/kg	0.073	U	0.072	U	0.456		0.353		0.328		0.076	U	0.076	U	0.419	
PCB 191	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 192	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 193	ug/kg	0.036	U	0.17		0.177		0.038	U	0.038	U	0.166		0.17		0.038	U
PCB 194	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 195	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.186		0.22		0.038	U
PCB 196	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 197	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 20	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 200	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 205	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 206	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 207	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 208	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 209	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 22	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 24/27	ug/kg	0.073	U	0.072	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U
PCB 25/54	ug/kg	0.073	U	0.072	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U
PCB 26	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 28/31	ug/kg	0.073	U	0.072	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U
PCB 29	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 32	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 33	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 34	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 35	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 37/59	ug/kg	0.073	U	0.072	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U
PCB 4	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 40	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 42	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 44	ug/kg	0.295		0.35		0.498		0.45		0.420		0.557		0.60		0.436	
PCB 46	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U

Phase I Clams - PCB Congeners

Station Number:		DU3-3		DU3-3D		DU3-4		DU4-1		DU4-2		DU4-3		DU4-3D		DU4-4	
USACE Sample ID:		BI-23SEP20-DU3-3		BI-23SEP20-DU3-3 FD		BI-23SEP20-DU3-4		BI-23SEP20-DU4-1		BI-23SEP20-DU4-2		BI-23SEP20-DU4-3		BI-23SEP20-DU4-3 FD		BI-23SEP20-DU4-4	
Lab Sample ID:		20J0102-10		B21B012-DUP1		20J0103-01		20J0103-02		20J0103-03		20J0103-04		B21B016-DUP1		20J0103-05	
Lab Sample Delivery Group:		20J0102		20J0102		20J0103		20J0103		20J0103		20J0103		20J0103		20J0103	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 47/49	ug/kg	0.073	U	0.072	U	0.075	U	0.076	U	0.076	U	0.076	U	0.076	U	0.075	U
PCB 48	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 5	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 51	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 52/45	ug/kg	0.073	U	0.072	U	0.075	U	0.528		0.513		0.076	U	0.56		0.494	
PCB 53	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 56/60	ug/kg	0.402		0.45		0.454		0.438		0.382		0.389		0.44		0.404	
PCB 6	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 63	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 64	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 66	ug/kg	0.265		0.34		0.457		0.353		0.363		0.358		0.47		0.389	
PCB 67/41/100	ug/kg	0.109	U	0.108	U	0.112	U	0.114	U	0.114	U	0.113	U	0.114	U	0.113	U
PCB 69	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 7	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 70	ug/kg	0.369		0.41		0.612		0.447		0.440		0.466		0.55		0.601	
PCB 71	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 73	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 74	ug/kg	0.154		0.16		0.246		0.209		0.193		0.203		0.22		0.221	
PCB 75	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 77	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 78	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 8	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 82	ug/kg	0.036	U	0.036	U	0.260		0.240		0.205		0.038	U	0.038	U	0.289	
PCB 83	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.122	J	0.14		0.038	U
PCB 84	ug/kg	0.036	U	0.036	U	0.284		0.038	U	0.038	U	0.038	U	0.038	U	0.439	
PCB 85	ug/kg	0.036	U	0.036	U	0.624		0.506		0.400		0.038	U	0.038	U	0.519	
PCB 9	ug/kg	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 90/101	ug/kg	1.00		1.3		2.14		1.90		1.47		1.55		1.8		1.87	
PCB 91	ug/kg	0.036	U	0.036	U	0.285		0.191		0.232		0.224		0.20		0.250	
PCB 92	ug/kg	0.356		0.46		0.601		0.487		0.408		0.038	U	0.038	U	0.462	
PCB 93	ug/kg	0.223		0.78		0.25		0.356		0.254		0.221		0.67		0.199	
PCB 95/155	ug/kg	0.559		0.79		1.25		1.08		0.854		0.886		1.1		0.959	
PCB 97	ug/kg	0.511		0.65		1.08		0.900		0.730		0.956		1.1		0.851	
PCB 99	ug/kg	0.544		0.64		1.07		1.01		0.687		0.844		0.90		0.945	

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Phase I Clams - PCB Congeners

Station Number:		DU5-1		DU5-3		DU5-4		DU6-1		DU6-2		DU6-3		DU6-4		DU7-1		DU7-2	
USACE Sample ID:		BI-23SEP20-DU5-1		BI-23SEP20-DU5-3		BI-23SEP20-DU5-4		BI-23SEP20-DU6-1		BI-23SEP20-DU6-2		BI-24SEP20-DU6-3		BI-24SEP20-DU6-4		BI-24SEP20-DU7-1		BI-24SEP20-DU7-2	
Lab Sample ID:		20J0103-08		20J0103-06		20J0103-07		20J0103-09		20J0103-10		20J0104-01		20J0104-02		20J0104-03		20J0104-04	
Lab Sample Delivery Group:		20J0103		20J0103		20J0103		20J0103		20J0103		20J0104		20J0104		20J0104		20J0104	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**39.7**		**51.0**		**32.4**		**18.7**		**19.8**		**32.6**		**38.9**		**35.5**		**47.5**	
PCB 10	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 103	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 104	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 105	ug/kg	1.31		1.51		1.06		0.619		0.691		1.19		1.68		1.02		1.47	
PCB 107	ug/kg	0.118	J	0.176		0.116		0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 110	ug/kg	2.36		3.13		1.83		0.876		1.03		2.01		2.67		1.81		2.65	
PCB 114	ug/kg	0.118	J	0.110		0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 115/87	ug/kg	0.937		0.899		0.636		0.074	U	0.075	U	0.766		1.01		0.075	U	0.814	
PCB 117/81	ug/kg	0.074	U	0.076	U	0.075	U	0.074	U	0.075	U	0.074	U	0.076	U	0.075	U	0.075	U
PCB 118	ug/kg	3.47		5.05		2.75		1.40		1.88		3.17		4.26		5.51		7.09	
PCB 119	ug/kg	0.227		0.218		0.136		0.202		0.115	J	0.207		0.169		0.206		0.194	
PCB 12	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 121	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 124	ug/kg	0.037	U	0.317		0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 126/129/178	ug/kg	0.111	U	0.114	U	0.113	U	0.111	U	0.112	U	0.111	U	0.114	U	0.113	U	0.112	U
PCB 128/174/202	ug/kg	1.06		1.12		0.799		0.752		0.577		0.834		1.08		0.113	U	0.112	U
PCB 13	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 130	ug/kg	0.288		0.352		0.242		0.187		0.180		0.226		0.302		0.175		0.263	
PCB 131/122/142	ug/kg	0.111	U	0.114	U	0.113	U	0.111	U	0.112	U	0.111	U	0.114	U	0.113	U	0.112	U
PCB 132	ug/kg	0.780		0.793		0.499		0.338		0.293		0.589		0.755		0.327		0.524	
PCB 134	ug/kg	0.259		0.312		0.193		0.216		0.170		0.037	U	0.038	U	0.038	U	0.037	U
PCB 135	ug/kg	0.686		0.831		0.516		0.388		0.354		0.585		0.635		0.416		0.631	
PCB 136	ug/kg	0.305		0.286		0.358		0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 137	ug/kg	0.303		0.357		0.335		0.037	U	0.037	U	0.291		0.328		0.327		0.394	
PCB 138/163/164	ug/kg	3.01		4.16		2.48		1.43		1.65		2.69		3.52		3.69		4.89	
PCB 14	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 141	ug/kg	0.234		0.038	U	0.216		0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 144	ug/kg	0.194		0.226		0.200		0.037	U	0.037	U	0.145		0.149		0.118	J	0.335	
PCB 146	ug/kg	0.399		0.568		0.345		0.216		0.239		0.372		0.443		0.441		0.597	
PCB 147	ug/kg	0.037	U	0.208		0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 149/123	ug/kg	1.44		1.92		1.12		0.751		0.798		1.24		1.56		1.43		1.92	
PCB 15/17	ug/kg	0.074	U	0.175	J	0.075	U	0.074	U	0.075	U	0.074	U	0.076	U	0.075	U	0.075	U
PCB 151	ug/kg	0.380		0.432		0.305		0.194		0.188		0.037	U	0.299		0.234		0.34	
PCB 153	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 154	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 156	ug/kg	0.661		0.725		0.526		0.447		0.428		0.633		0.674		0.721		0.902	
PCB 157/201	ug/kg	0.074	U	0.463		0.075	U	0.074	U	0.075	U	0.465		0.457		0.409		0.441	
PCB 158	ug/kg	0.412		0.540		0.331		0.221		0.238		0.348		0.427		0.362		0.482	
PCB 16	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 165	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 167	ug/kg	0.348		0.450		0.324		0.037	U	0.037	U	0.037	U	0.038	U	0.490		0.683	
PCB 170/203	ug/kg	0.498		0.522		0.476		0.074	U	0.075	U	0.447		0.488		0.463	U	0.527	
PCB 171/172	ug/kg	0.074	U	0.076		0.075	U	0.074	U	0.075	U	0.074	U	0.076	U	0.075	U	0.075	U

Phase I Clams - PCB Congeners

Station Number:		DU5-1		DU5-3		DU5-4		DU6-1		DU6-2		DU6-3		DU6-4		DU7-1		DU7-2	
USACE Sample ID:		BI-23SEP20-DU5-1		BI-23SEP20-DU5-3		BI-23SEP20-DU5-4		BI-23SEP20-DU6-1		BI-23SEP20-DU6-2		BI-24SEP20-DU6-3		BI-24SEP20-DU6-4		BI-24SEP20-DU7-1		BI-24SEP20-DU7-2	
Lab Sample ID:		20J0103-08		20J0103-06		20J0103-07		20J0103-09		20J0103-10		20J0104-01		20J0104-02		20J0104-03		20J0104-04	
Lab Sample Delivery Group:		20J0103		20J0103		20J0103		20J0103		20J0103		20J0104		20J0104		20J0104		20J0104	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 173	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 175	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 176	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 177	ug/kg	0.261		0.293		0.242		0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 179	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 18	ug/kg	0.037	U	0.114		0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 180	ug/kg	0.425		0.528		0.388		0.359		0.357		0.459		0.497		0.530		0.659	
PCB 183	ug/kg	0.254		0.150		0.223		0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 184	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 185	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 187	ug/kg	0.290		0.391		0.266		0.276		0.224		0.232		0.260		0.242		0.435	
PCB 189	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 19	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 190/199	ug/kg	0.362		0.367		0.389		0.074	U	0.075	U	0.074	U	0.076	U	0.383		0.410	
PCB 191	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 192	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 193	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.176		0.038	U	0.178		0.176	
PCB 194	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 195	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.200		0.207		0.189		0.207	
PCB 196	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 197	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 20	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 200	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 205	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 206	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 207	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 208	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 209	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 22	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 24/27	ug/kg	0.074	U	0.076	U	0.075	U	0.074	U	0.075	U	0.074	U	0.076	U	0.075	U	0.075	U
PCB 25/54	ug/kg	0.074	U	0.076	U	0.075	U	0.074	U	0.075	U	0.074	U	0.076	U	0.075	U	0.075	U
PCB 26	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 28/31	ug/kg	0.296		0.323		0.075	U	0.074	U	0.075	U	0.074	U	0.076	U	0.075	U	0.075	U
PCB 29	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 32	ug/kg	0.037	U	0.130		0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 33	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 34	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 35	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 37/59	ug/kg	0.074	U	0.076	U	0.075	U	0.074	U	0.075	U	0.074	U	0.076	U	0.075	U	0.075	U
PCB 4	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 40	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 42	ug/kg	0.149		0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 44	ug/kg	0.630		1.17		0.582		0.268		0.359		0.571		0.764		1.16		1.47	
PCB 46	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U

Phase I Clams - PCB Congeners

Station Number:		DU5-1		DU5-3		DU5-4		DU6-1		DU6-2		DU6-3		DU6-4		DU7-1		DU7-2	
USACE Sample ID:		BI-23SEP20-DU5-1		BI-23SEP20-DU5-3		BI-23SEP20-DU5-4		BI-23SEP20-DU6-1		BI-23SEP20-DU6-2		BI-24SEP20-DU6-3		BI-24SEP20-DU6-4		BI-24SEP20-DU7-1		BI-24SEP20-DU7-2	
Lab Sample ID:		20J0103-08		20J0103-06		20J0103-07		20J0103-09		20J0103-10		20J0104-01		20J0104-02		20J0104-03		20J0104-04	
Lab Sample Delivery Group:		20J0103		20J0103		20J0103		20J0103		20J0103		20J0104		20J0104		20J0104		20J0104	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 47/49	ug/kg	0.284		0.540		0.260		0.074	U	0.075	U	0.074	U	0.076	U	0.075	U	0.075	U
PCB 48	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 5	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 51	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 52/45	ug/kg	1.03		1.55		0.856		0.074	U	0.075	U	0.876		0.076	U	0.712		1.19	
PCB 53	ug/kg	0.139		0.284		0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 56/60	ug/kg	0.444		0.479		0.433		0.378		0.390		0.437		0.518		0.431		0.455	
PCB 6	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 63	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 64	ug/kg	0.266		0.327		0.194		0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 66	ug/kg	0.549		0.795		0.417		0.293		0.280		0.544		0.651		0.426		0.603	
PCB 67/41/100	ug/kg	0.111	U	0.114	U	0.113	U	0.111	U	0.112	U	0.111	U	0.114	U	0.113	U	0.112	U
PCB 69	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 7	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 70	ug/kg	0.988		1.08		0.657		0.320		0.352		0.751		1.06		0.399		0.740	
PCB 71	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 73	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 74	ug/kg	0.400		0.389		0.256		0.206		0.164		0.282		0.408		0.199	J	0.321	
PCB 75	ug/kg	0.111	J	0.207		0.079	J	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 77	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 78	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 8	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 82	ug/kg	0.295		0.316		0.233		0.193		0.187		0.037	U	0.285		0.038	U	0.037	U
PCB 83	ug/kg	0.239		0.277		0.202		0.203		0.037	U	0.240		0.231		0.038	U	0.150	
PCB 84	ug/kg	0.625		0.742		0.481		0.319		0.367		0.502		0.444		0.038	U	0.366	
PCB 85	ug/kg	0.723		0.038	U	0.593		0.318		0.362		0.037	U	0.038	U	0.038	U	0.037	U
PCB 9	ug/kg	0.037	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.037	U
PCB 90/101	ug/kg	2.64		3.75		2.16		0.963		1.10		2.20		2.73		2.33		3.51	
PCB 91	ug/kg	0.409		0.532		0.285		0.037	U	0.226		0.361		0.311		0.224		0.330	
PCB 92	ug/kg	0.582		0.783		0.487		0.328		0.325		0.589		0.604		0.359		0.485	
PCB 93	ug/kg	0.220		0.259		0.19		0.323		0.273		0.404		0.373		0.259		0.192	
PCB 95/155	ug/kg	1.77		2.60		1.34		0.610		0.743		1.54		1.84		2.15		2.72	
PCB 97	ug/kg	1.17		1.92		0.989		0.462		0.673		1.14		1.39		2.02		2.43	
PCB 99	ug/kg	1.29		1.93		1.10		0.616		0.560		1.22		1.60		1.33		1.87	

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Phase I Clams - PCB Congeners

Station Number:		DU7-3		DU7-4		DU8-1		DU8-2		DU8-3		DU8-4		DU8-4D		DU9-1	
USACE Sample ID:		BI-24SEP20-DU7-3		BI-24SEP20-DU7-4		BI-24SEP20-DU8-1		BI-24SEP20-DU8-2		BI-24SEP20-DU8-3		BI-24SEP20-DU8-4		BI-24SEP20-DU8-4 FD		BI-24SEP20-DU9-1	
Lab Sample ID:		20J0104-05		20J0104-06		20J0104-07		20J0104-08		20J0104-09		20J0104-10		B21B016-DUP2		20J0105-01	
Lab Sample Delivery Group:		20J0104		20J0104		20J0104		20J0104		20J0104		20J0104		20J0104		20J0105	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**66.8**		**59.8**		**10.5**		**11.4**		**17.1**		**12.2**		**6.25**		**68.3**	
PCB 10	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 103	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.045	J	0.037	U
PCB 104	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 105	ug/kg	2.66		2.30		0.038	U	0.379		0.540		0.404		0.32		1.77	
PCB 107	ug/kg	0.131		0.126		0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.068	J
PCB 110	ug/kg	5.02		4.10		0.296		0.440		0.810		0.377		0.30		2.99	
PCB 114	ug/kg	0.111	J	0.107		0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.052	J
PCB 115/87	ug/kg	1.50		1.23		0.076	U	0.073	U	0.074	U	0.074	U	0.074	U	0.468	
PCB 117/81	ug/kg	0.074	U	0.072	U	0.076	U	0.073	U	0.074	U	0.074	U	0.074	U	0.074	
PCB 118	ug/kg	8.72		8.68		0.632		1.03		1.93		1.17		0.88		11.7	
PCB 119	ug/kg	0.369		0.315		0.233		0.232		0.270		0.037	U	0.037	U	0.377	
PCB 12	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 121	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 124	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 126/129/178	ug/kg	0.111	U	0.108	U	0.114	U	0.109	U	0.111	U	0.11	U	0.111	U	0.339	J
PCB 128/174/202	ug/kg	0.111	U	0.108	U	0.114	U	0.109	U	0.111	U	1.32		0.64		1.12	
PCB 13	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 130	ug/kg	0.372		0.333		0.038	U	0.036	U	0.124		0.124		0.037	U	0.286	
PCB 131/122/142	ug/kg	0.111	U	0.108	U	0.114	U	0.109	U	0.111	U	0.11	U	0.111	U	0.112	U
PCB 132	ug/kg	1.03		0.759		0.038	U	0.036	U	0.220		0.244		0.19		0.482	
PCB 134	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.208	
PCB 135	ug/kg	0.794		0.670		0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.553	
PCB 136	ug/kg	0.331		0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.158	
PCB 137	ug/kg	0.510		0.500		0.038	U	0.036	U	0.210		0.037	U	0.037	U	0.506	
PCB 138/163/164	ug/kg	6.24		5.93		0.995		1.14		1.58		0.11	U	0.111	U	7.14	
PCB 14	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 141	ug/kg	0.287		0.324		0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 144	ug/kg	0.263		0.231		0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.160	
PCB 146	ug/kg	0.781		0.737		0.038	U	0.202		0.236		0.037	U	0.037	U	0.812	
PCB 147	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 149/123	ug/kg	2.63		2.30		0.437		0.442		0.583		0.469		0.55		2.47	
PCB 15/17	ug/kg	0.262		0.072	U	0.076	U	0.073	U	0.189	J	0.074	U	0.074	U	1.16	
PCB 151	ug/kg	0.501		0.409		0.157		0.137		0.168		0.037	U	0.037	U	0.341	
PCB 153	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 154	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 156	ug/kg	0.891		0.859		0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	1.23	
PCB 157/201	ug/kg	0.457		0.388		0.406		0.341		0.074		0.415		0.47		0.470	
PCB 158	ug/kg	0.624		0.618		0.038	U	0.036	U	0.220		0.037	U	0.037	U	0.626	
PCB 16	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.072	J
PCB 165	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 167	ug/kg	0.640		0.630		0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.971	
PCB 170/203	ug/kg	0.074	U	0.570		0.076	U	0.073	U	0.074	U	0.074	U	0.074	U	0.495	
PCB 171/172	ug/kg	0.074	U	0.072	U	0.076	U	0.073	U	0.074	U	0.074	U	0.074	U	0.074	U

Phase I Clams - PCB Congeners

Station Number:		DU7-3		DU7-4		DU8-1		DU8-2		DU8-3		DU8-4		DU8-4D		DU9-1	
USACE Sample ID:		BI-24SEP20-DU7-3		BI-24SEP20-DU7-4		BI-24SEP20-DU8-1		BI-24SEP20-DU8-2		BI-24SEP20-DU8-3		BI-24SEP20-DU8-4		BI-24SEP20-DU8-4 FD		BI-24SEP20-DU9-1	
Lab Sample ID:		20J0104-05		20J0104-06		20J0104-07		20J0104-08		20J0104-09		20J0104-10		B21B016-DUP2		20J0105-01	
Lab Sample Delivery Group:		20J0104		20J0104		20J0104		20J0104		20J0104		20J0104		20J0104		20J0105	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 173	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 175	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 176	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 177	ug/kg	0.353		0.302		0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 179	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 18	ug/kg	0.194		0.036	U	0.038	U	0.036	U	0.355		0.037	U	0.037	U	0.665	
PCB 180	ug/kg	0.632		0.630		0.410		0.379		0.354		0.421		0.38		0.849	
PCB 183	ug/kg	0.438		0.347		0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.404	
PCB 184	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 185	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 187	ug/kg	0.415		0.386		0.208		0.211		0.182		0.223		0.18		0.037	U
PCB 189	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 19	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 190/199	ug/kg	0.074	U	0.388		0.076	U	0.073	U	0.074	U	0.074	U	0.074	U	0.395	
PCB 191	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 192	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 193	ug/kg	0.174		0.036	U	0.174		0.036	U	0.037	U	0.165		0.17		0.184	
PCB 194	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 195	ug/kg	0.206		0.216		0.215		0.036	U	0.037	U	0.190		0.21		0.037	U
PCB 196	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 197	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 20	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 200	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 205	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 206	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 207	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 208	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 209	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 22	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 24/27	ug/kg	0.074	U	0.072	U	0.076	U	0.073	U	0.074	U	0.074	U	0.074	U	0.670	
PCB 25/54	ug/kg	0.074	U	0.072	U	0.076	U	0.073	U	0.074	U	0.074	U	0.074	U	0.074	U
PCB 26	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 28/31	ug/kg	0.074	U	0.072	U	0.076	U	0.073	U	0.074	U	0.074	U	0.074	U	0.074	U
PCB 29	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 32	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.203	
PCB 33	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 34	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 35	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 37/59	ug/kg	0.074	U	0.072	U	0.076	U	0.073	U	0.074	U	0.074	U	0.074	U	0.074	U
PCB 4	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 40	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 42	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 44	ug/kg	1.46		1.37		0.038	U	0.189		0.469		0.037	U	0.17		2.84	
PCB 46	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U

Phase I Clams - PCB Congeners

Station Number:		DU7-3		DU7-4		DU8-1		DU8-2		DU8-3		DU8-4		DU8-4D		DU9-1	
USACE Sample ID:		BI-24SEP20-DU7-3		BI-24SEP20-DU7-4		BI-24SEP20-DU8-1		BI-24SEP20-DU8-2		BI-24SEP20-DU8-3		BI-24SEP20-DU8-4		BI-24SEP20-DU8-4 FD		BI-24SEP20-DU9-1	
Lab Sample ID:		20J0104-05		20J0104-06		20J0104-07		20J0104-08		20J0104-09		20J0104-10		B21B016-DUP2		20J0105-01	
Lab Sample Delivery Group:		20J0104		20J0104		20J0104		20J0104		20J0104		20J0104		20J0104		20J0105	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 47/49	ug/kg	0.074	U	0.072	U	0.076	U	0.073	U	0.074	U	0.074	U	0.074	U	0.074	U
PCB 48	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 5	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 51	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.312	
PCB 52/45	ug/kg	2.18		1.77		0.076	U	0.073	U	0.074	U	0.074	U	0.074	U	1.59	
PCB 53	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	1.06	
PCB 56/60	ug/kg	0.593		0.540		0.390		0.402		0.428		0.448		0.42		0.578	
PCB 6	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 63	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 64	ug/kg	0.350		0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 66	ug/kg	0.991		0.872		0.038	U	0.036	U	0.305		0.037	U	0.037	U	0.794	
PCB 67/41/100	ug/kg	0.111	U	0.108	U	0.114	U	0.109	U	0.111	U	0.11	U	0.111		0.112	U
PCB 69	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 7	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 70	ug/kg	1.63		1.24		0.038	U	0.036	U	0.258		0.037	U	0.037	U	0.766	
PCB 71	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 73	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 74	ug/kg	0.579		0.461		0.038	U	0.036	U	0.169	J	0.037	U	0.037	U	0.324	
PCB 75	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 77	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 78	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 8	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 82	ug/kg	0.358		0.268		0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 83	ug/kg	0.303		0.259		0.038	U	0.036	U	0.037	U	0.167		0.037	U	0.139	
PCB 84	ug/kg	1.00		0.674		0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 85	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 9	ug/kg	0.037	U	0.036	U	0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U
PCB 90/101	ug/kg	5.17		4.34		0.492		0.614		0.977		0.692		0.49		4.33	
PCB 91	ug/kg	0.639		0.511		0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.419	
PCB 92	ug/kg	0.855		0.679		0.038	U	0.036	U	0.037	U	0.037	U	0.037	U	0.505	
PCB 93	ug/kg	0.322		0.377		0.038	U	0.036	U	0.396		0.037	U	0.037	U	0.577	
PCB 95/155	ug/kg	3.75		3.33		0.192	J	0.073	U	0.638		0.074	U	0.074	U	4.01	
PCB 97	ug/kg	2.85		2.79		0.239		0.323		0.666		0.383		0.31		4.29	
PCB 99	ug/kg	2.88		2.56		0.248		0.370		0.591		0.371		0.41		2.35	

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Phase I Clams - PCB Congeners

Station Number:		DU9-2		DU9-3		DU9-3D		DU9-4		DU10-1		DU10-2		DU10-3		DU10-4		REF-1-1	
USACE Sample ID:		BI-24SEP20-DU9-2		BI-24SEP20-DU9-3		BI-24SEP20-DU9-3 FD		BI-24SEP20-DU9-4		BI-25SEP20-DU10-1		BI-25SEP20-DU10-2		BI-25SEP20-DU10-3		BI-25SEP20-DU10-4		BI-22SEP20-REF1-1	
Lab Sample ID:		20J0105-02		20J0105-03		B21B015-DUP1		20J0105-04		20J0105-05		20J0105-06		20J0105-07/RE1/RE2		20J0105-08/RE1		20J0105-09	
Lab Sample Delivery Group:		20J0105		20J0105		20J0105		20J0105		20J0105		20J0105		20J0105		20J0105		20J0105	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**14.2**		**37.4**		**45.4**		**13.1**		**117**		**83.1**		**4451**		**148**		**11.7**	
PCB 10	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.430		0.035	U	0.037	U
PCB 103	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	1.34		0.035	U	0.037	U
PCB 104	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 105	ug/kg	0.525		0.980		1.2		0.384		4.22		2.59		146	J+	4.54		0.375	
PCB 107	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.190		0.102	J	7.39		0.217		0.037	U
PCB 110	ug/kg	0.546		1.75		2.2		0.494		7.56		4.04		356	J+	7.55		0.402	
PCB 114	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.156		0.081	J	5.40		0.120		0.037	U
PCB 115/87	ug/kg	0.075	U	0.076	U	0.074		0.074	U	2.07		1.03		114	J+	1.60		0.073	U
PCB 117/81	ug/kg	0.075	U	0.076	U	0.074		0.074	U	0.433		0.283		11.1		0.262		0.073	U
PCB 118	ug/kg	2.06		6.14		9.5		1.33		16.4		13.3		513	J+	34.2	J+	0.911	
PCB 119	ug/kg	0.038	U	0.338		0.17		0.298		0.439		0.445		5.32		0.274		0.464	
PCB 12	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 121	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 124	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	14.3		0.035	U	0.037	U
PCB 126/129/178	ug/kg	0.113	U	0.113	U	0.111		0.291	J	0.109	U	0.654		0.111	U	0.105	U	0.11	U
PCB 128/174/202	ug/kg	0.873		0.714		0.94		0.592		2.28		1.59		106	J+	2.89		0.573	
PCB 13	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 130	ug/kg	0.038	U	0.170		0.20		0.037	U	0.604		0.378		26.8	J+	0.662		0.131	
PCB 131/122/142	ug/kg	0.113	U	0.113	U	0.111	U	0.112	U	0.109	U	0.114	U	0.111	U	0.105	U	0.11	U
PCB 132	ug/kg	0.038	U	0.256		0.32		0.173		1.66		0.903		87.3	J+	1.49		0.037	U
PCB 134	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.406		0.038	U	15.3		0.035	U	0.037	U
PCB 135	ug/kg	0.038	U	0.268		0.037	U	0.037	U	0.891		0.733		27.1	J+	1.03		0.037	U
PCB 136	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.535		0.038	U	26.7	J+	0.035	U	0.037	U
PCB 137	ug/kg	0.038	U	0.334		0.43		0.176		0.784		0.539		23.2	J+	0.940		0.037	U
PCB 138/163/164	ug/kg	1.84		4.01	U	5.9		1.15		11.5		8.59		434	J+	16.4		1.10	
PCB 14	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 141	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.387		0.318		10.8		0.035	U	0.037	U
PCB 144	ug/kg	0.038	U	0.104	J	0.13		0.037	U	0.399		0.336		10.6		0.677		0.037	U
PCB 146	ug/kg	0.235		0.488		0.62		0.037	U	1.32		1.03		41.3		1.89		0.037	U
PCB 147	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	6.34		0.035	U	0.037	U
PCB 149/123	ug/kg	0.582		1.51		2.0		0.404		4.88		3.10		174	J+	5.62		0.455	
PCB 15/17	ug/kg	0.075	U	0.076	U	0.074	U	0.074	U	0.656		0.416		32.0		0.574		0.073	U
PCB 151	ug/kg	0.143		0.220		0.26		0.037	U	0.830		0.483		35.4	J+	0.833		0.153	
PCB 153	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 154	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 156	ug/kg	0.038	U	0.755		0.91		0.037	U	1.63		1.34		51.8	J+	2.07		0.037	U
PCB 157/201	ug/kg	0.075	U	0.392		0.074	U	0.382		0.073	U	0.076	U	13.3		0.07	U	0.073	U
PCB 158	ug/kg	0.038	U	0.368		0.48		0.037	U	1.21		0.772		48.8	J+	1.40		0.037	U
PCB 16	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	2.54		0.035	U	0.037	U
PCB 165	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 167	ug/kg	0.038	U	0.552		0.72		0.037	U	1.03		1.12		34.9	J+	1.88		0.037	U
PCB 170/203	ug/kg	0.075	U	0.076	U	0.074	U	0.074	U	0.701		0.582		12.9		0.939		0.073	U
PCB 171/172	ug/kg	0.075	U	0.076	U	0.074	U	0.074	U	0.073	U	0.076	U	9.35		0.07	U	0.073	U

Phase I Clams - PCB Congeners

Station Number:		DU9-2		DU9-3		DU9-3D		DU9-4		DU10-1		DU10-2		DU10-3		DU10-4		REF-1-1	
USACE Sample ID:		BI-24SEP20-DU9-2		BI-24SEP20-DU9-3		BI-24SEP20-DU9-3 FD		BI-24SEP20-DU9-4		BI-25SEP20-DU10-1		BI-25SEP20-DU10-2		BI-25SEP20-DU10-3		BI-25SEP20-DU10-4		BI-22SEP20-REF1-1	
Lab Sample ID:		20J0105-02		20J0105-03		B21B015-DUP1		20J0105-04		20J0105-05		20J0105-06		20J0105-07/RE1/RE2		20J0105-08/RE1		20J0105-09	
Lab Sample Delivery Group:		20J0105		20J0105		20J0105		20J0105		20J0105		20J0105		20J0105		20J0105		20J0105	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 173	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.976		0.035	U	0.037	U
PCB 175	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	1.01		0.035	U	0.037	U
PCB 176	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	1.79		0.035	U	0.037	U
PCB 177	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.486		0.433		11.3		0.656		0.037	U
PCB 179	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	5.44		0.035	U	0.037	U
PCB 18	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.396		0.378		22.7	J+	0.856		0.037	U
PCB 180	ug/kg	0.038	U	0.497		0.66		0.037	U	0.822		0.871		22.9		0.035	U	0.037	U
PCB 183	ug/kg	0.038	U	0.180		0.23		0.037	U	0.412		0.347		12.5		0.841		0.191	
PCB 184	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 185	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	1.74		0.035	U	0.037	U
PCB 187	ug/kg	0.038	U	0.239		0.31		0.037	U	0.578		0.498		22.7	J+	1.39		0.037	U
PCB 189	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.744		0.035	U	0.037	U
PCB 19	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	5.35		0.035	U	0.037	U
PCB 190/199	ug/kg	0.075	U	0.076	U	0.44		0.074	U	0.537		0.497		8.04		0.813		0.073	U
PCB 191	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.850		0.035	U	0.037	U
PCB 192	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 193	ug/kg	0.038	U	0.172		0.18		0.037	U	0.036	U	0.188		1.46		0.035	U	0.174	
PCB 194	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.739		0.035	U	0.037	U
PCB 195	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.201		0.221		1.69		0.247		0.037	U
PCB 196	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	1.43		0.035	U	0.037	U
PCB 197	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.224		0.035	U	0.037	U
PCB 20	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.492		0.035	U	0.037	U
PCB 200	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.757		0.035	U	0.037	U
PCB 205	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.668		0.035	U	0.037	U
PCB 206	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	1.10		0.035	U	0.037	U
PCB 207	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 208	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.400		0.035	U	0.037	U
PCB 209	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.227		0.035	U	0.037	U
PCB 22	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	1.24		0.152		0.037	U
PCB 24/27	ug/kg	0.075	U	0.076	U	0.074	U	0.074	U	0.360		0.416		11.9		0.663		0.073	U
PCB 25/54	ug/kg	0.075	U	0.076	U	0.074	U	0.074	U	0.073	U	0.076	U	2.40		0.07	U	0.073	U
PCB 26	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	2.78		0.035	U	0.037	U
PCB 28/31	ug/kg	0.075	U	0.076	U	0.074	U	0.074	U	0.553		0.076	U	10.6		0.07	U	0.073	U
PCB 29	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 32	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.192		0.134		3.83		0.035	U	0.037	U
PCB 33	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.370		0.035	U	0.037	U
PCB 34	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 35	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 37/59	ug/kg	0.075	U	0.076	U	0.074	U	0.074	U	0.073	U	0.076	U	0.074	U	0.07	U	0.073	U
PCB 4	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	20.6	J+	0.035	U	0.037	U
PCB 40	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	2.91		0.035	U	0.037	U
PCB 42	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 44	ug/kg	0.266		1.60		2.1		0.311		3.44		3.13		151	J+	5.31		0.037	U
PCB 46	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	1.38		0.035	U	0.037	U

Phase I Clams - PCB Congeners

Station Number:		DU9-2		DU9-3		DU9-3D		DU9-4		DU10-1		DU10-2		DU10-3		DU10-4		REF-1-1	
USACE Sample ID:		BI-24SEP20-DU9-2		BI-24SEP20-DU9-3		BI-24SEP20-DU9-3 FD		BI-24SEP20-DU9-4		BI-25SEP20-DU10-1		BI-25SEP20-DU10-2		BI-25SEP20-DU10-3		BI-25SEP20-DU10-4		BI-22SEP20-REF1-1	
Lab Sample ID:		20J0105-02		20J0105-03		B21B015-DUP1		20J0105-04		20J0105-05		20J0105-06		20J0105-07/RE1/RE2		20J0105-08/RE1		20J0105-09	
Lab Sample Delivery Group:		20J0105		20J0105		20J0105		20J0105		20J0105		20J0105		20J0105		20J0105		20J0105	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 47/49	ug/kg	0.075	U	0.076	U	0.074	U	0.074	U	1.04		0.521		30.3		0.07	U	0.073	U
PCB 48	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	1.40		0.035	U	0.037	U
PCB 5	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 51	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	4.43		0.035	U	0.037	U
PCB 52/45	ug/kg	0.075	U	0.707		1.0		0.273		3.32		1.77		138	J+	2.63		0.073	U
PCB 53	ug/kg	0.038	U	0.211		0.22		0.037	U	0.657		0.757		43.0	J+	2.04		0.037	U
PCB 56/60	ug/kg	0.075	U	0.470		0.49		0.405		0.804		0.658		14.3		0.737		0.467	
PCB 6	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.893		0.035	U	0.037	U
PCB 63	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	1.74		0.035	U	0.037	U
PCB 64	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.514		0.038	U	14.00		0.035	U	0.037	U
PCB 66	ug/kg	0.038	U	0.446		0.60		0.037	U	1.65		1.04		45.3	J+	1.45		0.037	U
PCB 67/41/100	ug/kg	0.113	U	0.113	U	0.111	U	0.112	U	0.109	U	0.114	U	2.15		0.105	U	0.11	U
PCB 69	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 7	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 70	ug/kg	0.038	U	0.307		0.39		0.037	U	2.59		1.42		98.0		1.51		0.196	
PCB 71	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	1.56		0.035	U	0.037	U
PCB 73	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.205		0.035	U	0.037	U
PCB 74	ug/kg	0.038	U	0.161	J	0.21	J	0.037	U	0.985		0.526		31.5	J+	0.643		0.037	U
PCB 75	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.409		0.216		13.4		0.035	U	0.037	U
PCB 77	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.520		0.035	U	0.037	U
PCB 78	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 8	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 82	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.466		0.335		24.4	J+	0.322		0.037	U
PCB 83	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.380		0.262		15.0		0.238		0.037	U
PCB 84	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	1.19		0.828		58.8	J+	0.684		0.037	U
PCB 85	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	60.8	J+	0.035	U	0.037	U
PCB 9	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.036	U	0.038	U	0.037	U	0.035	U	0.037	U
PCB 90/101	ug/kg	0.820		2.47		3.3		0.769		9.03		5.30		338	J+	9.71		0.630	
PCB 91	ug/kg	0.038	U	0.251		0.26		0.037	U	1.07		0.623		41.1	J+	0.751		0.037	U
PCB 92	ug/kg	0.038	U	0.308		0.39		0.037	U	1.26		0.823		54.1	J+	1.06		0.037	U
PCB 93	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.692		0.841		1.50		0.035	U	0.037	U
PCB 95/155	ug/kg	0.354		2.30		3.3		0.464		6.45		4.76		325	J+	9.08		0.309	
PCB 97	ug/kg	0.616		2.39		3.2		0.456		5.69		4.70		179	J+	8.73		0.337	
PCB 99	ug/kg	0.521		1.41		1.9		0.331		5.02		2.98		171	J+	6.06		0.300	

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Phase I Clams - PCB Congeners

Station Number:		REF-1-2		REF-1-3		REF 1-4		REF 2-1		REF 2-2		REF2-2 DUP		REF 2-3		REF 2-4	
USACE Sample ID:		BI-22SEP20-REF1-2		BI-22SEP20-REF1-3		BI-22SEP20-REF1-4		BI-25SEP20-REF2-1		BI-25SEP20-REF2-2		BI-25SEP20-REF2-2		BI-25SEP20-REF2-3		BI-25SEP20-REF2-4	
Lab Sample ID:		20J0105-10		20J0106-01		20J0106-02		20J0106-03		20J0106-04		B21B016-DUP3		20J0106-05		20J0106-06	
Lab Sample Delivery Group:		20J0105		20J0106		20J0106		20J0106		20J0106		20J0106		20J0106		20J0106	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**26.1**		**34.3**		**33.2**		**12.4**		**8.18**		**7.19**		**8.29**		**8.79**	
PCB 10	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 103	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 104	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 105	ug/kg	0.564		1.19		1.00		0.304		0.038	U	0.036	U	0.219		0.037	U
PCB 107	ug/kg	0.036	U	0.078	J	0.076	J	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 110	ug/kg	0.816		2.26		1.85		0.452		0.092	J	0.096	J	0.035	U	0.037	U
PCB 114	ug/kg	0.036	U	0.054	J	0.044	J	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 115/87	ug/kg	0.071	U	0.807		0.616		0.071	U	0.076	U	0.073	U	0.07	U	0.073	U
PCB 117/81	ug/kg	0.071	U	0.075	U	0.075	U	0.071	U	0.076	U	0.073	U	0.07	U	0.073	U
PCB 118	ug/kg	1.55		3.15		2.93		0.719		0.299		0.21		0.492		0.745	
PCB 119	ug/kg	0.620		0.115	J	0.384		0.179		0.153		0.17		0.159		0.152	
PCB 12	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 121	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 124	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 126/129/178	ug/kg	0.107	U	0.113	U	0.113	U	0.106	U	0.114	U	0.109	U	0.104	U	0.11	U
PCB 128/174/202	ug/kg	7.63		1.02		0.859		0.629		0.114	U	0.109	U	0.104	U	0.750	
PCB 13	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 130	ug/kg	0.142		0.200		0.203		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 131/122/142	ug/kg	0.107	U	0.113	U	0.113	U	0.106	U	0.114	U	0.109	U	0.104	U	0.11	U
PCB 132	ug/kg	0.342		0.667		0.598		0.279		0.038	U	0.036	U	0.035	U	0.037	U
PCB 134	ug/kg	0.036	U	0.227		0.038	U	0.361		0.125	J	0.096	J	0.035	U	0.037	U
PCB 135	ug/kg	0.534		0.669		0.713		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 136	ug/kg	0.036	U	0.038	U	0.153		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 137	ug/kg	0.182		0.267		0.256		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 138/163/164	ug/kg	1.59		2.82		2.66		1.03		0.680		0.52		0.760		0.11	U
PCB 14	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 141	ug/kg	0.036	U	0.038	U	0.208		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 144	ug/kg	0.036	U	0.195		0.209		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 146	ug/kg	0.238		0.407		0.348		0.035	U	0.038	U	0.036	U	0.035	U	0.194	
PCB 147	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.076	U	0.036	U	0.035	U	0.037	U
PCB 149/123	ug/kg	0.761		1.48		1.22		0.249		0.373		0.44		0.303		0.492	
PCB 15/17	ug/kg	0.071	U	0.075	U	0.075	U	0.071	U	0.076		0.073	U	0.07	U	0.073	U
PCB 151	ug/kg	0.193		0.276		0.284		0.163		0.109	J	0.036	U	0.035	U	0.037	U
PCB 153	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 154	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 156	ug/kg	0.036	U	0.550		0.535		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 157/201	ug/kg	0.071	U	0.496		0.449		0.071	U	0.365		0.073	U	0.341		0.073	U
PCB 158	ug/kg	0.243		0.402		0.333		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 16	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 165	ug/kg	0.036	U	0.038	U	0.038	U	0.239		0.038	U	0.036	U	0.035	U	0.037	U
PCB 167	ug/kg	0.036	U	0.358		0.353		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 170/203	ug/kg	0.071	U	0.432		0.491		0.071	U	0.076	U	0.073	U	0.07	U	0.073	U
PCB 171/172	ug/kg	0.071	U	0.075	U	0.075	U	0.071	U	0.076	U	0.073	U	0.07	U	0.073	U

Phase I Clams - PCB Congeners

Station Number:		REF-1-2		REF-1-3		REF 1-4		REF 2-1		REF 2-2		REF2-2 DUP		REF 2-3		REF 2-4	
USACE Sample ID:		BI-22SEP20-REF1-2		BI-22SEP20-REF1-3		BI-22SEP20-REF1-4		BI-25SEP20-REF2-1		BI-25SEP20-REF2-2		BI-25SEP20-REF2-2		BI-25SEP20-REF2-3		BI-25SEP20-REF2-4	
Lab Sample ID:		20J0105-10		20J0106-01		20J0106-02		20J0106-03		20J0106-04		B21B016-DUP3		20J0106-05		20J0106-06	
Lab Sample Delivery Group:		20J0105		20J0106		20J0106		20J0106		20J0106		20J0106		20J0106		20J0106	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 173	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 175	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 176	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 177	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 179	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 18	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 180	ug/kg	0.036	U	0.477		0.487		0.035	U	0.302		0.23		0.276		0.037	U
PCB 183	ug/kg	0.126		0.163		0.149		0.306		0.038	U	0.036	U	0.035	U	0.037	U
PCB 184	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 185	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 187	ug/kg	0.036	U	0.270		0.257		0.274		0.038	U	0.036	U	0.035	U	0.037	U
PCB 189	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 19	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 190/199	ug/kg	0.071	U	0.075	U	0.075	U	0.071	U	0.076	U	0.073	U	0.07	U	0.073	U
PCB 191	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 192	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 193	ug/kg	0.168		0.170		0.181		0.035	U	0.038	U	0.036	U	0.152		0.164	
PCB 194	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 195	ug/kg	0.178		0.038	U	0.207		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 196	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 197	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 20	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 200	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 205	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 206	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 207	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 208	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 209	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 22	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 24/27	ug/kg	0.071	U	0.075	U	0.075	U	0.071	U	0.076	U	0.073	U	0.07	U	0.073	U
PCB 25/54	ug/kg	0.071	U	0.075	U	0.075	U	0.071	U	0.076	U	0.073	U	0.07	U	0.073	U
PCB 26	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 28/31	ug/kg	0.071	U	0.075	U	0.075	U	0.071	U	0.076	U	0.073	U	0.07	U	0.073	U
PCB 29	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 32	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 33	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 34	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 35	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 37/59	ug/kg	0.071	U	0.075	U	0.075	U	0.071	U	0.076	U	0.073	U	0.07	U	0.073	U
PCB 4	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 40	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 42	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 44	ug/kg	0.036	U	0.622		0.633		0.190		0.038	U	0.036	U	0.035	U	0.037	U
PCB 46	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U

Phase I Clams - PCB Congeners

Station Number:		REF-1-2		REF-1-3		REF 1-4		REF 2-1		REF 2-2		REF2-2 DUP		REF 2-3		REF 2-4	
USACE Sample ID:		BI-22SEP20-REF1-2		BI-22SEP20-REF1-3		BI-22SEP20-REF1-4		BI-25SEP20-REF2-1		BI-25SEP20-REF2-2		BI-25SEP20-REF2-2		BI-25SEP20-REF2-3		BI-25SEP20-REF2-4	
Lab Sample ID:		20J0105-10		20J0106-01		20J0106-02		20J0106-03		20J0106-04		B21B016-DUP3		20J0106-05		20J0106-06	
Lab Sample Delivery Group:		20J0105		20J0106		20J0106		20J0106		20J0106		20J0106		20J0106		20J0106	
Phase:		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I		Phase I	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 47/49	ug/kg	0.134	J	0.075	U	0.268		0.071	U	0.076	U	0.073	U	0.07	U	0.073	U
PCB 48	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 5	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 51	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 52/45	ug/kg	0.396		1.03		1.00		0.071	U	0.076	U	0.073	U	0.07	U	0.073	U
PCB 53	ug/kg	0.036	U	0.038	U	0.182		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 56/60	ug/kg	0.501		0.492		0.504		0.380		0.345		0.34		0.350		0.425	
PCB 6	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 63	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 64	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 66	ug/kg	0.312		0.485		0.453		0.192		0.038	U	0.036	U	0.123		0.037	U
PCB 67/41/100	ug/kg	0.107	U	0.113	U	0.113	U	0.106	U	0.114	U	0.109	U	0.104	U	0.11	U
PCB 69	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 7	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 70	ug/kg	0.433		0.814		0.826		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 71	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 73	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 74	ug/kg	0.159	J	0.333		0.295		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 75	ug/kg	0.152		0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 77	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 78	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 8	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 82	ug/kg	0.239		0.038	U	0.321		0.280		0.038	U	0.036	U	0.035	U	0.225	
PCB 83	ug/kg	0.036	U	0.227		0.169		0.237		0.038	U	0.036	U	0.047		0.155	
PCB 84	ug/kg	0.036	U	0.500		0.624		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 85	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 9	ug/kg	0.036	U	0.038	U	0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 90/101	ug/kg	1.07		2.28		2.15		0.555		0.283		0.22	J	0.308		0.389	
PCB 91	ug/kg	0.153		0.338		0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 92	ug/kg	0.394		0.644		0.038	U	0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 93	ug/kg	0.757		0.038	U	0.735		0.035	U	0.038	U	0.036	U	0.035	U	0.037	U
PCB 95/155	ug/kg	0.621		1.65		1.49		0.244		0.076	U	0.073	U	0.07	U	0.073	U
PCB 97	ug/kg	0.570		1.12		1.00		0.260		0.038	U	0.036	U	0.162		0.235	
PCB 99	ug/kg	0.554		1.00		1.08		0.689		0.078	J	0.061	J	0.117		0.037	U

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Phase II Clams - Identifiers

Sample ID	Collection Date	Collection Method	Collection Area	Species	Latitude	Longitude
BI-11NOV2020-A-COMP	11/11/2020	DIVER	NORTH BRADFORD	CLAM	N/A	N/A
BI-11NOV2020-B-COMP	11/11/2020	DIVER	NORTH BRADFORD	CLAM	N/A	N/A
BI-11NOV2020-C-COMP	11/11/2020	DIVER	NORTH BRADFORD	CLAM	N/A	N/A
BI-11NOV2020-D-COMP	11/11/2020	DIVER	NORTH BRADFORD	CLAM	N/A	N/A
BI-10NOV2020-E-COMP	11/10/2020	DIVER	NORTH BRADFORD	CLAM	N/A	N/A
BI-12NOV2020-F-COMP	11/12/2020	DIVER	NORTH BRADFORD	CLAM	N/A	N/A
BI-9NOV2020-G-COMP	11/9/2020	DIVER	NORTH BRADFORD	CLAM	N/A	N/A
BI-9NOV2020-H-COMP	11/9/2020	DIVER	NORTH BRADFORD	CLAM	N/A	N/A
BI-10NOV2020-I-COMP	11/10/2020	DIVER	NORTH BRADFORD	CLAM	N/A	N/A
B1-10NOV2020-I-COMP FD	11/10/2020	DIVER	NORTH BRADFORD	CLAM	N/A	N/A
BI-10NOV2020-J-COMP	11/10/2020	DIVER	NORTH BRADFORD	CLAM	N/A	N/A
BI-12NOV2020-GI 1	11/12/2020	DIVER	GOOSE ISLAND	CLAM	45°38'41.822"N	121°55'35.162"W
BI-12NOV2020-GI 2	11/12/2020	DIVER	GOOSE ISLAND	CLAM	45°38'38.646"N	121°55'42.657"W
BI-12NOV2020-GI 2 FD	11/12/2020	DIVER	GOOSE ISLAND	CLAM	45°38'38.646"N	121°55'42.657"W
BI-12NOV2020-GI 4	11/12/2020	WADING	GOOSE ISLAND	CLAM	45°38'35.497"N	121°55'45.518"W
BI-12NOV2020-GI 5	11/12/2020	DIVER	GOOSE ISLAND	CLAM	45°38'35.317"N	121°55'47.162"W
BI-12NOV2020-SO 1	11/12/2020	DIVER	SOUTH BRADFORD	CLAM	45°38'29.769"N	121°56'6.795"W
BI-12NOV2020-SO 2	11/12/2020	DIVER	SOUTH BRADFORD	CLAM	45°38'27.779"N	121°56'10.521"W
B1-12NOV2020-SO-2 FD	11/12/2020	DIVER	SOUTH BRADFORD	CLAM	45°38'27.779"N	121°56'10.521"W
BI-12NOV2020-SO 3	11/12/2020	DIVER	SOUTH BRADFORD	CLAM	45°38'26.984"N	121°56'14.77"W
BI-12NOV2020-SO 4	11/12/2020	DIVER	SOUTH BRADFORD	CLAM	45°38'26.245"N	121°56'19.77"W
BI-12NOV2020-OR 1	11/12/2020	DIVER	OREGON SHORE	CLAM	45°38'24.934"N	121°55'58.915"W
BI-12NOV2020-OR 1 FD	11/12/2020	DIVER	OREGON SHORE	CLAM	45°38'24.934"N	121°55'58.915"W
BI-12NOV2020-OR 2	11/12/2020	DIVER	OREGON SHORE	CLAM	45°38'21.993"N	121°56'4.013"W
BI-16NOV2020-OR 3	11/16/2020	DIVER	OREGON SHORE	CLAM	45°38'19.364"N	121°56'12.962"W
BI-16NOV2020-OR 4	11/16/2020	DIVER	OREGON SHORE	CLAM	45°38'16.579"N	121°56'25.297"W
REF-17NOV2020- WA 10-1	11/17/2020	DIVER	REFERENCE	CLAM	45°42'28.988"N	121°50'14.737"W
REF-17NOV2020- WA 10-2	11/17/2020	DIVER	REFERENCE	CLAM	45°42'28.953"N	121°50'14.313"W
REF-16NOV2020- WA 1-1	11/16/2020	DIVER	REFERENCE	CLAM	45°42'41.349"N	121°49'55.024"W
REF-16NOV2020- WA 1-2	11/16/2020	DIVER	REFERENCE	CLAM	45°42'41.447"N	121°49'54.77"W
REF-16NOV2020- WA 2-1	11/16/2020	DIVER	REFERENCE	CLAM	45°42'40.825"N	121°49'56.703"W
REF-16NOV2020- WA 2-1 FD	11/16/2020	DIVER	REFERENCE	CLAM	45°42'40.825"N	121°49'56.703"W
REF-16NOV2020- WA 2-2	11/16/2020	DIVER	REFERENCE	CLAM	45°42'40.536"N	121°49'56.797"W
REF-16NOV2020- WA 3-1	11/16/2020	DIVER	REFERENCE	CLAM	45°42'39.94"N	121°49'58.233"W
REF-16NOV2020- WA 3-2	11/16/2020	DIVER	REFERENCE	CLAM	45°42'40.058"N	121°49'57.979"W
REF-16NOV2020- WA 3-2 FD	11/16/2020	DIVER	REFERENCE	CLAM	45°42'40.058"N	121°49'57.979"W
REF-17NOV2020- WA 5-1	11/17/2020	DIVER	REFERENCE	CLAM	45°42'35.148"N	121°50'1.022"W
REF-17NOV2020- WA 5-2	11/17/2020	DIVER	REFERENCE	CLAM	45°42'35.283"N	121°50'0.79"W
REF-17NOV2020- WA 6-1	11/17/2020	DIVER	REFERENCE	CLAM	45°42'33.513"N	121°50'6.49"W
REF-17NOV2020- WA 6-2	11/17/2020	DIVER	REFERENCE	CLAM	45°42'33.334"N	121°50'6.298"W
REF-17NOV2020- WA 7-1	11/17/2020	DIVER	REFERENCE	CLAM	45°42'32.632"N	121°50'8.715"W
REF-17NOV2020- WA 7-2	11/17/2020	DIVER	REFERENCE	CLAM	45°42'32.363"N	121°50'8.683"W
REF-17NOV2020- WA 8-1	11/17/2020	DIVER	REFERENCE	CLAM	45°42'31.922"N	121°50'10.793"W
REF-17NOV2020- WA 8-2	11/17/2020	DIVER	REFERENCE	CLAM	45°42'31.608"N	121°50'10.78"W
REF-17NOV2020- WA 8-2 FD	11/17/2020	DIVER	REFERENCE	CLAM	45°42'31.608"N	121°50'10.78"W
REF-17NOV2020- WA 9-1	11/17/2020	DIVER	REFERENCE	CLAM	45°42'30.226"N	121°50'12.592"W
REF-17NOV2020- WA 9-2	11/17/2020	DIVER	REFERENCE	CLAM	45°42'30.37"N	121°50'12.399"W
REF-17NOV2020-WA5-2 FD	11/17/2020	DIVER	REFERENCE	CLAM	45°42'35.283"N	121°50'0.79"W

Phase II Clams - Identifiers

Sample ID	Collection Date	Collection Method	Collection Area	Species	Latitude	Longitude
BI-11NOV2020-A-1	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.855"N	121°56'20.308"W
BI-11NOV2020-A-2	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.539"N	121°56'20.29"W
BI-11NOV2020-A-3	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.553"N	121°56'21.587"W
BI-11NOV2020-B-1	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.849"N	121°56'19.011"W
BI-11NOV2020-B-2	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.563"N	121°56'17.204"W
BI-11NOV2020-B-2 FD	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.563"N	121°56'17.204"W
BI-11NOV2020-B-3	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.566"N	121°56'19.937"W
BI-11NOV2020-C-1	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.9"N	121°56'14.254"W
BI-11NOV2020-C-2	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.596"N	121°56'15.16"W
BI-11NOV2020-C-3	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.31"N	121°56'15.163"W
BI-11NOV2020-D-1	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'34.237"N	121°56'12.008"W
BI-11NOV2020-D-2	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.972"N	121°56'10.333"W
BI-11NOV2020-D-2 FD	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.972"N	121°56'10.333"W
BI-11NOV2020-D-3	11/11/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.685"N	121°56'11.601"W
BI-10NOV2020-E-1	11/10/2020	DIVER	NORTH BRADFORD	CLAM	45°38'34.328"N	121°56'7.716"W
BI-10NOV2020-E-2	11/10/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.964"N	121°56'8.564"W
BI-10NOV2020-E-2 FD	11/10/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.964"N	121°56'8.564"W
BI-10NOV2020-E-3	11/10/2020	DIVER	NORTH BRADFORD	CLAM	45°38'34.02"N	121°56'7.698"W
BI-12NOV2020-F-1	11/12/2020	DIVER	NORTH BRADFORD	CLAM	45°38'34.038"N	121°56'6.841"W
BI-12NOV2020-F-2	11/12/2020	DIVER	NORTH BRADFORD	CLAM	45°38'33.451"N	121°56'5.111"W
BI-12NOV2020-F-3	11/12/2020	DIVER	NORTH BRADFORD	CLAM	45°38'34.036"N	121°56'6.412"W
BI-9NOV2020-G-1	11/9/2020	DIVER	NORTH BRADFORD	CLAM	45°38'34.777"N	121°56'19.925"W
BI-9NOV2020-G-2	11/9/2020	DIVER	NORTH BRADFORD	CLAM	45°38'34.144"N	121°56'22.438"W
BI-9NOV2020-G-4	11/9/2020	DIVER	NORTH BRADFORD	CLAM	45°38'34.795"N	121°56'19.046"W
BI-9NOV2020-G-4 FD	11/9/2020	DIVER	NORTH BRADFORD	CLAM	45°38'34.795"N	121°56'19.046"W
BI-9NOV2020-H-1	11/9/2020	DIVER	NORTH BRADFORD	CLAM	45°38'35.157"N	121°56'14.757"W
BI-9NOV2020-H-3	11/9/2020	DIVER	NORTH BRADFORD	CLAM	45°38'35.124"N	121°56'15.614"W
BI-10NOV2020-I-1	11/10/2020	DIVER	NORTH BRADFORD	CLAM	45°38'35.494"N	121°56'12.494"W
BI-10NOV2020-I-2	11/10/2020	DIVER	NORTH BRADFORD	CLAM	45°38'35.51"N	121°56'11.197"W
BI-10NOV2020-I-3	11/10/2020	DIVER	NORTH BRADFORD	CLAM	45°38'34.879"N	121°56'11.171"W
BI-10NOV2020-J-1	11/10/2020	DIVER	NORTH BRADFORD	CLAM	45°38'35.209"N	121°56'9.41"W
BI-10NOV2020-J-3	11/10/2020	DIVER	NORTH BRADFORD	CLAM	45°38'34.601"N	121°56'9.888"W

Notes:
N/A = not applicable

Phase II Clams - Lipids and Mercury

Sample ID	Laboratory #	SDG #	Collection Area	% lipids		Mercury (mg/kg)	
BI-11NOV2020-A-COMP	20K3005-03	20K3005	NORTH BRADFORD	2.09		0.00980	
BI-11NOV2020-B-COMP	20K3005-04	20K3005	NORTH BRADFORD	2.38		0.0104	
BI-11NOV2020-C-COMP	20K3005-05	20K3005	NORTH BRADFORD	2.28		0.0105	
BI-11NOV2020-D-COMP	20K3005-06	20K3005	NORTH BRADFORD	2.49		0.00788	
BI-10NOV2020-E-COMP	20K3005-07	20K3005	NORTH BRADFORD	2.29		0.00799	
BI-12NOV2020-F-COMP	20K3005-08	20K3005	NORTH BRADFORD	2.15		0.00797	
BI-9NOV2020-G-COMP	20K3005-09	20K3005	NORTH BRADFORD	2.60		0.00984	
BI-9NOV2020-H-COMP	20K3005-02	20K3005	NORTH BRADFORD	2.47		0.0109	
BI-10NOV2020-I-COMP	20K3005-10	20K3005	NORTH BRADFORD	2.55		0.00732	
B1-10NOV2020-I-COMP FD	B21B010-DUP1/ B20L014-DUP2	20K3005	NORTH BRADFORD	2.55		0.00801	
BI-10NOV2020-J-COMP	20K3005-01	20K3005	NORTH BRADFORD	2.45		0.00920	
BI-12NOV2020-GI 1	20K3001-05	20K3001	GOOSE ISLAND	2.41		0.00871	
BI-12NOV2020-GI 2	20K3001-06	20K3001	GOOSE ISLAND	2.14		0.00939	J
BI-12NOV2020-GI 2 FD	B21C030-DUP1	20K3001	GOOSE ISLAND	2.42		NA	
BI-12NOV2020-GI 4	20K3001-07	20K3001	GOOSE ISLAND	2.17		0.00780	
BI-12NOV2020-GI 5	20K3001-08	20K3001	GOOSE ISLAND	2.63		0.00981	
BI-12NOV2020-SO 1	20K3001-01	20K3001	SOUTH BRADFORD	2.11		0.0100	
BI-12NOV2020-SO 2	20K3001-02	20K3001	SOUTH BRADFORD	2.38		0.0101	
B1-12NOV2020-SO-2 FD	B20L014-DUP1	20K3001	SOUTH BRADFORD	NA		0.00962	
BI-12NOV2020-SO 3	20K3001-03	20K3001	SOUTH BRADFORD	2.10		0.00808	
BI-12NOV2020-SO 4	20K3001-04	20K3001	SOUTH BRADFORD	2.59		0.00886	
BI-12NOV2020-OR 1	20K3001-09	20K3001	OREGON SHORE	2.45		0.00905	
BI-12NOV2020-OR 1 FD	B21C030-DUP2	20K3001	OREGON SHORE	3.11		NA	
BI-12NOV2020-OR 2	20K3001-10	20K3001	OREGON SHORE	2.63		0.00966	
BI-16NOV2020-OR 3	20K3007-10	20K3007	OREGON SHORE	2.55		0.00812	
BI-16NOV2020-OR 4	20K3006-01	20K3006	OREGON SHORE	1.89		0.00672	
REF-17NOV2020- WA 10-1	20K3007-08	20K3007	REFERENCE	2.67		0.00809	
REF-17NOV2020- WA 10-2	20K3007-09	20K3007	REFERENCE	2.51		0.00975	
REF-16NOV2020- WA 1-1	20K3006-02	20K3006	REFERENCE	2.11		0.00755	
REF-16NOV2020- WA 1-2	20K3006-03	20K3006	REFERENCE	2.48		0.00768	
REF-16NOV2020- WA 2-1	20K3006-04	20K3006	REFERENCE	2.18		0.00939	J
REF-16NOV2020- WA 2-1 FD	B21C030-DUP3	20K3006	REFERENCE	2.03		NA	
REF-16NOV2020- WA 2-2	20K3006-05	20K3006	REFERENCE	1.82		0.00704	
REF-16NOV2020- WA 3-1	20K3006-06	20K3006	REFERENCE	1.86		0.00622	
REF-16NOV2020- WA 3-2	20K3006-07	20K3006	REFERENCE	2.48		0.0113	
REF-16NOV2020- WA 3-2 FD	B21C030-DUP4	20K3006	REFERENCE	2.47		NA	
REF-17NOV2020- WA 5-1	20K3006-08	20K3006	REFERENCE	2.45		0.00640	
REF-17NOV2020- WA 5-2	20K3006-09	20K3006	REFERENCE	2.32		0.00761	
REF-17NOV2020-WA 5-2 FD	B20L014-DUP3	20K3006	REFERENCE	NA		0.00791	
REF-17NOV2020- WA 6-1	20K3006-10	20K3006	REFERENCE	1.99		0.00888	
REF-17NOV2020- WA 6-2	20K3007-01	20K3007	REFERENCE	1.87		0.00911	
REF-17NOV2020- WA 7-1	20K3007-02	20K3007	REFERENCE	2.44		0.00877	
REF-17NOV2020- WA 7-2	20K3007-03	20K3007	REFERENCE	2.93		0.00852	
REF-17NOV2020- WA 8-1	20K3007-04	20K3007	REFERENCE	2.27		0.00758	
REF-17NOV2020- WA 8-2	20K3007-05	20K3007	REFERENCE	2.65		0.00845	

Phase II Clams - Lipids and Mercury

Sample ID	Laboratory #	SDG #	Collection Area	% lipids		Mercury (mg/kg)	
REF-17NOV2020- WA 8-2 FD	B21C030-DUP5/ B20L014-DUP4	20K3007	REFERENCE	2.74		0.00751	
REF-17NOV2020- WA 9-1	20K3007-06	20K3007	REFERENCE	2.02		0.00650	
REF-17NOV2020- WA 9-2	20K3007-07	20K3007	REFERENCE	2.14		0.00827	

Notes:
NA = not analyzed
SDG = sample delivery group
mg/kg = milligrams per kilogram

Phase II Clams - Organochlorine Pesticides

Sample ID	Lab Sample ID	SDG #	Collection Area	2,4'-DDD (ug/kg)		2,4´-DDE (ug/kg)		2,4´-DDT (ug/kg)		4,4'-DDD (ug/kg)		4,4'-DDE (ug/kg)		4,4'-DDT (ug/kg)		alpha-BHC (ug/kg)		alpha-Chlordane (ug/kg)		beta-BHC (ug/kg)	
BI-11NOV2020-A-COMP	20K3005-03	20K3005	North Bradford	0.036	U	0.036	U	0.036	U	1.12		5.19		0.036	U	0.036	U	0.036	U	0.036	U
BI-11NOV2020-B-COMP	20K3005-04	20K3005	North Bradford	0.037	U	0.037	U	0.037	U	0.521		2.28		0.037	U	0.037	U	0.037	U	0.037	U
BI-11NOV2020-C-COMP	20K3005-05	20K3005	North Bradford	0.036	U	0.036	U	0.036	U	1.05		5.03		0.036	U	0.036	U	0.036	U	0.036	U
BI-11NOV2020-D-COMP	20K3005-06	20K3005	North Bradford	0.037	U	0.037	U	0.037	U	1.59		7.88		0.037	U	0.037	U	0.037	U	0.037	U
BI-10NOV2020-E-COMP	20K3005-07	20K3005	North Bradford	0.038	U	0.038	U	0.038	U	0.813		3.84		0.038	U	0.038	U	0.038	U	0.038	U
BI-12NOV2020-F-COMP	20K3005-08	20K3005	North Bradford	0.036	U	0.036	U	0.036	U	1.44		9.58		0.036	U	0.036	U	0.036	U	0.036	U
BI-9NOV2020-G-COMP	20K3005-09	20K3005	North Bradford	0.037	U	0.037	U	0.037	U	1.28		5.80	J+	0.037	U	0.037	U	0.037	U	0.037	U
BI-9NOV2020-H-COMP	20K3005-02	20K3005	North Bradford	0.037	U	0.037	U	0.037	U	0.944		4.49		0.037	U	0.037	U	0.037	U	0.037	U
BI-10NOV2020-I-COMP	20K3005-10	20K3005	North Bradford	0.037	U	0.037	U	0.037	U	1.74		7.51		0.037	U	0.037	U	0.037	U	0.037	U
B1-10NOV2020-I-COMP FD	B21B009-DUP2	20K3005	North Bradford	0.037	U	0.037	U	0.037	U	1.41		6.87		0.037	U	0.037	U	0.037	U	0.037	U
BI-10NOV2020-J-COMP	20K3005-01	20K3005	North Bradford	0.038	U	0.038	U	0.038	U	0.877		4.02		0.038	U	0.038	U	0.038	U	0.038	U
BI-12NOV2020-GI 1	20K3001-05	20K3001	Goose Island	0.036	U	2.87	J	0.038	U	2.67		11.2		1.28		0.038	U	0.036	U	0.038	U
BI-12NOV2020-GI 2	20K3001-06	20K3001	Goose Island	0.029	U	0.029	U	0.037	U	1.68		8.00		1.03		0.037	U	0.029	U	0.037	U
BI-12NOV2020-GI 2 FD	B21F161-DUP3	20K3001	Goose Island	0.037	U	0.037	U	0.037	U	1.83		7.05		0.619		0.037	U	0.037	U	0.037	U
BI-12NOV2020-GI 4	20K3001-07	20K3001	Goose Island	0.030	U	0.030	U	0.034	U	1.24		4.71		0.819		0.034	U	0.030	U	0.034	U
BI-12NOV2020-GI 5	20K3001-08	20K3001	Goose Island	0.029	U	0.029	U	0.037	U	3.05		12.7		1.32		0.037	U	0.029	U	0.037	U
BI-12NOV2020-SO 1	20K3001-01	20K3001	South Bradford	0.030	U	0.030	U	0.037	U	1.96	J	8.51		0.928	J	0.037	U	0.030	U	0.037	U
BI-12NOV2020-SO 2	20K3001-02	20K3001	South Bradford	2.03		0.030	U	0.038	U	0.983		4.38		0.861		0.038	U	0.030	U	0.038	U
BI-12NOV2020-SO 3	20K3001-03	20K3001	South Bradford	0.030	U	0.030	U	0.038	U	1.79		9.35		1.06		0.038	U	0.030	U	0.038	U
BI-12NOV2020-SO 4	20K3001-04	20K3001	South Bradford	0.038	U	0.038	U	0.033	U	2.02		9.42		0.933		0.033	U	0.038	U	0.033	U
BI-12NOV2020-OR 1	20K3001-09	20K3001	Oregon Shore	0.789	U	0.789	U	0.037	U	2.57		10.8		1.09		0.037	U	0.789	U	0.037	U
BI-12NOV2020-OR 1 FD	B21C034-DUP2	20K3001	Oregon Shore	0.038	UJ	0.038	UJ	0.038	U	2.43		11.5		1.13		0.038	U	0.038	U	0.038	U
BI-12NOV2020-OR 2	20K3001-10	20K3001	Oregon Shore	0.123	U	0.123	U	0.038	U	1.59		6.37		0.960		0.038	U	0.123	U	0.038	U
BI-16NOV2020-OR 3	20K3007-10	20K3007	Oregon Shore	0.037	U	0.037	U	0.036	U	2.15		9.18		0.589		0.036	U	0.037	U	0.036	U
BI-16NOV2020-OR 4	20K3006-01	20K3006	Oregon Shore	0.037	U	0.037	U	0.038	U	1.77		7.46		1.03		0.038	U	0.037	U	0.038	U
REF-17NOV2020- WA 10-1	20K3007-08	20K3007	Reference	0.038	U	0.038	U	0.037	U	1.83		7.83		0.440		0.037	U	0.038	U	0.037	U
REF-17NOV2020- WA 10-2	20K3007-09	20K3007	Reference	0.055	U	0.055	U	0.038	U	2.15		8.99		0.518		0.038	U	0.055	U	0.038	U
REF-16NOV2020- WA 1-1	20K3006-02	20K3006	Reference	0.038	U	0.038	U	0.038	U	1.73		8.43		0.475		0.038	U	0.038	U	0.038	U
REF-16NOV2020- WA 1-2	20K3006-03	20K3006	Reference	0.038	U	0.038	U	0.038	U	1.35		6.38		0.425		0.038	U	0.038	U	0.038	U
REF-16NOV2020- WA 2-1	20K3006-04	20K3006	Reference	0.037	U	0.037	U	0.038	U	1.63		7.49		0.434		0.038	U	0.037	U	0.038	U
REF-16NOV2020- WA 2-1 FD	B21C034-DUP3	20K3006	Reference	0.038	UJ	0.038	UJ	0.038	U	1.45		7.17		0.502		0.038	U	0.038	U	0.038	U
REF-16NOV2020- WA 2-2	20K3006-05	20K3006	Reference	0.038	U	0.038	U	0.037	U	1.09		5.58		0.307		0.037	U	0.038	U	0.037	U
REF-16NOV2020- WA 3-1	20K3006-06	20K3006	Reference	0.038	U	0.038	U	0.037	UJ	1.19	J-	5.13	J-	0.303	J-	0.037	UJ	0.038	U	0.037	UJ
REF-16NOV2020- WA 3-2	20K3006-07	20K3006	Reference	0.037	U	0.037	U	0.037	UJ	2.16	J-	8.34	J-	0.536	J-	0.037	UJ	0.037	U	0.037	UJ
REF-16NOV2020- WA 3-2 FD	B21F161-DUP2	20K3006	Reference	0.037	UJ	0.037	UJ	0.037	UJ	1.83	J-	7.05	J-	0.619	J-	0.037	UJ	0.037	UJ	0.037	UJ
REF-17NOV2020- WA 5-1	20K3006-08	20K3006	Reference	0.057	U	0.057	U	0.038	UJ	1.80	J-	7.34	J-	0.405	J-	0.038	UJ	0.057	U	0.038	UJ
REF-17NOV2020- WA 5-2	20K3006-09	20K3006	Reference	0.107	U	0.107	U	0.038	UJ	1.70	J-	7.13	J-	0.445	J-	0.038	UJ	0.107	U	0.038	UJ
REF-17NOV2020- WA 6-1	20K3006-10	20K3006	Reference	0.053	U	0.053	U	0.038	U	1.05		5.05		0.215		0.038	U	0.053	U	0.038	U
REF-17NOV2020- WA 6-2	20K3007-01	20K3007	Reference	0.038	U	0.038	U	0.038	U	1.47		6.55		0.350		0.038	U	0.038	U	0.038	U
REF-17NOV2020- WA 7-1	20K3007-02	20K3007	Reference	0.038	U	0.038	U	0.037	U	1.79		8.18		0.434		0.037	U	0.038	U	0.037	U
REF-17NOV2020- WA 7-2	20K3007-03	20K3007	Reference	0.038	U	0.038	U	0.037	U	1.75		7.61		0.430		0.037	U	0.038	U	0.037	U
REF-17NOV2020- WA 8-1	20K3007-04	20K3007	Reference	0.038	U	0.038	U	0.036	U	2.12		8.77		0.456		0.036	U	0.038	U	0.036	U

Phase II Clams - Organochlorine Pesticides

Sample ID	Lab Sample ID	SDG #	Collection Area	2,4'-DDD (ug/kg)		2,4´-DDE (ug/kg)		2,4´-DDT (ug/kg)		4,4'-DDD (ug/kg)		4,4'-DDE (ug/kg)		4,4'-DDT (ug/kg)		alpha-BHC (ug/kg)		alpha-Chlordane (ug/kg)		beta-BHC (ug/kg)	
REF-17NOV2020- WA 8-2	20K3007-05	20K3007	Reference	0.038	U	0.038	U	0.037	U	2.50		10.7		0.589		0.037	U	0.038	U	0.037	U
REF-17NOV2020- WA 8-2 FD	B21F161-DUP1	20K3007	Reference	0.036	U	0.036	U	0.036	U	2.27		11.1		0.681		0.036	U	0.036	U	0.036	U
REF-17NOV2020- WA 9-1	20K3007-06	20K3007	Reference	0.037	U	0.037	U	0.037	U	0.929		4.02		0.254		0.037	U	0.037	U	0.037	U
REF-17NOV2020- WA 9-2	20K3007-07	20K3007	Reference	0.038	U	0.038	U	0.036	U	1.19		5.20		0.299		0.036	U	0.038	U	0.036	U

Notes:
NA = not analyzed
SDG = sample delivery group
ug/kg = micrograms per kilogram
J = estimated value
J+ = estimated value that may be biased high
J- = estimated value that may be biased low
U = not detected
UJ = not detected; estimated value

Phase II Clams - Organochlorine Pesticides

Sample ID	Lab Sample ID	SDG #	Collection Area	delta-BHC (ug/kg)		Dieldrin (ug/kg)		Endosulfan I (ug/kg)		Endosulfan II (ug/kg)		Endrin (ug/kg)		Endrin aldehyde (ug/kg)		gamma-BHC (Lindane) (ug/kg)		gamma-Chlordane (ug/kg)		Methoxychlor (ug/kg)	
BI-11NOV2020-A-COMP	20K3005-03	20K3005	North Bradford	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U
BI-11NOV2020-B-COMP	20K3005-04	20K3005	North Bradford	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-11NOV2020-C-COMP	20K3005-05	20K3005	North Bradford	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U
BI-11NOV2020-D-COMP	20K3005-06	20K3005	North Bradford	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-10NOV2020-E-COMP	20K3005-07	20K3005	North Bradford	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
BI-12NOV2020-F-COMP	20K3005-08	20K3005	North Bradford	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U
BI-9NOV2020-G-COMP	20K3005-09	20K3005	North Bradford	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-9NOV2020-H-COMP	20K3005-02	20K3005	North Bradford	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-10NOV2020-I-COMP	20K3005-10	20K3005	North Bradford	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
B1-10NOV2020-I-COMP FD	B21B009-DUP2	20K3005	North Bradford	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-10NOV2020-J-COMP	20K3005-01	20K3005	North Bradford	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
BI-12NOV2020-GI 1	20K3001-05	20K3001	Goose Island	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.036	U	0.036	U	0.038	U
BI-12NOV2020-GI 2	20K3001-06	20K3001	Goose Island	0.037	U	0.029	U	0.037	U	0.037	U	0.037	U	0.029	U	0.029	U	0.029	U	0.037	U
BI-12NOV2020-GI 2 FD	B21F161-DUP3	20K3001	Goose Island	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
BI-12NOV2020-GI 4	20K3001-07	20K3001	Goose Island	0.034	U	0.030	U	0.034	U	0.034	U	0.034	U	0.030	U	0.030	U	0.030	U	0.034	U
BI-12NOV2020-GI 5	20K3001-08	20K3001	Goose Island	0.037	U	0.029	U	0.037	U	0.037	U	0.037	U	0.029	U	0.029	U	0.029	U	0.037	U
BI-12NOV2020-SO 1	20K3001-01	20K3001	South Bradford	0.037	U	0.030	U	0.037	U	0.037	U	0.037	U	0.030	U	0.030	U	0.030	U	0.037	U
BI-12NOV2020-SO 2	20K3001-02	20K3001	South Bradford	0.038	U	0.030	U	0.038	U	0.038	U	0.038	U	0.030	U	0.030	U	0.030	U	0.038	U
BI-12NOV2020-SO 3	20K3001-03	20K3001	South Bradford	0.038	U	0.030	U	0.038	U	0.038	U	0.038	U	0.030	U	0.030	U	0.030	U	0.038	U
BI-12NOV2020-SO 4	20K3001-04	20K3001	South Bradford	0.033	U	0.038	U	0.033	U	0.033	U	0.033	U	0.038	U	0.038	U	0.038	U	0.033	U
BI-12NOV2020-OR 1	20K3001-09	20K3001	Oregon Shore	0.037	U	0.789	U	0.037	U	0.037	U	0.037	U	0.789	U	0.789	U	0.789	U	0.037	U
BI-12NOV2020-OR 1 FD	B21C034-DUP2	20K3001	Oregon Shore	0.038	U	0.038	UJ	0.038	U	0.038	U	0.038	U	0.038	UJ	0.038	UJ	0.038	UJ	0.038	U
BI-12NOV2020-OR 2	20K3001-10	20K3001	Oregon Shore	0.038	U	0.123	U	0.038	U	0.038	U	0.038	U	0.123	U	0.123	U	0.123	U	0.622	
BI-16NOV2020-OR 3	20K3007-10	20K3007	Oregon Shore	0.036	U	0.037	U	0.036	U	0.036	U	0.036	U	0.037	U	0.037	U	0.037	U	0.036	U
BI-16NOV2020-OR 4	20K3006-01	20K3006	Oregon Shore	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U
REF-17NOV2020- WA 10-1	20K3007-08	20K3007	Reference	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.038	U	0.037	U
REF-17NOV2020- WA 10-2	20K3007-09	20K3007	Reference	0.038	U	0.055	U	0.038	U	0.038	U	0.038	U	0.055	U	0.055	U	0.055	U	0.038	U
REF-16NOV2020- WA 1-1	20K3006-02	20K3006	Reference	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
REF-16NOV2020- WA 1-2	20K3006-03	20K3006	Reference	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
REF-16NOV2020- WA 2-1	20K3006-04	20K3006	Reference	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U
REF-16NOV2020- WA 2-1 FD	B21C034-DUP3	20K3006	Reference	0.038	U	0.038	UJ	0.038	U	0.038	U	0.038	U	0.038	UJ	0.038	UJ	0.038	UJ	5.78	
REF-16NOV2020- WA 2-2	20K3006-05	20K3006	Reference	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.038	U	0.037	U
REF-16NOV2020- WA 3-1	20K3006-06	20K3006	Reference	0.037	UJ	0.038	U	0.037	UJ	0.037	UJ	0.037	UJ	0.038	U	0.038	U	0.038	U	0.037	UJ
REF-16NOV2020- WA 3-2	20K3006-07	20K3006	Reference	0.037	UJ	0.037	U	0.037	UJ	0.037	UJ	0.037	UJ	0.037	U	0.037	U	0.037	U	0.037	UJ
REF-16NOV2020- WA 3-2 FD	B21F161-DUP2	20K3006	Reference	0.037	UJ	0.037	UJ	0.037	UJ	0.037	UJ	0.037	UJ	0.037	UJ	0.037	UJ	0.037	UJ	0.037	UJ
REF-17NOV2020- WA 5-1	20K3006-08	20K3006	Reference	0.038	UJ	0.057	U	0.038	UJ	0.038	UJ	0.038	UJ	0.057	U	0.057	U	0.057	U	0.038	UJ
REF-17NOV2020- WA 5-2	20K3006-09	20K3006	Reference	0.038	UJ	0.107	U	0.038	UJ	0.038	UJ	0.038	UJ	0.107	U	0.107	U	0.107	U	0.038	UJ
REF-17NOV2020- WA 6-1	20K3006-10	20K3006	Reference	0.038	U	0.053	U	0.038	U	0.038	U	0.038	U	0.053	U	0.053	U	0.053	U	0.038	U
REF-17NOV2020- WA 6-2	20K3007-01	20K3007	Reference	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
REF-17NOV2020- WA 7-1	20K3007-02	20K3007	Reference	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.038	U	0.037	U
REF-17NOV2020- WA 7-2	20K3007-03	20K3007	Reference	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.038	U	0.037	U
REF-17NOV2020- WA 8-1	20K3007-04	20K3007	Reference	0.036	U	0.038	U	0.036	U	0.036	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U

Phase II Clams - Organochlorine Pesticides

Sample ID	Lab Sample ID	SDG #	Collection Area	delta-BHC (ug/kg)		Dieldrin (ug/kg)		Endosulfan I (ug/kg)		Endosulfan II (ug/kg)		Endrin (ug/kg)		Endrin aldehyde (ug/kg)		gamma-BHC (Lindane) (ug/kg)		gamma-Chlordane (ug/kg)		Methoxychlor (ug/kg)	
REF-17NOV2020- WA 8-2	20K3007-05	20K3007	Reference	0.037	U	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.038	U	0.038	U	0.037	U
REF-17NOV2020- WA 8-2 FD	B21F161-DUP1	20K3007	Reference	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U
REF-17NOV2020- WA 9-1	20K3007-06	20K3007	Reference	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
REF-17NOV2020- WA 9-2	20K3007-07	20K3007	Reference	0.036	U	0.038	U	0.036	U	0.036	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U

Notes:
NA = not analyzed
SDG = sample delivery group
ug/kg = micrograms per kilogram
J = estimated value
J+ = estimated value that may be biased high
J- = estimated value that may be biased low
U = not detected
UJ = not detected; estimated value

Phase II Clams - PCB Totals

Station Number	USACE Sample ID	Lab Sample ID	SDG	Collection Area	Total PCBs (ug/kg)	
A1	B1-11NOV2020-A-1	20K3002-05	20K3002	North Bradford	15.4	
A2	B1-11NOV2020-A-2	20K3002-06	20K3002	North Bradford	15.6	
A3	B1-11NOV2020-A-3	20K3002-07	20K3002	North Bradford	18.1	
B1	B1-9NOV2020-B-1	20K3002-08	20K3002	North Bradford	16.2	
B2	B1-11NOV2020-B-2	20K3002-09	20K3002	North Bradford	22.2	
B2 DUP	B1-11NOV2020-B-2	B21C027-DUP1	20K3002	North Bradford	26.3	
B3	B1-11NOV2020-B-3	20K3002-10	20K3002	North Bradford	15.8	
C1	B1-11NOV2020-C-1	20K3003-01	20K3003	North Bradford	66.5	
C2	B1-11NOV2020-C-2	20K3003-02	20K3003	North Bradford	37.1	
C3	B1-11NOV2020-C-3	20K3003-03	20K3003	North Bradford	30.3	
D1	B1-11NOV2020-D-1	20K3003-04	20K3003	North Bradford	32.9	
D2	B1-11NOV2020-D-2	20K3003-05	20K3003	North Bradford	72.8	
D2 DUP	B1-11NOV2020-D-2 FD	B21C028-DUP1	20K3003	North Bradford	68.5	
D3	B1-11NOV2020-D-3	20K3003-06	20K3003	North Bradford	51.2	
E1	B1-10NOV2020-E-1	20K3003-07	20K3003	North Bradford	35.2	
E2	B1-10NOV2020-E-2	20K3003-08	20K3003	North Bradford	89.7	
E2 DUP	B1-10NOV2020-E-2 FD	B21C028-DUP2	20K3003	North Bradford	64.9	
E3	B1-10NOV2020-E-3	20K3003-09	20K3003	North Bradford	95.3	
F1	B1-12NOV2020-F-1	20K3003-10/RE1	20K3003	North Bradford	149	
F2	B1-12NOV2020-F-2	20K3004-01	20K3004	North Bradford	15.7	
F3	B1-12NOV2020-F-3	20K3004-02/RE1	20K3004	North Bradford	599	
G1	B1-9NOV2020-G-1	20K3004-03	20K3004	North Bradford	17.6	
G2	B1-9NOV2020-G-2	20K3004-04	20K3004	North Bradford	25.2	
G4	B1-9NOV2020-G-4	20K3004-05	20K3004	North Bradford	17.1	
G4 DUP	B1-9NOV2020-G-4 FD	B21C029-DUP1	20K3004	North Bradford	18.2	
H1	B1-9NOV2020-H-01	20K3002-03	20K3002	North Bradford	67.8	
H3	B1-9NOV2020-H-03	20K3002-04	20K3002	North Bradford	14.5	
I1	B1-10NOV2020-I-1	20K3004-06	20K3004	North Bradford	19.1	
I2	B1-10NOV2020-I-2	20K3004-07	20K3004	North Bradford	10.5	
I3	B1-10NOV2020-I-3	20K3004-08	20K3004	North Bradford	27.5	
J1	B1-10NOV2020-J-01	20K3002-01	20K3002	North Bradford	9.39	
J3	B1-10NOV2020-J-03	20K3002-02	20K3002	North Bradford	25.5	
GI1	B1-12NOV2020-G1-1	20K3001-05	20K3001	Goose Island	6.68	
GI2	B1-12NOV2020-G1-2	20K3001-06	20K3001	Goose Island	6.60	
GI2 DUP	B1-12NOV2020-G1-2 FD	B21C026-DUP1	20K3001	Goose Island	6.3	
GI4	B1-12NOV2020-G1-4	20K3001-07	20K3001	Goose Island	6.83	
GI5	B1-12NOV2020-G1-5	20K3001-08	20K3001	Goose Island	6.52	
OR1	B1-12NOV2020-OR-1	20K3001-09	20K3001	Oregon Shore	6.31	
OR1 DUP	B1-12NOV2020-OR-1 FD	B21C026-DUP2	20K3001	Oregon Shore	7.0	
OR2	B1-12NOV2020-OR-2	20K3001-10	20K3001	Oregon Shore	7.36	
OR3	B1-16NOV2020-OR-3	20K3007-10	20K3007	Oregon Shore	6.83	
OR4	B1-16NOV2020-OR-4	20K3006-01	20K3006	Oregon Shore	8.13	
SO1	B1-12NOV2020-SO-1	20K3001-01	20K3001	South Bradford	14.1	
SO2	B1-12NOV2020-SO-2	20K3001-02	20K3001	South Bradford	16.4	
SO3	B1-12NOV2020-SO-3	20K3001-03	20K3001	South Bradford	13.7	
SO4	B1-12NOV2020-SO-4	20K3001-04	20K3001	South Bradford	10.7	

Phase II Clams - PCB Totals

Station Number	USACE Sample ID	Lab Sample ID	SDG	Collection Area	Total PCBs (ug/kg)	
WA1-1	REF-16NOV2020-WA1-1	20K3006-02	20K3006	Reference	7.47	
WA1-2	REF-16NOV2020-WA1-2	20K3006-03	20K3006	Reference	6.89	
WA2-1	REF-16NOV2020-WA2-1	20K3006-04	20K3006	Reference	6.82	
WA2-1 DUP	REF-16NOV2020-WA2-1 FD	B21C024-DUP1	20K3006	Reference	6.7	
WA2-2	REF-16NOV2020-WA2-2	20K3006-05	20K3006	Reference	6.55	
WA3-1	REF-16NOV2020-WA3-1	20K3006-06	20K3006	Reference	6.34	
WA3-2	REF-16NOV2020-WA3-2	20K3006-07	20K3006	Reference	9.23	
WA3-2 DUP	REF-16NOV2020-WA3-2 FD	B21C024-DUP2	20K3006	Reference	8.9	
WA5-1	REF-17NOV2020-WA5-1	20K3006-08	20K3006	Reference	6.57	
WA5-2	REF-17NOV2020-WA5-2	20K3006-09	20K3006	Reference	7.31	
WA6-1	REF-17NOV2020-WA6-1	20K3006-10	20K3006	Reference	6.48	
WA6-2	REF-17NOV2020-WA6-2	20K3007-01	20K3007	Reference	7.31	
WA7-1	REF-17NOV2020-WA7-1	20K3007-02	20K3007	Reference	7.09	
WA7-2	REF-17NOV2020-WA7-2	20K3007-03	20K3007	Reference	7.22	
WA8-1	REF-17NOV2020-WA8-1	20K3007-04	20K3007	Reference	7.42	
WA8-2	REF-17NOV2020-WA8-2	20K3007-05	20K3007	Reference	6.70	
WA8-2 DUP	REF-17NOV2020-WA8-2 FD	B21C025-DUP1	20K3007	Reference	6.8	
WA9-1	REF-17NOV2020-WA9-1	20K3007-06	20K3007	Reference	6.68	
WA9-2	REF-17NOV2020-WA9-2	20K3007-07	20K3007	Reference	6.06	
WA10-1	REF-17NOV2020-WA10-1	20K3007-08	20K3007	Reference	6.64	
WA10-2	REF-17NOV2020-WA10-2	20K3007-09	20K3007	Reference	6.47	

Notes:
SDG = Sample Delivery Group
ug/kg = micrograms per kilogram
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection

Phase II Clams - PCB Congeners

Station Number:		A1		A2		A3		B1		B2		B2 DUP		B3		C1		C2	
USACE Sample ID:		B1-11NOV2020-A-1		B1-11NOV2020-A-2		B1-11NOV2020-A-3		B1-9NOV2020-B-1		B1-11NOV2020-B-2		B1-11NOV2020-B-2		B1-11NOV2020-B-3		B1-11NOV2020-C-1		B1-11NOV2020-C-2	
Lab Sample ID:		20K3002-05		20K3002-06		20K3002-07		20K3002-08		20K3002-09		B21C027-DUP1		20K3002-10		20K3003-01		20K3003-02	
Lab Sample Delivery Group:		20K3002		20K3002		20K3002		20K3002		20K3002		20K3002		20K3002		20K3003		20K3003	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**15.4**		**15.6**		**18.1**		**16.2**		**22.2**		**26.3**		**15.8**		**66.5**		**37.1**	
PCB 10	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 103	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 104	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 105	ug/kg	0.488		0.527		0.538		0.543		0.824		0.99		0.556		2.43		1.57	
PCB 107	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.155		0.038	U
PCB 110	ug/kg	0.601		0.688		0.691		0.640		1.12		1.5		0.716		4.33		2.52	
PCB 114	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.101	J	0.058	J
PCB 115/87	ug/kg	0.075	U	0.075	U	0.074	U	0.074	U	0.076	U	0.074	U	0.076	U	1.46		0.787	
PCB 117/81	ug/kg	0.075	U	0.075	U	0.074	U	0.074	U	0.076	U	0.074	U	0.076	U	0.313		0.076	U
PCB 118	ug/kg	1.46		1.53		1.72		1.55		2.25		3.0		1.53		7.61		3.93	
PCB 119	ug/kg	0.121	J	0.037	U	0.037	U	0.037	U	0.038	U	0.14		0.038	U	0.038	U	0.038	U
PCB 12	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 121	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 123	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 124	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 126/129/178	ug/kg	0.113	U	0.112	U	0.111	U	0.111	U	0.114	U	0.111	U	0.113	U	0.114	U	0.113	U
PCB 128/174/202	ug/kg	0.584		0.554		0.544		0.530		0.683		0.111	U	0.516		1.78		1.36	
PCB 13	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 130	ug/kg	0.131		0.143		0.132		0.134		0.151		0.18		0.147		0.459		0.202	
PCB 131/122/142	ug/kg	0.113	U	0.112	U	0.111	U	0.111	U	0.114	U	0.111		0.113	U	0.114	U	0.113	U
PCB 132	ug/kg	0.149		0.254		0.239		0.250		0.374		0.48		0.252		1.25		0.790	
PCB 134	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 135	ug/kg	0.249		0.301		0.411		0.389		0.178		0.51		0.038	U	1.24		0.596	
PCB 136	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 137	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.245		0.24		0.038	U	0.436		0.038	U
PCB 138/163/164	ug/kg	1.30		1.46		1.62		1.49		1.98		2.6		1.51		5.90		3.13	
PCB 14	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 141	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 144	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.109	J	0.12	J	0.038	U	0.242		0.038	U
PCB 146	ug/kg	0.200		0.206		0.260		0.220		0.265		0.33		0.231		0.780		0.471	
PCB 147	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 149/123	ug/kg	0.624		0.634		0.714		0.613		0.856		1.4		0.637		2.60		1.46	
PCB 15/17	ug/kg	0.075	U	0.075	U	0.074	U	0.074	U	0.076	U	0.074	U	0.076	U	0.261		0.076	U
PCB 151	ug/kg	0.144		0.177		0.207		0.176		0.181		0.20		0.184		0.511		0.287	
PCB 153	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 154	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 156	ug/kg	0.381		0.037	U	0.037	U	0.427		0.038	U	0.037	U	0.430		1.07		0.521	
PCB 157/201	ug/kg	0.319		0.075	U	0.382		0.373		0.447		0.41		0.386		0.650		0.430	
PCB 158	ug/kg	0.193		0.223		0.225		0.219		0.283		0.33		0.234		0.770		0.439	
PCB 16	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 165	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 167	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.670		0.038	U
PCB 170/203	ug/kg	0.075	U	0.075	U	0.492		0.074		0.435		0.49		0.076	U	0.595		0.558	

Phase II Clams - PCB Congeners

Station Number:		A1		A2		A3		B1		B2		B2 DUP		B3		C1		C2	
USACE Sample ID:		B1-11NOV2020-A-1		B1-11NOV2020-A-2		B1-11NOV2020-A-3		B1-9NOV2020-B-1		B1-11NOV2020-B-2		B1-11NOV2020-B-2		B1-11NOV2020-B-3		B1-11NOV2020-C-1		B1-11NOV2020-C-2	
Lab Sample ID:		20K3002-05		20K3002-06		20K3002-07		20K3002-08		20K3002-09		B21C027-DUP1		20K3002-10		20K3003-01		20K3003-02	
Lab Sample Delivery Group:		20K3002		20K3002		20K3002		20K3002		20K3002		20K3002		20K3002		20K3003		20K3003	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	0.075	U	0.075	U	0.074	U	0.074		0.076		0.074		0.076	U	0.076	U	0.076	U
PCB 173	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 175	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 176	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 177	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 179	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 18	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 180	ug/kg	0.321		0.360		0.493		0.355		0.422		0.48		0.353		0.856		0.395	
PCB 183	ug/kg	0.038	U	0.037	U	0.222		0.037	U	0.038	U	0.037	U	0.038	U	0.184		0.199	
PCB 184	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 185	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 187	ug/kg	0.160		0.199		0.331		0.209		0.208		0.24		0.211		0.496		0.419	
PCB 189	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 19	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 190/199	ug/kg	0.075	U	0.075	U	0.394		0.074	U	0.327		0.36		0.076	U	0.463		0.376	
PCB 191	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 192	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 193	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.194		0.038	U
PCB 194	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 195	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.221	
PCB 196	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 197	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 20	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 200	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 205	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 206	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 207	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 208	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 209	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 22	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 24/27	ug/kg	0.075	U	0.075	U	0.074	U	0.074	U	0.076	U	0.074	U	0.076	U	0.076	U	0.076	U
PCB 25/54	ug/kg	0.075	U	0.075	U	0.074	U	0.074	U	0.076	U	0.074	U	0.076	U	0.076	U	0.076	U
PCB 26	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 28/31	ug/kg	0.075	U	0.075	U	0.074	U	0.074	U	0.076	U	0.074	U	0.076	U	0.076	U	0.076	U
PCB 29	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 32	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 33	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 34	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 35	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 37/59	ug/kg	0.075	U	0.075	U	0.074	U	0.074	U	0.076	U	0.074	U	0.076	U	0.076	U	0.076	U
PCB 4	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 40	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 42	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 44	ug/kg	0.272		0.233		0.259		0.149		0.334		0.45		0.206		1.41		0.675	

Phase II Clams - PCB Congeners

Station Number:		A1		A2		A3		B1		B2		B2 DUP		B3		C1		C2	
USACE Sample ID:		B1-11NOV2020-A-1		B1-11NOV2020-A-2		B1-11NOV2020-A-3		B1-9NOV2020-B-1		B1-11NOV2020-B-2		B1-11NOV2020-B-2		B1-11NOV2020-B-3		B1-11NOV2020-C-1		B1-11NOV2020-C-2	
Lab Sample ID:		20K3002-05		20K3002-06		20K3002-07		20K3002-08		20K3002-09		B21C027-DUP1		20K3002-10		20K3003-01		20K3003-02	
Lab Sample Delivery Group:		20K3002		20K3002		20K3002		20K3002		20K3002		20K3002		20K3002		20K3003		20K3003	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 47/49	ug/kg	0.075	U	0.075	U	0.074	U	0.074	U	0.076	U	0.074	U	0.076	U	0.076	U	0.076	U
PCB 48	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 5	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 51	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 52/45	ug/kg	0.151	J	0.217	J	0.213	J	0.168	J	0.411		0.68		0.200	J	1.99		0.859	
PCB 53	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.466		0.038	U
PCB 56/60	ug/kg	0.337		0.383		0.376		0.361		0.401		0.42		0.355		0.642		0.462	
PCB 6	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 63	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 64	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.391		0.038	U
PCB 66	ug/kg	0.177		0.240		0.242		0.217		0.331		0.36		0.216		0.974		0.546	
PCB 67/41/100	ug/kg	0.113	U	0.112	U	0.111	U	0.111	U	0.114	U	0.111	U	0.113	U	0.114	U	0.113	U
PCB 69	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 7	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 70	ug/kg	0.201		0.197		0.229		0.237		0.351		0.42		0.179		1.67		0.715	
PCB 71	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 73	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 74	ug/kg	0.038	U	0.136		0.125		0.037	U	0.197		0.18		0.038	U	0.628		0.302	
PCB 75	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 77	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 78	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 8	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 82	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.219		0.27		0.038	U	0.445		0.301	
PCB 83	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.372		0.038	U
PCB 84	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.735		0.353	
PCB 85	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 9	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.038	U	0.038	U
PCB 90/101	ug/kg	0.752		0.869		0.913		0.852		1.35		1.7		0.909		4.87		2.86	
PCB 91	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.038	U	0.037	U	0.038	U	0.852		0.528	
PCB 92	ug/kg	0.038	U	0.037	U	0.037	U	0.037	U	0.334		0.39		0.038	U	1.00		0.525	
PCB 93	ug/kg	0.504		0.334		0.488		0.431		0.475		0.35		0.038	U	0.269		0.038	U
PCB 95/155	ug/kg	0.463		0.434		0.487		0.421		0.836		1.2		0.430		3.49		1.84	
PCB 97	ug/kg	0.494		0.520		0.564		0.511		0.784		0.99		0.535		2.76		1.35	
PCB 99	ug/kg	0.408		0.564		0.615		0.543		0.910		1.0		0.558		2.39		1.35	

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Phase II Clams - PCB Congeners

Station Number:		C3		D1		D2		D2 DUP		D3		E1		E2		E2 DUP	
USACE Sample ID:		B1-11NOV2020-C-3		B1-11NOV2020-D-1		B1-11NOV2020-D-2		B1-11NOV2020-D-2 FD		B1-11NOV2020-D-3		B1-10NOV2020-E-1		B1-10NOV2020-E-2		B1-10NOV2020-E-2 FD	
Lab Sample ID:		20K3003-03		20K3003-04		20K3003-05		B21C028-DUP1		20K3003-06		20K3003-07		20K3003-08		B21C028-DUP2	
Lab Sample Delivery Group:		20K3003		20K3003		20K3003		20K3003		20K3003		20K3003		20K3003		20K3003	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**30.3**		**32.9**		**72.8**		**68.5**		**51.2**		**35.2**		**89.7**		**64.9**	
PCB 10	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 103	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 104	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 105	ug/kg	1.00		1.06		2.54		2.8		2.11		1.02		3.27		2.5	
PCB 107	ug/kg	0.038	U	0.038	U	6.85		0.037	U	0.158		0.037	U	0.218		0.037	U
PCB 110	ug/kg	1.51		1.74		4.26		4.8		2.94		1.50		5.92		4.1	
PCB 114	ug/kg	0.038	U	0.038		0.108	J	0.037	U	0.094	J	0.037	U	0.137		0.10	J
PCB 115/87	ug/kg	0.482		0.644		1.20		1.4		1.12		0.074	U	1.66		1.2	
PCB 117/81	ug/kg	0.075	U	0.212	J	0.254		0.28		0.266		0.074	U	0.321		0.28	
PCB 118	ug/kg	3.01	J	3.28		9.43		11		5.92		5.96		12.8		8.3	
PCB 119	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.129		0.037	U	0.140		0.15	
PCB 12	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 121	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 123	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA	
PCB 124	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 126/129/178	ug/kg	0.113	U	0.114	U	0.112	U	0.111	U	0.113	U	0.111	U	0.109	U	0.112	
PCB 128/174/202	ug/kg	0.996		1.01		1.59		1.8		1.46		0.650		2.08		1.5	
PCB 13	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 130	ug/kg	0.175		0.203		0.406		0.43		0.351		0.151		0.477		0.38	
PCB 131/122/142	ug/kg	0.113	U	0.114	U	0.112	U	0.111	U	0.113	U	0.111	U	0.109	U	0.112	U
PCB 132	ug/kg	0.517		0.524		0.926		1.1		0.924		0.290		1.19		0.97	
PCB 134	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 135	ug/kg	0.961		0.798		0.962		0.98		1.11		0.491		0.92		0.75	
PCB 136	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.23	
PCB 137	ug/kg	0.246		0.255		0.465		0.51		0.380		0.287		0.814		0.62	
PCB 138/163/164	ug/kg	2.71		2.65		6.39		7.6		4.66		3.60		8.71		6.1	
PCB 14	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 141	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.465		0.037	U
PCB 144	ug/kg	0.109	J	0.168		0.273		0.29		0.250		0.037	U	0.334		0.26	
PCB 146	ug/kg	0.408		0.367		0.858		0.93		0.666		0.482		1.05		0.78	
PCB 147	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 149/123	ug/kg	1.29		1.23		2.45		2.9		2.13		1.29		3.24		2.7	
PCB 15/17	ug/kg	0.075	U	0.186	J	0.328		0.34		0.248	J	0.074	U	0.376		0.29	
PCB 151	ug/kg	0.288		0.297		0.486		0.037	U	0.412		0.208		0.589		0.45	
PCB 153	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 154	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 156	ug/kg	0.576		0.565		1.03		1.1		0.843		0.715		1.40		1.1	
PCB 157/201	ug/kg	0.554		0.524		0.550		0.52		0.599		0.406		0.617		0.48	
PCB 158	ug/kg	0.346		0.337		0.689		0.73		0.568		0.314		0.831		0.64	
PCB 16	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 165	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 167	ug/kg	0.038	U	0.038	U	0.742		0.78		0.038	U	0.726		0.887		0.69	
PCB 170/203	ug/kg	0.558		0.489		0.594		0.60		0.556		0.476		0.657		0.58	

Phase II Clams - PCB Congeners

Station Number:		C3		D1		D2		D2 DUP		D3		E1		E2		E2 DUP	
USACE Sample ID:		B1-11NOV2020-C-3		B1-11NOV2020-D-1		B1-11NOV2020-D-2		B1-11NOV2020-D-2 FD		B1-11NOV2020-D-3		B1-10NOV2020-E-1		B1-10NOV2020-E-2		B1-10NOV2020-E-2 FD	
Lab Sample ID:		20K3003-03		20K3003-04		20K3003-05		B21C028-DUP1		20K3003-06		20K3003-07		20K3003-08		B21C028-DUP2	
Lab Sample Delivery Group:		20K3003		20K3003		20K3003		20K3003		20K3003		20K3003		20K3003		20K3003	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	0.075	U	0.076	U	0.352		0.074	U	0.329		0.074	U	0.369		0.34	
PCB 173	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 175	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 176	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.19	
PCB 177	ug/kg	0.038	U	0.038	U	0.399		0.44		0.479		0.037	U	0.450		0.38	
PCB 179	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 18	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 180	ug/kg	0.668		0.532		0.745		0.87		0.796		0.591		0.965		0.74	
PCB 183	ug/kg	0.158		0.106	J	0.202		0.037	U	0.153		0.130		0.275		0.21	
PCB 184	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 185	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 187	ug/kg	0.484		0.292		0.437		0.50		0.463		0.276		0.615		0.49	
PCB 189	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 19	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 190/199	ug/kg	0.464		0.382		0.452		0.50		0.545		0.372		0.557		0.43	
PCB 191	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 192	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 193	ug/kg	0.185		0.194		0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 194	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 195	ug/kg	0.038	U	0.202		0.221		0.037	U	0.038	U	0.212		0.217		0.037	U
PCB 196	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 197	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 20	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 200	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 205	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 206	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 207	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 208	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 209	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 22	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.185		0.037	U
PCB 24/27	ug/kg	0.075	U	0.076	U	0.075	U	0.074	U	0.075	U	0.074	U	0.073	U	0.075	U
PCB 25/54	ug/kg	0.075	U	0.076	U	0.075	U	0.074	U	0.075	U	0.074	U	0.073	U	0.075	U
PCB 26	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 28/31	ug/kg	0.075	U	0.076	U	0.075	U	0.074	U	0.075	U	0.074	U	0.073	U	0.075	U
PCB 29	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 32	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 33	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 34	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 35	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 37/59	ug/kg	0.075	U	0.076	U	0.075	U	0.074	U	0.075	U	0.074	U	0.073	U	0.075	U
PCB 4	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 40	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 42	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 44	ug/kg	0.455		0.617		1.45		1.7		0.859		1.40		2.01		1.3	

Phase II Clams - PCB Congeners

Station Number:		C3		D1		D2		D2 DUP		D3		E1		E2		E2 DUP	
USACE Sample ID:		B1-11NOV2020-C-3		B1-11NOV2020-D-1		B1-11NOV2020-D-2		B1-11NOV2020-D-2 FD		B1-11NOV2020-D-3		B1-10NOV2020-E-1		B1-10NOV2020-E-2		B1-10NOV2020-E-2 FD	
Lab Sample ID:		20K3003-03		20K3003-04		20K3003-05		B21C028-DUP1		20K3003-06		20K3003-07		20K3003-08		B21C028-DUP2	
Lab Sample Delivery Group:		20K3003		20K3003		20K3003		20K3003		20K3003		20K3003		20K3003		20K3003	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 47/49	ug/kg	0.075	U	0.076	U	0.577		0.074	U	0.075	U	0.074	U	0.739		0.47	
PCB 48	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 5	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 51	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 52/45	ug/kg	0.512		0.919		1.64		1.9		1.30		0.593		2.48		1.7	
PCB 53	ug/kg	0.038	U	0.038	U	0.285		0.28		0.312		0.138		0.399		0.30	
PCB 56/60	ug/kg	0.443		0.479		0.572		0.59		0.554		0.405		0.733		0.61	
PCB 6	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 63	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 64	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.460		0.36	
PCB 66	ug/kg	0.412		0.536		0.998		1.1		0.810		0.401		1.41		0.98	
PCB 67/41/100	ug/kg	0.113	U	0.114	U	0.112	U	0.111	U	0.113	U	0.111	U	0.109	U	0.112	U
PCB 69	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 7	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 70	ug/kg	0.507		0.814		1.26		1.5		1.15		0.277		1.67		1.3	
PCB 71	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 73	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 74	ug/kg	0.253		0.328		0.499		0.62		0.497		0.189		0.723		0.56	
PCB 75	ug/kg	0.038	U	0.038	U	0.253		0.037	U	0.038	U	0.037		0.189		0.16	
PCB 77	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 78	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 8	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 82	ug/kg	0.266		0.293		0.298		0.30		0.370		0.037	U	0.416		0.31	
PCB 83	ug/kg	0.139		0.149		0.266		0.28		0.308		0.037	U	0.310		0.24	
PCB 84	ug/kg	0.038	U	0.038	U	0.037	U	0.72		0.038	U	0.037	U	0.795		0.74	
PCB 85	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 9	ug/kg	0.038	U	0.038	U	0.037	U	0.037	U	0.038	U	0.037	U	0.036	U	0.037	U
PCB 90/101	ug/kg	1.81		2.08		4.68		0.074		3.34		2.10		6.88		4.2	
PCB 91	ug/kg	0.330		0.301		0.543		0.59		0.677		0.037	U	0.803		0.78	
PCB 92	ug/kg	0.530		0.549		0.783		0.86		0.700		0.368		1.04		0.90	
PCB 93	ug/kg	0.305		0.333		0.277		0.77		0.368		0.218		0.530		0.86	
PCB 95/155	ug/kg	1.07		1.41		3.41		3.9		2.29		1.79		4.67		3.1	
PCB 97	ug/kg	1.03		1.13		2.97		3.4		1.88		2.14		4.00		2.7	
PCB 99	ug/kg	0.855		1.24		2.78		3.3		1.83		1.30		3.91		2.4	

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Phase II Clams - PCB Congeners

Station Number:		E3		F1		F2		F3		G1		G2		G4		G4 DUP		H1	
USACE Sample ID:		B1-10NOV2020-E-3		B1-12NOV2020-F-1		B1-12NOV2020-F-2		B1-12NOV2020-F-3		B1-9NOV2020-G-1		B1-9NOV2020-G-2		B1-9NOV2020-G-4		B1-9NOV2020-G-4 FD		B1-9NOV2020-H-01	
Lab Sample ID:		20K3003-09		20K3003-10/RE1		20K3004-01		20K3004-02/RE1		20K3004-03		20K3004-04		20K3004-05		B21C029-DUP1		20K3002-03RE1	
Lab Sample Delivery Group:		20K3003		20K3003		20K3004		20K3004		20K3004		20K3004		20K3004		20K3004		20K3002	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**95.3**		**149**		**15.7**		**599**		**17.6**		**25.2**		**17.1**		**18.2**		**67.8**	
PCB 10	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 103	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 104	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.058	U
PCB 105	ug/kg	3.34		5.81		0.487		24.2	J+	0.517		0.857		0.459		0.49		NA	
PCB 107	ug/kg	0.160		0.301		0.035	U	1.06		0.036	U	0.036	U	0.036	U	0.037	U	0.438	
PCB 110	ug/kg	6.28		10.1		0.742		49.4	J+	0.735		1.48		0.713		0.77		3.66	
PCB 114	ug/kg	0.117		0.204		0.035	U	0.715		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 115/87	ug/kg	1.50		2.51		0.07	U	9.79		0.072	U	0.072	U	0.073	U	0.074	U	1.29	
PCB 117/81	ug/kg	0.296		0.438		0.07	U	1.27		0.072	U	0.072	U	0.073	U	0.074	U	ND	U
PCB 118	ug/kg	14.4		27.3	J+	1.49		93.2	J+	1.53		2.65		1.33		1.4		6.29	
PCB 119	ug/kg	0.186		0.330		0.035	U	0.778		0.036	U	0.036	U	0.036	U	0.037	U	0.182	
PCB 12	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 121	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 123	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		0.029	U
PCB 124	ug/kg	0.035	U	0.697		0.035	U	2.23		0.036	U	0.036	U	0.036	U	0.037	U	0.239	
PCB 126/129/178	ug/kg	0.105	U	0.112	U	0.106	U	1.04		0.108	U	0.108	U	0.109	U	0.111	U	0.058	U
PCB 128/174/202	ug/kg	1.86		3.01		0.507		13.1		0.656		0.963		0.537		0.54		0.859	
PCB 13	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 130	ug/kg	0.461		0.782		0.130		3.32		0.125		0.146		0.036	U	0.037	U	0.387	
PCB 131/122/142	ug/kg	0.105	U	0.112	U	0.106	U	0.114	U	0.108	U	0.108	U	0.109	U	0.111	U	3.45	
PCB 132	ug/kg	1.21		2.03		0.233		8.73		0.324		0.473		0.225		0.22		NA	
PCB 134	ug/kg	0.035	U	0.037	U	0.171		1.96		0.243		0.306		0.156		0.17		0.423	
PCB 135	ug/kg	0.889		1.14		0.035	U	3.46		0.569		0.682		0.400		0.44		1.47	
PCB 136	ug/kg	0.417		0.629		0.035	U	2.54		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 137	ug/kg	0.658		0.951		0.174		3.13		0.036	U	0.181		0.036	U	0.037	U	1.17	
PCB 138/163/164	ug/kg	9.57		14.8		1.31		56.9		1.28		2.28		1.22		1.4		5.43	
PCB 14	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 141	ug/kg	0.303		0.460		0.035	U	1.46		0.036	U	0.036	U	0.036	U	0.037	U	0.233	
PCB 144	ug/kg	0.309		0.472		0.035	U	1.35		0.100	J	0.036	U	0.091	J	0.10	J	0.029	U
PCB 146	ug/kg	1.12		1.66		0.200		5.61		0.223		0.333		0.185		0.20		0.786	
PCB 147	ug/kg	0.035	U	0.037	U	0.035	U	1.14		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 149/123	ug/kg	3.59		5.47		0.717		21.7		0.890		0.072	U	0.717		0.81		0.029	U
PCB 15/17	ug/kg	0.443		0.645		0.07	U	3.88		0.072	U	0.072	U	0.073	U	0.074	U	0.332	
PCB 151	ug/kg	0.595		0.927		0.161		3.65		0.166		0.269		0.163		0.17		0.747	
PCB 153	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	2.60	
PCB 154	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 156	ug/kg	1.42		2.05		0.284		7.03		0.036	U	0.421		0.036	U	0.037	U	1.84	
PCB 157/201	ug/kg	0.501		0.745		0.341		2.07		0.443		0.418		0.391		0.39		0.029	U
PCB 158	ug/kg	0.872		1.47		0.217		5.75		0.036	U	0.306		0.216		0.21		0.602	
PCB 16	ug/kg	0.174		0.049	J	0.035	U	0.258		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 165	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	NA	
PCB 167	ug/kg	1.00		1.28		0.035	U	4.14		0.036	U	0.266		0.036	U	0.037	U	0.516	
PCB 170/203	ug/kg	0.627		0.813		0.07	U	2.16		0.072	U	0.472		0.073	U	0.074	U	0.501	

Phase II Clams - PCB Congeners

Station Number:		E3		F1		F2		F3		G1		G2		G4		G4 DUP		H1	
USACE Sample ID:		B1-10NOV2020-E-3		B1-12NOV2020-F-1		B1-12NOV2020-F-2		B1-12NOV2020-F-3		B1-9NOV2020-G-1		B1-9NOV2020-G-2		B1-9NOV2020-G-4		B1-9NOV2020-G-4 FD		B1-9NOV2020-H-01	
Lab Sample ID:		20K3003-09		20K3003-10/RE1		20K3004-01		20K3004-02/RE1		20K3004-03		20K3004-04		20K3004-05		B21C029-DUP1		20K3002-03RE1	
Lab Sample Delivery Group:		20K3003		20K3003		20K3004		20K3004		20K3004		20K3004		20K3004		20K3004		20K3002	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	0.336		0.544		0.07	U	1.61		0.072	U	0.072	U	0.073	U	0.074	U	0.368	
PCB 173	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 175	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 176	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 177	ug/kg	0.394		0.545		0.035	U	1.80		0.036	U	0.036	U	0.036	U	0.037	U	0.532	
PCB 179	ug/kg	0.035	U	0.037	U	0.035	U	1.01		0.036	U	0.036	U	0.036	U	0.037	U	0.294	
PCB 18	ug/kg	0.439		0.413		0.035	U	2.55		0.036	U	0.036	U	0.036	U	0.037	U	0.401	
PCB 180	ug/kg	0.955		1.19		0.389		3.60		0.431		0.457		0.349		0.38		1.28	
PCB 183	ug/kg	0.398		0.540		0.091	J	2.41		0.125		0.199		0.131		0.097	J	0.643	
PCB 184	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 185	ug/kg	0.035	U	0.037	U	0.035	U	0.389		0.036	U	0.036	U	0.036	U	0.037	U	0.185	
PCB 187	ug/kg	0.575		0.841		0.181		3.15		0.236		0.288		0.195		0.037	U	0.869	
PCB 189	ug/kg	0.035	U	0.037	U	0.035	U	0.279		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 19	ug/kg	0.035	U	0.037	U	0.035	U	0.791		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 190/199	ug/kg	0.461		0.565		0.07	U	1.47		0.072	U	0.072	U	0.073	U	0.074	U	0.169	
PCB 191	ug/kg	0.035	U	0.037	U	0.035	U	0.240		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 192	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 193	ug/kg	0.035	U	0.037	U	0.150		0.360		0.036	U	0.036	U	0.175		0.17		0.255	
PCB 194	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 195	ug/kg	0.210		0.037	U	0.194		0.426		0.206		0.202		0.036	U	0.037	U	0.029	U
PCB 196	ug/kg	0.035	U	0.037	U	0.035	U	0.324		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 197	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 20	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 200	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 205	ug/kg	0.035	U	0.037	U	0.035	U	0.266		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 206	ug/kg	0.035	U	0.037	U	0.035	U	0.378		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 207	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 208	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 209	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 22	ug/kg	0.239		0.037	U	0.035	U	0.362		0.036	U	0.036	U	0.036	U	0.037	U	0.151	
PCB 24/27	ug/kg	0.321		0.312		0.07	U	1.75		0.072	U	0.072	U	0.073	U	0.074	U	0.167	J
PCB 25/54	ug/kg	0.07	U	0.075	U	0.07	U	0.454		0.072	U	0.072	U	0.073	U	0.074	U	0.058	U
PCB 26	ug/kg	0.035	U	0.037	U	0.035	U	0.367		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 28/31	ug/kg	0.232	J	0.418		0.07	U	0.732		0.072	U	0.072	U	0.073	U	0.074	U	0.419	
PCB 29	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 32	ug/kg	0.035	U	0.117	J	0.035	U	0.497		0.036	U	0.036	U	0.036	U	0.037	U	0.185	
PCB 33	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 34	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 35	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	NA	
PCB 37/59	ug/kg	0.07	U	0.075	U	0.07	U	0.076	U	0.072	U	0.072	U	0.073	U	0.074	U	0.058	U
PCB 4	ug/kg	0.035	U	0.037	U	0.035	U	1.67		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 40	ug/kg	0.035	U	0.037	U	0.035	U	0.430		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 42	ug/kg	0.035	U	0.037	U	0.035	U	2.67		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 44	ug/kg	2.70		3.04		0.270		15.8		0.229		0.377		0.326		0.36		1.38	

Phase II Clams - PCB Congeners

Station Number:		E3		F1		F2		F3		G1		G2		G4		G4 DUP		H1	
USACE Sample ID:		B1-10NOV2020-E-3		B1-12NOV2020-F-1		B1-12NOV2020-F-2		B1-12NOV2020-F-3		B1-9NOV2020-G-1		B1-9NOV2020-G-2		B1-9NOV2020-G-4		B1-9NOV2020-G-4 FD		B1-9NOV2020-H-01	
Lab Sample ID:		20K3003-09		20K3003-10/RE1		20K3004-01		20K3004-02/RE1		20K3004-03		20K3004-04		20K3004-05		B21C029-DUP1		20K3002-03RE1	
Lab Sample Delivery Group:		20K3003		20K3003		20K3004		20K3004		20K3004		20K3004		20K3004		20K3004		20K3002	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.035	U	0.037	U	0.035	U	0.325		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 47/49	ug/kg	0.712		1.20		0.07	U	4.43		0.072	U	0.165	J	0.073	U	0.074	U	0.520	
PCB 48	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 5	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 51	ug/kg	0.035	U	0.037	U	0.035	U	0.969		0.393		0.434		0.036	U	0.037	U	0.029	U
PCB 52/45	ug/kg	2.56		3.93		0.07	U	16.0		0.271		0.504		0.469		0.53		1.92	
PCB 53	ug/kg	0.530		0.598		0.035	U	5.57		0.036	U	0.036	U	0.036	U	0.037	U	1.29	
PCB 56/60	ug/kg	0.688		0.900		0.07	U	2.41		0.072	U	0.541		0.375		0.34		0.312	
PCB 6	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 63	ug/kg	0.035	U	0.037	U	0.035	U	0.319		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 64	ug/kg	0.400		0.619		0.035	U	1.82		0.036	U	0.036	U	0.144		0.16		1.17	
PCB 66	ug/kg	1.36		2.00		0.035	U	6.47		0.036	U	0.374		0.249		0.25		0.948	
PCB 67/41/100	ug/kg	0.105	U	0.112	U	0.106	U	0.114	U	0.108	U	0.108	U	0.109	U	0.111	U	0.087	U
PCB 69	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 7	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 70	ug/kg	1.82		2.90		0.264		8.62		0.282		0.506		0.299		0.34		1.28	
PCB 71	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 73	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 74	ug/kg	0.741		1.17		0.127		3.33		0.155		0.219		0.147		0.15		0.538	
PCB 75	ug/kg	0.243		0.324		0.035	U	1.56		0.036	U	0.036	U	0.036	U	0.037	U	0.088	J
PCB 77	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 78	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.486	
PCB 8	ug/kg	0.035	U	0.037	U	0.035	U	0.174		0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 82	ug/kg	0.381		0.487		0.205		1.93		0.222		0.265		0.183		0.20		0.377	
PCB 83	ug/kg	0.316		0.447		0.075	J	1.45		0.036	U	0.036	U	0.066	J	0.085	J	0.131	
PCB 84	ug/kg	0.842		1.48		0.035	U	4.20		0.036	U	0.036	U	0.036	U	0.037	U	0.593	
PCB 85	ug/kg	0.035	U	0.037	U	0.261		8.05		0.036	U	0.036	U	0.271		0.28		0.876	
PCB 9	ug/kg	0.035	U	0.037	U	0.035	U	0.038	U	0.036	U	0.036	U	0.036	U	0.037	U	0.029	U
PCB 90/101	ug/kg	6.53		10.5		0.865		39.5		0.904		1.61		0.864		0.90		4.37	
PCB 91	ug/kg	0.797		1.22		0.035	U	4.35		0.036	U	0.036	U	0.152		0.17		0.843	
PCB 92	ug/kg	0.920		1.41		0.035	U	4.87		0.370		0.036	U	0.292		0.38		1.10	
PCB 93	ug/kg	0.543		0.550		0.035	U	0.038	U	0.467		0.036	U	0.466		0.76		0.029	U
PCB 95/155	ug/kg	5.33		7.83		0.590		33.5		0.479		0.981		0.593		0.60		3.71	
PCB 97	ug/kg	4.83		6.72		0.512		35.2	J+	0.463		0.836		0.472		0.49		2.34	
PCB 99	ug/kg	3.69		6.40		0.526		29.5	J+	0.641		1.02		0.396		0.44		2.25	

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Phase II Clams - PCB Congeners

Station Number:		H3		I1		I2		I3		J1		J3		GI1		GI2	
USACE Sample ID:		B1-9NOV2020-H-03		B1-10NOV2020-I-1		B1-10NOV2020-I-2		B1-10NOV2020-I-3		B1-10NOV2020-J-01		B1-10NOV2020-J-03		B1-12NOV2020-G1-1		B1-12NOV2020-G1-2	
Lab Sample ID:		20K3002-04		20K3004-06		20K3004-07		20K3004-08		20K3002-01		20K3002-02		20K3001-05		20K3001-06	
Lab Sample Delivery Group:		20K3002		20K3004		20K3004		20K3004		20K3002		20K3002		20K3001		20K3001	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		Goose Island		Goose Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**14.5**		**19.1**		**10.5**		**27.5**		**9.39**		**25.5**		**6.68**		**6.60**	
PCB 10	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 103	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 104	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 105	ug/kg	0.517		0.613		0.311		0.826		0.283		0.969		0.035	U	0.038	U
PCB 107	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 110	ug/kg	0.791		0.908		0.236		1.47		0.310		1.59		0.118		0.038	U
PCB 114	ug/kg	0.037	U	0.038	U	0.036	U	0.051	J	0.037	U	0.038	U	0.035	U	0.038	U
PCB 115/87	ug/kg	0.074	U	0.076	U	0.073	U	0.607		0.075	U	0.076	U	0.07	U	0.076	U
PCB 117/81	ug/kg	0.074	U	0.076	U	0.073	U	0.075	U	0.075	U	0.076	U	0.07	U	0.076	U
PCB 118	ug/kg	1.45		1.72		0.633		2.32		0.485		3.11		0.192		0.301	
PCB 119	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.132		0.038	U	0.133		0.172	
PCB 12	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 121	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 123	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA	
PCB 124	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 126/129/178	ug/kg	0.11	U	0.114	U	0.109	U	0.112	U	0.112	U	0.114	U	0.105	U	0.113	U
PCB 128/174/202	ug/kg	0.684		0.724		0.418	U	0.774		0.427		0.918		0.105	U	0.113	U
PCB 13	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 130	ug/kg	0.037	U	0.165		0.036	U	0.176		0.037	U	0.038	U	0.035	U	0.038	U
PCB 131/122/142	ug/kg	0.11	U	0.114	U	0.109	U	0.112	U	0.112	U	0.114	U	0.105	U	0.113	U
PCB 132	ug/kg	0.270		0.314		0.190		0.464		0.136		0.439		0.035	U	0.038	U
PCB 134	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 135	ug/kg	0.037	U	0.038	U	0.036	U	0.630		0.037	U	0.415		0.035	U	0.038	U
PCB 136	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 137	ug/kg	0.037	U	0.210		0.036	U	0.216		0.037	U	0.337		0.035	U	0.038	U
PCB 138/163/164	ug/kg	1.30		1.70		0.869		1.93		0.799		2.18		0.501		0.113	U
PCB 14	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 141	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 144	ug/kg	0.037	U	0.114	J	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 146	ug/kg	0.191		0.242		0.036	U	0.282		0.037	U	0.349		0.035	U	0.038	U
PCB 147	ug/kg	0.037	U	0.038		0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 149/123	ug/kg	0.718		0.961		0.236	J	1.08		0.339		1.11		0.518		0.354	
PCB 15/17	ug/kg	0.074	U	0.076	U	0.073	U	0.128	J	0.075	U	0.076	U	0.07	U	0.076	U
PCB 151	ug/kg	0.154		0.197		0.036	U	0.200		0.130		0.202		0.035	U	0.038	U
PCB 153	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 154	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 156	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.479		0.035	U	0.038	U
PCB 157/201	ug/kg	0.414		0.459		0.386		0.447		0.288		0.389		0.07	U	0.076	U
PCB 158	ug/kg	0.037	U	0.257		0.036	U	0.293		0.037	U	0.038	U	0.035	U	0.038	U
PCB 16	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 165	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 167	ug/kg	0.037	U	0.038	U	0.036	U	0.302		0.037	U	0.038	U	0.035	U	0.038	U
PCB 170/203	ug/kg	0.074	U	0.076	U	0.073	U	0.075	U	0.075	U	0.076	U	0.07	U	0.076	U

Phase II Clams - PCB Congeners

Station Number:		H3		I1		I2		I3		J1		J3		GI1		GI2	
USACE Sample ID:		B1-9NOV2020-H-03		B1-10NOV2020-I-1		B1-10NOV2020-I-2		B1-10NOV2020-I-3		B1-10NOV2020-J-01		B1-10NOV2020-J-03		B1-12NOV2020-G1-1		B1-12NOV2020-G1-2	
Lab Sample ID:		20K3002-04		20K3004-06		20K3004-07		20K3004-08		20K3002-01		20K3002-02		20K3001-05		20K3001-06	
Lab Sample Delivery Group:		20K3002		20K3004		20K3004		20K3004		20K3002		20K3002		20K3001		20K3001	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		Goose Island		Goose Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	0.074	U	0.076	U	0.073	U	0.075	U	0.075	U	0.076	U	0.07	U	0.076	U
PCB 173	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 175	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 176	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 177	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 179	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 18	ug/kg	0.037	U	0.038	U	0.036	U	0.143		0.037	U	0.038	U	0.035	U	0.038	U
PCB 180	ug/kg	0.340		0.434		0.403		0.498		0.306		0.353		0.240		0.038	U
PCB 183	ug/kg	0.037	U	0.120	J	0.036	U	0.105	J	0.037	U	0.038	U	0.035	U	0.038	U
PCB 184	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 185	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 187	ug/kg	0.226		0.234		0.164		0.037	U	0.155		0.240		0.035	U	0.038	U
PCB 189	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 19	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 190/199	ug/kg	0.074	U	0.076	U	0.073	U	0.362		0.075	U	0.076	U	0.07	U	0.076	U
PCB 191	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 192	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 193	ug/kg	0.037	U	0.178		0.036	U	0.170		0.037	U	0.038	U	0.035	U	0.038	U
PCB 194	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 195	ug/kg	0.037	U	0.229		0.036	U	0.211		0.037	U	0.038	U	0.035	U	0.038	U
PCB 196	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 197	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 20	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 200	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 205	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 206	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 207	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 208	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 209	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 22	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 24/27	ug/kg	0.074	U	0.076	U	0.073	U	0.075	U	0.075	U	0.076	U	0.07	U	0.076	U
PCB 25/54	ug/kg	0.074	U	0.076	U	0.073	U	0.075	U	0.075	U	0.076	U	0.07	U	0.076	U
PCB 26	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 28/31	ug/kg	0.074	U	0.076	U	0.073	U	0.075	U	0.075	U	0.076	U	0.07	U	0.076	U
PCB 29	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 32	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 33	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 34	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 35	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 37/59	ug/kg	0.074	U	0.076	U	0.073	U	0.075	U	0.075	U	0.076	U	0.07	U	0.076	U
PCB 4	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 40	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 42	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 44	ug/kg	0.289		0.283		0.036	U	0.530		0.082	J	0.510		0.035	U	0.038	U

Phase II Clams - PCB Congeners

Station Number:		H3		I1		I2		I3		J1		J3		GI1		GI2	
USACE Sample ID:		B1-9NOV2020-H-03		B1-10NOV2020-I-1		B1-10NOV2020-I-2		B1-10NOV2020-I-3		B1-10NOV2020-J-01		B1-10NOV2020-J-03		B1-12NOV2020-G1-1		B1-12NOV2020-G1-2	
Lab Sample ID:		20K3002-04		20K3004-06		20K3004-07		20K3004-08		20K3002-01		20K3002-02		20K3001-05		20K3001-06	
Lab Sample Delivery Group:		20K3002		20K3004		20K3004		20K3004		20K3002		20K3002		20K3001		20K3001	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		North Bradford		Goose Island		Goose Island	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 47/49	ug/kg	0.074	U	0.076	U	0.073	U	0.075	U	0.075	U	0.076	U	0.07	U	0.076	U
PCB 48	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 5	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 51	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.373		0.035	U	0.038	U
PCB 52/45	ug/kg	0.074	U	0.076	U	0.073	U	0.817		0.075	U	0.612		0.07	U	0.076	U
PCB 53	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 56/60	ug/kg	0.074	U	0.401		0.347		0.464		0.075	U	0.076	U	0.07	U	0.076	U
PCB 6	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 63	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 64	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 66	ug/kg	0.226		0.310		0.143		0.419		0.144		0.350		0.035	U	0.038	U
PCB 67/41/100	ug/kg	0.11	U	0.114	U	0.109	U	0.112	U	0.112	U	0.114	U	0.105	U	0.113	U
PCB 69	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 7	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 70	ug/kg	0.037	U	0.382		0.148		0.703		0.037	U	0.416		0.035	U	0.038	U
PCB 71	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 73	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 74	ug/kg	0.037	U	0.166		0.036	U	0.267		0.037	U	0.183		0.035	U	0.038	U
PCB 75	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 77	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 78	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 8	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 82	ug/kg	0.171		0.281		0.221		0.280		0.037	U	0.038	U	0.035	U	0.038	U
PCB 83	ug/kg	0.108	J	0.130		0.036	U	0.187		0.114	J	0.149		0.035	U	0.120	J
PCB 84	ug/kg	0.037	U	0.038	U	0.036	U	0.419		0.037	U	0.038	U	0.035	U	0.038	U
PCB 85	ug/kg	0.037	U	0.361		0.036	U	0.484		0.037	U	0.038	U	0.035	U	0.038	U
PCB 9	ug/kg	0.037	U	0.038	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U	0.038	U
PCB 90/101	ug/kg	0.913		1.10		0.48		1.59		0.389		1.88		0.187	J	0.300	
PCB 91	ug/kg	0.037	U	0.038	U	0.036	U	0.311		0.037	U	0.271		0.035	U	0.038	U
PCB 92	ug/kg	0.037	U	0.038	U	0.036	U	0.457		0.037	U	0.441		0.035	U	0.038	U
PCB 93	ug/kg	0.037	U	0.561		0.446		0.496		0.037	U	0.038	U	0.035	U	0.038	U
PCB 95/155	ug/kg	0.407		0.666		0.073	U	1.18		0.138	J	1.27		0.07	U	0.076	U
PCB 97	ug/kg	0.388		0.591		0.200		0.830		0.198		0.884		0.035	U	0.038	U
PCB 99	ug/kg	0.492		0.038	U	0.281		0.878		0.037	U	0.823		0.035	U	0.038	U

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Phase II Clams - PCB Congeners

Station Number:		GI2 DUP		GI4		GI5		OR1		OR1 DUP		OR2		OR3		OR4		SO1	
USACE Sample ID:		B1-12NOV2020-G1-2 FD		B1-12NOV2020-G1-4		B1-12NOV2020-G1-5		B1-12NOV2020-OR-1		B1-12NOV2020-OR-1 FD		B1-12NOV2020-OR-2		B1-16NOV2020-OR-3		B1-16NOV2020-OR-4		B1-12NOV2020-SO-1	
Lab Sample ID:		B21C026-DUP1		20K3001-07		20K3001-08		20K3001-09		B21C026-DUP2		20K3001-10		20K3007-10		20K3006-01		20K3001-01	
Lab Sample Delivery Group:		20K3001		20K3001		20K3001		20K3001		20K3001		20K3001		20K3007		20K3006		20K3001	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		Goose Island		Goose Island		Goose Island		Oregon Shore		Oregon Shore		Oregon Shore		Oregon Shore		Oregon Shore		South Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**6.33**		**6.83**		**6.52**		**6.31**		**6.96**		**7.36**		**6.83**		**8.13**		**14.1**	
PCB 10	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 103	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 104	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 105	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.200		0.521	
PCB 107	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 110	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.126		0.956	
PCB 114	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 115/87	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075		0.069	U
PCB 117/81	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075	U	0.069	U
PCB 118	ug/kg	0.31		0.185		0.184		0.189		0.24		0.309		0.323		0.303		1.41	
PCB 119	ug/kg	0.15		0.153		0.139		0.145		0.22		0.177		0.213		0.124	J	0.135	
PCB 12	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 121	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 123	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA		NA	
PCB 124	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 126/129/178	ug/kg	0.111	U	0.11	U	0.108	U	0.101	U	0.108	U	0.112	U	0.111	U	0.239	J	0.104	U
PCB 128/174/202	ug/kg	0.111	U	0.11	U	0.108	U	0.101	U	0.108	U	0.112	U	0.111	U	0.113	U	0.104	U
PCB 13	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.037	U	0.035	U
PCB 130	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 131/122/142	ug/kg	0.111	U	0.11	U	0.108	U	0.101	U	0.108	U	0.112	U	0.111	U	0.113	U	0.104	U
PCB 132	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.276	
PCB 134	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.117	J	0.035	U
PCB 135	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 136	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 137	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 138/163/164	ug/kg	0.111	U	0.11	U	0.484		0.467		0.59		0.592		0.664		0.623		1.32	
PCB 14	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 141	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 144	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 146	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.114	J	0.035	U
PCB 147	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 149/123	ug/kg	0.38		0.611		0.343		0.339		0.32		0.288		0.267		0.443		0.567	
PCB 15/17	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075	U	0.069	U
PCB 151	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.132		0.118	J	0.038	U	0.141	
PCB 153	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 154	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 156	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 157/201	ug/kg	0.074	U	0.318		0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075	U	0.522	
PCB 158	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 16	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 165	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 167	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 170/203	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075	U	0.069	U

Phase II Clams - PCB Congeners

Station Number:		GI2 DUP		GI4		GI5		OR1		OR1 DUP		OR2		OR3		OR4		SO1	
USACE Sample ID:		B1-12NOV2020-G1-2 FD		B1-12NOV2020-G1-4		B1-12NOV2020-G1-5		B1-12NOV2020-OR-1		B1-12NOV2020-OR-1 FD		B1-12NOV2020-OR-2		B1-16NOV2020-OR-3		B1-16NOV2020-OR-4		B1-12NOV2020-SO-1	
Lab Sample ID:		B21C026-DUP1		20K3001-07		20K3001-08		20K3001-09		B21C026-DUP2		20K3001-10		20K3007-10		20K3006-01		20K3001-01	
Lab Sample Delivery Group:		20K3001		20K3001		20K3001		20K3001		20K3001		20K3001		20K3007		20K3006		20K3001	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		Goose Island		Goose Island		Goose Island		Oregon Shore		Oregon Shore		Oregon Shore		Oregon Shore		Oregon Shore		South Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075	U	0.069	U
PCB 173	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 175	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 176	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 177	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 179	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 18	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 180	ug/kg	0.037	U	0.280		0.232		0.304		0.39		0.411		0.037	U	0.310		0.316	
PCB 183	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	NA		0.035	U
PCB 184	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 185	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 187	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 189	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 19	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 190/199	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075	U	0.069	U
PCB 191	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 192	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 193	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 194	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 195	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 196	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 197	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 20	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 200	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 205	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 206	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 207	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 208	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 209	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 22	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 24/27	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075	U	0.069	U
PCB 25/54	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075	U	0.069	U
PCB 26	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 28/31	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075	U	0.069	U
PCB 29	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 32	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 33	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 34	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 35	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 37/59	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075	U	0.069	U
PCB 4	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 40	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 42	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 44	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.314	

Phase II Clams - PCB Congeners

Station Number:		GI2 DUP		GI4		GI5		OR1		OR1 DUP		OR2		OR3		OR4		SO1	
USACE Sample ID:		B1-12NOV2020-G1-2 FD		B1-12NOV2020-G1-4		B1-12NOV2020-G1-5		B1-12NOV2020-OR-1		B1-12NOV2020-OR-1 FD		B1-12NOV2020-OR-2		B1-16NOV2020-OR-3		B1-16NOV2020-OR-4		B1-12NOV2020-SO-1	
Lab Sample ID:		B21C026-DUP1		20K3001-07		20K3001-08		20K3001-09		B21C026-DUP2		20K3001-10		20K3007-10		20K3006-01		20K3001-01	
Lab Sample Delivery Group:		20K3001		20K3001		20K3001		20K3001		20K3001		20K3001		20K3007		20K3006		20K3001	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		Goose Island		Goose Island		Goose Island		Oregon Shore		Oregon Shore		Oregon Shore		Oregon Shore		Oregon Shore		South Bradford	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 47/49	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075	U	0.069	U
PCB 48	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 5	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 51	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 52/45	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075	U	0.370	
PCB 53	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 56/60	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.352		0.069	U
PCB 6	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 63	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 64	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 66	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.276	
PCB 67/41/100	ug/kg	0.111	U	0.11	U	0.108	U	0.101	U	0.108	U	0.112	U	0.111	U	0.113	U	0.104	U
PCB 69	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 7	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 70	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.294	
PCB 71	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 73	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 74	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 75	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 77	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 78	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 8	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 82	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 83	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.125		0.107	J	0.038	U	0.035	U
PCB 84	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 85	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 9	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 90/101	ug/kg	0.24	J	0.160	J	0.174		0.194	J	0.23	J	0.274		0.074	U	0.266		0.841	
PCB 91	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 92	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 93	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.035	U
PCB 95/155	ug/kg	0.074	U	0.073	U	0.072	U	0.067	U	0.072	U	0.075	U	0.074	U	0.075	U	0.560	
PCB 97	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.038	U	0.489	
PCB 99	ug/kg	0.037	U	0.037	U	0.036	U	0.034	U	0.036	U	0.037	U	0.037	U	0.108	J	0.522	

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Phase II Clams - PCB Congeners

Station Number:		SO2		SO3		SO4		WA1-1		WA1-2		WA2-1		WA2-1 DUP		WA2-2	
USACE Sample ID:		B1-12NOV2020-SO-2		B1-12NOV2020-SO-3		B1-12NOV2020-SO-4		REF-16NOV2020-WA1-1		REF-16NOV2020-WA1-2		REF-16NOV2020-WA2-1		REF-16NOV2020-WA2-1 FD		REF-16NOV2020-WA2-2	
Lab Sample ID:		20K3001-02		20K3001-03		20K3001-04		20K3006-02		20K3006-03		20K3006-04		B21C024-DUP1		20K3006-05	
Lab Sample Delivery Group:		20K3001		20K3001		20K3001		20K3006		20K3006		20K3006		20K3006		20K3006	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		South Bradford		South Bradford		South Bradford		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**16.4**		**13.7**		**10.7**		**7.47**		**6.89**		**6.82**		**6.73**		**6.55**	
PCB 10	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 103	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 104	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 105	ug/kg	0.595		0.418		0.298		0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 107	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 110	ug/kg	0.823		0.615		0.385		0.095	J	0.037	U	0.038	U	0.036	U	0.037	U
PCB 114	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 115/87	ug/kg	0.076	U	0.071	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.075	U
PCB 117/81	ug/kg	0.076	U	0.071	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.075	U
PCB 118	ug/kg	1.48		0.928		0.667		0.210		0.277		0.254		0.38		0.191	
PCB 119	ug/kg	0.136		0.183		0.158		0.206		0.188		0.155		0.17		0.153	
PCB 12	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 121	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 123	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA	
PCB 124	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 126/129/178	ug/kg	0.114	U	0.107	U	0.114	U	0.240	J	0.112	U	0.114	U	0.109	U	0.112	U
PCB 128/174/202	ug/kg	0.704		0.544		0.509		0.113	U	0.112	U	0.114	U	0.109	U	0.112	U
PCB 13	ug/kg	0.038	U	0.036	U	0.038	U	0.037	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 130	ug/kg	0.124	J	0.118	J	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 131/122/142	ug/kg	0.114	U	0.107	U	0.114	U	0.113	U	0.112	U	0.114	U	0.109	U	0.112	U
PCB 132	ug/kg	0.330		0.242		0.139		0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 134	ug/kg	0.038	U	0.036	U	0.038	U	0.104	J	0.037	U	0.038	U	0.036	U	0.037	U
PCB 135	ug/kg	0.038	U	0.392		0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 136	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 137	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 138/163/164	ug/kg	1.48		1.11		0.888		0.522		0.596		0.555		0.77		0.465	
PCB 14	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 141	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 144	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 146	ug/kg	0.237		0.185		0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 147	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 149/123	ug/kg	0.780		0.505		0.301		0.294		0.224		0.383		0.31		0.443	
PCB 15/17	ug/kg	0.076	U	0.071	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.075	U
PCB 151	ug/kg	0.181		0.148		0.138		0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 153	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 154	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 156	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 157/201	ug/kg	0.462		0.432		0.445		0.075	U	0.075	U	0.076	U	0.073	U	0.075	U
PCB 158	ug/kg	0.213		0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 16	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 165	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 167	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 170/203	ug/kg	0.076	U	0.071	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.075	U

Phase II Clams - PCB Congeners

Station Number:		SO2		SO3		SO4		WA1-1		WA1-2		WA2-1		WA2-1 DUP		WA2-2	
USACE Sample ID:		B1-12NOV2020-SO-2		B1-12NOV2020-SO-3		B1-12NOV2020-SO-4		REF-16NOV2020-WA1-1		REF-16NOV2020-WA1-2		REF-16NOV2020-WA2-1		REF-16NOV2020-WA2-1 FD		REF-16NOV2020-WA2-2	
Lab Sample ID:		20K3001-02		20K3001-03		20K3001-04		20K3006-02		20K3006-03		20K3006-04		B21C024-DUP1		20K3006-05	
Lab Sample Delivery Group:		20K3001		20K3001		20K3001		20K3006		20K3006		20K3006		20K3006		20K3006	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		South Bradford		South Bradford		South Bradford		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	0.076	U	0.071	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.075	U
PCB 173	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 175	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 176	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 177	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 179	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 18	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 180	ug/kg	0.432		0.377		0.316		0.268		0.279		0.038	U	0.036	U	0.037	U
PCB 183	ug/kg	0.038	U	0.036	U	0.038	U	NA		NA		NA		0.036	U	NA	
PCB 184	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 185	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 187	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 189	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 19	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 190/199	ug/kg	0.076	U	0.071	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.075	U
PCB 191	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 192	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 193	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 194	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 195	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 196	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 197	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 20	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 200	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 205	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 206	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 207	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 208	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 209	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 22	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 24/27	ug/kg	0.076	U	0.071	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.075	U
PCB 25/54	ug/kg	0.076	U	0.071	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.075	U
PCB 26	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 28/31	ug/kg	0.076	U	0.071	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.075	U
PCB 29	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 32	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 33	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 34	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 35	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 37/59	ug/kg	0.076	U	0.071	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.075	U
PCB 4	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 40	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 42	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 44	ug/kg	0.232		0.223		0.145		0.038	U	0.037	U	0.038	U	0.036	U	0.037	U

Phase II Clams - PCB Congeners

Station Number:		SO2		SO3		SO4		WA1-1		WA1-2		WA2-1		WA2-1 DUP		WA2-2	
USACE Sample ID:		B1-12NOV2020-SO-2		B1-12NOV2020-SO-3		B1-12NOV2020-SO-4		REF-16NOV2020-WA1-1		REF-16NOV2020-WA1-2		REF-16NOV2020-WA2-1		REF-16NOV2020-WA2-1 FD		REF-16NOV2020-WA2-2	
Lab Sample ID:		20K3001-02		20K3001-03		20K3001-04		20K3006-02		20K3006-03		20K3006-04		B21C024-DUP1		20K3006-05	
Lab Sample Delivery Group:		20K3001		20K3001		20K3001		20K3006		20K3006		20K3006		20K3006		20K3006	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		South Bradford		South Bradford		South Bradford		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 47/49	ug/kg	0.076	U	0.071	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.075	U
PCB 48	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 5	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 51	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 52/45	ug/kg	0.215	J	0.196	J	0.083	J	0.075	U	0.075	U	0.076	U	0.073	U	0.075	U
PCB 53	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 56/60	ug/kg	0.412		0.381		0.350		0.350		0.075	U	0.076	U	0.073	U	0.075	U
PCB 6	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 63	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 64	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 66	ug/kg	0.236		0.166		0.130		0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 67/41/100	ug/kg	0.114	U	0.107	U	0.114	U	0.113	U	0.112	U	0.114	U	0.109	U	0.112	U
PCB 69	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 7	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 70	ug/kg	0.297		0.251		0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 71	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 73	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 74	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 75	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 77	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 78	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 8	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 82	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 83	ug/kg	0.115	J	0.126		0.097	J	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 84	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 85	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 9	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 90/101	ug/kg	0.883		0.681		0.428		0.226	J	0.237	J	0.229	J	0.073		0.176	J
PCB 91	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 92	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 93	ug/kg	0.290		0.407		0.258		0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 95/155	ug/kg	0.482		0.371		0.155	J	0.075	U	0.075	U	0.076	U	0.073	U	0.075	U
PCB 97	ug/kg	0.491		0.343		0.235		0.038	U	0.037	U	0.038	U	0.036	U	0.037	U
PCB 99	ug/kg	0.431		0.333		0.175		0.075	J	0.037	U	0.038	U	0.036	U	0.037	U

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Phase II Clams - PCB Congeners

Station Number:		WA3-1		WA3-2		WA3-2 DUP		WA5-1		WA5-2		WA6-1		WA6-2		WA7-1	
USACE Sample ID:		REF-16NOV2020-WA3-1		REF-16NOV2020-WA3-2		REF-16NOV2020-WA3-2 FD		REF-17NOV2020-WA5-1		REF-17NOV2020-WA5-2		REF-17NOV2020-WA6-1		REF-17NOV2020-WA6-2		REF-17NOV2020-WA7-1	
Lab Sample ID:		20K3006-06		20K3006-07		B21C024-DUP2		20K3006-08		20K3006-09		20K3006-10		20K3007-01		20K3007-02	
Lab Sample Delivery Group:		20K3006		20K3006		20K3006		20K3006		20K3006		20K3006		20K3007		20K3007	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**6.34**		**9.23**		**8.94**		**6.57**		**7.31**		**6.48**		**7.31**		**7.09**	
PCB 10	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 103	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 104	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 105	ug/kg	0.037	U	0.239		0.23		0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 107	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 110	ug/kg	0.037	U	0.261		0.21		0.037	U	0.037	U	0.037	U	0.037	U	0.123	J
PCB 114	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 115/87	ug/kg	0.074	U	0.073	U	0.070	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 117/81	ug/kg	0.074	U	0.073	U	0.070	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 118	ug/kg	0.181		0.447		0.40		0.209		0.251		0.205		0.239		0.236	
PCB 119	ug/kg	0.129		0.167		0.13		0.182		0.132		0.119	J	0.143		0.137	
PCB 12	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 121	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 123	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA	
PCB 124	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 126/129/178	ug/kg	0.111	U	0.109	U	0.104	U	0.112	U	0.112	U	0.112	U	0.112	U	0.113	U
PCB 128/174/202	ug/kg	0.111	U	0.456		0.43		0.112	U	0.427		0.112	U	0.112	U	0.113	U
PCB 13	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 130	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 131/122/142	ug/kg	0.111	U	0.109	U	0.104	U	0.112	U	0.112	U	0.112	U	0.112	U	0.113	U
PCB 132	ug/kg	0.037	U	0.123		0.12		0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 134	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.112	J	0.115	J
PCB 135	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 136	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 137	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 138/163/164	ug/kg	0.447		0.773		0.76		0.527		0.529		0.112		0.534		0.583	
PCB 14	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 141	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 144	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 146	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 147	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 149/123	ug/kg	0.317		0.367		0.48		0.339		0.233		0.277		0.195		0.258	
PCB 15/17	ug/kg	0.074	U	0.073	U	0.070	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 151	ug/kg	0.037	U	0.133		0.10	J	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 153	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 154	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 156	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 157/201	ug/kg	0.074	U	0.362		0.39		0.075	U	0.343		0.315		0.074	U	0.075	U
PCB 158	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 16	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 165	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 167	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 170/203	ug/kg	0.074	U	0.073	U	0.070	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U

Phase II Clams - PCB Congeners

Station Number:		WA3-1		WA3-2		WA3-2 DUP		WA5-1		WA5-2		WA6-1		WA6-2		WA7-1	
USACE Sample ID:		REF-16NOV2020-WA3-1		REF-16NOV2020-WA3-2		REF-16NOV2020-WA3-2 FD		REF-17NOV2020-WA5-1		REF-17NOV2020-WA5-2		REF-17NOV2020-WA6-1		REF-17NOV2020-WA6-2		REF-17NOV2020-WA7-1	
Lab Sample ID:		20K3006-06		20K3006-07		B21C024-DUP2		20K3006-08		20K3006-09		20K3006-10		20K3007-01		20K3007-02	
Lab Sample Delivery Group:		20K3006		20K3006		20K3006		20K3006		20K3006		20K3006		20K3007		20K3007	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	0.074	U	0.073	U	0.070	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 173	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 175	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 176	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 177	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.182	
PCB 179	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 18	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 180	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.293		0.254		0.312		0.038	U
PCB 183	ug/kg	NA		NA		0.035	U	NA		NA		NA		0.037	U	0.038	U
PCB 184	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 185	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 187	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 189	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 19	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 190/199	ug/kg	0.074	U	0.073	U	0.070	U	0.075	U	0.074	U	0.075	U	0.280		0.075	U
PCB 191	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 192	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 193	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.188		0.038	U
PCB 194	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 195	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 196	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 197	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 20	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 200	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 205	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 206	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 207	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 208	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 209	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 22	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 24/27	ug/kg	0.074	U	0.073	U	0.070	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 25/54	ug/kg	0.074	U	0.073	U	0.070	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 26	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 28/31	ug/kg	0.074	U	0.073	U	0.070	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 29	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 32	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 33	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 34	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 35	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 37/59	ug/kg	0.074	U	0.073	U	0.070	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 4	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 40	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 42	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 44	ug/kg	0.037	U	0.123		0.13		0.037	U	0.037	U	0.037	U	0.037	U	0.038	U

Phase II Clams - PCB Congeners

Station Number:		WA3-1		WA3-2		WA3-2 DUP		WA5-1		WA5-2		WA6-1		WA6-2		WA7-1	
USACE Sample ID:		REF-16NOV2020-WA3-1		REF-16NOV2020-WA3-2		REF-16NOV2020-WA3-2 FD		REF-17NOV2020-WA5-1		REF-17NOV2020-WA5-2		REF-17NOV2020-WA6-1		REF-17NOV2020-WA6-2		REF-17NOV2020-WA7-1	
Lab Sample ID:		20K3006-06		20K3006-07		B21C024-DUP2		20K3006-08		20K3006-09		20K3006-10		20K3007-01		20K3007-02	
Lab Sample Delivery Group:		20K3006		20K3006		20K3006		20K3006		20K3006		20K3006		20K3007		20K3007	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 47/49	ug/kg	0.074	U	0.073	U	0.070	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 48	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 5	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 51	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 52/45	ug/kg	0.074	U	0.107	J	0.087	J	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 53	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 56/60	ug/kg	0.074	U	0.356		0.33		0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 6	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 63	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 64	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 66	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 67/41/100	ug/kg	0.111	U	0.109	U	0.104		0.112	U	0.112	U	0.112	U	0.112	U	0.113	U
PCB 69	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 7	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 70	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 71	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 73	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 74	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 75	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 77	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 78	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 8	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 82	ug/kg	0.037	U	0.184		0.17		0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 83	ug/kg	0.037	U	0.122		0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 84	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 85	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 9	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 90/101	ug/kg	0.161	J	0.357		0.34		0.189	J	0.214	J	0.182	J	0.222	J	0.226	J
PCB 91	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 92	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 93	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 95/155	ug/kg	0.074	U	0.073	U	0.070	U	0.075	U	0.074	U	0.075	U	0.074	U	0.075	U
PCB 97	ug/kg	0.037	U	0.036	U	0.035	U	0.037	U	0.037	U	0.037	U	0.037	U	0.038	U
PCB 99	ug/kg	0.037	U	0.278		0.33		0.037	U	0.037	U	0.037	U	0.165		0.118	J

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Phase II Clams - PCB Congeners

Station Number:		WA7-2		WA8-1		WA8-2		WA8-2 DUP		WA9-1		WA9-2		WA10-1		WA10-2	
USACE Sample ID:		REF-17NOV2020-WA7-2		REF-17NOV2020-WA8-1		REF-17NOV2020-WA8-2		REF-17NOV2020-WA8-2 FD		REF-17NOV2020-WA9-1		REF-17NOV2020-WA9-2		REF-17NOV2020-WA10-1		REF-17NOV2020-WA10-2	
Lab Sample ID:		20K3007-03		20K3007-04		20K3007-05		B21C025-DUP1		20K3007-06		20K3007-07		20K3007-08		20K3007-09	
Lab Sample Delivery Group:		20K3007		20K3007		20K3007		20K3007		20K3007		20K3007		20K3007		20K3007	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	**ug/kg**	**7.22**		**7.42**		**6.70**		**6.81**		**6.68**		**6.06**		**6.64**		**6.47**	
PCB 10	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 103	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 104	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 105	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 107	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 110	ug/kg	0.094	J	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 114	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 115/87	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U
PCB 117/81	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U
PCB 118	ug/kg	0.210		0.294		0.237		0.20		0.172		0.259		0.259		0.175	
PCB 119	ug/kg	0.178		0.135		0.168		0.21		0.187		0.035	U	0.199		0.100	J
PCB 12	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 121	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 123	ug/kg	NA		NA		NA		NA		NA		NA		NA		NA	
PCB 124	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 126/129/178	ug/kg	0.112	U	0.258	J	0.108	U	0.106	U	0.237	J	0.106	U	0.112	U	0.111	U
PCB 128/174/202	ug/kg	0.112	U	0.105	U	0.108	U	0.106	U	0.109	U	0.106	U	0.112	U	0.111	U
PCB 13	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 130	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 131/122/142	ug/kg	0.112	U	0.105	U	0.108	U	0.106	U	0.109	U	0.106	U	0.112	U	0.111	U
PCB 132	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 134	ug/kg	0.101	J	0.140		0.036	U	0.035	U	0.080	J	0.035	U	0.037	U	0.037	U
PCB 135	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 136	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 137	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 138/163/164	ug/kg	0.511		0.601		0.526		0.51		0.449		0.588		0.599		0.472	
PCB 14	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 141	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 144	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 146	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 147	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 149/123	ug/kg	0.501		0.201		0.280		0.50		0.602		0.218		0.243		0.506	
PCB 15/17	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U
PCB 151	ug/kg	0.037	U	0.114	J	0.036	U	0.035	U	0.036	U	0.035	U	0.136		0.037	U
PCB 153	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 154	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 156	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 157/201	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U
PCB 158	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 16	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 165	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 167	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 170/203	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U

Phase II Clams - PCB Congeners

Station Number:		WA7-2		WA8-1		WA8-2		WA8-2 DUP		WA9-1		WA9-2		WA10-1		WA10-2	
USACE Sample ID:		REF-17NOV2020-WA7-2		REF-17NOV2020-WA8-1		REF-17NOV2020-WA8-2		REF-17NOV2020-WA8-2 FD		REF-17NOV2020-WA9-1		REF-17NOV2020-WA9-2		REF-17NOV2020-WA10-1		REF-17NOV2020-WA10-2	
Lab Sample ID:		20K3007-03		20K3007-04		20K3007-05		B21C025-DUP1		20K3007-06		20K3007-07		20K3007-08		20K3007-09	
Lab Sample Delivery Group:		20K3007		20K3007		20K3007		20K3007		20K3007		20K3007		20K3007		20K3007	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 171/172	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U
PCB 173	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 175	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 176	ug/kg	0.037	U	0.197		0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 177	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 179	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 18	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 180	ug/kg	0.279		0.410		0.293		0.30		0.036	U	0.035	U	0.037	U	0.037	U
PCB 183	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 184	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 185	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 187	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 189	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 19	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 190/199	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U
PCB 191	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 192	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 193	ug/kg	0.037	U	0.180		0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 194	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 195	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 196	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 197	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 20	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 200	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 205	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 206	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 207	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 208	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 209	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 22	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 24/27	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U
PCB 25/54	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U
PCB 26	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 28/31	ug/kg	0.075	U	0.07	U	0.072	J	0.13	J	0.073	U	0.071	U	0.075	U	0.074	U
PCB 29	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 32	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 33	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 34	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 35	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 37/59	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U
PCB 4	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 40	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 42	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 44	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U

Phase II Clams - PCB Congeners

Station Number:		WA7-2		WA8-1		WA8-2		WA8-2 DUP		WA9-1		WA9-2		WA10-1		WA10-2	
USACE Sample ID:		REF-17NOV2020-WA7-2		REF-17NOV2020-WA8-1		REF-17NOV2020-WA8-2		REF-17NOV2020-WA8-2 FD		REF-17NOV2020-WA9-1		REF-17NOV2020-WA9-2		REF-17NOV2020-WA10-1		REF-17NOV2020-WA10-2	
Lab Sample ID:		20K3007-03		20K3007-04		20K3007-05		B21C025-DUP1		20K3007-06		20K3007-07		20K3007-08		20K3007-09	
Lab Sample Delivery Group:		20K3007		20K3007		20K3007		20K3007		20K3007		20K3007		20K3007		20K3007	
Phase:		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II		Phase II	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result	
PCB 46	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 47/49	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U
PCB 48	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 5	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 51	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 52/45	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U
PCB 53	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 56/60	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U
PCB 6	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 63	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 64	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 66	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 67/41/100	ug/kg	0.112	U	0.105	U	0.108	U	0.106	U	0.109	U	0.106	U	0.112	U	0.111	U
PCB 69	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 7	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 70	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 71	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 73	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 74	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 75	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 77	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 78	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 8	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 82	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 83	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 84	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 85	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 9	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 90/101	ug/kg	0.198	J	0.260		0.228	J	0.18	J	0.073	U	0.071	U	0.075	U	0.074	U
PCB 91	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 92	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 93	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 95/155	ug/kg	0.075	U	0.07	U	0.072	U	0.071	U	0.073	U	0.071	U	0.075	U	0.074	U
PCB 97	ug/kg	0.037	U	0.035	U	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U
PCB 99	ug/kg	0.137		0.078	J	0.036	U	0.035	U	0.036	U	0.035	U	0.037	U	0.037	U

Notes:
Total PCBs are calculated as a simple sum with non-detects summed at the limit of detection
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
J = estimated value
J+ = estimated value that may be biased high
U = not detected

Appendix D:

Crayfish Tissue Analytical Results

Crayfish - Identifiers

Composite Sample Number	Individual Sample ID	Collection Date	Collection Method	Collection Area	Species	JUV/ ADL	Latitude (DD)	Longitude (DD)
CF COMP 1	CF2012, 13, 14	8/26/2020	Trap	Reference	CF	ADL	45.69485	-121.87639
CF COMP 1 FD	CF2012, 13, 14	8/26/2020	Trap	Reference	CF	ADL	45.69485	-121.87639
CF COMP 2	CF2011, 17, 18	8/26/2020	Trap	Reference	CF	ADL	45.69607	-121.87663
CF COMP 3	CF2007, 08, 19	8/26/2020	Trap	Reference	CF	ADL	45.69622	-121.87597
CF COMP 4	CF2009, 10, 29	8/27/2020	Trap	Reference	CF	ADL	45.69501	-121.87686
CF COMP 4 FD	CF2009, 10, 29	8/27/2020	Trap	Reference	CF	ADL	45.69501	-121.87686
CF COMP 5	CF2031, 32, 33	8/27/2020	Trap	Reference	CF	ADL	45.69921	-121.86513
CF COMP 6	CF2015, 16, 28, 42	8/31/2020	Trap	Reference	CF	ADL	45.69492	-121.87669
CF COMP 7	CF2004, 05, 20	8/26/2020	Trap	Reference	CF	ADL	45.69819	-121.87328
CF COMP 7 FD	CF2004, 05, 20	8/26/2020	Trap	Reference	CF	ADL	45.69819	-121.87328
CF COMP 8	CF2034, 35, 41	8/28/2020	Trap	Reference	CF	ADL	45.69924	-121.86247
CF COMP 9	CF2001, 02, 23, 39	8/28/2020	Trap	Reference	CF	ADL	45.69789	-121.86954
CF COMP 9 FD	CF2001, 02, 23, 39	8/28/2020	Trap	Reference	CF	ADL	45.69789	-121.86954
CF COMP 10	CF2021, 22, 38, 03	8/28/2020	Trap	Reference	CF	ADL	45.69902	-121.87167
CF COMP 11	CF2006, 30, 45	8/31/2020	Trap	Reference	CF	ADL	45.69622	-121.87597
CF COMP 12	CF2046, 47 48, 56	9/1/2020	Trap	Reference	CF	ADL	45.69921	-121.86513
CF COMP 13	CF2049, 50, 51	8/31/2020	Trap	Reference	CF	ADL	45.69921	-121.86513
CF COMP 13 FD	CF2049, 50, 51	8/31/2020	Trap	Reference	CF	ADL	45.69921	-121.86513
CF COMP 14	CF2027, 40, 55	8/31/2020	Trap	Reference	CF	ADL	45.69924	-121.86247
CF COMP 15	CF2052, 53, 57	9/1/2020	Trap	Reference	CF	ADL	45.69921	-121.86223
CF COMP 16	CF2025, 26, 54	8/31/2020	Trap	Reference	CF	ADL	45.69942	-121.86223
CF COMP 17	CF2036, 43, 79	9/14/2020	Trap	Reference	CF	ADL	45.69501	-121.87686
CF COMP 17 FD	CF2036, 43, 79	9/14/2020	Trap	Reference	CF	ADL	45.69501	-121.87686
CF COMP 18	CF2080, 81, 82	9/14/2020	Trap	Reference	CF	ADL	45.69505	-121.87684
CF COMP 19	CF2083, 85, 87	9/14/2020	Trap	Reference	CF	ADL	45.69485	-121.87639
CF COMP 19 FD	CF2083, 85, 87	9/14/2020	Trap	Reference	CF	ADL	45.69485	-121.87639
CF COMP 20	CF2058, 59	9/2/2020	Trap	Reference	CF	ADL	45.69921	-121.86954
CF COMP 21	CF1120, 21, 22	9-Sep-20	Trap	Forebay	CF	ADL	45.64282	-121.93897
CF COMP 21 FD	CF1120, 21, 22	9-Sep-20	Trap	Forebay	CF	ADL	45.64282	-121.93897
CF COMP 22	CF1117, 18, 19	9-Sep-20	Trap	Forebay	CF	ADL	45.64303	-121.93855
CF COMP 23	CF1102, 03, 07	9-Sep-20	Trap	Forebay	CF	ADL	45.64278	-121.93803
CF COMP 24	CF1084, 91, 92	9-Sep-20	Trap	Forebay	CF	ADL	45.64305	-121.93741
CF COMP 25	CF1160, 2062, 2068	9-Sep-20	Trap	Forebay	CF	ADL	45.64293	-121.93677
CF COMP 26	CF1143, 52, 53	9-Sep-20	Trap	Forebay	CF	ADL	45.6432	-121.93612
CF COMP 27	CF1128, 32, 36	9-Sep-20	Trap	Forebay	CF	ADL	45.64301	-121.93559
CF COMP 27 FD	CF1128, 32, 36	9-Sep-20	Trap	Forebay	CF	ADL	45.6432	-121.93612
CF COMP 28	CF1139, 40, 41, 42	9-Sep-20	Trap	Forebay	CF	ADL	45.64299	-121.93504
CF COMP 29	CF1069, 70, 71	9-Sep-20	Trap	Forebay	CF	ADL	45.6426	-121.93479
CF COMP 30	CF1074, 78, 79	9-Sep-20	Trap	Forebay	CF	ADL	45.64225	-121.93452
CF COMP 31	CF1061, 62, 63	3-Sep-20	Trap	Forebay	CF	ADL	45.64109	-121.93607
CF COMP 32	CF1064, 65, 66	3-Sep-20	Trap	Forebay	CF	ADL	45.64083	-121.93778
CF COMP 33	CF1027, 28, 29	2-Sep-20	Trap	Forebay	CF	ADL	45.63799	-121.9406
CF COMP 34	CF1031, 33, 34	2-Sep-20	Trap	Forebay	CF	ADL	45.63909	-121.936
CF COMP 35	CF1042, 43, 45	2-Sep-20	Trap	Forebay	CF	ADL	45.64037	-121.93295
CF COMP 36	CF1022, 23, 24	2-Sep-20	Trap	Forebay	CF	ADL	45.64295	-121.92986
CF COMP 37	CF1048, 49, 50	3-Sep-20	Trap	Forebay	CF	ADL	45.64317	-121.92941
CF COMP 38	CF1016, 17, 20	2-Sep-20	Trap	Forebay	CF	ADL	45.64392	-121.92908
CF COMP 38 FD	CF1016, 17, 20	2-Sep-20	Trap	Forebay	CF	ADL	45.64392	-121.92908
CF COMP 39	CF1001, 02, 04	2-Sep-20	Trap	Forebay	CF	ADL	45.64474	-121.92683
CF COMP 40	CF1051, 52	3-Sep-20	Trap	Forebay	CF	ADL	45.64507	-121.92591

Notes:
CF = crayfish
JUV = juvinele
ADL = adult
mm = millimeters
DD = decimal degrees

Crayfish - Lipids and Mercury

Composite Sample Number	Individual Sample ID	Laboratory ID	SDG	Collection Area	Lipids (%)		Mercury (mg/kg)	
CF COMP 1	CF2012, 13, 14	20I1003-01	20I1003	Reference	1.09	J	0.0149	J
CF COMP 1 FD	CF2012, 13, 14	B20K050-DUP1	20I1003	Reference	NA		0.0200	J
CF COMP 2	CF2011, 17, 18	20I1003-02	20I1003	Reference	1.08	J	0.0216	J
CF COMP 3	CF2007, 08, 19	20I1003-03	20I1003	Reference	1.55	J	0.0262	J
CF COMP 4	CF2009, 10, 29	20I1003-04	20I1003	Reference	1.29	J	0.0211	J
CF COMP 4 FD	CF2009, 10, 29	B21A016-DUP1	20I1003	Reference	NA		0.0208	J
CF COMP 5	CF2031, 32, 33	20I1003-05	20I1003	Reference	0.378	J	0.0174	J
CF COMP 6	CF2015, 16, 28, 42	20I1003-06	20I1003	Reference	0.845	J	0.0218	J
CF COMP 7	CF2004, 05, 20	20I1003-07	20I1003	Reference	1.50	J	0.0326	J
CF COMP 7 FD	CF2004, 05, 20	B21A016-DUP2	20I1003	Reference	NA		0.0290	J
CF COMP 8	CF2034, 35, 41	20I1003-08	20I1003	Reference	1.31	J	0.0106	J
CF COMP 9	CF2001, 02, 23, 39	20I1003-09	20I1003	Reference	1.58	J	0.0224	J-
CF COMP 9 FD	CF2001, 02, 23, 39	B21A016-DUP3	20I1003	Reference	NA		0.0239	J
CF COMP 10	CF2021, 22, 38, 03	20I1003-10	20I1003	Reference	0.976	J	0.0200	J
CF COMP 11	CF2006, 30, 45	20I1003-11	20I1003	Reference	0.836	J	0.0306	J
CF COMP 12	CF2046, 47 48, 56	20I1003-12	20I1003	Reference	1.14	J	0.0206	J
CF COMP 13	CF2049, 50, 51	20I1003-13	20I1003	Reference	1.76	J	0.0154	J
CF COMP 13 FD	CF2049, 50, 51	B20J189-DUP2/ B21A016-DUP4	20I1003	Reference	1.76	J	0.0161	J
CF COMP 14	CF2027, 40, 55	20I1003-14	20I1003	Reference	0.922	J	0.0164	J
CF COMP 15	CF2052, 53, 57	20I1003-15	20I1003	Reference	1.55	J	0.0211	J
CF COMP 16	CF2025, 26, 54	20I1003-16	20I1003	Reference	1.05	J	0.0136	J
CF COMP 17	CF2036, 43, 79	20I2305-01	20I2305	Reference	0.555		0.0176	
CF COMP 17 FD	CF2036, 43, 79	B20K053-DUP1	20I2305	Reference	NA		0.0190	
CF COMP 18	CF2080, 81, 82	20I2305-02	20I2305	Reference	0.896		0.0180	
CF COMP 19	CF2083, 85, 87	20I2305-03	20I2305	Reference	1.30		0.0253	
CF COMP 19 FD	CF2083, 85, 87	B20J189-DUP1	20I2305	Reference	1.53		NA	
CF COMP 20	CF2058, 59	20I2305-04	20I2305	Reference	1.15		0.0420	
CF COMP 21	CF1120, 21, 22	20I2305-05	20I2305	Forebay	0.752		0.0256	
CF COMP 21 FD	CF1120, 21, 22	B21A016-DUP5	20I2305	Forebay	NA		0.0286	
CF COMP 22	CF1117, 18, 19	20I2305-06	20I2305	Forebay	1.05		0.0449	
CF COMP 23	CF1102, 03, 07	20I2305-07	20I2305	Forebay	0.969		0.0465	
CF COMP 24	CF1084, 91, 92	20I2305-08	20I2305	Forebay	1.23		0.0364	
CF COMP 25	CF1160, 2062, 2068	20I2305-09	20I2305	Forebay	1.31		0.0489	
CF COMP 26	CF1143, 52, 53	20I2305-10	20I2305	Forebay	1.29		0.0338	
CF COMP 27	CF1128, 32, 36	20I2305-11	20I2305	Forebay	0.802		0.0334	
CF COMP 27 FD	CF1128, 32, 36	B20K053-DUP2	20I2305	Forebay	NA		0.0330	
CF COMP 28	CF1139, 40, 41, 42	20I2305-14	20I2305	Forebay	1.33		0.0382	
CF COMP 29	CF1069, 70, 71	20I2305-15	20I2305	Forebay	1.53		0.0321	
CF COMP 30	CF1074, 78, 79	20I2305-16	20I2305	Forebay	1.13		0.0432	
CF COMP 31	CF1061, 62, 63	20I2305-17	20I2305	Forebay	0.747		0.0295	
CF COMP 32	CF1064, 65, 66	20I2305-18	20I2305	Forebay	0.656		0.0260	
CF COMP 33	CF1027, 28, 29	20I2305-19	20I2305	Forebay	1.18		0.0395	
CF COMP 34	CF1031, 33, 34	20I2305-20	20I2305	Forebay	0.812		0.0444	
CF COMP 35	CF1042, 43, 45	20I2305-21	20I2305	Forebay	1.02		0.0258	
CF COMP 36	CF1022, 23, 24	20I2305-22	20I2305	Forebay	0.837		0.0345	

Crayfish - Lipids and Mercury

Composite Sample Number	Individual Sample ID	Laboratory ID	SDG	Collection Area	Lipids (%)		Mercury (mg/kg)	
CF COMP 37	CF1048, 49, 50	20I2305-23	20I2305	Forebay	0.947		0.0200	
CF COMP 38	CF1016, 17, 20	20I2305-24	20I2305	Forebay	0.643		0.0226	
CF COMP 38 FD	CF1016, 17, 20	B20K053-DUP3	20I2305	Forebay	NA		0.0280	
CF COMP 39	CF1001, 02, 04	20I2305-25	20I2305	Forebay	0.922		0.0237	
CF COMP 40	CF1051, 52	20I2305-26	20I2305	Forebay	0.773		0.0496	

Notes:
NA = not analyzed
SDG = sample delivery group
mg/kg = milligrams per kilogram
J = estimated value
J- = estimated value that may be biased low

Crayfish - Organochlorine Pesticides

Composite Sample Number	Individual Sample ID	Laboratory ID	SDG	Collection Area	2,4'-DDD (ug/kg)		2,4´-DDE (ug/kg)		2,4´-DDT (ug/kg)		4,4'-DDD (ug/kg)		4,4'-DDE (ug/kg)		4,4'-DDT (ug/kg)		alpha-BHC (ug/kg)		alpha-Chlordane (ug/kg)		beta-BHC (ug/kg)	
CF COMP 1	CF2012, 13, 14	20I1003-01	20I1003	Reference	0.164	U	0.038	U	0.038	U	0.038	U	0.693	J-	0.164	U	0.164	U	0.038	U	0.164	U
CF COMP 2	CF2011, 17, 18	20I1003-02	20I1003	Reference	0.162	U	0.037	U	0.037	U	0.037	U	1.00	J	0.162	U	0.162	U	0.037	U	0.162	U
CF COMP 3	CF2007, 08, 19	20I1003-03	20I1003	Reference	0.163	U	0.038	U	0.038	U	0.038	U	0.807	J-	0.163	U	0.163	U	0.038	U	0.163	U
CF COMP 4	CF2009, 10, 29	20I1003-04	20I1003	Reference	0.160	U	0.037	U	0.037	U	0.037	U	1.05	J-	0.160	U	0.160	U	0.037	U	0.160	U
CF COMP 5	CF2031, 32, 33	20I1003-05	20I1003	Reference	0.165	U	0.038	U	0.038	U	0.038	U	0.298	J-	0.165	U	0.165	U	0.038	U	0.165	U
CF COMP 6	CF2015, 16, 28, 42	20I1003-06	20I1003	Reference	0.163	U	0.038	U	0.038	U	0.038	U	0.475	J-	0.163	U	0.163	U	0.038	U	0.163	U
CF COMP 7	CF2004, 05, 20	20I1003-07	20I1003	Reference	0.159	U	0.037	U	0.037	U	0.037	U	0.801	J-	0.037	U	0.159	U	0.037	U	0.107	J-
CF COMP 7 FD	CF2004, 05, 20	B21C031-DUP1	20I1003	Reference	0.037	U	0.037	U	0.037	U	0.037	U	0.712		0.037	U	0.037	U	0.037	U	0.094	R
CF COMP 8	CF2034, 35, 41	20I1003-08	20I1003	Reference	0.163	U	0.038	U	0.038	U	0.038	U	1.04	J-	0.163	U	0.163	U	0.038	U	0.163	U
CF COMP 9	CF2001, 02, 23, 39	20I1003-09	20I1003	Reference	0.165	U	0.038	U	0.038	U	0.038	UJ	1.82	J-	0.165	U	0.165	UJ	0.038	U	0.165	U
CF COMP 9 FD	CF2001, 02, 23, 39	B20L033-DUP2	20I1003	Reference	0.151	U	0.035	U	0.035	U	0.035	U	0.663		0.151	U	0.151	U	0.035	U	0.151	U
CF COMP 10	CF2021, 22, 38, 03	20I1003-10	20I1003	Reference	0.153	U	0.035	U	0.035	U	0.035	U	0.693	J-	0.153	U	0.153	U	0.035	U	0.153	U
CF COMP 11	CF2006, 30, 45	20I1003-11	20I1003	Reference	0.038	U	0.038	U	0.038	U	0.038	U	0.935		0.038	U	0.038	U	0.038	U	0.038	U
CF COMP 12	CF2046, 47 48, 56	20I1003-12	20I1003	Reference	0.037	U	0.037	U	0.037	U	0.037	U	1.13		0.037	U	0.037	U	0.037	U	0.037	U
CF COMP 13	CF2049, 50, 51	20I1003-13	20I1003	Reference	0.160	U	0.037	U	0.037	U	0.037	U	0.911	J-	0.160	U	0.160	U	0.037	U	0.160	U
CF COMP 14	CF2027, 40, 55	20I1003-14	20I1003	Reference	0.157	U	0.036	U	0.036	U	0.036	U	0.914	J-	0.157	U	0.157	U	0.043	J-	0.157	U
CF COMP 15	CF2052, 53, 57	20I1003-15	20I1003	Reference	0.157	U	0.036	U	0.036	U	0.106	J-	1.81	J-	0.157	U	0.157	U	0.049	J-	0.157	U
CF COMP 16	CF2025, 26, 54	20I1003-16	20I1003	Reference	0.162	U	0.037	U	0.037	U	0.118	J-	1.68	J-	0.162	U	0.162	U	0.037	U	0.162	U
CF COMP 17	CF2036, 43, 79	20I2305-01	20I2305	Reference	0.164	U	0.038	U	0.038	U	0.038	U	0.264		0.164	U	0.164	U	0.041	J	0.164	U
CF COMP 18	CF2080, 81, 82	20I2305-02	20I2305	Reference	0.160	U	0.037	U	0.037	U	0.037	U	0.388		0.160	U	0.160	U	0.037	U	0.160	U
CF COMP 19	CF2083, 85, 87	20I2305-03	20I2305	Reference	0.156	U	0.036	U	0.036	U	0.036	U	0.465		0.156	U	0.156	U	0.036	U	0.156	U
CF COMP 20	CF2058, 59	20I2305-04	20I2305	Reference	0.165	U	0.038	U	0.038	U	0.038	U	1.81		0.165	U	0.165	U	0.038	U	0.165	U
CF COMP 21	CF1120, 21, 22	20I2305-05	20I2305	Forebay	0.164	U	0.038	U	0.038	U	0.038	U	0.353		0.164	U	0.164	U	0.038	U	0.164	U
CF COMP 21 FD	CF1120, 21, 22	B21C031-DUP2	20I2305	Forebay	0.035	U	0.035	U	0.035	U	0.035	U	0.308		0.035	U	0.035	U	0.035	U	0.087	R
CF COMP 22	CF1117, 18, 19	20I2305-06	20I2305	Forebay	0.164	U	0.038	U	0.038	U	0.038	U	0.860		0.164	U	0.164	U	0.038	U	0.164	U
CF COMP 23	CF1102, 03, 07	20I2305-07	20I2305	Forebay	0.163	U	0.038	U	0.038	U	0.038	U	0.318		0.163	U	0.163	U	0.038	U	0.163	U
CF COMP 24	CF1084, 91, 92	20I2305-08	20I2305	Forebay	0.164	U	0.038	U	0.038	U	0.038	U	0.279		0.164	U	0.164	U	0.038	U	0.164	U
CF COMP 25	CF1160, 2062, 2068	20I2305-09	20I2305	Forebay	0.164	U	0.038	U	0.038	U	0.038	U	0.386		0.164	U	0.164	U	0.038	U	0.164	U
CF COMP 26	CF1143, 52, 53	20I2305-10	20I2305	Forebay	0.161	U	0.037	U	0.037	U	0.037	U	0.870		0.161	U	0.161	U	0.037	U	0.161	U
CF COMP 27	CF1128, 32, 36	20I2305-11	20I2305	Forebay	0.161	UJ	0.037	UJ	0.037	U	0.041	J-	0.189		0.161	U	0.161	UJ	0.037	UJ	0.161	UJ
CF COMP 27 FD	CF1128, 32, 36	B20L033-DUP1	20I2305	Forebay	0.162	U	0.038	U	0.038	U	0.038	U	0.194		0.193		0.162	U	0.038	U	0.162	U
CF COMP 28	CF1139, 40, 41, 42	20I2305-14	20I2305	Forebay	0.162	U	0.037	U	0.037	U	0.037	U	0.888		0.162	U	0.162	U	0.121	J	0.162	U
CF COMP 29	CF1069, 70, 71	20I2305-15	20I2305	Forebay	0.163	U	0.038	U	0.038	U	0.038	U	0.762		0.163	U	0.163	U	0.038	U	0.163	U
CF COMP 30	CF1074, 78, 79	20I2305-16	20I2305	Forebay	0.163	U	0.038	U	0.038	U	0.043	J	0.675		0.163	U	0.163	U	0.038	U	0.163	U
CF COMP 31	CF1061, 62, 63	20I2305-17	20I2305	Forebay	0.164	U	0.038	U	0.038	U	0.038	U	0.526		0.164	U	0.164	U	0.038	U	0.164	U
CF COMP 32	CF1064, 65, 66	20I2305-18	20I2305	Forebay	0.164	U	0.038	U	0.038	U	0.038	U	0.362		0.164	U	0.164	U	0.038	U	0.164	U
CF COMP 33	CF1027, 28, 29	20I2305-19	20I2305	Forebay	0.163	U	0.038	U	0.038	U	0.064	J	0.862		0.163	U	0.163	U	0.038	U	0.163	U
CF COMP 34	CF1031, 33, 34	20I2305-20	20I2305	Forebay	0.165	U	0.038	U	0.038	U	0.038	U	0.449		0.165	U	0.165	U	0.038	U	0.165	U
CF COMP 35	CF1042, 43, 45	20I2305-21	20I2305	Forebay	0.164	U	0.038	U	0.038	U	0.038	U	0.295		0.164	U	0.164	U	0.038	U	0.164	U
CF COMP 36	CF1022, 23, 24	20I2305-22	20I2305	Forebay	0.159	U	0.037	U	0.037	U	0.037	U	0.691		0.159	U	0.159	U	0.037	U	0.159	U
CF COMP 37	CF1048, 49, 50	20I2305-23	20I2305	Forebay	0.165	U	0.038	U	0.038	U	0.038	U	0.418		0.165	U	0.165	U	0.038	U	0.165	U
CF COMP 38	CF1016, 17, 20	20I2305-24	20I2305	Forebay	0.612	U	0.037	U	0.037	U	0.037	U	1.08		0.162	U	0.162	U	0.037	U	0.162	U
CF COMP 39	CF1001, 02, 04	20I2305-25	20I2305	Forebay	0.164	U	0.038	U	0.038	U	0.038	U	0.424		0.164	U	0.164	U	0.038	U	0.164	U
CF COMP 40	CF1051, 52	20I2305-26	20I2305	Forebay	0.164	U	0.038	U	0.038	U	0.038	U	0.614		0.164	U	0.164	U	0.038	U	0.164	U

Notes:
NA = not analyzed
SDG = sample delivery group
ug/kg = micrograms per kilogram
J = estimated value
J- = estimated value that may be biased low
U = not detected
UJ = not detected; estimated value

Crayfish - Organochlorine Pesticides

Composite Sample Number	Individual Sample ID	Laboratory ID	SDG	Collection Area	delta-BHC (ug/kg)		Dieldrin (ug/kg)		Endosulfan I (ug/kg)		Endosulfan II (ug/kg)		Endrin (ug/kg)		Endrin aldehyde (ug/kg)		gamma-BHC (Lindane) (ug/kg)		gamma-Chlordane (ug/kg)		Methoxychlor (ug/kg)	
CF COMP 1	CF2012, 13, 14	20I1003-01	20I1003	Reference	0.164	U	0.164	U	0.038	U	0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	U
CF COMP 2	CF2011, 17, 18	20I1003-02	20I1003	Reference	0.162	U	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.162	U	0.037	U	0.037	U
CF COMP 3	CF2007, 08, 19	20I1003-03	20I1003	Reference	0.163	U	0.163	U	0.038	U	0.038	U	0.038	U	0.038	U	0.163	U	0.038	U	0.038	U
CF COMP 4	CF2009, 10, 29	20I1003-04	20I1003	Reference	0.160	U	0.160	U	0.037	U	0.037	U	0.037	U	0.037	U	0.160	U	0.037	U	0.037	U
CF COMP 5	CF2031, 32, 33	20I1003-05	20I1003	Reference	0.165	U	0.165	U	0.038	U	0.038	U	0.038	U	0.038	U	0.165	U	0.038	U	0.038	U
CF COMP 6	CF2015, 16, 28, 42	20I1003-06	20I1003	Reference	0.163	U	0.163	U	0.038	U	0.038	U	0.038	U	0.038	U	0.163	U	0.038	U	0.038	U
CF COMP 7	CF2004, 05, 20	20I1003-07	20I1003	Reference	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
CF COMP 7 FD	CF2004, 05, 20	B21C031-DUP1	20I1003	Reference	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
CF COMP 8	CF2034, 35, 41	20I1003-08	20I1003	Reference	0.163	U	0.163	U	0.038	U	0.038	U	0.038	U	0.038	U	0.163	U	0.038	U	0.038	U
CF COMP 9	CF2001, 02, 23, 39	20I1003-09	20I1003	Reference	0.165	UJ	0.165	U	0.038	U	0.038	UJ	0.038	U	0.038	UJ	0.165	U	0.038	U	0.038	U
CF COMP 9 FD	CF2001, 02, 23, 39	B20L033-DUP2	20I1003	Reference	0.151	U	0.151	U	0.035	U	0.035	U	0.035	U	0.035	U	0.151	U	0.035	U	0.035	U
CF COMP 10	CF2021, 22, 38, 03	20I1003-10	20I1003	Reference	0.153	U	0.153	U	0.035	U	0.035	U	0.035	U	0.035	U	0.153	U	0.035	U	0.035	U
CF COMP 11	CF2006, 30, 45	20I1003-11	20I1003	Reference	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U	0.038	U
CF COMP 12	CF2046, 47 48, 56	20I1003-12	20I1003	Reference	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U
CF COMP 13	CF2049, 50, 51	20I1003-13	20I1003	Reference	0.160	U	0.160	U	0.037	U	0.037	U	0.037	U	0.037	U	0.160	U	0.037	U	0.037	U
CF COMP 14	CF2027, 40, 55	20I1003-14	20I1003	Reference	0.157	U	0.157	U	0.044	J-	0.036	U	0.036	U	0.036	U	0.157	U	0.036	U	0.036	U
CF COMP 15	CF2052, 53, 57	20I1003-15	20I1003	Reference	0.157	U	0.157	U	0.036	U	0.036	U	0.036	U	0.036	U	0.157	U	0.036	U	0.036	U
CF COMP 16	CF2025, 26, 54	20I1003-16	20I1003	Reference	0.162	U	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.162	U	0.037	U	0.037	U
CF COMP 17	CF2036, 43, 79	20I2305-01	20I2305	Reference	0.164	U	0.164	U	0.039	J	0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	U
CF COMP 18	CF2080, 81, 82	20I2305-02	20I2305	Reference	0.160	U	0.160	U	0.037	U	0.037	U	0.037	U	0.037	U	0.160	U	0.037	U	0.037	U
CF COMP 19	CF2083, 85, 87	20I2305-03	20I2305	Reference	0.156	U	0.156	U	0.043	J	0.036	U	0.036	U	0.036	U	0.156	U	0.036	U	0.036	U
CF COMP 20	CF2058, 59	20I2305-04	20I2305	Reference	0.165	U	0.165	U	0.052	J	0.038	U	0.038	U	0.038	U	0.165	U	0.038	U	0.038	U
CF COMP 21	CF1120, 21, 22	20I2305-05	20I2305	Forebay	0.164	U	0.164	U	0.038	U	0.038	U	0.037	U	0.037	U	0.164	U	0.038	U	0.038	U
CF COMP 21 FD	CF1120, 21, 22	B21C031-DUP2	20I2305	Forebay	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U	0.035	U
CF COMP 22	CF1117, 18, 19	20I2305-06	20I2305	Forebay	0.164	U	0.164	U	0.054	J	0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	U
CF COMP 23	CF1102, 03, 07	20I2305-07	20I2305	Forebay	0.163	U	0.163	U	0.038	U	0.038	U	0.038	U	0.038	U	0.163	U	0.038	U	0.038	U
CF COMP 24	CF1084, 91, 92	20I2305-08	20I2305	Forebay	0.164	U	0.164	U	0.038	U	0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	U
CF COMP 25	CF1160, 2062, 2068	20I2305-09	20I2305	Forebay	0.164	U	0.164	U	0.038	U	0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	U
CF COMP 26	CF1143, 52, 53	20I2305-10	20I2305	Forebay	0.161	U	0.161	U	0.037	U	0.037	U	0.037	U	0.037	U	0.161	U	0.037	U	0.037	U
CF COMP 27	CF1128, 32, 36	20I2305-11	20I2305	Forebay	0.161	UJ	0.161	UJ	0.041	J-	0.037	UJ	0.037	UJ	0.037	UJ	0.161	UJ	0.037	UJ	0.037	UJ
CF COMP 27 FD	CF1128, 32, 36	B20L033-DUP1	20I2305	Forebay	0.162	U	0.162	U	0.038	U	0.038	U	0.038	U	0.038	U	0.162	U	0.038	U	0.038	U
CF COMP 28	CF1139, 40, 41, 42	20I2305-14	20I2305	Forebay	0.162	U	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.162	U	0.037	U	0.037	U
CF COMP 29	CF1069, 70, 71	20I2305-15	20I2305	Forebay	0.163	U	0.163	U	0.042	J	0.038	U	0.038	U	0.038	U	0.163	U	0.038	U	0.038	U
CF COMP 30	CF1074, 78, 79	20I2305-16	20I2305	Forebay	0.163	U	0.163	U	0.038	U	0.038	U	0.038	U	0.038	U	0.163	U	0.038	U	0.038	U
CF COMP 31	CF1061, 62, 63	20I2305-17	20I2305	Forebay	0.164	U	0.164	U	0.055	J	0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	U
CF COMP 32	CF1064, 65, 66	20I2305-18	20I2305	Forebay	0.164	U	0.164	U	0.059	J	0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	U
CF COMP 33	CF1027, 28, 29	20I2305-19	20I2305	Forebay	0.163	U	0.163	U	0.045	J	0.038	U	0.038	U	0.038	U	0.163	U	0.038	U	0.038	U
CF COMP 34	CF1031, 33, 34	20I2305-20	20I2305	Forebay	0.165	U	0.165	U	0.038	U	0.038	U	0.038	U	0.038	U	0.165	U	0.038	U	0.038	U
CF COMP 35	CF1042, 43, 45	20I2305-21	20I2305	Forebay	0.164	U	0.164	U	0.038	U	0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	U
CF COMP 36	CF1022, 23, 24	20I2305-22	20I2305	Forebay	0.159	U	0.159	U	0.043	J	0.037	U	0.037	U	0.037	U	0.159	U	0.037	U	0.037	U
CF COMP 37	CF1048, 49, 50	20I2305-23	20I2305	Forebay	0.165	U	0.165	U	0.038	U	0.038	U	0.038	U	0.038	U	0.165	U	0.038	U	0.038	U
CF COMP 38	CF1016, 17, 20	20I2305-24	20I2305	Forebay	0.162	U	0.162	U	0.037	U	0.037	U	0.037	U	0.037	U	0.162	U	0.037	U	0.037	U
CF COMP 39	CF1001, 02, 04	20I2305-25	20I2305	Forebay	0.164	U	0.164	U	0.038	U	0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	U
CF COMP 40	CF1051, 52	20I2305-26	20I2305	Forebay	0.164	U	0.164	U	0.075	J	0.038	U	0.038	U	0.038	U	0.164	U	0.038	U	0.038	U

Notes:
NA = not analyzed
SDG = sample delivery group
ug/kg = micrograms per kilogram
J = estimated value
J- = estimated value that may be biased low
U = not detected
UJ = not detected; estimated value

Crayfish - Total PCBs

Composite Sample Number	Individual Sample ID	Laboratory ID	SDG	Collection Area	Total PCBs	
CF COMP 1	CF2012, 13, 14	20I1003-01RE1	20I1003	Reference	0.113	U
CF COMP 2	CF2011, 17, 18	20I1003-02RE1	20I1003	Reference	0.114	U
CF COMP 3	CF2007, 08, 19	20I1003-03RE1	20I1003	Reference	0.113	U
CF COMP 4	CF2009, 10, 29	20I1003-04RE1	20I1003	Reference	0.112	U
CF COMP 5	CF2031, 32, 33	20I1003-05RE1	20I1003	Reference	0.114	U
CF COMP 6	CF2015, 16, 28, 42	20I1003-06RE1	20I1003	Reference	0.109	U
CF COMP 7	CF2004, 05, 20	20I1003-07RE2	20I1003	Reference	0.111	U
CF COMP 7 FD	CF2004, 05, 20	B21F074-DUP1	20I1003	Reference	0.108	U
CF COMP 8	CF2034, 35, 41	20I1003-08RE1	20I1003	Reference	0.112	UJ
CF COMP 9	CF2001, 02, 23, 39	20I1003-09RE1	20I1003	Reference	0.113	U
CF COMP 9 FD	CF2001, 02, 23, 39	B21F078-DUP1	20I1003	Reference	0.108	U
CF COMP 10	CF2021, 22, 38, 03	20I1003-10RE1	20I1003	Reference	0.113	U
CF COMP 11	CF2006, 30, 45	20I1003-11RE1	20I1003	Reference	0.107	U
CF COMP 12	CF2046, 47 48, 56	20I1003-12RE1	20I1003	Reference	0.109	U
CF COMP 13	CF2049, 50, 51	20I1003-13RE1	20I1003	Reference	0.113	U
CF COMP 14	CF2027, 40, 55	20I1003-14RE1	20I1003	Reference	0.112	U
CF COMP 15	CF2052, 53, 57	20I1003-15RE1	20I1003	Reference	0.109	U
CF COMP 16	CF2025, 26, 54	20I1003-16RE1	20I1003	Reference	0.113	U
CF COMP 17	CF2036, 43, 79	20I2305-01RE1	20I2305	Reference	0.114	U
CF COMP 18	CF2080, 81, 82	20I2305-02RE1	20I2305	Reference	0.114	U
CF COMP 19	CF2083, 85, 87	20I2305-03RE1	20I2305	Reference	0.112	U
CF COMP 20	CF2058, 59	20I2305-04RE1	20I2305	Reference	0.114	U
CF COMP 21	CF1120, 21, 22	20I2305-05RE2	20I2305	Forebay	18.9	
CF COMP 21 FD	CF1120, 21, 22	B21F074-DUP2	20I2305	Forebay	20.3	
CF COMP 22	CF1117, 18, 19	20I2305-06RE2	20I2305	Forebay	34.2	
CF COMP 23	CF1102, 03, 07	20I2305-07RE2	20I2305	Forebay	24.9	
CF COMP 24	CF1084, 91, 92	20I2305-08RE1	20I2305	Forebay	0.299	
CF COMP 25	CF1160, 2062, 2068	20I2305-09RE1	20I2305	Forebay	6.09	
CF COMP 26	CF1143, 52, 53	20I2305-10RE1	20I2305	Forebay	0.862	
CF COMP 27	CF1128, 32, 36	20I2305-11RE1	20I2305	Forebay	9.00	
CF COMP 27 FD	CF1128, 32, 36	B21F075-DUP1	20I2305	Forebay	13.4	
CF COMP 28	CF1139, 40, 41, 42	20I2305-14RE1	20I2305	Forebay	29.8	
CF COMP 29	CF1069, 70, 71	20I2305-15RE1	20I2305	Forebay	2.28	
CF COMP 30	CF1074, 78, 79	20I2305-16RE1	20I2305	Forebay	3.04	
CF COMP 31	CF1061, 62, 63	20I2305-17RE1	20I2305	Forebay	0.114	U
CF COMP 32	CF1064, 65, 66	20I2305-18RE1	20I2305	Forebay	0.504	
CF COMP 33	CF1027, 28, 29	20I2305-19RE1	20I2305	Forebay	0.114	U
CF COMP 34	CF1031, 33, 34	20I2305-20RE1	20I2305	Forebay	0.109	U
CF COMP 35	CF1042, 43, 45	20I2305-21RE1	20I2305	Forebay	0.109	U
CF COMP 36	CF1022, 23, 24	20I2305-22RE1	20I2305	Forebay	0.112	U
CF COMP 37	CF1048, 49, 50	20I2305-23RE1	20I2305	Forebay	0.114	U
CF COMP 38	CF1016, 17, 20	20I2305-24RE1	20I2305	Forebay	0.114	U
CF COMP 39	CF1001, 02, 04	20I2305-25RE1	20I2305	Forebay	0.113	U
CF COMP 40	CF1051, 52	20I2305-26RE1	20I2305	Forebay	0.113	U

Notes:
SDG = Sample Delivery Group
ug/kg = micrograms per kilogram
Total PCBs are calculated as the sum of all detected congeners (or the maximum congener detection limit if all congeners are non-detect)
U = not detected
UJ = not detected; estimated value

Crayfish - PCB Congeners: Reference Collection Area

USACE Sample ID:		CF Comp 1		CF Comp 2		CF Comp 3		CF Comp 4		CF Comp 5		CF Comp 6		CF Comp 7		CF Comp 7 FD		CF Comp 8		CF Comp 9		CF Comp 9 FD	
Lab Sample ID:		20I1003-01RE1		20I1003-02RE1		20I1003-03RE1		20I1003-04RE1		20I1003-05RE1		20I1003-06RE1		20I1003-07RE2		B21F074-DUP1		20I1003-08RE1		20I1003-09RE1		B21F078-DUP1	
Lab Sample Delivery Group:		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	ug/kg	0.113	U	0.114	U	0.113	U	0.112	U	0.114	U	0.109	U	0.111	U	0.108	U	0.112	UJ	0.113	U	0.108	U
PCB 10	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 103	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 104	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 105/132	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 107	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 110	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 114	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 115/87	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 117/81	ug/kg	0.076	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 118	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 119/142/134	ug/kg	0.113	U	0.038	U	0.113	U	0.112	U	0.114	U	0.109	U	0.111	U	0.108	U	0.112	UJ	0.113	UJ	0.108	U
PCB 12	ug/kg	0.038	U	0.114	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 121	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 124/144	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 126	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 128	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 129	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 13	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 130	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 135	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 136	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 137	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 138/163/164	ug/kg	0.113	U	0.038	U	0.113	U	0.112	U	0.114	U	0.109	U	0.111	U	0.108	U	0.112	UJ	0.113	UJ	0.108	U
PCB 14	ug/kg	0.038	U	0.114	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 141/179	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.037	U	0.036	U	0.074	UJ	0.075	UJ	0.072	U
PCB 146	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 147	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 149/123	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.037	U	0.036	U	0.074	UJ	0.075	UJ	0.072	U
PCB 15/17	ug/kg	0.076	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 151	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 153/131	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 154	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 155	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 156	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 157/201	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 158	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 16	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 165	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 167	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 170/203	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 171/172	ug/kg	0.076	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U

Crayfish - PCB Congeners: Reference Collection Area

USACE Sample ID:		CF Comp 1		CF Comp 2		CF Comp 3		CF Comp 4		CF Comp 5		CF Comp 6		CF Comp 7		CF Comp 7 FD		CF Comp 8		CF Comp 9		CF Comp 9 FD	
Lab Sample ID:		20I1003-01RE1		20I1003-02RE1		20I1003-03RE1		20I1003-04RE1		20I1003-05RE1		20I1003-06RE1		20I1003-07RE2		B21F074-DUP1		20I1003-08RE1		20I1003-09RE1		B21F078-DUP1	
Lab Sample Delivery Group:		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 173	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 174/202	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 175	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 176	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 177	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 178/163/164	ug/kg	0.113	U	0.038	U	0.113	U	0.112	U	0.114	U	0.109	U	0.111	U	0.108	U	0.112	UJ	0.113	UJ	0.108	U
PCB 18	ug/kg	0.038	U	0.114	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 180	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 183	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 184/122	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.036	U
PCB 185	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 187	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 189	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 19	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 190	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 191	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 192	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 193	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 194	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 195	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 196	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 197	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 199	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 20	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 200	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 205	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 206	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 207	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 208	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 209	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 22	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 24/27	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 25/54	ug/kg	0.076	U	0.076	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 26	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 28/31	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 29	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 32	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 33	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 34	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 35	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 37/59	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 4	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 40	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 42	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U

Crayfish - PCB Congeners: Reference Collection Area

USACE Sample ID:		CF Comp 1		CF Comp 2		CF Comp 3		CF Comp 4		CF Comp 5		CF Comp 6		CF Comp 7		CF Comp 7 FD		CF Comp 8		CF Comp 9		CF Comp 9 FD	
Lab Sample ID:		20I1003-01RE1		20I1003-02RE1		20I1003-03RE1		20I1003-04RE1		20I1003-05RE1		20I1003-06RE1		20I1003-07RE2		B21F074-DUP1		20I1003-08RE1		20I1003-09RE1		B21F078-DUP1	
Lab Sample Delivery Group:		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 44	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 45	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 46	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 47/49	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 48	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 5	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 51	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 52	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 53	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 56/60	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 6	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 63	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 64	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 66	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 67/41/100	ug/kg	0.113	U	0.038	U	0.113	U	0.112	U	0.114	U	0.109	U	0.111	U	0.108	U	0.112	UJ	0.113	UJ	0.108	U
PCB 69	ug/kg	0.038	U	0.114	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 7	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 70	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 71	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 73	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 74	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.074	U	0.072	U	0.037	UJ	0.038	UJ	0.036	U
PCB 75	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 77	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 78	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 8	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 82	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 83	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 84	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 85	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 9	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	U	0.036	U
PCB 90/101	ug/kg	0.076	U	0.038	U	0.075	U	0.075	U	0.076	U	0.073	U	0.074	U	0.072	U	0.074	UJ	0.075	UJ	0.072	U
PCB 91	ug/kg	0.038	U	0.076	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 92	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 93	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 95	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 97	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U
PCB 99	ug/kg	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.037	U	0.036	U	0.037	UJ	0.038	UJ	0.036	U

Notes:
Total PCBs are calculated as the sum of all detected congeners (or the maximum congener detection limit if all congeners are non-detect)
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
U = not detected
UJ = not detected; estimated value

Crayfish - PCB Congeners: Reference Collection Area

USACE Sample ID:		CF Comp 10		CF Comp 11		CF Comp 12		CF Comp 13		CF Comp 14		CF Comp 15		CF Comp 16		CF Comp 17		CF Comp 18		CF Comp 19		CF Comp 20	
Lab Sample ID:		20I1003-10RE1		20I1003-11RE1		20I1003-12RE1		20I1003-13RE1		20I1003-14RE1		20I1003-15RE1		20I1003-16RE1		20I2305-01RE1		20I2305-02RE1		20I2305-03RE1		20I2305-04RE1	
Lab Sample Delivery Group:		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I2305		20I2305		20I2305		20I2305	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	ug/kg	0.113	U	0.107	U	0.109	U	0.113	U	0.112	U	0.109	U	0.113	U	0.114	U	0.114	U	0.112	U	0.114	U
PCB 10	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 103	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 104	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 105/132	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 107	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 110	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 114	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 115/87	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 117/81	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 118	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 119/142/134	ug/kg	0.113	U	0.107	U	0.109	U	0.113	U	0.112	U	0.109	U	0.113	U	0.114	U	0.114	U	0.112	U	0.114	U
PCB 12	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 121	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 124/144	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 126	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 128	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 129	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 13	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 130	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 135	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 136	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 137	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 138/163/164	ug/kg	0.113	U	0.107	U	0.109	U	0.113	U	0.112	U	0.109	U	0.113	U	0.114	U	0.114	U	0.112	U	0.114	U
PCB 14	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 141/179	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 146	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 147	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 149/123	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 15/17	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 151	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 153/131	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 154	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 155	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 156	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 157/201	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 158	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 16	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 165	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 167	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 170/203	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 171/172	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U

Crayfish - PCB Congeners: Reference Collection Area

USACE Sample ID:		CF Comp 10		CF Comp 11		CF Comp 12		CF Comp 13		CF Comp 14		CF Comp 15		CF Comp 16		CF Comp 17		CF Comp 18		CF Comp 19		CF Comp 20	
Lab Sample ID:		20I1003-10RE1		20I1003-11RE1		20I1003-12RE1		20I1003-13RE1		20I1003-14RE1		20I1003-15RE1		20I1003-16RE1		20I2305-01RE1		20I2305-02RE1		20I2305-03RE1		20I2305-04RE1	
Lab Sample Delivery Group:		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I2305		20I2305		20I2305		20I2305	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 173	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 174/202	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 175	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 176	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 177	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 178/163/164	ug/kg	0.113	U	0.107	U	0.109	U	0.113	U	0.112	U	0.109	U	0.113	U	0.114	U	0.114	U	0.112	U	0.114	U
PCB 18	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 180	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 183	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 184/122	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 185	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 187	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 189	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 19	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 190	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 191	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 192	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 193	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 194	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 195	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 196	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 197	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 199	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 20	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 200	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 205	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 206	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 207	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 208	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 209	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 22	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 24/27	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 25/54	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 26	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 28/31	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 29	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 32	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 33	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 34	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 35	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 37/59	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 4	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 40	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 42	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U

Crayfish - PCB Congeners: Reference Collection Area

USACE Sample ID:		CF Comp 10		CF Comp 11		CF Comp 12		CF Comp 13		CF Comp 14		CF Comp 15		CF Comp 16		CF Comp 17		CF Comp 18		CF Comp 19		CF Comp 20	
Lab Sample ID:		20I1003-10RE1		20I1003-11RE1		20I1003-12RE1		20I1003-13RE1		20I1003-14RE1		20I1003-15RE1		20I1003-16RE1		20I2305-01RE1		20I2305-02RE1		20I2305-03RE1		20I2305-04RE1	
Lab Sample Delivery Group:		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I1003		20I2305		20I2305		20I2305		20I2305	
Collection Area:		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 44	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 45	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 46	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 47/49	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 48	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 5	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 51	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 52	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 53	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 56/60	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 6	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 63	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 64	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 66	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 67/41/100	ug/kg	0.113	U	0.107	U	0.109	U	0.113	U	0.112	U	0.109	U	0.113	U	0.114	U	0.114	U	0.112	U	0.114	U
PCB 69	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 7	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 70	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 71	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 73	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 74	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 75	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 77	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 78	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 8	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 82	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 83	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 84	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 85	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 9	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 90/101	ug/kg	0.075	U	0.071	U	0.073	U	0.075	U	0.075	U	0.072	U	0.075	U	0.076	U	0.076	U	0.075	U	0.076	U
PCB 91	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 92	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 93	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 95	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 97	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U
PCB 99	ug/kg	0.038	U	0.036	U	0.036	U	0.038	U	0.037	U	0.036	U	0.038	U	0.038	U	0.038	U	0.037	U	0.038	U

Notes:
Total PCBs are calculated as the sum of all detected congeners (or the maximum congener detection limit if all congeners are non-detect)
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
U = not detected
UJ = not detected; estimated value

Crayfish - PCB Congeners: Forebay Collection Area

USACE Sample ID:		CF Comp 21		CF Comp 21 FD		CF Comp 22		CF Comp 23		CF Comp 24		CF Comp 25		CF Comp 26		CF Comp 27		CF Comp 27 FD		CF Comp 28		CF Comp 29	
Lab Sample ID:		20I2305-05RE2		B21F074-DUP2		20I2305-06RE2		20I2305-07RE2		20I2305-08RE1		20I2305-09RE1		20I2305-10RE1		20I2305-11RE1		B21F075-DUP1		20I2305-14RE1		20I2305-15RE1	
Lab Sample Delivery Group:		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305	
Collection Area:		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	ug/kg	**18.9**		**20.3**		**34.2**		**24.9**		**0.299**		**6.09**		**0.862**		**9.00**		**13.4**		**29.8**		**2.28**	
PCB 10	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 103	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 104	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 105/132	ug/kg	0.076	U	0.071	U	**1.20**		**0.843**		0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	**2.55**		0.075	U
PCB 107	ug/kg	**0.662**		**0.74**		**1.17**		**0.786**		0.038	U	**0.109**	J	0.038	U	0.083	UJ	**0.27**		**0.652**		0.037	U
PCB 110	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 114	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U
PCB 115/87	ug/kg	0.076	U	0.071	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 117/81	ug/kg	0.076	U	0.071	U	**0.529**		0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 118	ug/kg	**5.60**		**6.1**		**11.4**		**7.48**		0.038	U	**2.68**		**0.411**		**2.50**	J	**3.7**		**7.27**		**1.76**	
PCB 119/142/134	ug/kg	**0.348**	J	**0.46**		**0.694**		**0.120**	J	0.113	U	0.109	U	0.113	U	0.217	UJ	**0.22**	J	**0.316**	J	0.112	U
PCB 12	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 121	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 124/144	ug/kg	0.076	U	0.071	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 126	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 128	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	**0.437**		0.037	U
PCB 129	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 13	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 130	ug/kg	0.038	U	0.036	U	**0.296**		0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	**0.237**		0.037	U
PCB 135	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 136	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U
PCB 137	ug/kg	**0.821**		**0.94**		**1.34**		**1.07**		0.038	U	**0.432**		0.038	U	**0.472**	J-	**0.73**		**0.701**		**0.100**	J
PCB 138/163/164	ug/kg	0.114	U	0.107	U	0.114	U	**2.53**		0.113	U	0.109	U	0.113	U	0.114	UJ	0.113	U	**3.93**		0.112	U
PCB 14	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 141/179	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 146	ug/kg	**0.758**		**0.86**		**1.57**		**0.995**		0.038	U	**0.315**		0.038	U	**0.322**	J-	**0.53**		**0.778**		**0.122**	J
PCB 147	ug/kg	0.038	U	0.036	U	0.038	U	**0.547**		0.038	U	**0.154**		0.038	U	**0.164**	J-	**0.20**		0.038	U	0.037	U
PCB 149/123	ug/kg	0.038	U	0.036	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 15/17	ug/kg	0.076	U	0.071	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 151	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 153/131	ug/kg	**3.30**		**3.1**		**3.31**		**3.55**		**0.240**		0.036	U	**0.267**		**1.79**	J-	**2.6**		**3.02**		0.037	U
PCB 154	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 155	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 156	ug/kg	**2.20**		**2.1**		**2.48**		**2.15**		0.038	U	**0.926**		0.038	U	**1.73**	J-	**2.1**		**1.48**		**0.300**	
PCB 157/201	ug/kg	0.076	U	0.071	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 158	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	**0.337**		0.037	U
PCB 16	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 165	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 167	ug/kg	**0.746**		**0.84**		**1.15**		**0.809**		0.038	U	**0.394**		0.038	U	**0.507**	J-	**0.89**		**0.535**		0.037	U
PCB 170/203	ug/kg	**0.312**		**0.35**		**0.425**		**0.479**		0.075	U	**0.165**	J	0.076	U	**0.211**	J-	**0.43**		**0.464**		0.075	U
PCB 171/172	ug/kg	0.076	U	0.071	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 173	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 174/202	ug/kg	0.076	U	0.071	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 175	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 176	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U

Crayfish - PCB Congeners: Forebay Collection Area

USACE Sample ID:		CF Comp 21		CF Comp 21 FD		CF Comp 22		CF Comp 23		CF Comp 24		CF Comp 25		CF Comp 26		CF Comp 27		CF Comp 27 FD		CF Comp 28		CF Comp 29	
Lab Sample ID:		20I2305-05RE2		B21F074-DUP2		20I2305-06RE2		20I2305-07RE2		20I2305-08RE1		20I2305-09RE1		20I2305-10RE1		20I2305-11RE1		B21F075-DUP1		20I2305-14RE1		20I2305-15RE1	
Lab Sample Delivery Group:		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305	
Collection Area:		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 177	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 178/163/164	ug/kg	**1.81**		**2.1**		**3.00**		0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 18	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 180	ug/kg	**1.41**		**1.5**		**1.77**		**1.47**		0.038	U	**0.910**		**0.184**		**0.825**	J-	**1.4**		**1.24**		0.037	U
PCB 183	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 184/122	ug/kg	0.076	U	0.071	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 185	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 187	ug/kg	**0.452**		**0.48**		**0.712**		**0.410**		0.038	U	0.036	U	0.038	U	**0.180**	J-	**0.33**		**0.405**		0.037	U
PCB 189	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 19	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 190	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 191	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 192	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 193	ug/kg	**0.082**	J	**0.10**	J	0.038	U	0.038	U	**0.059**	J	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 194	ug/kg	**0.256**		**0.44**		0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 195	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 196	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 197	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 199	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 20	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 200	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 205	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 206	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U
PCB 207	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 208	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 209	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U
PCB 22	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 24/27	ug/kg	0.076	U	0.071	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 25/54	ug/kg	0.076	U	0.071	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 26	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 28/31	ug/kg	0.076	U	0.071	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 29	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 32	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 33	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 34	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 35	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 37/59	ug/kg	0.076	U	0.071	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 4	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 40	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 42	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 44	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 45	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 46	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 47/49	ug/kg	0.076	U	0.071	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 48	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 5	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U

Crayfish - PCB Congeners: Forebay Collection Area

USACE Sample ID:		CF Comp 21		CF Comp 21 FD		CF Comp 22		CF Comp 23		CF Comp 24		CF Comp 25		CF Comp 26		CF Comp 27		CF Comp 27 FD		CF Comp 28		CF Comp 29	
Lab Sample ID:		20I2305-05RE2		B21F074-DUP2		20I2305-06RE2		20I2305-07RE2		20I2305-08RE1		20I2305-09RE1		20I2305-10RE1		20I2305-11RE1		B21F075-DUP1		20I2305-14RE1		20I2305-15RE1	
Lab Sample Delivery Group:		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305	
Collection Area:		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 51	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 52	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 53	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 56/60	ug/kg	0.076	U	0.071	U	0.076	U	0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	0.076	U	0.075	U
PCB 6	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 63	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 64	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 66	ug/kg	0.038	U	**0.080**	J	**0.906**		**0.475**		0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	**0.711**		0.037	U
PCB 67/41/100	ug/kg	0.114	U	0.107	U	0.114	U	0.114	U	0.113	U	0.109	U	0.113	U	0.114	UJ	0.113	U	0.114	U	0.112	U
PCB 69	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 7	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 70	ug/kg	0.038	U	0.036	U	**0.060**	J	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	**0.344**		0.037	U
PCB 71	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 73	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 74	ug/kg	**0.109**	J	**0.12**	J	**0.536**		**0.447**		0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	**0.514**		0.037	U
PCB 75	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 77	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 78	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.038	U	0.037	U
PCB 8	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 82	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 83	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 84	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 85	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	**0.380**		0.037	U
PCB 9	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 90/101	ug/kg	0.076	U	0.071	U	**0.518**		0.076	U	0.075	U	0.073	U	0.076	U	0.076	UJ	0.075	U	**0.658**		0.075	U
PCB 91	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 92	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 93	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 95	ug/kg	0.038	U	0.036	U	0.038	U	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	0.038	U	0.037	U
PCB 97	ug/kg	0.038	U	0.036	U	**0.059**	J	0.038	U	0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	**0.876**		0.037	U
PCB 99	ug/kg	0.038	U	0.036	U	**1.10**		**0.754**		0.038	U	0.036	U	0.038	U	0.038	UJ	0.038	U	**1.97**		0.037	U

Notes:
Total PCBs are calculated as the sum of all detected congeners (or the maximum congener detection limit if all congeners are non-detect)
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
Bold result = analtyte detected
J = estimated value
J- = estimated value that may be biased low
U = not detected
UJ = not detected; estimated value

Crayfish - PCB Congeners: Forebay Collection Area

USACE Sample ID:		CF Comp 30		CF Comp 31		CF Comp 32		CF Comp 33		CF Comp 34		CF Comp 35		CF Comp 36		CF Comp 37		CF Comp 38		CF Comp 39		CF Comp 40	
Lab Sample ID:		20I2305-16RE1		20I2305-17RE1		20I2305-18RE1		20I2305-19RE1		20I2305-20RE1		20I2305-21RE1		20I2305-22RE1		20I2305-23RE1		20I2305-24RE1		20I2305-25RE1		20I2305-26RE1	
Lab Sample Delivery Group:		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305	
Collection Area:		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Total PCBs	ug/kg	**3.04**		0.114	U	**0.504**		0.114	U	0.109	U	0.109	U	0.112	U	0.114	U	0.114	U	0.113	U	0.113	U
PCB 10	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 103	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 104	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 105/132	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 107	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 110	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 114	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 115/87	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 117/81	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 118	ug/kg	**0.977**		0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 119/142/134	ug/kg	0.114	U	0.114	U	0.112	U	0.114	U	0.109	U	0.109	U	0.112	U	0.114	U	0.114	U	0.113	U	0.113	U
PCB 12	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 121	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 124/144	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 126	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 128	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 129	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 13	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 130	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 135	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 136	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 137	ug/kg	**0.177**		0.038	U	**0.062**	J	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 138/163/164	ug/kg	0.114	U	0.114	U	0.112	U	0.114	U	0.109	U	0.109	U	0.112	U	0.114	U	0.114	U	0.113	U	0.113	U
PCB 14	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 141/179	ug/kg	0.038	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 146	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 147	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 149/123	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 15/17	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 151	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 153/131	ug/kg	**0.728**		0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 154	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 155	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 156	ug/kg	0.496	U	0.038	U	**0.206**		0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 157/201	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 158	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 16	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 165	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 167	ug/kg	0.038	U	0.038	U	**0.103**	J	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 170/203	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 171/172	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 173	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 174/202	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 175	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 176	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U

Crayfish - PCB Congeners: Forebay Collection Area

USACE Sample ID:		CF Comp 30		CF Comp 31		CF Comp 32		CF Comp 33		CF Comp 34		CF Comp 35		CF Comp 36		CF Comp 37		CF Comp 38		CF Comp 39		CF Comp 40	
Lab Sample ID:		20I2305-16RE1		20I2305-17RE1		20I2305-18RE1		20I2305-19RE1		20I2305-20RE1		20I2305-21RE1		20I2305-22RE1		20I2305-23RE1		20I2305-24RE1		20I2305-25RE1		20I2305-26RE1	
Lab Sample Delivery Group:		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305	
Collection Area:		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 177	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 178/163/164	ug/kg	0.076	U	0.114	U	0.112	U	0.114	U	0.109	U	0.109	U	0.112	U	0.114	U	0.114	U	0.113	U	0.113	U
PCB 18	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 180	ug/kg	**0.618**		0.038	U	**0.133**		0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 183	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 184/122	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 185	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 187	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 189	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 19	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 190	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 191	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 192	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 193	ug/kg	**0.044**	J	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 194	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 195	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 196	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 197	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 199	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 20	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 200	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 205	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 206	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 207	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 208	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 209	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 22	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 24/27	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 25/54	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 26	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 28/31	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 29	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 32	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 33	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 34	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 35	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 37/59	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 4	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 40	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 42	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 44	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 45	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 46	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 47/49	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 48	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 5	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U

Crayfish - PCB Congeners: Forebay Collection Area

USACE Sample ID:		CF Comp 30		CF Comp 31		CF Comp 32		CF Comp 33		CF Comp 34		CF Comp 35		CF Comp 36		CF Comp 37		CF Comp 38		CF Comp 39		CF Comp 40	
Lab Sample ID:		20I2305-16RE1		20I2305-17RE1		20I2305-18RE1		20I2305-19RE1		20I2305-20RE1		20I2305-21RE1		20I2305-22RE1		20I2305-23RE1		20I2305-24RE1		20I2305-25RE1		20I2305-26RE1	
Lab Sample Delivery Group:		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305		20I2305	
Collection Area:		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay		Forebay	
Analyte	Unit	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
PCB 51	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 52	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 53	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 56/60	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 6	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 63	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 64	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 66	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 67/41/100	ug/kg	0.114	U	0.114	U	0.112	U	0.114	U	0.109	U	0.109	U	0.112	U	0.114	U	0.114	U	0.113	U	0.113	U
PCB 69	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 7	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 70	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 71	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 73	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 74	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 75	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 77	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 78	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 8	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 82	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 83	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 84	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 85	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 9	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 90/101	ug/kg	0.076	U	0.076	U	0.075	U	0.076	U	0.072	U	0.072	U	0.074	U	0.076	U	0.076	U	0.075	U	0.075	U
PCB 91	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 92	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 93	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 95	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 97	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U
PCB 99	ug/kg	0.038	U	0.038	U	0.037	U	0.038	U	0.036	U	0.036	U	0.037	U	0.038	U	0.038	U	0.038	U	0.038	U

Notes:
Total PCBs are calculated as the sum of all detected congeners (or the maximum congener detection limit if all congeners are non-detect)
ug/kg = micrograms per kilogram
2,4,5,6 Tetrachloro-m-xylene and PCB 198 are surrogate spikes and are not included in the results.
Bold result = analtyte detected
J = estimated value
J- = estimated value that may be biased low
U = not detected
UJ = not detected; estimated value

Appendix E:

Level 2 Data Reports for all ERDC data

(available as separate files)

Appendix F:

Level 4 Data Reports for all ERDC data

(available as separate files)

Appendix G:

Data Validation Reports and Data Usability Assessments for all ERDC data

DATA VALIDATION REPORT and DATA USABILITY ASSESSMENT

PROJECT: Tissue, Bradford Island, Cascade Locks, OR
LABORATORY: USACE Engineer Research and Development Center (ERDC)
MATRIX: Clam Tissue
SAMPLING DATE(S): 21 September 2020 – 17 November 2020
SAMPLING EVENT(s): River Tissue Sampling 2020
REPORT DATE: 4 August 2022

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1. Introduction

The following is a data validation report by the USACE project chemist including data usability assessment by the project delivery team for clam samples collected from September to October 2020 from the River Operable Unit, Bradford Island, in Cascade Locks, OR. The sample data groups (SDG), analytes measured, methods used, and the laboratory information is provided below. Due to limitations of the laboratory LIMS database, some laboratory batches were split into different SDGs.

Sample Data Group (SDG)	No. of Samples	Matrix	Analyte(s)	Method	Validation Level
20J0101	12	Clam Tissue	Mercury	EPA 7474	Stage 2A (S2AVM)
			Organochlorine Pesticides	EPA 8081	
			Lipids	Lipid Content by Colorimetric Determination	
20J0102	10	Clam Tissue	PCB Congeners	Method 1668C	Stage 2A (S2AVM)
20J0103	10	Clam Tissue	PCB Congeners	Method 1668C	Stage 2A (S2AVM)
20J0104	10	Clam Tissue	PCB Congeners	Method 1668C	Stage 2A (S2AVM)
20J0105	10	Clam Tissue	PCB Congeners	Method 1668C	Stage 2A (S2AVM)
20J0106	6	Clam Tissue	PCB Congeners	Method 1668C	Stage 2A (S2AVM)
20K3001	10	Clam Tissue	Mercury	EPA 7474	Stage 2A (S2AVM)
			Organochlorine Pesticides	EPA 8081	
			PCB Congeners	Method 1668C	
			Lipids	Lipid Content by Colorimetric Determination	
20K3002	10	Clam Tissue	PCB Congeners	Method 1668C	Stage 2A (S2AVM)
20K3003	10	Clam Tissue	PCB Congeners	Method 1668C	Stage 2A (S2AVM)
20K3004	8	Clam Tissue	PCB Congeners	Method 1668C	Stage 2A (S2AVM)
20K3005	10	Clam Tissue	Mercury	EPA 7474	Stage 2A (S2AVM)
			Organochlorine Pesticides	EPA 8081	
			Lipids	Lipid Content by Colorimetric Determination	
20K3006	10	Clam Tissue	Mercury	EPA 7474	Stage 2A (S2AVM)
			Organochlorine Pesticides	EPA 8081	
			PCB Congeners	Method 1668C	
			Lipids	Lipid Content by Colorimetric Determination	
20K3007	10	Clam Tissue	Mercury	EPA 7474	

			Organochlorine Pesticides	EPA 8081	Stage 2A (S2AVM)
			PCB Congeners	Method 1668C	
			Lipids	Lipid Content by Colorimetric Determination	

Sample analyses were evaluated to level Stage 2A data validation. Stage 2A validation of the laboratory analytical data package consists of verification and validation based on completeness and compliance checks of sample receipt conditions and sample-related QC results.

Analytical results are qualified based on the definitions and use of qualifying flags in the following resources. Some data may be qualified using the reviewer's professional judgment. The conclusions presented herein are based on the information available for the review.

- Department of Defense (DoD) Quality Systems Manual for Environmental Laboratories, Version 5.4 (DoD, 2021a)
- DoD Data Validation Guidelines (DoD 2019, 2021b)
- United States Environmental Protection Agency (USEPA) Guidance for Labeling Externally Validated Data for Superfund Use (USEPA, 2009)
- USEPA National Functional Guidelines (USEPA, 2020a-c)

Definitions for limits and flags are given in Table 1. All detected concentrations less than the Limit of Quantitation (LOQ) are reported at their detected value but flagged J for estimated. Non-detects are reported at the Limit of Detection (LOD) and flagged U for undetected.

2. Mercury Data Review, AFS, Method 7474

2.1 Stage 1 Review

Reviewed Item	Determination	Requirements/Comments
Sample Custody	SATISFACTORY	All samples received under proper chain of custody. • Sampled between: 9/21/2020 – 9/25/20 (mobilization 1: 20J0101, 20J0102, 20J0103, 20J0104, 20J0105, 20J0106) and 11/9/20 – 11/17/20 (mobilization 2: 20K3001, 20K3002, 20K3003, 20K3004, 20K3005, 20K3006, 20K3007) • Relinquished at FedEx: 9/30/20 (mobilization 1), 11/17/20 (mobilization 2) • Arrived at ERDC: 10/01/20 (mobilization 1), 11/18/2020 (mobilization 2)
Temperature	SATISFACTORY	Temperature minimum requirement 2 – 6 °C Temperature at arrival: -16 (mobilization 1); -2.9 °C (mobilization 2). Samples were packed on dry ice immediately after sampling.
Holding Time	SATISFACTORY	Holding time for solid samples is 28 days. A longer holding time may be appropriate if it can be demonstrated that the reported analyte concentrations are not adversely affected by preservation, storage and analyses performed outside the recommended holding times (SW-836 Chapter 3). • Samples were shipped on dry ice and stored frozen at -20 °C ± 3 °C the laboratory until preparation and between preparation and analysis. • 20J0101 sampled 9/21/2020 – 9/25/20, prepared 12/8/20, analyzed 12/9/20

		• 20K3001, 20K3005, 20K3006, 20K3007 sampled 11/9/20 – 11/17/20, prepared 12/8/20, analyzed 12/9/20, with exceptions below • 20K3001-06RE2 (B1-12NOV2020-G1-2), 20K3006-04RE2 (REF-16NOV2020-WA2-1), and 20K3006-07RE2 (REF-16NOV2020-WA3-2) prepared 7/19/2021, analyzed 7/20/2021

2.2 Stage 2a Review

Reviewed Item	Determination	Requirements/Comments
Method Blank (MB)	SATISFACTORY	• Perform one per preparatory batch. • The absolute values of all analytes must be < ½ LOQ or < 1/10th the amount measured in any sample or 1/10th the regulatory limit, whichever is greater.
Laboratory Control Sample (LCS), LCS Duplicate (LCSD), and Relative Percent Difference (RPD)	SATISFACTORY	• Perform one per preparatory batch. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits • LCSD/RPD not necessary by Table B-7.
Matrix Spike (MS), Matrix Spike Duplicate (MSD), and Relative Percent Difference (RPD)	SATISFACTORY	• Perform one per preparatory batch. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits • Dilution test and post digestion spike are required if MS or MSD fails.
Field Duplicates (FD)	SATISFACTORY	• RPD of all analytes (between sample and FD) specified by project limits: ≤ 50% • Were FDs collected? (Y/N): Y • B20K074-DUP1 from 20J0101-10/BI-25SEP20-DU10-COMP (not used due to reanalysis) • B20L014-DUP5 from 20J0101-10RE1/BI-25SEP20-DU10-COMP • B20L014-DUP1 from 20K3001-02/B1-12NOV2020-SO-2 • B20L014-DUP2 from 20K3005-10/B1-10NOV2020-I-COMP • B20L014-DUP3 from 20K3006-09/REF-17NOV2020-WA5-2 • B20L014-DUP4 from 20K3007-05/REF-17NOV2020-WA8-2

2.3 Qualification Summary Table

SDG	Sample Affected	Analyte	Flag	Notes
20K3001, 20K3006	20K3001-06RE2 (B1-12NOV2020-G1-2), 20K3006-04RE2 (REF-16NOV2020-WA2-1), and 20K3006-07RE2 (REF-16NOV2020-WA3-2)	Mercury	None	Use "RE2" results for the indicated samples; the reanalysis was performed due to LCS low recoveries in the original analysis.

3. Organochlorine Pesticides Data Review, GC/MS, Method 8081B

3.1 Stage 1 Review

Reviewed Item	Determination	Requirements/Comments
Sample Custody	SATISFACTORY	All samples received under proper chain of custody. • Sampled between: 9/21/2020 – 9/25/20 (mobilization 1: 20J0101, 20J0102, 20J0103, 20J0104, 20J0105, 20J0106) and 11/9/20 – 11/17/20 (mobilization 2: 20K3001, 20K3002, 20K3003, 20K3004, 20K3005, 20K3006, 20K3007) • Relinquished at FedEx: 9/30/20 (mobilization 1), 11/17/20 (mobilization 2) • Arrived at ERDC: 10/01/20 (mobilization 1), 11/18/2020 (mobilization 2)
Temperature	SATISFACTORY	Temperature minimum requirement 2 – 6 °C • Temperature at arrival: -16 (mobilization 1); -2.9 °C (mobilization 2). Samples were packed on dry ice immediately after sampling.

Reviewed Item	Determination	Requirements/Comments
Holding Time	SATISFACTORY	Extraction holding time for solid samples is 14 days, and analysis holding time for extracts is 40 days. A longer holding time may be appropriate if it can be demonstrated that the reported analyte concentrations are not adversely affected by preservation, storage and analyses performed outside the recommended holding times (SW-836 Chapter 4). • Samples were shipped on dry ice and stored frozen at -20 °C ± 3 °C the laboratory until preparation and between preparation and analysis. • 20J0101: Sampled 9/21/20 – 9/25/20, prepared 1/28/21, analyzed 2/6/21. • 20K3001: Sampled 11/9/20 – 11/12/20, prepared 3/4/21, analyzed 3/25/21. Re-prepared 7/16/21 and reanalyzed 7/17/21 in order to report some analytes for which the LCS had failed in the original run. • 20K3005: Sampled 11/9/20 – 11/12/20, prepared 1/28/21, analyzed 2/6/21 • 20K3006: Sampled 11/16/20 – 11/17/20, prepared 3/4/21, analyzed 3/23/21 – 3/29/21. Re-prepared 7/16/21 and reanalyzed 7/17/21 in order to report some analytes for which the LCS had failed in the original run. • 20K3007: Sampled 11/17/20, prepared 3/4/21, analyzed 3/29/21 – 3/30/21. Re-prepared 7/16/21 and reanalyzed 7/17/21 in order to report some analytes for which the LCS had failed in the original run.

3.2 Stage 2a Review

Reviewed Item	Determination	Requirements/Comments
Method Blank (MB)	SATISFACTORY	• Perform one per preparatory batch. • No analytes detected > ½ LOQ or > 1/10th the amount measured in any sample or 1/10th the regulatory limit, whichever is greater. • Common contaminants must not be detected > LOQ.
Laboratory Control Sample (LCS)	**See Qualification Summary Table**	• Perform one per preparatory batch. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits • LCSD/RPD not necessary by Table B-1.
Matrix Spike (MS), Matrix Spike Duplicate (MSD), and Relative Percent Difference (RPD)	**See Qualification Summary Table**	• Perform one per preparatory batch. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits

Reviewed Item	Determination	Requirements/Comments
Surrogate Spike	**See Qualification Summary Table**	• Perform for all field and QC samples. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan.
Field Duplicates (FD)	**See Qualification Summary Table**	• RPD of all analytes (between sample and FD) specified by project limits: ≤ 50% • Were FDs collected? (Y/N): Y • B21B009-DUP1 from 20J0101-10/BI-25SEP20-DU10-COMP • B21C034-DUP1 from 20K3001-06/B1-12NOV2020-G1-2 (not used due to reanalysis) • B21F161-DUP3 from 20K3001-06RE1/B1-12NOV2020-G1-2 • B21C034-DUP2 from 20K3001-09/B1-12NOV2020-OR-1 (reanalysis for failing LCS was not performed for this duplicate) • B21B009-DUP2 from 20K3005-10/B1-10NOV2020-I-COMP • B21C034-DUP3 from 20K3006-04/REF-16NOV2020-WA2-1 (reanalysis for failing LCS was not performed for this duplicate) • B21C034-DUP4 from 20K3006-07/REF-16NOV2020-WA3-2 (not used due to reanalysis) • B21F161-DUP2 from 20K3006-07RE1/REF-16NOV2020-WA3-2 • B21C034-DUP5 from 20K3007-05/REF-17NOV2020-WA8-2 (not used due to reanalysis) • B21F161-DUP1 from 20K3007-05RE1/REF-17NOV2020-WA8-2

3.3 Qualification Summary Table

SDG	Sample Affected	Analyte	Flag	Notes
20J0101	BI-22SEP20-REF1-COMP (20J0101-11)	2,4´-DDD 4,4´-DDD 4,4´-DDT 4,4'-DDE Methoxychlor	J+ (detects); no flag (nondetects)	B21B009-MS1: MS out of control high.
20J0101	BI-25SEP20-DU10-COMP (20J0101-10)	All analytes	J+ (detects); no flag (nondetects)	Surrogate PCB 198 recovered out of control high. All results are nondetect.
20K3005	B1-9NOV2020-G-COMP (20K3005-09)	2,4´-DDD 4,4'-DDE Methoxychlor	J+ (detects); no flag (nondetects)	B21B009-MS2: MS out of control high.
20K3006, 20K3007	20K3006-01RE1to 20K3006-10RE1, and 20K3007-01RE1 to 20K3007-10RE1	2,4´-DDD 2,4´-DDE alpha-Chlordane Dieldrin Endrin aldehyde gamma-BHC (Lindane) gamma-Chlordane	No flag	Use "RE1" for analytes shown in "RE1." Laboratory provided reanalysis for some samples and analytes affected by surrogate recoveries in the original analysis.

SDG	Sample Affected	Analyte	Flag	Notes
20K3001, 20K3006, 20K3007	20K3001, 20K3006, 20K3007 (all samples)	2,4´-DDD 2,4´-DDE alpha-Chlordane Dieldrin Endrin aldehyde gamma-BHC (Lindane) gamma-Chlordane	No flags; "RE1" data unaffected by LCS failures was reported.	Samples were reanalyzed for these analytes due to LCS failures in the original run. Use "RE1" data for these analytes. B21F161-BS1 and B21F161-BS2 are within control limits for these analytes and were analyzed 7/16/21. LCS failures occurred in B21C034-BS1/ BSD1 and B21C034-BS2/GSD2, analyzed 3/24/21. The % recovery of some analytes was out of control limits high or low. Some RPDs were also out of control limits high; however, a LCSD is not required according to DoD QSM Table B-1. Specific details of these LCS failures are given in lines below in this table.
20K3001, 20K3006, 20K3007	20K3001, 20K3006, 20K3007 (all samples)	2,4´-DDD 2,4´-DDE Dieldrin gamma-BHC (Lindane) gamma-Chlordane	No flags; "RE1" data unaffected by LCS failures was reported (see previous line in this table). Flags would have been: J- (detects); X (nondetects – evaluate for R or UJ during DUA.)	B21C034-BS1: LCS out of control low compared to laboratory and DoD QSM limits. Analyzed 3/24/21. 2,4´-DDD: 49.6% recovery, lab limits 50-125%, DoD QSM limits 74-130%. 2,4´-DDE: 45.8% recovery, lab limits 50-125%, DoD QSM limits 64-136%. Dieldrin: 48.8% recovery, lab limits 50-125%, DoD QSM limits 56-136%. Endrin aldehyde: 39.5% recovery, lab limits 40-110%, DoD QSM limits 35-137% (passing, not included). gamma-BHC (Lindane): 39.0% recovery, lab limits 45-125%, DoD QSM limits 49-135%. gamma-Chlordane: 48.3% recovery, lab limits 50-125%, DoD QSM limits 53-135%. Samples were reanalyzed for these analytes due to LCS low failures in the original run. Use "RE1" data for these analytes (see previous line in this table).
20K3001, 20K3006, 20K3007	20K3001, 20K3006, 20K3007 (all samples)	alpha-Chlordane	No flags; "RE1" data unaffected by LCS failures was reported (see previous line in this table). Flags would have been: J+ (detects); no flags (nondetects.)	B21C034-BSD1 and B21C034-BS2: LCS out of control high. Analyzed 3/24/21. Samples were reanalyzed for these analytes due to LCS low failures in the original run. Use "RE1" data for these analytes (see previous line in this table).

SDG	Sample Affected	Analyte	Flag	Notes
20K3001, 20K3006, 20K3007	20K3001, 20K3006, 20K3007 (all samples)	EndoSulfan I	J+ (detects); no flag (nondetects)	B21C034-BSD1: LCS out of control high. Analyzed 3/24/21. Results are all nondetect.
20K3001, 20K3006, 20K3007	20K3001, 20K3006, 20K3007 (all samples)	4,4'-DDE Endrin aldehyde gamma-BHC (Lindane)	No flag	B21C034-BSD1: LCS RPD out of control. Analyzed 3/24/21. An LCSD is not required according to DoD QSM Table B-1; no flags were applied.
20K3001, 20K3006, 20K3007	20K3001, 20K3006, 20K3007 (all samples)	delta-BHC	J+ (detects); no flag (nondetects)	B21C034-BS2/BDS2: LCS/LCSD/RPD out of control high. Analyzed 3/24/21. Results are all nondetect.
20K3001, 20K3006, 20K3007	20K3001, 20K3006, 20K3007 (all samples)	Endrin aldehyde	No flags; "RE1" data unaffected by LCS failures was reported (see previous line in this table). Flags would have been: J- (detects); X (nondetects – evaluate for R or UJ during DUA.)	B21C034-BS2: LCS out of control low; RPD out of control. Analyzed 3/24/21. Samples were reanalyzed for these analytes due to LCS low failures in the original run. Use "RE1" data for these analytes (see previous line in this table).
20K3001	B1-12NOV2020-G1-2 (20K3001-06)	4,4´-DDD	No flag	B21C034-DUP1: Duplicate RPD above lab limit of 30% but within project limit (≤ 50%).
20K3001	B1-12NOV2020-G1-2 (20K3001-06)	4,4´-DDT 4,4'-DDE	No flag	B21C034-DUP1: Duplicate RPD above project limit (≤ 50%).

SDG	Sample Affected	Analyte	Flag	Notes
20K3001	B1-12NOV2020-OR-1 FD (20K3001-09)	2,4´-DDD 2,4´-DDE Dieldrin gamma-BHC (Lindane) gamma-Chlordane	J- (detects); UJ (nondetects) (All results were nondetects.)	For duplicate B21C034-DUP2: The associated LCS B21C034-BS1 was out of control low compared to laboratory and DoD QSM limits for the selected analytes listed in this row. Reanalysis was performed on the primary sample but not on this duplicate. So for the duplicate, the original data, including analytes that had low-failing LCS, must be used. For a low-failing LCS, the DoD Data Validation Guidelines recommending flagging nondetects as X, exclusion of data recommended. During the data usability assessment, the project team then determines if X-flagged data should be rejected or retained with an appropriate qualifier. Primary (reanalyzed) and duplicate (not reanalyzed) sample results are all nondetect for these analytes. During the data usability assessment, the project team determined that nondetects would be flagged UJ, since only primary sample detected results are compared with the duplicate results in order to calculate RPD between the primary sample and duplicate.
20K3001	B1-12NOV2020-OR-1 FD (20K3001-09)	alpha-Chlordane	J+ (detects); no flag (nondetects)	For duplicate B21C034-DUP2: The associated LCS B21C034-BSD1 out of control high. Analyte is nondetect in primary and duplicate results.
20K3001	B1-12NOV2020-OR-1 FD (20K3001-09)	delta-BHC	J+ (detects); no flag (nondetects)	For duplicate B21C034-DUP2: The associated LCS/LCSD/RPD B21C034-BS2/BDS2 was out of control high. Analyte is nondetect in primary and duplicate results.

SDG	Sample Affected	Analyte	Flag	Notes
20K3001	B1-12NOV2020-OR-1 FD (20K3001-09)	Endrin Aldehyde	J- (detects); UJ (nondetects) (All results were nondetects.)	For duplicate B21C034-DUP2: The associated LCS B21C034-BS2 was out of control low and RPD was out of control for the selected analytes listed in this row. Reanalysis was performed on the primary sample but not on this duplicate. So for the duplicate, the original data, including analytes that had low-failing LCS, must be used. For a low-failing LCS, the DoD Data Validation Guidelines recommending flagging nondetects as X, exclusion of data recommended. During the data usability assessment, the project team then determines if X-flagged data should be rejected or retained with an appropriate qualifier. Primary and duplicate sample results are all nondetect for these analytes. During the data usability assessment, the project team determined that nondetects would be flagged UJ, since only primary sample detected results are compared with the duplicate results in order to calculate RPD between the primary sample and duplicate.
20K3001	B1-12NOV2020-SO-1 (20K3001-01)	4,4'-DDE	J (detects); UJ (nondetects)	B21C034-MS1: MS out of control high, MSD out of control low; RPD out of control.
20K3001	B1-12NOV2020-SO-1 (20K3001-01)	beta-BHC	J+ (detects); no flag (nondetects)	B21C034-MSD1: MSD out of control high, RPD out of control.
20K3001	B1-12NOV2020-SO-1 (20K3001-01)	2,4´-DDT 4,4´-DDD 4,4´-DDT alpha-BHC delta-BHC gamma-BHC (Lindane) gamma-Chlordane	J (detects); no flag (nondetects)	B21C034-MS1/MSD1: MS/MSD RPD out of control.

SDG	Sample Affected	Analyte	Flag	Notes
20K3006	REF-16NOV2020-WA2-1 FD (20K3006-04)	2,4´-DDD 2,4´-DDE Dieldrin gamma-BHC (Lindane) gamma-Chlordane	J- (detects); UJ (nondetects) (All results were nondetects.)	For duplicate B21C034-DUP3: The associated LCS B21C034-BS1 out of control low compared to laboratory and DoD QSM limits for the selected analytes listed in this row. Reanalysis was performed on the primary sample but not on this duplicate. So for the duplicate, the original data, including analytes that had low-failing LCS, must be used. For a low-failing LCS, the DoD Data Validation Guidelines recommending flagging nondetects as X, exclusion of data recommended. During the data usability assessment, the project team then determines if X-flagged data should be rejected or retained with an appropriate qualifier. Primary and duplicate sample results are all nondetect for these analytes. During the data usability assessment, the project team determined that nondetects would be flagged UJ, since only primary sample detected results are compared with the duplicate results in order to calculate RPD between the primary sample and duplicate.
20K3006	REF-16NOV2020-WA2-1 FD (20K3006-04)	alpha-Chlordane	J+ (detects); no flag (nondetects)	For duplicate B21C034-DUP3: The associated LCS B21C034-BSD1 out of control high (see previous line for full analysis of LCS issue). Analyte is nondetect in primary and duplicate results.
20K3006	REF-16NOV2020-WA2-1 FD (20K3006-04)	delta-BHC	J+ (detects); no flag (nondetects)	For duplicate B21C034-DUP3: The associated LCS/LCSD/RPD B21C034-BS2/BDS2 was out of control high (see previous line for full analysis of LCS issue). Analyte is nondetect in primary and duplicate results.

SDG	Sample Affected	Analyte	Flag	Notes
20K3006	REF-16NOV2020-WA2-1 FD (20K3006-04)	Endrin Aldehyde	J- (detects); UJ (nondetects) (All results were nondetects.)	For duplicate B21C034-DUP3: The associated LCS B21C034-BS2 out of control low; RPD out of control for the selected analytes listed in this row. Reanalysis was performed on the primary sample but not on this duplicate. So for the duplicate, the original data, including analytes that had low-failing LCS, must be used. For a low-failing LCS, the DoD Data Validation Guidelines recommending flagging nondetects as X, exclusion of data recommended. During the data usability assessment, the project team then determines if X-flagged data should be rejected or retained with an appropriate qualifier. Primary and duplicate sample results are all nondetect for these analytes. During the data usability assessment, the project team determined that nondetects would be flagged UJ, since only primary sample detected results are compared with the duplicate results in order to calculate RPD between the primary sample and duplicate.
20K3006	REF-17NOV2020-WA5-1 (20K3006-08)	beta-BHC	J+ (detects); no flag (nondetects)	B21C034-MS2: MS out of control high.
20K3006	REF-17NOV2020-WA5-1 (20K3006-08)	2,4´-DDT 4,4´-DDT 4,4'-DDE	J- (detects); UJ (nondetects)	B21C034-MS2/MSD2: MSD out of control low, RPD out of control for all but 4,4'-DDE.
20K3006	REF-17NOV2020-WA5-1 (20K3006-08)	2,4´-DDE alpha-BHC	J (detects); no flag (nondetects)	B21C034-MS2/MSD2: MS/MSD RPD out of control.
20K3006	REF-16NOV2020-WA3-1 (20K3006-06), REF-16NOV2020-WA3-2 (20K3006-07), REF-17NOV2020-WA5-1 (20K3006-08), REF-17NOV2020-WA5-2 (20K3006-09),	All analytes, except for those in the "RE1" reanalysis.	J- (detects); UJ (nondetects)	Surrogate 2,4,5,6-tetrachloro-m-xylene recovered out of control low but ≥ 10%.

4. Polychlorinated Biphenyl (PCB) Congeners Data Review, GC/MS, Method 1668C

4.1 Stage 1 Review

Reviewed Item	Determination	Requirements/Comments
Sample Custody	SATISFACTORY	All samples received under proper chain of custody. • Sampled between: 9/21/2020 – 9/25/20 (mobilization 1: 20J0101, 20J0102, 20J0103, 20J0104, 20J0105, 20J0106) and 11/9/20 – 11/17/20 (mobilization 2: 20K3001, 20K3002, 20K3003, 20K3004, 20K3005, 20K3006, 20K3007) • Relinquished at FedEx: 9/30/20 (mobilization 1), 11/17/20 (mobilization 2) • Arrived at ERDC: 10/01/20 (mobilization 1), 11/18/2020 (mobilization 2)
Temperature	SATISFACTORY	Temperature minimum requirement 2 – 6 °C • Temperature at arrival: -16 (mobilization 1); -2.9 °C (mobilization 2). Samples were packed on dry ice immediately after sampling.
Holding Time	SATISFACTORY	The EPA SW-846 does not specify a holding time for PCBs in solids due to their stability (SW-846 Chapter 4). The laboratory's typical holding time is one year for frozen samples and extracts. • Samples were shipped on dry ice and stored frozen at -20 °C ± 3 °C the laboratory until preparation and between preparation and analysis. • 20J0102: Sampled 9/21/20 – 9/23/20, prepared 2/8/21, analyzed 5/9/21 – 5/10/21 • 20J0103: Sampled 9/23/20, prepared 2/8/21, analyzed 5/8/21 and 5/10/21 • 20J0104: Sampled 9/24/20, prepared 2/8/21, analyzed 5/8/21 – 5/11/21 • 20J0105: Sampled 9/24/20 – 9/25/20, prepared 2/8/21, analyzed 5/5/21, 5/11/21, 5/12/21 • 20J0106: Sampled 9/25/20, prepared 2/8/21, analyzed 5/8/21 – 5/9/21 • 20K3001: Sampled 11/12/20, prepared 2/10/21, analyzed 5/15/21 – 5/16/21 • 20K3002: Sampled 11/9/20 – 11/11/20, prepared 2/10/21 and 4/5/21, analyzed 5/16/21 – 5/17/21. 20K3002-03 (B1-9NOV2020-H-01) was originally batched alone, reanalysis as 20K3002-03RE1 was prepared 1/14/2022, analyzed 1/22/2022. • 20K3003: Sampled 11/10/20 – 11/12/20, prepared 2/10/21, analyzed 5/5/21, 5/17/21 – 5/18/21 • 20K3004: Sampled 11/9/20 – 11/12/20, prepared 2/10/21, analyzed 5/5/21, 5/19/21 • 20K3006: Sampled 11/16/20 – 11/17/20, prepared 2/10/21, analyzed 5/13/21

Reviewed Item	Determination	Requirements/Comments
		• 20K3007: Sampled 11/16/20 – 11/17/20, prepared 2/10/21, analyzed 5/14/21 – 5/15/21
Dilution	INFORMATION ONLY	Some samples required dilution.

4.2 Stage 2a Review

Reviewed Item	Determination	Requirements/Comments
Method Blank (MB)	SATISFACTORY	• Perform one per preparatory batch. • No analytes detected > ½ LOQ or > 1/10th the amount measured in any sample or 1/10th the regulatory limit, whichever is greater. • Common contaminants must not be detected > LOQ.
Laboratory Control Sample (LCS)	SATISFACTORY	• Perform one per preparatory batch. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits
Matrix Spike (MS), Matrix Spike Duplicate (MSD), and Relative Percent Difference (RPD)	**See Qualification Summary Table**	• Perform one per preparatory batch. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits • RPD of all analytes ≤ 30% (between MS and MSD).
Surrogate Spike	SATISFACTORY	• Perform for all field and QC samples. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan.

Reviewed Item	Determination	Requirements/Comments
Field Duplicates (FD)	**See Qualification Summary Table**	• RPD of all analytes (between sample and FD) specified by project limits: ≤ 50% • Were FDs collected? (Y/N): Y • B21B012-DUP1 from 20J0102-10/BI-23SEP20-DU3-3FD • B21B016-DUP1 from 20J0103-04/BI-23SEP20-DU4-3 • B21B016-DUP2 from 20J0104-10/BI-24SEP20-DU8-4 • B21B015-DUP1 from 20J0105-03/BI-24SEP20-DU9-3 • B21B016-DUP3 from 20J0106-04/BI-25SEP20-REF2-2 • B21C026-DUP1 from 20K3001-06/B1-12NOV2020-G1-2 • B21C026-DUP2 from 20K3001-09/B1-12NOV2020-OR-1 • B21C027-DUP1 from 20K3002-09/B1-11NOV2020-B-2 • B21C028-DUP1 from 20K3003-05/B1-11NOV2020-D-2 • B21C028-DUP2 from 20K3003-08/B1-10NOV2020-E-2 • B21C029-DUP1 from 20K3004-05/B1-9NOV2020-G-4 • B21C024-DUP1 from 20K3006-04/REF-16NOV2020-WA2-1 • B21C024-DUP2 from 20K3006-07/REF-16NOV2020-WA3-2 • B21C025-DUP1 from 20K3007-05/REF-17NOV2020-WA8-2

4.3 Qualification Summary Table

SDG	Sample Affected	Analyte	Flag	Notes
20J0102	BI-23SEP20-DU3-3FD (20J0102-10)	PCB 95	No flag	B21B012-DUP1: Duplicate RPD above lab limit of 30% but within project limit (≤ 50%).
20J0102	BI-23SEP20-DU3-3FD (20J0102-10)	PCB 93	No flag	B21B012-DUP1: Duplicate RPD above project limit (50%). No flag applied (DoD Data Validation Guidelines Module 1).
20J0103	BI-23SEP20-DU4-3 (20J0103-04)	PCB 153	J+ (detects); no flag (nondetects)	B21B016-MS1/MSD1: MS and MSD recoveries out of control limits high and the target analyte is present in the parent sample at < 4X the spike concentration. RPD is within control limits.
20J0103	BI-23SEP20-DU4-3 (20J0103-04)	PCB 149	No flag	B21B016-DUP1: Duplicate RPD above lab limit of 30% but within project limit (≤ 50%).

20J0103	BI-23SEP20-DU4-3 (20J0103-04)	PCB 93	No flag	B21B012-DUP1: Duplicate RPD above project limit (50%). No flag applied (DoD Data Validation Guidelines Module 1).
20J0104	BI-24SEP20-DU8-4 (20J0104-10)	PCB 153	J+ (detects); no flag (nondetects)	B21B016-MS2: MS recovery out of control limits high and the target analyte is present in the parent sample at < 4X the spike concentration. RPD is within control limits.
20J0104	BI-24SEP20-DU8-4 (20J0104-10)	PCB 90	No flag	B21B016-DUP2: Duplicate RPD above lab limit of 30% but within project limit (≤ 50%).
20J0104	BI-24SEP20-DU8-4 (20J0104-10)	PCB 128	No flag	B21B016-DUP2: Duplicate RPD above project limit (50%). No flag applied (DoD Data Validation Guidelines Module 1).
20J0105	BI-25SEP20-DU10-3 (20J0105-07RE1)	Analytes reported from RE1: PCB 105, 110, 115, 118, 128, 130, 132, 135, 136, 137, 138, 149, 151, 156, 158, 167, 18, 187, 4, 44, 52, 53, 66, 74, 82, 84, 85, 90, 91, 92, 95, 97, 99	J+ (detects); no flag (nondetects)	Surrogate 2,4,5,6-tetrachloro-m-xylene recovery high (131%) outside control limits (35-125%).
20J0105	25SEP20-DU10-3 (20J0105-07RE2)	PCB 95, 110, 118	No flag	Surrogates 2,4,5,6-tetrachloro-m-xylene and PCB 198 were diluted out of the sample and not detected.
20J0105	BI-25SEP20-DU10-4 (20J0105-08RE1)	Analytes reported from RE1: PCB 118	J+ (detects); no flag (nondetects)	Surrogate 2,4,5,6-tetrachloro-m-xylene recovery high (143%) outside control limits (35-125%).
20J0105	BI-24SEP20-DU9-3 (20J0105-03)	PCB 52, 95, 118, 138	No flag	B21B015-DUP1: Duplicate RPD above lab limit of 30% but within project limit (≤ 50%).
20J0105	BI-24SEP20-DU9-3 (20J0105-03)	PCB 119	No flag	B21B015-DUP1: Duplicate RPD above project limit (50%). No flag applied (DoD Data Validation Guidelines Module 1).
20J0106	BI-25SEP20-REF2-2 (20J0106-04)	PCB 118	No flag	B21B016-DUP3: Duplicate RPD above lab limit of 30% but within project limit (≤ 50%).
20K3001	B1-12NOV2020-SO-2 (20K3001-02)	PCB 153	J+ (detects); no flag (nondetects)	B21C026-MS1/MSD1: MS and MSD recovery out of control limits high and the target analyte is present in the parent sample at < 4X the spike concentration. RPD is within control limits.
20K3001	B1-12NOV2020-OR-1 (20K3001-09)	PCB 119	No flag	B21C026-DUP2: Duplicate RPD above lab limit of 30% but within project limit (≤ 50%).
20K3002	B1-11NOV2020-B-2 (20K3002-09)	PCB 52, 95, 149	No flag	B21C027-DUP1: Duplicate RPD above lab limit of 30% but within project limit (≤ 50%).

20K3002	B1-11NOV2020-B-2 (20K3002-09)	PCB 135	No flag	B21C027-DUP1: Duplicate RPD above project limit (50%). No flag applied (DoD Data Validation Guidelines Module 1).
20K3002	B1-9NOV2020-H-01 (20K3002-03 and 20K3002-03RE1)	All analytes	No flag	20K3002-03 (B1-9NOV2020-H-01) was originally batched alone, reanalysis as 20K3002-03RE1 was performed due to LCS and LCSD % recovery failure due to accidental incorrect spike volume (original batch B21D110 with LCS B21D110-BS1 and LCSD B21D110-BSD1 on 4/5/2021, reanalysis batch B22A059 with B22A059-BS1 and 22A059-BSD1 on 1/14/2022). Use results from 20K3002-03RE1 for B1-9NOV2020-H-01.
20K3003	B1-11NOV2020-C-3 (20K3003-03)	PCB 118	J (detects); no nondetects	B21C028-MS1/MSD1: MS and MSD low, < 10% recovery. RPD is within control limits. In this situation the DoD Data Validation Guidelines recommending flagging nondetects as X, exclusion of data recommended. During the data usability assessment, the project team then determines if X-flagged data should be rejected or retained with an appropriate qualifier. The affected analytes were all detects, so there were no nondetects to evaluate and flag.
20K3003	B1-11NOV2020-C-3 (20K3003-03)	PCB 153	J+ (detects); no flag (nondetects)	B21C028-MS1/MSD1: MS and MSD recoveries out of control limits high and the target analyte is present in the parent sample at < 4X the spike concentration. RPD is within control limits.
20K3003	B1-11NOV2020-D-2 (20K3003-05)	PCB 93	No flag	B21C028-DUP1: Duplicate RPD above project limit (50%). No flag applied (DoD Data Validation Guidelines Module 1).
20K3003	B1-10NOV2020-E-2 (20K3003-08)	PCB 44, 47, 52, 66, 90, 93, 95, 97, 99, 118, 128, 138	No flag	B21C028-DUP2: Duplicate RPD above lab limit of 30% but within project limit (≤ 50%).
20K3003	B1-12NOV2020-F1 (20K3003-10RE1)	PCB 118 only	J+ (detects); no flag (nondetects)	Surrogate 2,4,5,6-tetrachloro-m-xylene recovery high (129%) outside control limits (35-125%).
20K3004	B1-12NOV2020-F-2 (20K3004-01)	PCB 153	J+ (detects); no flag (nondetects)	B21C029-MS1/MSD1: MS and MSD recoveries out of control limits high and the target analyte is present in the parent sample at < 4X the spike concentration. RPD is within control limits.
20K3004	B1-12NOV2020-F-3 (20K3004-02RE1)	PCB 97, 99, 105, 110, 118 only	J+ (detects); no flag (nondetects)	Surrogate 2,4,5,6-tetrachloro-m-xylene recovery high (127%) outside control limits (35-125%).

20K3004	B1-9NOV2020-G-4 (20K3004-05)	PCB 93	No flag	B21C029-DUP1: Duplicate RPD above lab limit of 30% but within project limit (≤ 50%).
20K3006	REF-16NOV2020-WA2-1 (20K3006-04)	PCB 90, 118, 138	No flag	B21C024-DUP1: Duplicate RPD above lab limit of 30% but within project limit (≤ 50%).
20K3007	REF-17NOV2020-WA8-2 (20K3007-05)	PCB 28	No flag	B21C025-DUP1: Duplicate RPD above lab limit of 30% but within project limit (≤ 50%).
20K3007	REF-17NOV2020-WA8-2 (20K3007-05)	PCB 149	No flag	B21C025-DUP1: Duplicate RPD above project limit (50%). No flag applied (DoD Data Validation Guidelines Module 1).

5. Total Lipids, Lipid Content by Colorimetric Determination (Handel, 1985, J. Am. Mosq. Control Assoc., Vol. 1, No. 3, page 302-304.)

5.1 Stage 1 Review

Reviewed Item	Determination	Requirements/Comments
Sample Custody	SATISFACTORY	All samples received under proper chain of custody. • Sampled between: 9/21/2020 – 9/25/20 (mobilization 1: 20J0101, 20J0102, 20J0103, 20J0104, 20J0105, 20J0106) and 11/9/20 – 11/17/20 (mobilization 2: 20K3001, 20K3002, 20K3003, 20K3004, 20K3005, 20K3006, 20K3007) • Relinquished at FedEx: 9/30/20 (mobilization 1), 11/17/20 (mobilization 2) • Arrived at ERDC: 10/01/20 (mobilization 1), 11/18/2020 (mobilization 2)
Temperature	SATISFACTORY	Temperature minimum requirement 2 – 6 °C Temperature at arrival: -16 (mobilization 1); -2.9 °C (mobilization 2). Samples were packed on dry ice immediately after sampling.
Holding Time	SATISFACTORY	Holding time: NA • Samples were shipped on dry ice and stored frozen at -20 °C ± 3 °C the laboratory until preparation and between preparation and analysis. Mobilization 1: Sampled 9/21/2020 to 9/25/20 • 20J0101: prepared 11/2/20, analyzed 11/2/20 Mobilization 2: Sampled 11/9/20 to 11/17/20 • 20K3001: prepared 3/4/21, analyzed 3/4/21 • 20K3005: prepared 2/1/21, analyzed 2/2/21 • 20K3006: prepared 3/4/21, analyzed 3/4/21 • 20K3007: prepared 3/4/21, analyzed 3/4/21

5.2 Stage 2a Review

Reviewed Item	Determination	Requirements/Comments
Method Blank (MB)	SATISFACTORY	• Perform one per preparatory batch. • No analytes detected > ½ LOQ or > 1/10th the amount measured in any sample or 1/10th the regulatory limit, whichever is greater.

Reviewed Item	Determination	Requirements/Comments
Laboratory Control Sample (LCS)	SATISFACTORY	• Perform one per preparatory batch. • Recoveries must be within project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits
Field Duplicates (FD)	SATISFACTORY	• RPD of all analytes (between sample and FD) specified by project limits: ≤ 50% • Were FDs collected? (Y/N): • B20K003-DUP1 from 20J0101-10/BI-25SEP20-DU10-COMP • B21C030-DUP1 from 20K3001-06/B1-12NOV2020-G1-2 • B21C030-DUP2 from 20K3001-09/B1-12NOV2020-OR-1 • B21B010-DUP1 from 20K3005-10/B1-10NOV2020-I-COMP • B21C030-DUP3 from 20K3006-04/REF-16NOV2020-WA2-1 • B21C030-DUP4 from 20K3006-07/REF-16NOV2020-WA3-2 • B21C030-DUP5 from 20K3007-05/REF-17NOV2020-WA8-2

5.3 Qualification Summary Table

SDG	Sample Affected	Analyte	Flag	Notes
None	None	None	None	None

6. Summary of Data Quality Indicators

This section provides an overall quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability. The data quality indicators defined in the QAPP and presented in this section include precision, accuracy, representativeness, completeness, and sensitivity.

Precision

Precision is defined as the degree of agreement between or among independent, similar, or repeated measures. Duplicate pairs such as MS/MSD, LCS/LCSD, laboratory duplicate, and field duplicate samples are evaluated as RPD. The RPD between primary and confirmation column values is considered a Stage 2B instrument-related factor and is not evaluated in a Stage 2A data validation (DoD Data Validation Guidelines Module 4). The relative percent difference (RPD) for these analyses is calculated as follows:

$$\text{RPD} = \frac{|S_1 - S_2|}{S_{avg}} \times 100\%$$

Where S_1 and S_2 = the observed concentration of analyte in the sample and its duplicate, and

S_{avg} = the average of observed analyte concentration in the samples and its duplicate.

Data for which RPD was out of control limits is discussed in section 3.3 and 4.3. The precision of the data set is considered acceptable after qualification (flagging) of estimated results.

Accuracy

Accuracy is the amount of agreement between a measured value and the true value. Accuracy, expressed as %Recovery (%R), was assessed for each method, analyte, and matrix, by comparing MS/MSD, LCS/LCSD, and surrogate recoveries to the method limits.

Measurements for which accuracy is out of control limits are discussed in section 3.3 and 4.3. The accuracy of the data set is considered acceptable after qualification (flagging) of estimated results.

Representativeness

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. Blank samples identify compounds that may have been introduced into the samples during preparation, or analysis.

All samples for each method and matrix were evaluated for holding time compliance. The laboratory utilized extended holding times by recommending shipment of samples on dry ice and storing samples and extracts at -20 °C ± 3 °C when not in active preparation or analysis.

Method blanks were performed at the required frequency and contaminants were not detected in analyses.

The representativeness of the project data is considered acceptable after qualification (flagging) of estimated results.

Completeness

Analytical completeness was calculated as defined in the QAPP and expressed as the percentage of measurements that were judged to be valid, i.e., not rejected, and acceptable for all intended date use. No data was rejected; analytical completeness for this sampling event was 100%.

Sensitivity

Sensitivity is the ability of an analytical method or instrument to discriminate between measurement responses representing different concentrations.

The sensitivity of the analytical methods (i.e., method reporting limits) identified for this project comply with the QAPP (USACE 2020).

7. Conclusions

The overall assessment of data indicates that the data set met project requirements. Sample results that were found to be estimated (J) should be used with caution if results are close to project decision limits or regulatory benchmarks. Based upon the data review performed, all results are considered valid and usable for all purposes.

8. References

DoD (Department of Defense), 2019. *General Data Validation Guidelines*, November 4.

DoD, 2021a. *Department of Defense (DoD) Department of Energy (DOE) Consolidated Quality Systems Manual (QSM) for Environmental Laboratories*, Version 5.4, October 26.

DoD, 2021b. *Data Validation Guidelines Module 4: Data Validation Procedure for Organic Analysis by GC*. March 9.

USACE (United States Army Corps of Engineers), 2020. *Work Plan with Quality Assurance Project Plan for Clam Sampling at River Operable Unit, Bradford Island, Cascade Locks, Oregon.* September 18.

USEPA (United Stated Environmental Protection Agency), 2009. *Guidance for Labeling Externally Validated Data for Superfund Use*, EPA 540-R-08-00. January 13.

USEPA, 2020a. *National Functional Guidelines for Organic Superfund Methods Data Review*, EPA 540-R-20-005, November.

USEPA, 2020b. *National Functional Guidelines for Inorganic Superfund Methods Data Review*, EPA 540-R-20-006, November.

USEPA, 2020c. *National Functional Guidelines for High Resolution Superfund Methods Data Review*, EPA 540-R-20-007, November.

Table 1. Limit and Data Qualifier Flag Definitions.

Limit	Definition
LOQ	Limit of Quantitation: The smallest concentration that produces a quantitative result with known and recorded precision and bias. For DoD/DOE projects, the LOQ shall be set at or above the concentration of the lowest initial calibration standard and within the calibration range.
LOD	Limit of Detection: The smallest concentration of a substance that must be present in a sample in order to be detected at the DL with 99% confidence. At the LOD, the false negative rate (Type II error) is 1%. A LOD may be used as the lowest concentration for reliably reporting a non-detect of a specific analyte in a specific matrix with a specific method at 99% confidence. A LOD is typically 2x to 4x the DL.
DL	Detection Limit: The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration with 99% confidence. At the DL, the false positive rate (Type I error) is 1%. A DL may be used as the lowest concentration for reliably reporting a detection of a specific analyte in a specific matrix with a specific method with 99% confidence.
Flag	**Definition**
J	The analyte was detected above the DL. The reported result is an estimated value with an unknown bias. The result receives a J-flag if it is below the LOQ, or due to other quality reasons.
J+	The analyte was detected above the DL. The result is an estimated quantity, but the result may be biased high. The result receives a J-flag if it is below the LOQ, or due to other quality reasons.
J-	The analyte was detected above the DL. The result is an estimated quantity, but the result may be biased low. The result receives a J-flag if it is below the LOQ, or due to other quality reasons.
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

DATA VALIDATION REPORT and DATA USABILITY ASSESSMENT

PROJECT: Tissue, Bradford Island, Cascade Locks, OR
LABORATORY: USACE Engineer Research and Development Center (ERDC)
MATRIX: Crayfish Tissue
SAMPLING DATE(S): 8/26/20 – 9/14/20
SAMPLING EVENT(s): Bradford Island River Tissue Sampling 2020
REPORT DATE: 4 August 2022

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1. Introduction

The following is a data validation report by the USACE project chemist including data usability assessment by the project delivery team for crayfish samples collected on 8/26/20 – 9/14/20 from River Operable Unit, Bradford Island, in Cascade Locks, OR. The sample data groups (SDG), analytes measured, methods used, and the laboratory information is provided below:

Sample Data Group (SDG)	No. of Samples	Matrix	Analyte(s)	Method	Validation Level
20I1003	16	Crayfish Tissue	Mercury	EPA 7474	Stage 2A (S2AVM)
			Organochlorine Pesticides	EPA 8081	
			PCB Congeners	Method 1668C	
			Lipids	Lipid Content by Colorimetric Determination	
20I2305	24	Crayfish Tissue	Mercury	EPA 7474	Stage 2A (S2AVM)
			Organochlorine Pesticides	EPA 8081	
			PCB Congeners	Method 1668C	
			Lipids	Lipid Content by Colorimetric Determination	

Sample analyses were evaluated to level Stage 2A data validation. Stage 2A validation of the laboratory analytical data package consists of verification and validation based on completeness and compliance checks of sample receipt conditions and sample-related QC results.

Analytical results are qualified based on the definitions and use of qualifying flags in the following resources. Some data may be qualified using the reviewer's professional judgment. The conclusions presented herein are based on the information available for the review.

- Department of Defense (DoD) Quality Systems Manual for Environmental Laboratories, Version 5.4 (DoD, 2021a)
- DoD Data Validation Guidelines (DoD 2019, 2021b)
- United States Environmental Protection Agency (USEPA) Guidance for Labeling Externally Validated Data for Superfund Use (USEPA, 2009)
- USEPA National Functional Guidelines (USEPA, 2020a-c)

Definitions for limits and flags are given in Table 1. All detected concentrations less than the Limit of Quantitation (LOQ) are reported at their detected value but flagged J for estimated. Non-detects are reported at the Limit of Detection (LOD) and flagged U for undetected.

2. Mercury Data Review, AFS, Method 7474

2.1 Stage 1 Review

Reviewed Item	Determination	Requirements/Comments
Sample Custody	SATISFACTORY	All samples received under proper chain of custody. • 20I1003 sampled: 8/26/20 – 9/28/20 • 20I2305 sampled 9/2/20 – 9/14/20 • Relinquished at FedEx: 9/9/20, 9/22/20 • Arrived at ERDC: 9/11/20, 9/23/20
Temperature	**See Qualification Summary Table**	Temperature minimum requirement 2 – 6 °C Temperature at arrival: • 20I1003: 9.2 °C • 20I2305: -8 °C. Samples were packed on dry ice immediately after sampling.
Holding Time	SATISFACTORY	Holding time for solid samples is 28 days. A longer holding time may be appropriate if it can be demonstrated that the reported analyte concentrations are not adversely affected by preservation, storage and analyses performed outside the recommended holding times (SW-836 Chapter 3). • Samples were shipped on dry ice and stored frozen at -20 °C ± 3 °C the laboratory until preparation and between preparation and analysis. • 20I1003 and sample 20I2305-05 (CF Comp 21): sampled 8/26/20 – 9/28/20, prepared 7/19/21, analyzed 7/20/21. • 20I2305 except sample 20I2305-05 (CF Comp 21): sampled 9/2/20 – 9/14/20, prepared 10/23/20, analyzed 10/30/20.

2.2 Stage 2a Review

Reviewed Item	Determination	Requirements/Comments
Method Blank (MB)	SATISFACTORY	• Perform one per preparatory batch. • The absolute values of all analytes must be < ½ LOQ or < 1/10th the amount measured in any sample or 1/10th the regulatory limit, whichever is greater.
Laboratory Control Sample (LCS), LCS Duplicate (LCSD), and Relative Percent Difference (RPD)	SATISFACTORY	• Perform one per preparatory batch. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits • LCSD/RPD not necessary by QSM Table B-7.
Matrix Spike (MS), Matrix Spike Duplicate (MSD), and Relative Percent Difference (RPD)	**See Qualification Summary Table**	• Perform one per preparatory batch. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits • Dilution test and post digestion spike are required if MS or MSD fails.

Reviewed Item	Determination	Requirements/Comments
Field Duplicates (FD)	SATISFACTORY	• RPD of all analytes (between sample and FD) specified by project limits: ≤ 50% • Were FDs collected? (Y/N): Y • B21G153-DUP1 from 20I1003-04RE2/CF Comp 4 • B21G153-DUP2 from 20I1003-07RE2/CF Comp 7 • B21G153-DUP3 from 20I1003-09RE2/CF Comp 9 • B21G153-DUP4 from 20I1003-13RE2/CF Comp 13 • B20K053-DUP1 from 20I2305-01/CF Comp 17 • B21G153-DUP7 from 20I2305-05RE1/CF Comp 21 • B20K053-DUP2 from 20I2305-11/CF Comp 27 • B20K053-DUP3 from 20I2305-24/CF Comp 38

2.3 Qualification Summary Table

SDG	Sample Affected	Analyte	Flag	Notes
All SDGs	All samples	Mercury	None	Samples were initially digested on October 23, 2020 as batch B20K050 and B20K053 and analyzed October 29, 2020. Due to QC sample results, samples were re-digested on December 14, 2020 as batch B20L26 (designated RE1) and analyzed on December 15, 2020. The data between the two batches did not agree within a RPD less than 25%, so the samples were digested a third time on January 19, 2021 as batch B21A016 (designated RE2) and analyzed January 20, 2021. For some samples, the data from the second batch B20L026 (RE1) and third batch B21A016 (RE2) digestions were in agreement; however, for some, the third batch B21A016 (RE2) data fell between the initial batch B20K050 and the second batch B20L026 (RE1) concentrations. The differences in the data were likely caused by the non-homogeneity of the samples; samples could not be processed to complete homogeneity due to the amount of shell. The project team should use results reported as “RE2”.

SDG	Sample Affected	Analyte	Flag	Notes
20I1003	All samples in SDG and associated duplicates: CF COMP 1 to CF COMP 16 (20I003-01 to 20I003-16)	Mercury	J (all detects); UJ (nondetects)	The crayfish in the work order 20I1003 were shipped on September 9, 2020 but arrived September 11, 2020 due to a shipping delay by FedEx. The samples arrived at 9.2 °C which was above the DOD Data Validation Guidelines of 6 °C but below 10 °C. Degradation of the crayfish was not obvious upon sample receipt or during sample processing; therefore, professional judgement was applied by the laboratory that sample and analyte integrity had not been compromised, although the laboratory J-flagged detects. During the data usability assessment, the project team evaluated the affected data and current guidelines (DoD QSM, Data Validation Guidelines, and EPA NFGs). The project team determined that since the tissue was shipped on dry ice, the time window that the tissue was > 6 °C was likely short and the tissue would not be significantly affected as a result of the 3 °C temperature exceedance during shipment. Due to this evaluation, and the laboratory's assessment that the tissue had not been compromised, the project team determined that the data was usable. Detects were flagged J and nondetects were flagged UJ (aligning with the EPA NFGs for mercury in absence of an applicable DoD Data Validation Guidelines Module for mercury). The affected samples are all from the reference area.
20I1003	CF Comp 9 (20I1003-09RE2)	Mercury	J- (all detects); UJ (nondetects)	B21A016-MSD3: MSD out of control low.

3. Organochlorine Pesticides Data Review, GC/MS, Method 8081B

3.1 Stage 1 Review

Reviewed Item	Determination	Requirements/Comments
Sample Custody	SATISFACTORY	All samples received under proper chain of custody. • 20I1003 sampled: 8/26/20 – 9/28/20 • 20I2305 sampled 9/2/20 – 9/14/20 • Relinquished at FedEx: 9/9/20, 9/22/20 • Arrived at ERDC: 9/11/20, 9/23/20

Reviewed Item	Determination	Requirements/Comments
Temperature	**See Qualification Summary Table**	Temperature minimum requirement 2 – 6 °C Temperature at arrival: • 20I1003: 9.2 °C • 20I2305: -8 °C. Samples were packed on dry ice immediately after sampling.
Holding Time	SATISFACTORY	Extraction holding time for solid samples is 14 days, and analysis holding time for extracts is 40 days. A longer holding time may be appropriate if it can be demonstrated that the reported analyte concentrations are not adversely affected by preservation, storage and analyses performed outside the recommended holding times (SW-846 Chapter 4). • Samples were shipped on dry ice and stored frozen at -20 °C ± 3 °C the laboratory until preparation and between preparation and analysis. • 20I1003: sampled 8/26/20 – 9/28/20, prepared 11/24/20 and 3/5/2021, analyzed 12/22/20, 3/3/21, and 3/11/21. • 20I2305: sampled 9/2/20 – 9/14/20, prepared 11/24/20 and 3/5/2021, analyzed 2/22/20 and 3/11/21.

3.2 Stage 2a Review

Reviewed Item	Determination	Requirements/Comments
Method Blank (MB)	**See Qualification Summary Table**	• Perform one per preparatory batch. • No analytes detected > ½ LOQ or > 1/10th the amount measured in any sample or 1/10th the regulatory limit, whichever is greater. • Common contaminants must not be detected > LOQ.
Laboratory Control Sample (LCS)	**See Qualification Summary Table**	• Perform one per preparatory batch. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits • LCSD/RPD not necessary by Table B-1.
Matrix Spike (MS), Matrix Spike Duplicate (MSD), and Relative Percent Difference (RPD)	**See Qualification Summary Table**	• Perform one per preparatory batch. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits
Surrogate Spike	**See Qualification Summary Table**	• Perform for all field and QC samples. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan.

Reviewed Item	Determination	Requirements/Comments
Field Duplicates (FD)	**See Qualification Summary Table**	• RPD of all analytes (between sample and FD) specified by project limits: ≤ 50% • Were FDs collected? (Y/N): Y • B21C031-DUP1 from 20I1003-07RE1/CF Comp 7 • B20L033-DUP2 from 20I1003-09/CF Comp 9 • B21C031-DUP2 from 20I2305-05RE1/CF Comp 21 • B20L033-DUP1 from 20I2305-11/CF Comp 27

3.3 Qualification Summary Table

SDG	Sample Affected	Analyte	Flag	Notes
20I1003	All samples in SDG and associated duplicates: CF COMP 1 to CF COMP 16 (20I003-01 to 20I003-16)	All analytes	J- (all detects); UJ (nondetects)	The crayfish in the work order 20I1003 were shipped on September 9, 2020 but arrived September 11, 2020 due to a shipping delay by FedEx. The samples arrived at 9.2 °C which was above the DOD Data Validation Guidelines of 6 °C but below 10 °C. Degradation of the crayfish was not obvious upon sample receipt or during sample processing; therefore, professional judgement was applied by the laboratory that sample and analyte integrity had not been compromised, although the laboratory J-flagged detects. During the data usability assessment, the project team evaluated the affected data and current guidelines (DoD QSM, Data Validation Guidelines, and EPA NFGs). The project team determined that since the tissue was shipped on dry ice, the time window that the tissue was >6 °C was likely short and the tissue would not be significantly affected as a result of the 3 °C temperature exceedance during shipment. Due to this evaluation, and the laboratory's assessment that the tissue had not been compromised, the project team determined that the data was usable. Detects were flagged J- and nondetects were flagged UJ (aligning with the DoD Data Validation Guidelines Module 4). The affected samples are all from the reference area. If results had mixed indicators of high and low bias (J- and J+), then results were flagged J.

SDG	Sample Affected	Analyte	Flag	Notes
20I1003	CF Comp 7 (20I1003-07, 20I1003-07RE1) and CF Comp 21 (20I2305-05, 20I2305-05RE1)	beta-BHC	No flag for original analyses; these results should be reported. In the reanalysis, since the sample results are > LOD and ≤ 5x blank; detected results for beta-BHC are flagged J+ and are recommended for exclusion since original unflagged results are available.	Blank (B21C031-BLK1): beta-BHC detected at 0.124 ug/kg below the reporting limit of 0.127 ug/kg, above the detection limit of 0.038 ug/kg. Analyzed 3/11/21. In the initial extraction on November 24, 2020, the requested duplicate was not done for 20I1003-07 (CF Comp 7). The sample and its duplicate, along with those for 20I2305-05 (CF Comp 21) were extracted March 5, 2021 as batch B21C031. Beta-BHC was detected at a concentration above the reporting limit in B21C031 as well as the sample and duplicate (20I1003-07RE1). This is likely a lab contamination as it was not detected in the initial extraction (20I1003-07). The project team should use the initial results not affected by blank contamination. The re-analysis may be compared with the duplicate for RPD information.
20I1003	CF Comp 9 (20I1003-09)	4,4'-DDE	No flag	B20L033-DUP2: Duplicate RPD above project limit (≤ 50%).
20I1003	CF Comp 9 (20I1003-09)	4,4'-DDE alpha-BHC delta-BHC Endrin aldehyde	J- (detects); UJ (nondetects)	B20L033-MS2/MSD2: MS/MSD out of control low, recovery ≥ 10%. Endrin aldehyde RPD out of control.
20I1003	CF Comp 9 (20I1003-09)	Endosulfan II	J- (detects); UJ (nondetects; flagged as X during the data validation and evaluated as UJ during the data usability assessment)	B20L033-MSD2: MSD out of control low, recovery < 10%. In this situation the DoD Data Validation Guidelines recommending flagging nondetects as X, exclusion of data recommended. During the data usability assessment, the project team then determines if X-flagged data should be rejected or retained with an appropriate qualifier. Endosulfan II is nondetect in the parent sample and nondetect in all SDGs. During the data usability assessment, the project team determined that since all SDGs are nondetect, the MS/MSD low failure is unlikely to have negated a significant detection, and since this data is for information gathering rather than a decision point/cleanup level, that nondetect in sample CF Comp 9 should be flagged UJ, not R.
20I1003	CF Comp 2 (20I1003-02)	All analytes	J+ (detects); no flag (nondetects)	Surrogate PCB 198 out of control high.

SDG	Sample Affected	Analyte	Flag	Notes
20I2305	CF Comp 27 (20I2305-11)	2,4´-DDD 2,4´-DDE 4,4´-DDD alpha-BHC alpha-Chlordane beta-BHC delta-BHC Dieldrin EndoSulfan I EndoSulfan II Endrin Endrin aldehyde gamma-BHC (Lindane) gamma-Chlordane Methoxychlor	J- (detects); UJ (nondetects)	B20L033-MS1/MSD1: MS/MSD out of control low, recovery ≥ 10%. Endrin Aldehyde RPD out of control.
20I1003, 20I2305	CF Comp 7 re-analysis (20I1003-07RE1), CF Comp 21 re-analysis (20I2305-05RE1)	Methoxychlor	No flags.	B21C031-BS1: LCS recovery was 53.7%, out of control low compared to laboratory limits of 55-145%, but within DoD QSM limits of 52-143%, so no flags were applied. Analyzed 3/11/21.
20I1003, 20I2305	CF Comp 7 re-analysis (20I1003-07RE1), CF Comp 21 re-analysis (20I2305-05RE1)	2,4'-DDD	No flag	B21C031-BS1/BSD1: LCS/LCSD RPD out of control. Analyzed 3/11/21. An LCSD is not required according to DoD QSM Table B-1; no flags were applied. The project team may use the initial results (20I1003-07 and 20I2305-05) or the reanalysis results (20I1003-07RE1 and 20I2305-05RE1). The reanalysis results are not flagged as the reported LCL failure was not a failure when using the DoD QSM limits (see line above), and the LCSD RPD analysis was not needed (see this line). The re-analyses (RE1) may be compared with the duplicates for RPD information.

4. Polychlorinated Biphenyl (PCB) Congeners Data Review, GC/MS, Method 1668C

4.1 Stage 1 Review

Reviewed Item	Determination	Requirements/Comments
Sample Custody	SATISFACTORY	All samples received under proper chain of custody. • 20I1003 sampled: 8/26/20 – 9/28/20 • 20I2305 sampled 9/2/20 – 9/14/20 • Relinquished at FedEx: 9/9/20, 9/22/20 • Arrived at ERDC: 9/11/20, 9/23/20

Reviewed Item	Determination	Requirements/Comments
Temperature	**See Qualification Summary Table**	Temperature minimum requirement 2 – 6 °C Temperature at arrival: • 20I1003: 9.2 °C • 20I2305: -8 °C. Samples were packed on dry ice immediately after sampling.
Holding Time	SATISFACTORY	The EPA SW-846 does not specify a holding time for PCBs in solids due to their stability (SW-846 Chapter 4). The laboratory's typical holding time is one year for frozen samples and extracts. • Samples were shipped on dry ice and stored frozen at -20 °C ± 3 °C the laboratory until preparation and between preparation and analysis. • 20I1003: sampled 8/26/20 – 9/28/20, prepared 11/24/20 or 3/5/21, analyzed 5/8/21 – 5/13/21. • 20I2305: sampled 9/2/20 – 9/14/20, prepared 11/24/20 or 3/5/21, analyzed 5/9/21 – 5/11/21.

4.2 Stage 2a Review

Reviewed Item	Determination	Requirements/Comments
Method Blank (MB)	SATISFACTORY	• Perform one per preparatory batch. • No analytes detected > ½ LOQ or > 1/10th the amount measured in any sample or 1/10th the regulatory limit, whichever is greater. • Common contaminants must not be detected > LOQ.
Laboratory Control Sample (LCS)	**See Qualification Summary Table**	• Perform one per preparatory batch. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits • LCSD/RPD not necessary by Table B-1.
Matrix Spike (MS), Matrix Spike Duplicate (MSD), and Relative Percent Difference (RPD)	**See Qualification Summary Table**	• Perform one per preparatory batch. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits
Surrogate Spike	**See Qualification Summary Table**	• Perform for all field and QC samples. • Recoveries must be within DoD/DOE QSM Appendix C Limits, project limits, or lab in-house limits as specified in the project plan.
Field Duplicates (FD)	**See Qualification Summary Table**	• RPD of all analytes ≤ 30% (between sample and FD), or as specified by project limits. • Were FDs collected? (Y/N): Y • B21F074-DUP1 from 20I1003-07RE2/CF Comp 7 • B21F078-DUP1 from 20I1003-09RE1/CF Comp 9 • B21F074-DUP2 from 20I2305-05RE2/CF Comp 21 • B21F075-DUP1 from 20I2305-11RE1/CF Comp 27

4.3 Qualification Summary Table

SDG	Sample Affected	Analyte	Flag	Notes
20I1003	All samples in SDG and associated duplicates: CF COMP 1 to CF COMP 16 (20I003-01 to 20I003-16)	All analytes	J- (all detects); UJ (nondetects)	The crayfish in the work order 20I1003 were shipped on September 9, 2020 but arrived September 11, 2020 due to a shipping delay by FedEx. The samples arrived at 9.2 °C which was above the DOD Data Validation Guidelines of 6 °C but below 10 °C. Degradation of the crayfish was not obvious upon sample receipt or during sample processing; therefore, professional judgement was applied by the laboratory that sample and analyte integrity had not been compromised, although the laboratory J-flagged detects. During the data usability assessment, the project team evaluated the affected data and current guidelines (DoD QSM, Data Validation Guidelines, and EPA NFGs). The project team determined that since the tissue was shipped on dry ice, the time window that the tissue was >6 °C was likely short and the tissue would not be significantly affected as a result of the 3 °C temperature exceedance during shipment. Due to this evaluation, and the laboratory's assessment that the tissue had not been compromised, the project team determined that the data was usable. Detects were flagged J- and nondetects were flagged UJ (aligning with the DoD Data Validation Guidelines Module 4). The affected samples are all from the reference area.
20I1003	CF Comp 9 (20I1003-09RE1)	4, 5, 7, 8, 9, 12, 13, 14, 15, 16, 18, 20, 22, 24, 25, 28, 29, 32, 33, 34, 35, 37, 40, 42, 44, 45, 46, 47, 48, 51, 53, 56, 63, 64, 66, 67, 69, 70, 71, 74, 75, 77, 82, 83, 84, 85, 90, 91, 92, 93, 95, 97, 99, 103, 104, 105, 107, 110, 114, 115, 117, 118, 119, 121, 124, 126, 128, 129, 130, 135, 136, 137, 138, 141, 146, 147, 149, 151, 153, 154, 155, 157, 158, 165, 167, 170, 171, 173, 174, 175, 176, 177,	J- (detects); UJ (nondetects)	B21F078-MS1/MSD1: MS and/or MSD out of control limits low and ≥ 10% recovery. RPD within control limits for all PCBs.

		178, 180, 183, 184, 185, 187, 190, 191, 192, 193, 197, 199, 200, 207, 208		
20I1003	CF Comp 9 (20I1003-09RE1)	78	J+ (detects); no flag (nondetects)	B21F078-MS1/MSD1: MS and MSD out of control limits high, RPD out of control limits.
20I1003	CF Comp 8 (20I1003-08)	All analytes	J- (detects); UJ (nondetects)	Sample 20I1003-08 had a low recovery of 33.7% for surrogate 2,4,5,6-tetrachloro-m-xylene (TMX).
20I2305 (8 samples)	Samples analyzed on 5/9/21: CF Comp 17 – CF Comp 24 (20I2305-01 - 20I2305-08)	PCB 119, 141, 184	No flags	B21F075-BS1/BSD1: LCS RPDs exceeding the laboratory 30% limit for 119, 141, and 184 at 32.7%, 33.9%, and 32%, respectively. Analyzed 5/9/2021. An LCSD is not required according to DoD QSM Table B-1; no flags were applied.
20I2305	CF Comp 27 (20I2305-11RE1)	147 156	J- (detects); UJ (nondetects; flagged as X during the data validation and evaluated as UJ during the data usability assessment)	B21F075-MS1/MSD1: MS out of control limits low and < 10% recovery, MSD in control limits, RPD out of control limits. When a MS/MSD is out of control limits low and < 10% recovery, the DoD Data Validation Guidelines recommending flagging nondetects as X, exclusion of data recommended. During the data usability assessment, the project team then determines if X-flagged data should be rejected or retained with an appropriate qualifier. The MS recovery is out of control limits low for most analytes (although ≥ 10% recovery for most analytes); however, the MSD recovery is within control limits for those analytes. This may indicate a laboratory-specific issue with the MS sample rather than matrix non-homogeneity; however, the cause is uncertain. During the data usability assessment, the project team determined that since the MS recovery is uniformly and unusually low compared to the MSD recovery, and since this data is for information gathering rather than a decision point/cleanup level, that affected nondetects in sample CF Comp 27 should be flagged UJ, not R.
20I2305	CF Comp 27 (20I2305-11RE1)	4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 18, 19, 20, 22, 24, 25, 26, 28, 29, 32, 33, 34, 35, 37, 40, 42, 44, 45, 46, 47, 48, 51, 52, 53, 56, 63, 64, 66, 67, 69, 70, 71, 73, 74, 75, 77, 82, 83, 84, 85,	J- (detects); UJ (nondetects)	B21F075-MS1/MSD1: MS out of control limits low and ≥ 10% recovery, MSD in control limits, RPD out of control limits for all but PCB 6.

		90, 91, 92, 93, 95, 97, 99, 103, 104, 105, 107, 110, 115, 117, 119, 121, 124, 126, 128, 129, 130, 135, 137, 138, 141, 146, 149, 151, 153, 154, 155, 157, 158, 165, 167, 170, 171, 173, 174, 175, 176, 177, 178, 180, 183, 184, 185, 187, 189, 190, 191, 192, 193, 194, 195, 196, 197, 199, 200, 205, 207, 208		
20I2305	CF Comp 27 (20I2305-11RE1)	118	J (detects); UJ (nondetects)	B21F075-MS1/MSD1: MS out of control limits low and < 10% recovery, MSD out of control limits high, RPD out of control limits. There are conflicting indicators of high and low bias; therefore, detects were flagged J. Nondetects were flagged UJ; see rationale on previous line for MS < 10% recovery.
20I2305	CF Comp 27 (20I2305-11RE1)	78	J+ (detects); no flag (nondetects)	B21F075-MS1/MSD1: MSD out of control limits high; RPD out of control limits.
20I2305	CF Comp 21 (20I2305-05RE2)	PCB 194	No flag	B21F074-DUP2: Duplicate RPD above project limit (≤ 50%).
20I2305	CF Comp 27 (20I2305-11RE1)	PCB 107, 167, 170, 180, 187	No flag	B21F075-DUP1: Duplicate RPD above project limit (≤ 50%).

5. Total Lipids, Lipid Content by Colorimetric Determination (Handel, 1985, J. Am. Mosq. Control Assoc., Vol. 1, No. 3, page 302-304.)

5.1 Stage 1 Review

Reviewed Item	Determination	Requirements/Comments
Sample Custody	SATISFACTORY	All samples received under proper chain of custody. • 20I1003 sampled: 8/26/20 – 9/28/20 • 20I2305 sampled 9/2/20 – 9/14/20 • Relinquished at FedEx: 9/9/20, 9/22/20 • Arrived at ERDC: 9/11/20, 9/23/20
Temperature	**See Qualification Summary Table**	Temperature minimum requirement 2 – 6 °C Temperature at arrival: • 20I1003: 9.2 °C • 20I2305: -8 °C. Samples were packed on dry ice immediately after sampling.
Holding Time	SATISFACTORY	Holding time: NA • Samples were shipped on dry ice and stored frozen at -20 °C ± 3 °C the laboratory until preparation and between preparation and analysis.

Reviewed Item	Determination	Requirements/Comments
		• 20I1003: sampled 8/26/20 – 9/28/20, prepared 10/20/20, analyzed 10/21/20. • 20I2305: sampled 9/2/20 – 9/14/20, prepared 10/20/20, analyzed 10/21/20

5.2 Stage 2a Review

Reviewed Item	Determination	Requirements/Comments
Method Blank (MB)	SATISFACTORY	• Perform one per preparatory batch. • No analytes detected > ½ LOQ or > 1/10th the amount measured in any sample or 1/10th the regulatory limit, whichever is greater.
Laboratory Control Sample (LCS)	SATISFACTORY	• Perform one per preparatory batch. • Recoveries must be within project limits, or lab in-house limits as specified in the project plan. • Specified: Lab in-house limits
Field Duplicates (FD)	SATISFACTORY	• RPD of all analytes (between sample and FD) specified by project limits: ≤ 50% • Were FDs collected? (Y/N): Y • B20J189-DUP2 from 20I1003-13/CF Comp 13 • B20J189-DUP1from 20I2305-03/CF Comp 19

5.3 Qualification Summary Table

SDG	Sample Affected	Analyte	Flag	Notes
20I1003	All samples in SDG and associated duplicates: CF COMP 1 to CF COMP 16 (20I003-01 to 20I003-16)	Lipids	J- (all detects); UJ (nondetects)	The crayfish in the work order 20I1003 were shipped on September 9, 2020 but arrived September 11, 2020 due to a shipping delay by FedEx. The samples arrived at 9.2 °C which was above the DOD Data Validation Guidelines of 6 °C but below 10 °C. Degradation of the crayfish was not obvious upon sample receipt or during sample processing; therefore, professional judgement was applied by the laboratory that sample and analyte integrity had not been compromised, although the laboratory J-flagged detects. During the data usability assessment, the project team evaluated the affected data and current guidelines (DoD QSM, Data Validation Guidelines, and EPA NFGs). The project team determined that since the tissue was shipped on dry ice, the time window that the tissue was >6 °C was likely short and the tissue would not be significantly affected as a result of the 3 °C temperature exceedance during shipment. Due to this evaluation, and the laboratory's assessment that the tissue had not been compromised, the project team determined that the data was usable. Detects were flagged J- and nondetects were not flagged (aligning with the DoD Data Validation Guidelines Module 4 for GC, which was updated more recently than Module 1 for GC/MS, in the absence of specific guidelines for lipids). The affected samples are all from the reference area.

6. Summary of Data Quality Indicators

This section provides an overall quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability. The data quality indicators defined in the QAPP and presented in this section include precision, accuracy, representativeness, completeness, and sensitivity.

Precision

Precision is defined as the degree of agreement between or among independent, similar, or repeated measures. Duplicate pairs such as MS/MSD, LCS/LCSD, laboratory duplicate, and field duplicate samples are evaluated as RPD. The RPD between primary and confirmation column values is considered a Stage 2B instrument-related factor and is not evaluated in a Stage 2A data validation (DoD Data Validation Guidelines Module 4). The relative percent difference (RPD) for these analyses is calculated as follows:

$$\mathrm{RPD} = \frac{|S_1 - S_2|}{S_{avg}} \times 100\%$$

Where S_1 and S_2 = the observed concentration of analyte in the sample and its duplicate, and

S_{avg} = the average of observed analyte concentration in the samples and its duplicate.

Data for which RPD was out of control limits is discussed in section 2.3, 3.3, and 4.3. The precision of the data set is considered acceptable after qualification (flagging) of estimated results.

Accuracy

Accuracy is the amount of agreement between a measured value and the true value. Accuracy, expressed as %Recovery (%R), was assessed for each method, analyte, and matrix, by comparing MS/MSD, LCS/LCSD, and surrogate recoveries to the method limits.

Measurements for which accuracy is out of control limits are discussed in section 2.3, 3.3, and 4.3. The accuracy of the data set is considered acceptable after qualification (flagging) of estimated results.

Representativeness

Representativeness is a qualitative parameter that expresses the degree to which the sample data are characteristic of a population. Blank samples identify compounds that may have been introduced into the samples during preparation, or analysis.

All samples for each method and matrix were evaluated for holding time compliance. The laboratory utilized extended holding times by recommending shipment of samples on dry ice and storing samples and extracts at -20 °C ± 3 °C when not in active preparation or analysis. A 3 °C temperature exceedance during a delay in shipping affected one sample delivery group; however, the laboratory and the project team determined that the tissue was not significantly impacted and the data is usable; detects were flagged J- and nondetects were flagged UJ.

Method blanks were performed at the required frequency. Blank contaminants were not detected most analyses, except a reanalysis of reanalysis of CF Comp 7 and 21 and their associated field duplicates (see section 3.3).

The representativeness of the project data is considered acceptable after qualification (flagging) of estimated results.

Completeness

Analytical completeness was calculated as defined in the QAPP and expressed as the percentage of measurements that were judged to be valid, i.e., not rejected, and acceptable for all intended date use. Detects for beta-BHC in a reanalysis of CF Comp 7 and 21, and their associated field duplicates, were rejected due to a blank contamination issues (see section 3.3) and the original analysis is usable and was not rejected. Analytical completeness for this sampling event was greater than 99%.

Sensitivity

Sensitivity is the ability of an analytical method or instrument to discriminate between measurement responses representing different concentrations.

The sensitivity of the analytical methods (i.e., method reporting limits) identified for this project comply with the QAPP (USACE 2020).

7. Conclusions

The overall assessment of data indicates that the data set met project requirements. Sample results that were found to be estimated (J) should be used with caution if results are close to project decision limits or regulatory benchmarks. Based upon the data review performed, all results are considered valid and usable for purposes as defined in the QAPP (USACE 2020).

8. References

DoD (Department of Defense), 2019. *General Data Validation Guidelines*, November 4.

DoD, 2021a. *Department of Defense (DoD) Department of Energy (DOE) Consolidated Quality Systems Manual (QSM) for Environmental Laboratories*, Version 5.4, October 26.

DoD, 2021b. *Data Validation Guidelines Module 4: Data Validation Procedure for Organic Analysis by GC*. March 9.

USACE (United States Army Corps of Engineers), 2020. *Work Plan with Quality Assurance Project Plan for Smallmouth Bass Acoustic Telemetry and Tissue Sampling and Crayfish Tissue Sampling at River Operable Unit, Bradford Island, Cascade Locks, Oregon.* August 14.

USEPA (United Stated Environmental Protection Agency), 2009. *Guidance for Labeling Externally Validated Data for Superfund Use*, EPA 540-R-08-00. January 13.

USEPA, 2020a. *National Functional Guidelines for Organic Superfund Methods Data Review*, EPA 540-R-20-005, November.

USEPA, 2020b. *National Functional Guidelines for Inorganic Superfund Methods Data Review*, EPA 540-R-20-006, November.

USEPA, 2020c. *National Functional Guidelines for High Resolution Superfund Methods Data Review*, EPA 540-R-20-007, November.

Table 1. Limit and Data Qualifier Flag Definitions.

Limit	Definition
LOQ	Limit of Quantitation: The smallest concentration that produces a quantitative result with known and recorded precision and bias. For DoD/DOE projects, the LOQ shall be set at or above the concentration of the lowest initial calibration standard and within the calibration range.
LOD	Limit of Detection: The smallest concentration of a substance that must be present in a sample in order to be detected at the DL with 99% confidence. At the LOD, the false negative rate (Type II error) is 1%. A LOD may be used as the lowest concentration for reliably reporting a non-detect of a specific analyte in a specific matrix with a specific method at 99% confidence. A LOD is typically 2x to 4x the DL.
DL	Detection Limit: The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration with 99% confidence. At the DL, the false positive rate (Type I error) is 1%. A DL may be used as the lowest concentration for reliably reporting a detection of a specific analyte in a specific matrix with a specific method with 99% confidence.
Flag	**Definition**
J	The analyte was detected above the DL. The reported result is an estimated value with an unknown bias. The result receives a J-flag if it is below the LOQ, or due to other quality reasons.
J+	The analyte was detected above the DL. The result is an estimated quantity, but the result may be biased high. The result receives a J-flag if it is below the LOQ, or due to other quality reasons.
J-	The analyte was detected above the DL. The result is an estimated quantity, but the result may be biased low. The result receives a J-flag if it is below the LOQ, or due to other quality reasons.
U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

Appendix H:

Technical Memorandum: Analysis of ERDC versus Eurofins PCB Congeners

Technical Memorandum
Bradford Island, River Operable Unit
Prepared for: Bradford Island 2020 Tissue Results Updated Report
Prepared by: USACE
Date Prepared: 16 September 2022

Bradford Island 2020 Tissue Data: Comparing PCB Congener Results from EPA Method 1668A and EPA Method 8082A and the Impact of an Extraction Step Difference on PCB Congener Analytical Results

1.0 Background

The USACE Bradford Island Project Delivery Team engaged the U.S. Army Engineer Research and Development Center (ERDC) to provide laboratory analysis of PCB congeners in fish tissue for the Bradford Island 2020 tissue data collection. ERDC analyzed samples using EPA Method 8082A modified to report 148 congeners based on commercially available standards that represent the majority of congeners found in Aroclors. A subset of samples was analyzed by Eurofins using EPA Method 1668A in order to report the full analyte list of 209 congeners. This technical memorandum compares the results from the EPA Method 8082A and EPA Method 1668A analyses. These analyses were done in accordance with the final QAPPs (USACE 2020a and USACE 2020b).

2.0 Analysis of Difference in Results Provided by ERDC and Eurofins

For the subset of samples analyzed with both EPA Method 8082A and EPA Method 1668A, the two methods yielded differing total PCB results for the same sample. The total PCB concentration reported from each method, represented as a simple sum of detected concentrations, is listed for each sample (Table 1 Section A). The concentration ratio is the reported concentration from EPA Method 1668A divided by the reported concentration from EPA Method 8082A for each sample. For the relatively higher-concentration bass samples, the results from EPA Method 1668A were typically a factor of 1.5 to 2 times greater than the results from EPA Method 8082A. This varies by sample, and factoring in the lower concentration clam and crayfish samples, the results from EPA Method 1668A are on average 3 times greater than the results from EPA Method 8082A for all species sampled (Table 1 Section A). Because the magnitude of the difference between the methods was affected by the measured concentrations, the relative percent difference (RPD) was also used to evaluate the overall differences between the two methods. The RPD is an expression of the relative difference of the two results, taking into account the average concentration for the two samples. RPD is calculated as follows:

$$RPD = \frac{|x_1 - x_2|}{\frac{(x_1 + x_2)}{2}}$$

For all bass samples, the results from EPA Method 1668A typically had a RPD of 67%, and on average, for all sampled species, the RPD was 96% (Table 1 Section A).

In this section, Section 2.0, the difference in results is analyzed in more detail and potential contributing factors are discussed. EPA Method 8082A reports 148 congeners rather than 209 congeners[1] and the methods have different levels of quantitation. It is determined that the effects of these potential factors are minimal, and the main difference between the results from EPA Method 1668A and EPA Method 8082A comes from the extraction method, which is discussed in Section 3.0.

The analysis in this section was organized into three main questions:

Question 1 - How much of the difference in total PCB concentration between the two methods was due to the analyte list of 148 congeners vs. 209 congeners?

Question 2 – How much of the difference in total PCB concentration between the two methods was due to higher detection limits in EPA Method 8082A than EPA Method 1668A?

Question 3 – What are the differences in concentration for individual PCB congeners detected by both methods? What are the reasons for the observed differences?

Comparing the results from EPA Method 8082A and EPA Method 1668A requires detailed analysis to account for coelution of congeners, which is different between the methods. EPA Method 1668A defines the congeners that coelute, and every sample is reported consistently. EPA Method 8082A results report different coeluting congener sets from EPA Method 1668A, and the EPA Method 8082A coelutions are not consistent between samples. Some factors that determine the exact coelutions are sample matrix, PCB concentration, instrumentation, and chromatography column.

Comparisons of the results from both methods must take into account that some congeners and coelutions are consistent and directly comparable between methods, while other congeners are part of coeluting congener sets that overlap between methods. Frequently these overlapping coeluting congener sets also contain congeners that are reported by EPA Method 1668A but not by EPA Method 8082A. To include the coeluting congeners reported by both methods, the congeners not reported by EPA Method 8082A are overcounted by EPA Method 1668A. Due to these overcounted congeners it is impossible to have a direct comparison between the two methods; instead, the coeluting congeners are included in the total, therefore "overcounted", and the total is a more conservative (higher) estimate of the PCB concentration.

Question 1 – *How much of the difference in total PCB concentration between the two methods was due to the analyte list of 148 congeners vs. 209 congeners?*

The concentration of congeners and coeluting sets of congeners reported by EPA Method 1668A but not by EPA Method 8082A was summed and then compared to the total magnitude of difference between the two methods. The difference in the congener list accounted for, on average, no more than 10% of the total PCB concentration detected using EPA Method 1668A (Table 1 Section B). The 10% is a conservative estimate due to overcounted congeners in EPA Method 1668A. The difference in the list of

[1] ERDC's EPA Method 8082A analysis was modified to include 148 congeners instead of the 19 congeners originally in the method, and addition of other congeners to the method is allowed under method section 1.4. Congeners not reported by ERDC's EPA Method 8082A analysis: 1, 2, 3, 11, 21, 23, 30, 36, 38, 39, 43, 50, 55, 57, 58, 61, 62, 65, 68, 72, 76, 79, 80, 86, 88, 89, 94, 96, 98, 102, 106, 108, 109, 111, 112, 113, 116, 120, 125, 127, 133, 139, 140, 143, 145, 148, 150, 152, 159, 160, 161, 162, 166, 168, 169, 181, 182, 186, 188, 198, and 204.

reported congeners is not the primary cause for differences in the total PCB congeners reported by the two methods.

As a second line of evidence, the sum of congeners for the list of 148 congeners as reported by the two analytical methods was compared. Total PCB concentration for the list of 148 congeners as reported by EPA Method 1668A was typically a factor of 1.5 to 2 times greater than the results from EPA Method 8082A for most bass samples, and on average 3 times greater than the results from EPA Method 8082A for all species (Table 1 Section C). For all bass samples, the results from EPA Method 1668A typically had a RPD of 58%, and on average, for all sampled species, the RPD was 87% (Table 1 Section C).

Again, this comparison is a conservative estimate due to overcounted congeners in EPA Method 1668A. The result of this analysis is similar to the comparison of total PCB concentrations (Table 1 Section A), indicating again that the different congener lists is not the primary factor driving the difference between the results.

<u>Question 2 – How much of the difference in total PCB concentration between the two methods was due to higher detection limits in EPA Method 8082A than EPA Method 1668A?</u>

In order to evaluate the effect of the different detection limits, detections reported using EPA Method 1668A that were below the EPA Method 8082A detection limit were summed. The sum is a conservative estimate, since it must necessarily include some coeluting congeners that are detected using EPA Method 8082A. This sum of congeners detected by EPA Method 1668A but not by EPA Method 8082 varies by sample and is typically < 1% of the total sample PCB concentration or less for most bass, and on average 1.3% of the total sample PCB concentration considering all samples (Table 1 Section D). This 1.3% contribution to the EPA Method 1668A reported concentration is not enough to explain the overall difference between the results from EPA Method 1668A and EPA Method 8082A, indicating that the different detection limits are not the primary cause driving the difference between the results. For samples with lower overall PCB concentrations, the contribution of the different detection limits may be greater, but for these particular samples the contribution is still quite low – for the five samples of lowest concentration, all less than 20 µg/kg as analyzed by EPA Method 1668A, the average contribution is only 1.7%.

<u>Question 3 - What is are the differences in concentration for individual PCB congeners detected by both methods? What are the reasons for the observed differences?</u>

The comparison of individual congeners detected by both methods is complicated by the coeluting congeners sets that vary between EPA Method 1668A and EPA Method 8082A. In order to gain a more detailed picture of differences between congeners, the concentrations of congeners and coeluting congeners sets that contribute to the top-90% of overall PCB concentration were analyzed individually. For each congener or coeluting congener set, the average concentration across all samples for all tissue types was compared for the two methods. These comparisons are conservative estimates because there are coeluting congeners included in EPA Method 1668A that are not included in the EPA Method 8082A analysis. These are identified in the table, where PCB congener numbers listed in parentheses denote congeners reported by EPA Method 1668A and not reported by EPA Method 8082A (Table 2).

On average, the results from EPA Method 1668A are a factor of two times greater than the results from EPA Method 8082A when considered per congener or coeluting congener set (Table 2). This difference is not fully accounted for by the congener lists reported by the two methods or the lower detection limits

for EPA Method 1668A. A comparison of the two analytical methods and the potential impacts on the reported PCB concentrations was evaluated in more detail and is presented in the next section.

3.0 Differences in Laboratory Procedures and the Effect on Reported Results

EPA Method 8082A Preparation, Cleanup, and Analysis Procedures

ERDC staff homogenized the bass (whole-body), clams (shucked, free of sediment), or crayfish (whole-body), blending to a paste. Next, ERDC staff performed ultrasonic extraction according to EPA Method 3550C, modified to increase the extraction time by using both bath and probe sonication. The weighed tissue homogenate was mixed with hydromatrix as a drying agent, solvent was added, and the mixture was probe sonicated for 9 minutes at 50% duty cycle with the probe set at 40% power. After probe sonication, the extraction vials were capped and placed in a temperature controlled ultrasonic bath for 18 hours (following the procedure used for explosives extraction). The extract was filtered through sodium sulfate to remove water and tissue residue followed by solvent exchange. ERDC staff performed gel permeation chromatography (GPC) according to EPA Method 3640A to primarily remove lipids from the solvent extract. ERDC staff performed additional cleanup using sulfuric acid according to EPA Method 3665A, and no other clean up procedures were used for PCB congener analysis (Fluorosil cleanup was used after GPC analysis prior to pesticide analysis). ERDC staff then performed the analysis using GC-ECD according to modified EPA Method 8082A. The GC primary column was an RTX-5MS column with 0.25 mm inner diameter and the secondary column was an RTX-35 with 0.25 mm inner diameter.

EPA Method 1668A Preparation, Cleanup, and Analysis Procedures

Eurofins staff received subsets of the homogenized samples from ERDC. All preparation and cleanup steps performed by Eurofins staff are written into the analysis method of EPA Method 1668A, with the general EPA method that is analogous to that section of the procedure listed in parentheses after each step. Eurofins staff performed Soxhlet extraction (EPA Method 3540C), gel permeation chromatography (GPC) to separate lipids (EPA Method 3640A), cleaned up the samples with sulfuric acid (EPA Method 3665A) and performed a second sample cleanup with silica gel (EPA Method 3630C). Eurofins staff then performed the analysis using GC-MS according to EPA Method 1668A. The GC column was an RTX-5 column with 0.32 mm inner diameter.

Extraction Appears to be the Significant Difference

The significant difference between the EPA Method 8082A and EPA Method 1668A results appears to be the extraction step. ERDC staff used ultrasonic extraction for EPA Method 8082A and Eurofins staff used Soxhlet extraction for EPA Method 1668A. EPA Method 3550C for ultrasonic extraction contains the following text in Section 1.4: “Because of the limited contact time between the solvent and the sample, ultrasonic extraction may not be as rigorous as other extraction methods for soils/solids. Therefore, it is critical that the method (including the manufacturer's instructions) be followed explicitly, in order to achieve the maximum extraction efficiency. See Sec. 11.0 for a discussion of the critical aspects of the extraction procedure. Consult the manufacturer's instructions regarding specific operational settings.” ERDC staff followed EPA Method 3550C and used a modified procedure that increased the length of extraction time by adding a bath extraction step for 18 hours, and the critical aspects included in the method’s Section 11.0 discussion were followed.

USACE staff surveyed four DoD ELAP-accredited laboratories to determine what extraction procedure those laboratories used during fish tissue analysis according to EPA Method 8082A. Two of the laboratories responded and confirmed that they also use ultrasonic extraction according to EPA Method 3550C. One laboratory responded that they do not perform EPA Method 8082A for PCBs in tissue, and one laboratory did not respond. Based on this survey, it appears that use of ultrasonic extraction according to EPA Method 3550C is an accepted method in commercial laboratories when performing fish tissue analysis according to EPA Method 8082A.

The analysis method, other than the extraction step, does not appear to cause the difference between EPA Method 8082A and EPA Method 1668A results, because the surrogate sample recoveries are typically acceptable in samples from both laboratories. In both cases, laboratory staff added surrogates to the sample homogenate, so the surrogates were carried through all preparation, cleanup, and analysis steps. If differences in the analysis method, other than the extraction step, were the factor that caused low EPA Method 8082A results compared to EPA Method 1668A results, then the surrogate recovery for EPA Method 8082A would be expected to also be typically low, which was not the case. In the EPA Method 8082A bass results, 12 samples out of 80 overall bass samples (15%), were flagged for potential low bias due to low surrogate recovery, and one sample (1%) was flagged for potential high bias due to high surrogate recovery (Table 4). In the EPA Method 8082A clam results, no samples out of overall 104 clam samples (0%) were flagged for potential low bias and 5 samples (5%) were flagged for potential high bias due to high surrogate recovery (Table 5). In the EPA Method 8082A crayfish results, one sample out overall 40 crayfish samples (3%) was flagged for potential low bias due to low surrogate recovery (Table 6). In the subset of 24 total bass, clam, and crayfish samples analyzed by EPA Method 1668A, no surrogate recoveries were low or high compared to their limits.

4.0 Conclusions

The results from EPA Method 1668A are typically a factor of 1.5 to 2 times greater than the results from EPA Method 8082A when comparing total PCB concentrations of the higher concentration bass samples, varying by sample such that the results from EPA Method 1668A are on average 3 times greater than the results from EPA Method 8082A when considering all samples of all tissue types, independent of overall concentration. When isolating further to consider the difference per congener or coeluting congener set, on average, the results from EPA Method 1668A are a factor of two times greater than the results from EPA Method 8082A. Less than 10% of the difference in total PCBs appears to be associated with the difference in the list of congeners for the two methods. An additional 1.3% of the difference is associated with the lower detection limits achieved by EPA Method 1668A. Extraction efficiency appears to be the primary driver for the remainder of the differences observed in EPA Method 8082A and EPA Method 1668A results. Surrogate recoveries demonstrate that there is not a significant analytical or preparatory issue for either dataset.

5.0 References

USACE, 2020a. Final Work Plan with Quality Assurance Project Plan for Clam Sampling at River Operable Unit, Bradford Island, Cascade Locks, Oregon. September 18, 2020.

USACE, 2020b. Final Work Plan with Quality Assurance Project Plan for Smallmouth Bass Acoustic Telemetry and Tissue Sampling and Crayfish Tissue Sampling at River Operable Unit, Bradford Island, Cascade Locks, Oregon. August 14, 2020

Table 1. Comparison of EPA Method 8082A Results and EPA Method 1668A Results by Sample

Sample	Matrix	A) Reported Total PCB Concentration				B) PCB Concentration NOT Reported by EPA Method 8082A		C) Concentration of Congeners and Coeluting Sets Limited to Analytes Reported by EPA Method 8082A			D) PCB Concentration Reported by EPA Method 1668A for Congeners and Coeluting Sets Below the EPA Method 8082A Detection Limit	
		Total PCB Sample Concentration by EPA Method 8082A	Total PCB Sample Concentration by EPA Method 1668A	EPA Method Concentration Ratio 1668A / 8082A	Total PCB Sample Concentration RPD	Concentration Sum for Congeners and Coeluting Sets Reported by EPA Method 1668A But NOT EPA Method 8082A	Percent of EPA Method 1668A Reported Total	Sum of Detections on EPA Method 8082A Analyte List Reported by EPA Method 1668A	EPA Method Concentration Ratio 1668A / 8082A	EPA Method 8082A Analyte List PCB Concentration RPD	Sum of Detections Reported by EPA Method 1668A below the EPA Method 8082A Detection Limit	Percent of EPA Method 1668A Reported Total
SB1004	Bass	342	621	1.82	58%	59.8	10%	561	1.64	49%	2.07	0.33%
SB1017	Bass	8.23	13.8	1.68	51%	1.19	9%	12.7	1.54	42%	0.187	1.3%
SB2003	Bass	7.89	11.2	1.42	35%	0.991	9%	10.2	1.30	26%	0.142	1.3%
SB2007 (Ave)	Bass	11588	21000	1.81	58%	2099	10%	18901	1.63	48%	89.2	0.42%
SB3001	Bass	7649	12641	1.65	49%	1059	8%	11582	1.51	41%	57.0	0.45%
SB3015	Bass	2236	12641	5.65	140%	1059	8%	11582	5.18	135%	57.0	0.45%
SB3024 (Ave)	Bass	5955	8964	1.51	40%	739	8%	8224	1.38	32%	47.7	0.53%
SB3025	Bass	2111	5079	2.41	83%	366	7%	4713	2.23	76%	22.9	0.45%
SB3029	Bass	3668	5982	1.63	48%	492	8%	5490	1.50	40%	52.6	0.88%
SB3034	Bass	933	2982	3.20	105%	487	16%	2495	2.67	91%	21.2	0.71%
BI-25SEP20-DU10-3	Clam	4450	19442	4.37	125%	1980	10%	17462	3.92	119%	553	2.8%
BI-25SEP20-DU10-4	Clam	145	512	3.54	112%	45.5	9%	466	3.22	105%	15	2.9%
BI-25SEP20-REF2-4	Clam	3.93	13.8	3.53	112%	4.06	29%	9.78	2.49	85%	0.389	2.8%
B1-10NOV2020-E-2	Clam	86.9	301	3.47	110%	32.2	11%	269	3.10	102%	6.23	2.1%
B1-10NOV2020-E-3	Clam	92.8	356	3.84	117%	36.7	10%	319	3.44	110%	9.24	2.6%
B1-11NOV2020-D-2	Clam	69.7	229	3.29	107%	25.8	11%	203	2.92	98%	4.7	2.0%
B1-12NOV2020-F-1	Clam	146	592	4.05	121%	58.3	10%	534	3.65	114%	10.3	1.7%
B1-12NOV2020-F-3	Clam	597	3317	5.55	139%	320	10%	2997	5.02	134%	94.5	2.9%
REF-16NOV2020-WA3-2	Clam	4.86	12.2	2.52	86%	4.83	40%	7.40	1.52	42%	0.347	2.8%
CF Comp 21	Crayfish	18.9	72.4	3.84	117%	0.947	1%	71.5	3.79	116%	0.102	0.14%
CF Comp 22	Crayfish	34.2	134	3.92	119%	4.00	3%	130	3.80	117%	0.200	0.15%
CF Comp 23	Crayfish	24.9	102	4.09	121%	2.88	3%	99.0	3.97	120%	0.142	0.14%
CF Comp 25	Crayfish	6.09	23.8	3.91	118%	0.579	2%	23.2	3.81	117%	0.038	0.16%
CF Comp 28	Crayfish	29.8	156	5.22	136%	9.59	6%	146	4.90	132%	0.266	0.17%
	Minimum:	3.93	11.24	1.42	35%	0.579	1%	7.40	1.30	26%	0.0381	0.14%
	Maximum:	11588	21000	5.65	140%	2099	40%	18901	5.18	135%	553	2.9%
	Average:	1675	3967	3.25	96%	370	10%	3596	3.31	87%	43.5	1.3%
	Standard Deviation:	2923	6205	1.27	33%	597	8%	5614	1.22	36%	110	1.0%

Notes:

- Concentration values are in units of µg/kg.
- All calculations ignore non-detected values.
- (Ave) denotes the reported concentrations are an average of the sample and field duplicate results.

Table 2. Comparison of EPA Method 8082A Results and EPA Method 1668A Results by Congener and Coeluting Congeners Sets Contributing to 90% of Overall Sample Concentration for all Matrices

Top-90% of Congeners and Coeluting Sets Contributing to Overall Concentrations	Average Detected Concentrations		EPA Method Average Concentration Ratio 1668A/8082A
	EPA Method 8082A	EPA Method 1668A	
Total PCBs	**1675**	**3888**	**2.32**
PCB Congeners and Coelutions			
PCB 87/97/110/115/119/122/131/134/142/153/184 (86/109/125/143/168)	227	668	2.94
PCB 118 [a]	206	527	2.56
PCB 126/129/138/163/164/178 (160)	190	412	2.17
PCB 105/132	183	239	1.31
PCB 90/101 (113) [a]	136	276	2.04
PCB 95/155	103	153	1.48
PCB 83/99	84.2	205	2.43
PCB 45/51/52	74.6	98.4	1.32
PCB 82/123/147/149/165	59.4	155	2.61
PCB 70/74 (61/76)	58.9	105	1.79
PCB 81/85/117 (116)	55.3	66.2	1.20
PCB 128/174/202 (166)	54.7	72.7	1.33
PCB 156/157/201	50.1	84.4	1.68
PCB 141/179	47.4	34.9	0.735
		Minimum:	0.735
		Maximum:	2.94
		Average:	1.83
		Standard Deviation:	0.623

Notes:

- Concentration values are in units of µg/kg.
- All calculations ignore non-detected values.
- PCB numbers listed in parentheses denote congeners reported by EPA Method 1668A and NOT reported by EPA Method 8082A.
- Reported concentrations that were NOT summed to facilitate cross method comparison are denoted with superscript a.

Table 3. Surrogate Recovery Summary for Bass Samples

Matrix	Sample Delivery Group	Field/Lab Sample Name	Analyte	Flag	Notes
Bass	20H2601	SB1008 (20H2601-15RE1), SB3009 (20H2601-33RE1), SB1010 (20H2601-17RE1)	All analytes	J- (detects); UJ (nondetects)	Surrogate PCB 198 had recoveries below the acceptance limits of 40-125% in samples 20H2601-15RE1, -33RE1, and -17RE1 at 38.6%, 39.2%, and 38.5%, respectively.
Bass	20H2701	SB2007 (20H2701-02RE4)	None	No flags	Surrogates 2,4,5,6-tetrachloro-m-xylene and PCB 198 were diluted out of the sample and not detected.
Bass	20H2701	SB3013 (20H2701-08RE2)	PCB 118	J+ (detects); no flag (nondetects)	Surrogate 2,4,5,6-tetrachloro-m-xylene recovered high (160%) outside control limits (35-125%).
Bass	20I0302/20I0303	SB3023 (20I0302-01RE1), SB2009 (20I0302-03RE2), SB3025 (20I0302-04RE2), SB3022 (20I0302-06RE2), SB1023 (20I0303-01RE1), SB3018 (20I0303-07RE1)	All analytes for the specific analysis number in affected samples. Some higher-concentration analyte results are reported from dilutions and those results are not affected.	J- (detects); UJ (nondetects)	Surrogate PCB 198 recoveries were lower than control limits but ≥ 10%. TMX recoveries were acceptable. The laboratory provided the narrative that late-eluting matrix interferences can suppress the response of PCB 198 and may be the reason for the low recoveries.
Bass	Duplicate analyzed in 20I0302/20I0303. Original sample analyzed in 20H2601.	SB3012 FD (B21F079-DUP1/20H2601-36RE1 source)	All analytes in affected sample	J- (detects); UJ (nondetects)	B21F079-DUP1: Both surrogates, 2,4,5,6-tetrachloro-m-xylene (TMX) and PCB 198, had recoveries that were lower than control limits but ≥ 10%.
Bass	20I1004	SB3027 (20I1004-02RE4), SB3028 (20I1004-03RE4)	PCB 90, 99, 105, 110, 118, 138	J- (detects); UJ (nondetects)	Surrogate 2,4,5,6-tetrachloro-m-xylene had a recovery 28.3% in 20I1004-02RE4, and 30.2% in 20I1004-03RE4, outside the limits of 35-120%. Surrogate PCB 198 had recoveries of 38.9% and 35% in 20I1004-02RE4, and 20I1004-03RE4, respectively, outside the 40-125% limits.
Bass	20I2304	SB3032 (20I2304-09RE3)	All analytes except PCB 118, which was reported from a different dilution (20I2304-09RE4)	J- (detects); UJ (nondetects)	Surrogate PCB 198 had recovery of 24.5% in 20I2304-09RE3, outside the 40-125% limits.

Table 4. Surrogate Recovery Summary for Clam Samples

Matrix	SDG	Sample Affected	Analyte	Flag	Notes
Clams	20J0105	BI-25SEP20-DU10-3 (20J0105-07RE1)	Analytes reported from RE1: PCB 105, 110, 115, 118, 128, 130, 132, 135, 136, 137, 138, 149, 151, 156, 158, 167, 18, 187, 4, 44, 52, 53, 66, 74, 82, 84, 85, 90, 91, 92, 95, 97, 99	J+ (detects); no flag (nondetects)	Surrogate 2,4,5,6-tetrachloro-m-xylene recovery high (131%) outside control limits (35-125%).
Clams	20J0105	25SEP20-DU10-3 (20J0105-07RE2)	PCB 95, 110, 118	No flag	Surrogates 2,4,5,6-tetrachloro-m-xylene and PCB 198 were diluted out of the sample and not detected.
Clams	20J0105	BI-25SEP20-DU10-4 (20J0105-08RE1)	Analytes reported from RE1: PCB 118	J+ (detects); no flag (nondetects)	Surrogate 2,4,5,6-tetrachloro-m-xylene recovery high (143%) outside control limits (35-125%).
Clams	20K3003	B1-12NOV2020-F1 (20K3003-10RE1)	PCB 118 only	J+ (detects); no flag (nondetects)	Surrogate 2,4,5,6-tetrachloro-m-xylene recovery high (129%) outside control limits (35-125%).
Clams	20K3004	B1-12NOV2020-F-3 (20K3004-02RE1)	PCB 97, 99, 105, 110, 118 only	J+ (detects); no flag (nondetects)	Surrogate 2,4,5,6-tetrachloro-m-xylene recovery high (127%) outside control limits (35-125%).

Table 5. Surrogate Recovery Summary for Crayfish Samples

Matrix	SDG	Sample Affected	Analyte	Flag	Notes
Crayfish	20I1003	CF Comp 8 (20I1003-08)	All analytes	J- (detects); UJ (nondetects)	Sample 20I1003-08 had a low recovery of 33.7% for surrogate 2,4,5,6-tetrachloro-m-xylene (TMX).

Appendix I:

Level 2 Data Reports for subset of samples analyzed for 209 PCB Congeners

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

Laboratory Job ID: 140-25780-1
Client Project/Site: USACE ERDC PCB Congeners

For:
U.S. Army Corps of Engineers
3909 Halls Ferry Road
Vicksburg, Mississippi 39180

Attn: Jenifer Netchaev

Ryan Henry

Authorized for release by:
2/8/2022 4:46:28 PM

Ryan Henry, Project Manager I
(865)291-3000
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Dioxin

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
C	The compound co-eluted with other compounds
C108	The compound co-eluted with PCB-108
C110	The compound co-eluted with PCB-110
C12	The compound co-eluted with PCB-12
C128	The compound co-eluted with PCB-128
C129	The compound co-eluted with PCB-129
C134	The compound co-eluted with PCB-134
C135	The compound co-eluted with PCB-135
C139	The compound co-eluted with PCB-139
C147	The compound co-eluted with PCB-147
C153	The compound co-eluted with PCB-153
C156	The compound co-eluted with PCB-156
C171	The compound co-eluted with PCB-171
C18	The compound co-eluted with PCB-18
C180	The compound co-eluted with PCB-180
C183	The compound co-eluted with PCB-183
C198	The compound co-eluted with PCB-198
C20	The compound co-eluted with PCB-20
C21	The compound co-eluted with PCB-21
C26	The compound co-eluted with PCB-26
C40	The compound co-eluted with PCB-40
C43	The compound co-eluted with PCB-43
C44	The compound co-eluted with PCB-44
C45	The compound co-eluted with PCB-45
C49	The compound co-eluted with PCB-49
C50	The compound co-eluted with PCB-50
C59	The compound co-eluted with PCB-59
C61	The compound co-eluted with PCB-61
C83	The compound co-eluted with PCB-83
C85	The compound co-eluted with PCB-85
C86	The compound co-eluted with PCB-86
C88	The compound co-eluted with PCB-88
C90	The compound co-eluted with PCB-90
C93	The compound co-eluted with PCB-93
C98	The compound co-eluted with PCB-98
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 140-25780-1

Laboratory: Eurofins Knoxville

Narrative

Job Narrative
140-25780-1

Receipt
The samples were received on 12/16/2021 at 10:00am and arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.7º C and 2.2º C.

Receipt Exceptions
Improper containers: Received in clear glass, should be amber glass.

21L0901-01 (140-25780-1), 21L0901-01 (140-25780-1[DU]), 21L0901-01 (140-25780-1[MS]), 21L0901-01 (140-25780-1[MSD]), 21L0901-02 (140-25780-2), 21L0902-01 (140-25780-3), 21L0902-01 (140-25780-3[DU]), 21L0902-01 (140-25780-3[MS]), 21L0902-01 (140-25780-3[MSD]), 21L0902-02 (140-25780-4), 21L1003-01 (140-25780-5), 21L1003-02 (140-25780-6), 21L0903-01 (140-25780-7), 21L0903-02 (140-25780-8), 21L0904-01 (140-25780-9), 21L0904-02 (140-25780-10), 21L0906-01 (140-25780-11) and 21L0906-02 (140-25780-12)

The following samples were received outside of holding time: 21L0901-01 (140-25780-1), 21L0901-01 (140-25780-1[DU]), 21L0901-01 (140-25780-1[MS]), 21L0901-01 (140-25780-1[MSD]), 21L0901-02 (140-25780-2), 21L0902-01 (140-25780-3), 21L0902-01 (140-25780-3[DU]), 21L0902-01 (140-25780-3[MS]), 21L0902-01 (140-25780-3[MSD]), 21L0902-02 (140-25780-4), 21L1003-01 (140-25780-5), 21L1003-02 (140-25780-6), 21L0903-01 (140-25780-7), 21L0903-02 (140-25780-8), 21L0904-01 (140-25780-9), 21L0904-02 (140-25780-10), 21L0906-01 (140-25780-11) and 21L0906-02 (140-25780-12).

HRMS
Methods 0010/1668A, 1613B, 1668A, 1668C, 23, 8290A, Split, TO-9A: The identification of samples and analytes for which manual integrations were necessary is listed in the manual integration summary.

Method 1668A: One or more ion abundance ratios are outside criteria for the Isotope Dilution Analyte (IDA) associated with the following samples: 21L0902-01 (140-25780-3), 21L0902-01 (140-25780-3[DU]), 21L0902-01 (140-25780-3[MS]), 21L0902-01 (140-25780-3[MSD]) and 21L0903-02 (140-25780-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Methods 1668_Sep_2L, 3540C, 3550C, 8290, Back Half Prep, Concentration, HRMS-Sepf, HRMS-Sox, HRMS-Soxthm, Split: The following samples went through Gel-Permeation Cleanup procedure, based on EPA method 3640A:

21L0901-01 (140-25780-1), 21L0901-01 (140-25780-1[DU]), 21L0901-01 (140-25780-1[MS]), 21L0901-01 (140-25780-1[MSD]), 21L0901-02 (140-25780-2), 21L0902-01 (140-25780-3), 21L0902-01 (140-25780-3[DU]), 21L0902-01 (140-25780-3[MS]), 21L0902-01 (140-25780-3[MSD]), 21L0902-02 (140-25780-4), 21L1003-01 (140-25780-5), 21L1003-02 (140-25780-6), 21L0903-01 (140-25780-7), 21L0903-02 (140-25780-8), 21L0904-01 (140-25780-9), 21L0904-02 (140-25780-10), 21L0906-01 (140-25780-11) and 21L0906-02 (140-25780-12)

Method Split: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: added 250uL of recovery standard to the samples that were protocol 3 (A-7,A-8, A-9 & A-12) instead of 100uL of recovery standard. Sample results are not affected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-25780-1	21L0901-01	Tissue	08/26/20 11:10	12/16/21 10:00
140-25780-2	21L0901-02	Tissue	08/24/20 11:50	12/16/21 10:00
140-25780-3	21L0902-01	Tissue	09/02/20 10:44	12/16/21 10:00
140-25780-4	21L0902-02	Tissue	09/09/20 09:30	12/16/21 10:00
140-25780-5	21L1003-01	Tissue	09/09/20 12:00	12/16/21 10:00
140-25780-6	21L1003-02	Tissue	11/11/20 12:00	12/16/21 10:00
140-25780-7	21L0903-01	Tissue	08/26/20 08:08	12/16/21 10:00
140-25780-8	21L0903-02	Tissue	09/02/20 11:02	12/16/21 10:00
140-25780-9	21L0904-01	Tissue	09/11/20 10:01	12/16/21 10:00
140-25780-10	21L0904-02	Tissue	08/24/20 14:48	12/16/21 10:00
140-25780-11	21L0906-01	Tissue	09/25/20 12:00	12/16/21 10:00
140-25780-12	21L0906-02	Tissue	11/12/20 12:00	12/16/21 10:00

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0901-01

Date Collected: 08/26/20 11:10
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-1

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND	H H3	4.8	0.075	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-2	ND	H H3	4.8	0.080	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-3	ND	H H3	4.8	0.083	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-4	**1.9**	**J q H H3**	9.5	0.24	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-5	ND	H H3	4.8	0.22	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-6	ND	H H3	4.8	0.18	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-7	ND	H H3	4.8	0.21	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-8	**0.99**	**J q H H3**	9.5	0.17	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-9	**0.62**	**J q H H3**	4.8	0.19	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-10	ND	H H3	4.8	0.22	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-11	**1.4**	**J H H3 B**	9.5	0.19	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-12	ND	C H H3	9.5	0.21	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-13	ND	C12 H H3	9.5	0.21	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-14	ND	H H3	4.8	0.21	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-15	**1.3**	**J q H H3**	4.8	0.21	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-16	**0.75**	**J q H H3**	4.8	0.23	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-17	**7.3**	**H H3**	4.8	0.23	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-18	**4.7**	**J q C H H3 B**	9.5	0.16	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-19	**2.1**	**J H H3**	4.8	0.21	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-20	**13**	**C H H3 B**	9.5	0.22	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-21	**1.5**	**J C H H3**	9.5	0.23	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-22	**0.47**	**J q H H3**	4.8	0.21	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-23	ND	H H3	4.8	0.24	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-24	ND	H H3	4.8	0.16	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-25	**1.5**	**J H H3**	4.8	0.19	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-26	**4.1**	**J C H H3**	9.5	0.24	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-27	**2.0**	**J H H3**	4.8	0.16	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-28	**13**	**C20 H H3 E**	9.5	0.22	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-29	**4.1**	**J C26 H H3**	9.5	0.24	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-30	**4.7**	**J q C18 H H3 B**	9.5	0.16	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-31	**9.8**	**H H3 B**	9.5	0.20	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-32	**3.5**	**J H H3 B**	4.8	0.14	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-33	**1.5**	**J C21 H H3**	9.5	0.23	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-34	ND	H H3	4.8	0.25	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-35	ND	H H3	4.8	0.23	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-36	ND	H H3	4.8	0.20	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-37	**1.8**	**J H H3**	4.8	0.23	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-38	ND	H H3	4.8	0.22	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-39	ND	H H3	4.8	0.22	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-40	**27**	**C H H3**	14	2.6	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-41	**27**	**C40 H H3**	14	2.6	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-42	**16**	**H H3**	4.8	2.8	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-43	**6.0**	**J C H H3**	9.5	2.2	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-44	**190**	**C H H3 B**	14	2.3	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-45	**4.6**	**J C H H3**	9.5	2.8	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-46	ND	H H3	4.8	3.3	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-47	**190**	**C44 H H3 E**	14	2.3	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-48	**7.7**	**H H3**	4.8	2.7	ng/g		01/17/22 11:38	02/06/22 05:41	1

Client Sample ID: 21L0901-01

Date Collected: 08/26/20 11:10
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-1

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-49	180	C H H3	9.5	2.3	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-50	12	C H H3	9.5	2.5	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-51	4.6	J C45 H H3	9.5	2.8	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-52	630	H H3	4.8	2.4	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-53	12	C50 H H3	9.5	2.5	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-54	0.18	J q H H3	4.8	0.059	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-55	5.7	q H H3	4.8	1.7	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-56	37	H H3	4.8	1.7	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-57	ND	H H3	4.8	1.9	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-58	ND	H H3	4.8	1.7	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-59	3.2	J q C H H3	14	2.0	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-60	50	H H3	4.8	2.1	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-61	820	C H H3	19	1.7	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-62	3.2	J q C59 H H3	14	2.0	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-63	15	H H3	4.8	2.0	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-64	47	H H3	4.8	1.9	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-65	190	C44 H H3 B	14	2.3	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-66	300	H H3	4.8	1.7	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-67	ND	H H3	4.8	1.6	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-68	ND	H H3	4.8	1.8	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-69	180	C49 H H3	9.5	2.3	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-70	820	C61 H H3	19	1.7	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-71	27	C40 H H3	14	2.6	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-72	ND	H H3	4.8	1.7	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-73	6.0	J C43 H H3	9.5	2.2	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-74	820	C61 H H3	19	1.7	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-75	3.2	J q C59 H H3	14	2.0	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-76	820	C61 H H3	19	1.7	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-77	4.2	J H H3	4.8	1.9	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-78	ND	H H3	4.8	1.7	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-79	12	H H3	4.8	1.5	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-80	ND	H H3	4.8	1.8	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-81	ND	H H3	4.8	2.2	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-82	130	H H3	4.8	0.36	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-83	1200	C H H3	9.5	0.35	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-84	180	H H3 B	4.8	0.45	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-85	420	C H H3	14	0.32	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-86	950	C H H3	29	0.30	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-87	950	C86 H H3	29	0.30	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-88	130	C H H3	9.5	0.40	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-89	4.9	H H3	4.8	0.37	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-90	1500	C H H3	14	0.33	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-91	130	C88 H H3	9.5	0.40	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-92	250	H H3	4.8	0.41	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-93	7.9	J C H H3	9.5	0.40	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-94	2.0	J H H3	4.8	0.44	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-95	730	H H3	4.8	0.39	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-96	2.4	J H H3	4.8	0.27	ng/g		01/17/22 11:38	02/06/22 05:41	1

Client Sample ID: 21L0901-01

Date Collected: 08/26/20 11:10
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-1

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-97	950	C86 H H3	29	0.30	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-98	16	C H H3	9.5	0.34	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-99	1200	C83 H H3	9.5	0.35	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-100	7.9	J C93 H H3	9.5	0.40	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-101	1500	C90 H H3	14	0.33	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-102	16	C98 H H3	9.5	0.34	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-103	4.6	J q H H3	4.8	0.37	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-104	ND	H H3	4.8	0.30	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-105	1200	H H3	4.8	2.6	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-106	ND	H H3	4.8	2.3	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-107	170	H H3	4.8	2.2	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-108	83	C H H3	9.5	2.5	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-109	950	C86 H H3	29	0.30	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-110	1000	C H H3	9.5	0.24	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-111	ND	H H3	4.8	0.26	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-112	10	H H3	4.8	0.23	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-113	1500	C90 H H3	14	0.33	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-114	100	H H3	4.8	2.6	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-115	1000	C110 H H3	9.5	0.24	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-116	420	C85 H H3	14	0.32	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-117	420	C85 H H3	14	0.32	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-118	2800	H H3 B	4.8	2.4	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-119	950	C86 H H3	29	0.30	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-120	ND	H H3	4.8	0.22	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-121	ND	H H3	4.8	0.24	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-122	29	H H3	4.8	3.0	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-123	61	H H3	4.8	2.7	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-124	83	C108 H H3	9.5	2.5	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-125	950	C86 H H3	29	0.30	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-126	ND	H H3	4.8	2.4	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-127	6.1	H H3	4.8	2.3	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-128	370	C H H3	9.5	0.47	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-129	2100	C H H3 B	19	0.50	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-130	150	H H3	4.8	0.68	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-131	24	H H3	4.8	0.62	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-132	280	H H3	4.8	0.59	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-133	23	H H3	4.8	0.53	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-134	83	C H H3	9.5	0.61	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-135	240	C H H3 B	9.5	0.15	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-136	68	H H3 B	4.8	0.11	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-137	230	H H3	4.8	0.57	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-138	2100	C129 H H3 B	19	0.50	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-139	36	C H H3	9.5	0.51	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-140	36	C139 H H3	9.5	0.51	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-141	200	H H3	4.8	0.55	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-142	ND	H H3	4.8	0.60	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-143	83	C134 H H3	9.5	0.61	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-144	59	H H3	4.8	0.15	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-145	0.47	J q H H3	4.8	0.10	ng/g		01/17/22 11:38	02/06/22 05:41	1

Client Sample ID: 21L0901-01

Date Collected: 08/26/20 11:10
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-1

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-146	240	H H3	4.8	0.45	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-147	700	C H H3 B	9.5	0.48	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-148	0.38	J q H H3	4.8	0.15	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-149	700	C147 H H3 B	9.5	0.48	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-150	0.82	J q H H3	4.8	0.11	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-151	240	C135 H H3 B	9.5	0.15	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-152	0.49	J H H3 B	4.8	0.097	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-153	1500	C H H3 B	9.5	0.42	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-154	9.0	H H3	4.8	0.13	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-155	ND	H H3	4.8	0.12	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-156	480	C H H3 B	9.5	0.54	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-157	480	C156 H H3 B	9.5	0.54	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-158	220	H H3	4.8	0.40	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-159	ND	H H3	4.8	0.35	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-160	2100	C129 H H3 B	19	0.50	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-161	ND	H H3	4.8	0.38	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-162	11	H H3	4.8	0.38	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-163	2100	C129 H H3 B	19	0.50	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-164	100	H H3	4.8	0.40	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-165	ND	H H3	4.8	0.46	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-166	370	C128 H H3	9.5	0.47	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-167	140	H H3	4.8	0.34	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-168	1500	C153 H H3 B	9.5	0.42	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-169	ND	H H3	4.8	0.30	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-170	160	H H3	4.8	0.079	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-171	32	C H H3	9.5	0.077	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-172	18	H H3 B	4.8	0.076	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-173	32	C171 H H3	9.5	0.077	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-174	58	H H3	4.8	0.069	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-175	4.0	J H H3	4.8	0.076	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-176	6.5	H H3	4.8	0.057	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-177	45	H H3 B	4.8	0.070	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-178	13	H H3	4.8	0.076	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-179	8.6	H H3 B	4.8	0.048	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-180	250	C H H3 B	9.5	0.061	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-181	4.9	q H H3 B	4.8	0.067	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-182	1.1	J q H H3	4.8	0.063	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-183	58	C H H3 B	9.5	0.072	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-184	ND	H H3	4.8	0.053	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-185	58	C183 H H3 B	9.5	0.072	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-186	ND	H H3	4.8	0.047	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-187	88	H H3	4.8	0.061	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-188	ND	H H3	4.8	0.052	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-189	11	H H3 B	4.8	0.16	ng/g		01/17/22 11:38	02/06/22 05:41	1

Client Sample ID: 21L0901-01

Date Collected: 08/26/20 11:10
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-1

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-190	**26**	**H H3**	4.8	0.059	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-191	**6.7**	**H H3**	4.8	0.056	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-192	ND	H H3	4.8	0.051	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-193	**250**	**C180 H H3 B**	9.5	0.061	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-194	**15**	**H H3**	4.8	0.19	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-195	**5.7**	**H H3**	4.8	0.21	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-196	**7.1**	**H H3**	4.8	0.16	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-197	**0.39**	**J q H H3**	4.8	0.12	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-198	**13**	**C H H3**	9.5	0.14	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-199	**13**	**C198 H H3**	9.5	0.14	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-200	**0.64**	**J q H H3**	4.8	0.12	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-201	**1.2**	**J q H H3**	4.8	0.13	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-202	**1.5**	**J H H3**	4.8	0.12	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-203	**5.0**	**q H H3 B**	4.8	0.13	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-204	ND	H H3	4.8	0.11	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-205	**0.55**	**J q H H3**	4.8	0.17	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-206	**3.5**	**J q H H3**	4.8	0.58	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-207	ND	H H3	4.8	0.50	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-208	ND	H H3	4.8	0.49	ng/g		01/17/22 11:38	02/06/22 05:41	1
PCB-209	**0.97**	**J H H3**	4.8	0.032	ng/g		01/17/22 11:38	02/06/22 05:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*64*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-3L	*65*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-4L	*81*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-15L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-19L	*81*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-37L	*86*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-54L	*89*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-77L	*87*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-81L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-104L	*83*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-105L	*90*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-114L	*88*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-118L	*91*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-123L	*90*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-126L	*91*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-155L	*90*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-156L	*94*	*C*	*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-157L	*94*	*C156*	*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-167L	*92*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-169L	*93*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-170L	*91*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-188L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-189L	*104*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-202L	*107*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-205L	*94*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-206L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*
PCB-208L	*90*		*30 - 140*	*01/17/22 11:38*	*02/06/22 05:41*	*1*

Client Sample ID: 21L0901-01

Date Collected: 08/26/20 11:10
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-1

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-209L	84		30 - 140	01/17/22 11:38	02/06/22 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	83		40 - 125	01/17/22 11:38	02/06/22 05:41	1
PCB-111L	95		40 - 125	01/17/22 11:38	02/06/22 05:41	1
PCB-178L	96		40 - 125	01/17/22 11:38	02/06/22 05:41	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0901-02

Date Collected: 08/24/20 11:50
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-2

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND	H H3	4.6	0.078	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-2	**0.15**	**J q H H3**	4.6	0.084	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-3	ND	H H3	4.6	0.089	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-4	ND	H H3	9.3	0.18	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-5	ND	H H3	4.6	0.17	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-6	ND	H H3	4.6	0.13	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-7	ND	H H3	4.6	0.16	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-8	**0.67**	**J q H H3**	9.3	0.13	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-9	ND	H H3	4.6	0.14	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-10	ND	H H3	4.6	0.16	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-11	**1.3**	**J H H3 B**	9.3	0.14	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-12	ND	H H3 C	9.3	0.15	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-13	ND	H H3 C12	9.3	0.15	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-14	ND	H H3	4.6	0.16	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-15	**1.9**	**J H H3**	4.6	0.16	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-16	**0.32**	**J q H H3**	4.6	0.15	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-17	**4.1**	**J H H3**	4.6	0.15	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-18	**3.3**	**J H H3 C B**	9.3	0.10	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-19	**0.81**	**J H H3**	4.6	0.14	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-20	**16**	**H H3 C B**	9.3	0.22	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-21	**1.3**	**J q H H3 C**	9.3	0.23	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-22	**0.39**	**J q H H3**	4.6	0.21	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-23	ND	H H3	4.6	0.24	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-24	ND	H H3	4.6	0.10	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-25	**1.3**	**J H H3**	4.6	0.19	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-26	**3.0**	**J H H3 C**	9.3	0.24	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-27	**1.3**	**J H H3**	4.6	0.10	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-28	**16**	**H H3 C20 E**	9.3	0.22	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-29	**3.0**	**J H H3 C26**	9.3	0.24	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-30	**3.3**	**J H H3 C18 B**	9.3	0.10	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-31	**5.4**	**J H H3 B**	9.3	0.20	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-32	**2.0**	**J H H3 B**	4.6	0.092	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-33	**1.3**	**J q H H3 C21**	9.3	0.23	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-34	ND	H H3	4.6	0.25	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-35	ND	H H3	4.6	0.23	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-36	ND	H H3	4.6	0.20	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-37	**3.6**	**J H H3**	4.6	0.23	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-38	ND	H H3	4.6	0.22	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-39	ND	H H3	4.6	0.22	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-40	**14**	**H H3 C**	14	1.9	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-41	**14**	**H H3 C40**	14	1.9	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-42	**6.6**	**H H3**	4.6	2.1	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-43	**4.2**	**J H H3 C**	9.3	1.6	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-44	**90**	**H H3 C B**	14	1.7	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-45	**2.1**	**J q H H3 C**	9.3	2.1	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-46	ND	H H3	4.6	2.4	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-47	**90**	**H H3 C44 E**	14	1.7	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-48	**4.9**	**H H3**	4.6	2.0	ng/g		01/17/22 11:38	02/06/22 04:39	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0901-02

Date Collected: 08/24/20 11:50
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-2

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-49	79	H H3 C	9.3	1.7	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-50	6.4	J H H3 C	9.3	1.9	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-51	2.1	J q H H3 C45	9.3	2.1	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-52	240	H H3	4.6	1.8	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-53	6.4	J H H3 C5(	9.3	1.9	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-54	ND	H H3	4.6	0.057	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-55	3.4	J H H3	4.6	1.2	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-56	14	H H3	4.6	1.3	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-57	ND	H H3	4.6	1.4	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-58	ND	H H3	4.6	1.2	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-59	ND	H H3 C	14	1.5	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-60	26	H H3	4.6	1.5	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-61	340	H H3 C	19	1.3	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-62	ND	H H3 C59	14	1.5	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-63	9.0	H H3	4.6	1.4	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-64	22	H H3	4.6	1.4	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-65	90	H H3 C44 E	14	1.7	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-66	170	H H3	4.6	1.3	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-67	ND	H H3	4.6	1.2	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-68	ND	H H3	4.6	1.3	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-69	79	H H3 C49	9.3	1.7	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-70	340	H H3 C61	19	1.3	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-71	14	H H3 C40	14	1.9	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-72	ND	H H3	4.6	1.3	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-73	4.2	J H H3 C43	9.3	1.6	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-74	340	H H3 C61	19	1.3	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-75	ND	H H3 C59	14	1.5	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-76	340	H H3 C61	19	1.3	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-77	3.8	J H H3	4.6	1.4	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-78	ND	H H3	4.6	1.3	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-79	5.6	H H3	4.6	1.1	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-80	ND	H H3	4.6	1.3	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-81	ND	H H3	4.6	1.6	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-82	61	H H3	4.6	0.34	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-83	730	H H3 C	9.3	0.33	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-84	84	H H3 B	4.6	0.42	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-85	240	H H3 C	14	0.30	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-86	510	H H3 C	28	0.28	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-87	510	H H3 C86	28	0.28	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-88	65	H H3 C	9.3	0.37	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-89	ND	H H3	4.6	0.35	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-90	830	H H3 C	14	0.31	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-91	65	H H3 C88	9.3	0.37	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-92	120	H H3	4.6	0.38	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-93	5.5	J H H3 C	9.3	0.38	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-94	ND	H H3	4.6	0.42	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-95	330	H H3	4.6	0.37	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-96	1.2	J H H3	4.6	0.25	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-97	510	H H3 C86	28	0.28	ng/g		01/17/22 11:38	02/06/22 04:39	1

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0901-02
Date Collected: 08/24/20 11:50
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-2
Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-98	8.4	J H H3 C	9.3	0.32	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-99	730	H H3 C83	9.3	0.33	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-100	5.5	J H H3 C93	9.3	0.38	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-101	830	H H3 C90	14	0.31	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-102	8.4	J H H3 C98	9.3	0.32	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-103	3.1	J H H3	4.6	0.35	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-104	ND	H H3	4.6	0.28	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-105	710	H H3	4.6	1.5	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-106	ND	H H3	4.6	1.4	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-107	110	H H3	4.6	1.3	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-108	43	H H3 C	9.3	1.5	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-109	510	H H3 C86	28	0.28	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-110	540	H H3 C	9.3	0.23	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-111	ND	H H3	4.6	0.24	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-112	4.0	J H H3	4.6	0.22	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-113	830	H H3 C90	14	0.31	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-114	64	H H3	4.6	1.5	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-115	540	H H3 C110	9.3	0.23	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-116	240	H H3 C85	14	0.30	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-117	240	H H3 C85	14	0.30	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-118	1900	H H3 B	4.6	1.4	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-119	510	H H3 C86	28	0.28	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-120	ND	H H3	4.6	0.20	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-121	ND	H H3	4.6	0.23	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-122	20	q H H3	4.6	1.8	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-123	35	q H H3	4.6	1.6	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-124	43	H H3 C108	9.3	1.5	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-125	510	H H3 C86	28	0.28	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-126	ND	H H3	4.6	1.4	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-127	4.7	H H3	4.6	1.4	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-128	220	H H3 C	9.3	0.42	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-129	1400	H H3 C B	19	0.45	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-130	99	H H3	4.6	0.61	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-131	12	H H3	4.6	0.55	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-132	160	H H3	4.6	0.52	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-133	15	H H3	4.6	0.47	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-134	46	H H3 C	9.3	0.55	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-135	130	H H3 C B	9.3	0.080	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-136	40	H H3 B	4.6	0.060	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-137	140	H H3	4.6	0.51	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-138	1400	H H3 C129 B	19	0.45	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-139	22	H H3 C	9.3	0.46	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-140	22	H H3 C139	9.3	0.46	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-141	120	H H3	4.6	0.49	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-142	ND	H H3	4.6	0.54	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-143	46	H H3 C134	9.3	0.55	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-144	34	H H3	4.6	0.081	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-145	0.49	J q H H3	4.6	0.054	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-146	160	H H3	4.6	0.41	ng/g		01/17/22 11:38	02/06/22 04:39	1

Client Sample ID: 21L0901-02

Date Collected: 08/24/20 11:50
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-2

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-147	360	H H3 C B	9.3	0.43	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-148	0.45	J q H H3	4.6	0.078	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-149	360	H H3 C147 B	9.3	0.43	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-150	0.62	J H H3	4.6	0.059	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-151	130	H H3 C135 B	9.3	0.080	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-152	0.55	J H H3 B	4.6	0.051	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-153	980	H H3 C B	9.3	0.38	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-154	6.0	H H3	4.6	0.071	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-155	0.095	J q H H3	4.6	0.063	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-156	320	H H3 C B	9.3	0.49	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-157	320	H H3 C156 B	9.3	0.49	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-158	140	H H3	4.6	0.36	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-159	ND	H H3	4.6	0.31	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-160	1400	H H3 C129 B	19	0.45	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-161	ND	H H3	4.6	0.34	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-162	6.8	q H H3	4.6	0.34	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-163	1400	H H3 C129 B	19	0.45	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-164	62	H H3	4.6	0.36	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-165	ND	H H3	4.6	0.41	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-166	220	H H3 C128	9.3	0.42	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-167	80	H H3	4.6	0.29	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-168	980	H H3 C153 B	9.3	0.38	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-169	ND	H H3	4.6	0.27	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-170	110	H H3	4.6	0.11	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-171	21	H H3 C	9.3	0.11	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-172	13	H H3 B	4.6	0.10	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-173	21	H H3 C171	9.3	0.11	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-174	36	H H3	4.6	0.096	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-175	2.5	J H H3	4.6	0.11	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-176	4.4	J H H3	4.6	0.079	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-177	31	H H3 B	4.6	0.096	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-178	9.4	H H3	4.6	0.10	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-179	6.8	H H3 B	4.6	0.067	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-180	160	H H3 C B	9.3	0.085	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-181	3.5	J H H3 B	4.6	0.092	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-182	0.79	J q H H3	4.6	0.087	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-183	43	H H3 C B	9.3	0.10	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-184	0.075	J q H H3	4.6	0.073	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-185	43	H H3 C183 B	9.3	0.10	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-186	ND	H H3	4.6	0.065	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-187	59	H H3	4.6	0.085	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-188	0.26	J H H3	4.6	0.073	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-189	7.4	H H3 B	4.6	0.16	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-190	19	H H3	4.6	0.081	ng/g		01/17/22 11:38	02/06/22 04:39	1

Client Sample ID: 21L0901-02

Date Collected: 08/24/20 11:50
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-2

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-191	**4.5**	**J H H3**	4.6	0.078	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-192	ND	H H3	4.6	0.070	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-193	**160**	**H H3 C180 B**	9.3	0.085	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-194	**12**	**H H3**	4.6	0.12	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-195	**4.8**	**H H3**	4.6	0.14	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-196	**5.8**	**H H3**	4.6	0.13	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-197	**0.45**	**J q H H3**	4.6	0.091	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-198	**10**	**H H3 C**	9.3	0.11	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-199	**10**	**H H3 C198**	9.3	0.11	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-200	**1.3**	**J H H3**	4.6	0.095	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-201	**1.7**	**J H H3**	4.6	0.099	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-202	**1.8**	**J H H3**	4.6	0.092	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-203	**5.9**	**H H3 B**	4.6	0.099	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-204	ND	H H3	4.6	0.086	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-205	**0.58**	**J H H3**	4.6	0.11	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-206	**2.9**	**J q H H3**	4.6	0.62	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-207	ND	H H3	4.6	0.53	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-208	ND	H H3	4.6	0.52	ng/g		01/17/22 11:38	02/06/22 04:39	1
PCB-209	**0.69**	**J H H3**	4.6	0.020	ng/g		01/17/22 11:38	02/06/22 04:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*62*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-3L	*63*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-4L	*80*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-15L	*82*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-19L	*77*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-37L	*83*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-54L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-77L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-81L	*83*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-104L	*80*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-105L	*92*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-114L	*87*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-118L	*89*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-123L	*88*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-126L	*88*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-155L	*88*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-156L	*91*	*C*	*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-157L	*91*	*C156*	*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-167L	*93*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-169L	*91*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-170L	*92*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-188L	*83*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-189L	*105*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-202L	*104*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-205L	*93*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-206L	*83*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-208L	*89*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*
PCB-209L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 04:39*	*1*

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0901-02

Date Collected: 08/24/20 11:50
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-2

Matrix: Tissue

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	81		40 - 125	01/17/22 11:38	02/06/22 04:39	1
PCB-111L	91		40 - 125	01/17/22 11:38	02/06/22 04:39	1
PCB-178L	95		40 - 125	01/17/22 11:38	02/06/22 04:39	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0902-01

Date Collected: 09/02/20 10:44
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-3

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND	H H3	1.2	0.011	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-2	ND	H H3	1.2	0.011	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-3	ND	H H3	1.2	0.012	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-4	**0.21**	**J q H H3 B**	2.4	0.032	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-5	ND	H H3	1.2	0.032	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-6	**0.17**	**J H H3**	1.2	0.025	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-7	**0.040**	**J q H H3**	1.2	0.030	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-8	**0.73**	**J H H3 B**	2.4	0.024	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-9	**0.073**	**J q H H3**	1.2	0.028	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-10	ND	H H3	1.2	0.032	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-11	**0.35**	**J H H3 B**	2.4	0.027	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-12	ND	C H H3	2.4	0.030	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-13	ND	C12 H H3	2.4	0.030	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-14	ND	H H3	1.2	0.030	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-15	**0.11**	**J q H H3 B**	1.2	0.032	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-16	**0.86**	**J H H3 B**	1.2	0.038	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-17	**4.5**	**H H3**	1.2	0.038	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-18	**3.6**	**C H H3 B**	2.4	0.026	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-19	**0.56**	**J H H3 B**	1.2	0.035	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-20	**7.1**	**C H H3 B**	2.4	0.054	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-21	**1.6**	**J C H H3 B**	2.4	0.055	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-22	**0.71**	**J H H3 B**	1.2	0.051	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-23	ND	H H3	1.2	0.059	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-24	**0.061**	**J H H3**	1.2	0.026	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-25	**0.50**	**J q H H3**	1.2	0.046	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-26	**1.6**	**J C H H3**	2.4	0.058	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-27	**1.4**	**H H3**	1.2	0.027	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-28	**7.1**	**C20 H H3 B**	2.4	0.054	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-29	**1.6**	**J C26 H H3**	2.4	0.058	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-30	**3.6**	**C18 H H3 B**	2.4	0.026	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-31	**2.8**	**H H3 B**	2.4	0.049	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-32	**2.3**	**H H3 B**	1.2	0.024	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-33	**1.6**	**J C21 H H3 B**	2.4	0.055	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-34	ND	H H3	1.2	0.061	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-35	ND	H H3	1.2	0.056	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-36	ND	H H3	1.2	0.049	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-37	**0.58**	**J q H H3 B**	1.2	0.055	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-38	ND	H H3	1.2	0.053	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-39	**0.14**	**J q H H3**	1.2	0.054	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-40	**15**	**C H H3**	3.6	0.43	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-41	**15**	**C40 H H3**	3.6	0.43	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-42	**7.5**	**H H3**	1.2	0.47	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-43	**1.3**	**J q C H H3**	2.4	0.36	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-44	**81**	**C H H3 B**	3.6	0.37	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-45	**2.1**	**J C H H3**	2.4	0.47	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-46	ND	H H3	1.2	0.54	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-47	**81**	**C44 H H3 B**	3.6	0.37	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-48	**5.5**	**H H3**	1.2	0.45	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-49	**66**	**C H H3**	2.4	0.37	ng/g		01/14/22 12:40	02/07/22 17:06	3

Client Sample ID: 21L0902-01

Date Collected: 09/02/20 10:44
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-3

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-50	6.9	C H H3	2.4	0.41	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-51	2.1	J C45 H H3	2.4	0.47	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-52	220	H H3 B	1.2	0.39	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-53	6.9	C50 H H3	2.4	0.41	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-54	0.12	J H H3	1.2	0.018	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-55	1.8	H H3	1.2	0.28	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-56	4.9	H H3	1.2	0.28	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-57	ND	H H3	1.2	0.31	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-58	ND	H H3	1.2	0.28	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-59	1.7	J C H H3	3.6	0.33	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-60	15	H H3	1.2	0.34	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-61	170	C H H3 B	4.8	0.28	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-62	1.7	J C59 H H3	3.6	0.33	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-63	4.7	H H3	1.2	0.32	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-64	30	H H3 B	1.2	0.32	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-65	81	C44 H H3 B	3.6	0.37	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-66	96	H H3	1.2	0.28	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-67	ND	H H3	1.2	0.26	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-68	ND	H H3	1.2	0.30	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-69	66	C49 H H3	2.4	0.37	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-70	170	C61 H H3 B	4.8	0.28	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-71	15	C40 H H3	3.6	0.43	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-72	ND	H H3	1.2	0.29	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-73	1.3	J q C43 H H3	2.4	0.36	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-74	170	C61 H H3 B	4.8	0.28	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-75	1.7	J C59 H H3	3.6	0.33	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-76	170	C61 H H3 B	4.8	0.28	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-77	0.86	J q H H3	1.2	0.32	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-78	0.38	J H H3	1.2	0.29	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-79	4.5	H H3	1.2	0.24	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-80	ND	H H3	1.2	0.29	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-81	ND	H H3	1.2	0.35	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-82	56	H H3	1.2	0.040	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-83	530	C H H3 B	2.4	0.039	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-84	98	H H3	1.2	0.050	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-85	170	C H H3	3.6	0.035	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-86	440	C H H3 B	7.2	0.034	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-87	440	C86 H H3 B	7.2	0.034	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-88	70	C H H3	2.4	0.044	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-89	ND	H H3	1.2	0.041	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-90	710	C H H3 B	3.6	0.037	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-91	70	C88 H H3	2.4	0.044	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-92	130	H H3	1.2	0.045	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-93	4.6	q C H H3	2.4	0.045	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-94	0.69	J q H H3	1.2	0.049	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-95	310	H H3 B	1.2	0.044	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-96	1.8	H H3	1.2	0.030	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-97	440	C86 H H3 B	7.2	0.034	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-98	8.6	C H H3	2.4	0.037	ng/g		01/14/22 12:40	02/07/22 17:06	3

Client Sample ID: 21L0902-01

Date Collected: 09/02/20 10:44
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-3

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-99	530	C83 H H3 E	2.4	0.039	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-100	4.6	q C93 H H3	2.4	0.045	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-101	710	C90 H H3 E	3.6	0.037	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-102	8.6	C98 H H3	2.4	0.037	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-103	2.7	H H3	1.2	0.041	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-104	ND	H H3	1.2	0.034	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-105	440	H H3 B	1.2	1.1	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-106	ND	H H3	1.2	1.0	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-107	69	H H3	1.2	1.0	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-108	20	C H H3	2.4	1.1	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-109	440	C86 H H3 E	7.2	0.034	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-110	620	C H H3 B	2.4	0.027	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-111	ND	H H3	1.2	0.029	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-112	4.3	H H3	1.2	0.026	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-113	710	C90 H H3 E	3.6	0.037	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-114	41	H H3	1.2	1.1	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-115	620	C110 H H3 B	2.4	0.027	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-116	170	C85 H H3	3.6	0.035	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-117	170	C85 H H3	3.6	0.035	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-118	1200	H H3 B	1.2	1.1	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-119	440	C86 H H3 E	7.2	0.034	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-120	ND	H H3	1.2	0.024	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-121	ND	H H3	1.2	0.027	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-122	ND	G H H3	1.4	1.4	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-123	22	H H3	1.2	1.2	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-124	20	C108 H H3	2.4	1.1	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-125	440	C86 H H3 E	7.2	0.034	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-126	ND	H H3	1.2	1.1	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-127	ND	H H3	1.2	1.0	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-128	170	C H H3 B	2.4	0.14	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-129	970	C H H3 B	4.8	0.15	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-130	65	H H3	1.2	0.20	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-131	8.3	H H3	1.2	0.19	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-132	150	H H3 B	1.2	0.17	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-133	9.7	H H3	1.2	0.16	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-134	31	C H H3	2.4	0.18	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-135	110	C H H3 B	2.4	0.029	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-136	49	H H3 B	1.2	0.021	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-137	100	H H3	1.2	0.17	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-138	970	C129 H H3 B	4.8	0.15	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-139	20	C H H3	2.4	0.15	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-140	20	C139 H H3	2.4	0.15	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-141	110	H H3 B	1.2	0.17	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-142	ND	H H3	1.2	0.18	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-143	31	C134 H H3	2.4	0.18	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-144	24	H H3	1.2	0.029	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-145	0.32	J q H H3	1.2	0.019	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-146	110	H H3	1.2	0.14	ng/g		01/14/22 12:40	02/07/22 17:06	3

Client Sample ID: 21L0902-01

Date Collected: 09/02/20 10:44
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-3

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-147	230	C H H3 B	2.4	0.14	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-148	0.43	J H H3	1.2	0.028	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-149	230	C147 H H3 B	2.4	0.14	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-150	0.39	J H H3 B	1.2	0.021	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-151	110	C135 H H3 B	2.4	0.029	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-152	0.50	J H H3	1.2	0.018	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-153	670	C H H3 B	2.4	0.13	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-154	6.6	H H3	1.2	0.025	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-155	ND	H H3	1.2	0.022	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-156	210	C H H3 B	2.4	0.16	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-157	210	C156 H H3 B	2.4	0.16	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-158	110	H H3 B	1.2	0.12	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-159	ND	H H3	1.2	0.10	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-160	970	C129 H H3 B	4.8	0.15	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-161	ND	H H3	1.2	0.11	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-162	4.6	H H3	1.2	0.11	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-163	970	C129 H H3 B	4.8	0.15	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-164	42	H H3	1.2	0.12	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-165	ND	H H3	1.2	0.14	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-166	170	C128 H H3 B	2.4	0.14	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-167	52	H H3 B	1.2	0.10	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-168	670	C153 H H3 B	2.4	0.13	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-169	ND	H H3	1.2	0.093	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-170	76	H H3 B	1.2	0.012	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-171	19	C H H3 B	2.4	0.013	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-172	8.9	H H3	1.2	0.012	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-173	19	C171 H H3 B	2.4	0.013	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-174	21	H H3 B	1.2	0.011	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-175	2.0	H H3 B	1.2	0.012	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-176	2.6	H H3 B	1.2	0.0093	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-177	18	H H3 B	1.2	0.011	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-178	6.5	H H3 B	1.2	0.012	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-179	6.8	H H3 B	1.2	0.0079	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-180	120	C H H3 B	2.4	0.0099	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-181	2.5	H H3	1.2	0.011	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-182	0.71	J q H H3	1.2	0.010	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-183	33	C H H3 B	2.4	0.012	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-184	ND	H H3	1.2	0.0086	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-185	33	C183 H H3 B	2.4	0.012	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-186	ND	H H3	1.2	0.0076	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-187	42	H H3 B	1.2	0.010	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-188	ND	H H3	1.2	0.0087	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-189	5.0	H H3 F1	1.2	0.046	ng/g		01/14/22 12:40	02/07/22 17:06	3

Client Sample ID: 21L0902-01

Date Collected: 09/02/20 10:44
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-3

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-190	14	H H3	1.2	0.0095	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-191	3.3	H H3	1.2	0.0092	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-192	ND	H H3	1.2	0.0082	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-193	120	C180 H H3 B	2.4	0.0099	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-194	9.0	H H3	1.2	0.045	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-195	3.4	H H3 B	1.2	0.051	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-196	4.9	H H3 B	1.2	0.028	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-197	0.33	J q H H3	1.2	0.020	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-198	8.1	C H H3 B	2.4	0.025	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-199	8.1	C198 H H3 B	2.4	0.025	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-200	0.49	J H H3	1.2	0.021	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-201	1.3	H H3	1.2	0.022	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-202	1.5	H H3	1.2	0.021	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-203	5.2	H H3	1.2	0.022	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-204	ND	H H3	1.2	0.019	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-205	0.46	J H H3	1.2	0.040	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-206	3.0	H H3	1.2	0.093	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-207	0.52	J H H3	1.2	0.083	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-208	0.82	J H H3	1.2	0.082	ng/g		01/14/22 12:40	02/07/22 17:06	3
PCB-209	0.40	J H H3 B	1.2	0.0036	ng/g		01/14/22 12:40	02/07/22 17:06	3

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*63*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-3L	*64*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-4L	*81*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-15L	*75*	*q*	*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-19L	*75*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-37L	*87*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-54L	*110*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-77L	*87*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-81L	*88*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-104L	*85*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-105L	*95*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-114L	*91*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-118L	*94*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-123L	*93*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-126L	*90*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-155L	*97*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-156L	*88*	*C*	*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-157L	*88*	*C156*	*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-167L	*85*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-169L	*86*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-170L	*96*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-188L	*84*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-189L	*97*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-202L	*111*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-205L	*90*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-206L	*86*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*
PCB-208L	*93*		*30 - 140*	*01/14/22 12:40*	*02/07/22 17:06*	*3*

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0902-01
Date Collected: 09/02/20 10:44
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-3
Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-209L	85		30 - 140	01/14/22 12:40	02/07/22 17:06	3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	92		40 - 125	01/14/22 12:40	02/07/22 17:06	3
PCB-111L	100		40 - 125	01/14/22 12:40	02/07/22 17:06	3
PCB-178L	96		40 - 125	01/14/22 12:40	02/07/22 17:06	3

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0902-02

Date Collected: 09/09/20 09:30
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-4

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND	H H3	2.5	0.025	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-2	ND	H H3	2.5	0.027	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-3	ND	H H3	2.5	0.027	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-4	ND	H H3	5.1	0.085	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-5	ND	H H3	2.5	0.078	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-6	ND	H H3	2.5	0.062	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-7	ND	H H3	2.5	0.073	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-8	**0.40**	**J H H3**	5.1	0.059	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-9	ND	H H3	2.5	0.068	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-10	ND	H H3	2.5	0.077	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-11	**0.83**	**J H H3 B q**	5.1	0.067	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-12	ND	C H H3	5.1	0.073	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-13	ND	H H3 C12	5.1	0.073	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-14	ND	H H3	2.5	0.073	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-15	**0.29**	**J H H3 q**	2.5	0.073	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-16	**0.40**	**J H H3**	2.5	0.078	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-17	**3.6**	**H H3**	2.5	0.080	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-18	**2.9**	**J C H H3 B**	5.1	0.054	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-19	**0.63**	**J H H3**	2.5	0.074	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-20	**5.6**	**C H H3 B**	5.1	0.093	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-21	**0.74**	**J C H H3**	5.1	0.094	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-22	**0.35**	**J H H3**	2.5	0.088	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-23	ND	H H3	2.5	0.10	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-24	**0.061**	**J H H3 q**	2.5	0.054	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-25	**0.54**	**J H H3**	2.5	0.080	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-26	**1.8**	**J C H H3**	5.1	0.10	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-27	**1.2**	**J H H3**	2.5	0.056	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-28	**5.6**	**H H3 B C2**	5.1	0.093	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-29	**1.8**	**J C26 H H3**	5.1	0.10	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-30	**2.9**	**J H C18 H3 B**	5.1	0.054	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-31	**2.7**	**J H H3 B**	5.1	0.084	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-32	**1.8**	**J H H3 B**	2.5	0.049	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-33	**0.74**	**J H H3 C21**	5.1	0.094	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-34	ND	H H3	2.5	0.10	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-35	ND	H H3	2.5	0.097	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-36	ND	H H3	2.5	0.084	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-37	**0.44**	**J H H3**	2.5	0.095	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-38	ND	H H3	2.5	0.091	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-39	ND	H H3	2.5	0.093	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-40	**13**	**C H H3**	7.6	0.60	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-41	**13**	**H H3 C40**	7.6	0.60	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-42	**5.4**	**H H3**	2.5	0.64	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-43	**2.4**	**J C H H3 q**	5.1	0.50	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-44	**62**	**C H H3 B**	7.6	0.51	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-45	**2.0**	**J C H H3 q**	5.1	0.64	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-46	ND	H H3	2.5	0.75	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-47	**62**	**H H3 B C4**	7.6	0.51	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-48	**4.2**	**H H3**	2.5	0.62	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-49	**42**	**C H H3**	5.1	0.51	ng/g		01/17/22 11:38	02/06/22 15:32	1

Client Sample ID: 21L0902-02

Date Collected: 09/09/20 09:30
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-4

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-50	7.1	C H H3	5.1	0.57	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-51	2.0	J H H3 C45 q	5.1	0.64	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-52	160	H H3	2.5	0.54	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-53	7.1	H C50 H3	5.1	0.57	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-54	0.11	J H H3 q	2.5	0.039	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-55	1.3	J H H3	2.5	0.38	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-56	4.6	H H3	2.5	0.39	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-57	ND	H H3	2.5	0.42	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-58	ND	H H3	2.5	0.38	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-59	1.0	J C H H3	7.6	0.45	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-60	8.2	H H3	2.5	0.47	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-61	130	C H H3	10	0.39	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-62	1.0	J H H3 C55	7.6	0.45	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-63	3.1	H H3	2.5	0.45	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-64	19	H H3	2.5	0.44	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-65	62	H H3 B C4	7.6	0.51	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-66	58	H H3	2.5	0.39	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-67	ND	H H3	2.5	0.36	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-68	ND	H H3	2.5	0.42	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-69	42	H H3 C49	5.1	0.51	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-70	130	H C61 H3	10	0.39	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-71	13	H H3 C40	7.6	0.60	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-72	0.44	J H H3	2.5	0.39	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-73	2.4	J H C43 H3 q	5.1	0.50	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-74	130	H C61 H3	10	0.39	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-75	1.0	J H H3 C55	7.6	0.45	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-76	130	H C61 H3	10	0.39	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-77	0.91	J H H3 q	2.5	0.44	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-78	ND	H H3	2.5	0.40	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-79	2.4	J H H3	2.5	0.33	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-80	ND	H H3	2.5	0.41	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-81	ND	H H3	2.5	0.49	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-82	34	H H3	2.5	0.098	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-83	230	C H H3	5.1	0.095	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-84	71	H H3 B	2.5	0.12	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-85	75	C H H3	7.6	0.085	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-86	220	C H H3	15	0.081	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-87	220	H H3 C86	15	0.081	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-88	41	C H H3	5.1	0.11	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-89	2.5	H H3	2.5	0.099	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-90	360	C H H3	7.6	0.089	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-91	41	H C88 H3	5.1	0.11	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-92	61	H H3	2.5	0.11	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-93	2.9	J C H H3 q	5.1	0.11	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-94	0.70	J H H3 q	2.5	0.12	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-95	220	H H3	2.5	0.11	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-96	1.1	J H H3	2.5	0.072	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-97	220	H H3 C86	15	0.081	ng/g		01/17/22 11:38	02/06/22 15:32	1

Client Sample ID: 21L0902-02

Date Collected: 09/09/20 09:30
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-4

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-98	7.1	C H H3	5.1	0.090	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-99	230	H C83 H3	5.1	0.095	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-100	2.9	J H H3 C93 q	5.1	0.11	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-101	360	H H3 C90	7.6	0.089	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-102	7.1	C98 H H3	5.1	0.090	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-103	1.6	J H H3	2.5	0.099	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-104	ND	H H3	2.5	0.081	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-105	220	H H3	2.5	0.61	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-106	ND	H H3	2.5	0.55	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-107	37	H H3	2.5	0.54	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-108	12	C H H3	5.1	0.60	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-109	220	H H3 C86	15	0.081	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-110	310	C H H3	5.1	0.064	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-111	ND	H H3	2.5	0.070	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-112	1.1	J H H3 q	2.5	0.062	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-113	360	H H3 C90	7.6	0.089	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-114	21	H H3	2.5	0.60	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-115	310	H H3 C110	5.1	0.064	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-116	75	H H3 C85	7.6	0.085	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-117	75	H H3 C85	7.6	0.085	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-118	630	H H3 B	2.5	0.59	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-119	220	H H3 C86	15	0.081	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-120	ND	H H3	2.5	0.058	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-121	ND	H H3	2.5	0.065	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-122	3.9	H H3 q	2.5	0.73	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-123	13	H H3	2.5	0.66	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-124	12	H H3 C108	5.1	0.60	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-125	220	H H3 C86	15	0.081	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-126	ND	H H3	2.5	0.56	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-127	2.1	J H H3	2.5	0.55	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-128	71	C H H3	5.1	0.15	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-129	530	C H H3 B	10	0.16	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-130	35	H H3	2.5	0.22	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-131	5.5	H H3	2.5	0.20	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-132	92	H H3	2.5	0.19	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-133	6.3	H H3	2.5	0.17	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-134	20	C H H3	5.1	0.19	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-135	95	C H H3 B	5.1	0.047	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-136	26	H H3 B	2.5	0.035	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-137	53	H H3	2.5	0.18	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-138	530	H H3 B C129	10	0.16	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-139	8.0	C H H3	5.1	0.16	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-140	8.0	H H3 C139	5.1	0.16	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-141	71	H H3	2.5	0.18	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-142	ND	H H3	2.5	0.19	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-143	20	H C134 H3	5.1	0.19	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-144	20	H H3	2.5	0.047	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-145	0.14	J H H3 q	2.5	0.031	ng/g		01/17/22 11:38	02/06/22 15:32	1

Client Sample ID: 21L0902-02

Date Collected: 09/09/20 09:30
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-4

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-146	70	H H3	2.5	0.14	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-147	220	C H H3 B	5.1	0.15	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-148	0.16	J H H3 q	2.5	0.045	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-149	220	H H3 B C147	5.1	0.15	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-150	0.27	J H H3	2.5	0.034	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-151	95	H C135 H3 B	5.1	0.047	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-152	0.26	J H H3 B	2.5	0.030	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-153	450	C H H3 B	5.1	0.13	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-154	3.1	H H3	2.5	0.041	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-155	ND	H H3	2.5	0.037	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-156	120	C H H3 B	5.1	0.17	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-157	120	H C156 H3 B	5.1	0.17	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-158	52	H H3	2.5	0.13	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-159	4.9	H H3	2.5	0.11	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-160	530	H H3 B C129	10	0.16	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-161	0.44	J H H3	2.5	0.12	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-162	2.6	H H3	2.5	0.12	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-163	530	H H3 B C129	10	0.16	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-164	25	H H3	2.5	0.13	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-165	ND	H H3	2.5	0.15	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-166	71	C128 H H3	5.1	0.15	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-167	32	H H3	2.5	0.10	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-168	450	H H3 B C153	5.1	0.13	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-169	ND	H H3	2.5	0.099	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-170	93	H H3	2.5	0.042	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-171	21	C H H3	5.1	0.041	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-172	15	H H3 B	2.5	0.040	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-173	21	H C171 H3	5.1	0.041	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-174	61	H H3	2.5	0.037	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-175	4.4	H H3	2.5	0.040	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-176	8.0	H H3	2.5	0.030	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-177	45	H H3 B	2.5	0.037	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-178	16	H H3	2.5	0.040	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-179	7.2	H H3 B	2.5	0.026	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-180	220	C H H3 B	5.1	0.032	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-181	1.6	J H H3 B q	2.5	0.035	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-182	0.50	J H H3	2.5	0.033	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-183	64	C H H3 B	5.1	0.038	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-184	ND	H H3	2.5	0.028	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-185	64	H H3 B C183	5.1	0.038	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-186	ND	H H3	2.5	0.025	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-187	110	H H3	2.5	0.032	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-188	ND	H H3	2.5	0.027	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-189	5.0	H H3 B	2.5	0.075	ng/g		01/17/22 11:38	02/06/22 15:32	1

Client Sample ID: 21L0902-02

Date Collected: 09/09/20 09:30
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-4

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-190	20	H H3	2.5	0.031	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-191	4.7	H H3	2.5	0.030	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-192	ND	H H3	2.5	0.027	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-193	220	C180 H H3 B	5.1	0.032	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-194	32	H H3	2.5	0.17	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-195	15	H H3	2.5	0.19	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-196	20	H H3	2.5	0.11	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-197	1.6	J H H3	2.5	0.077	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-198	34	C H H3	5.1	0.094	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-199	34	H C198 H3	5.1	0.094	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-200	3.2	H H3	2.5	0.081	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-201	5.4	H H3	2.5	0.084	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-202	5.4	H H3	2.5	0.078	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-203	17	H H3 B	2.5	0.084	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-204	ND	H H3	2.5	0.073	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-205	1.7	J H H3	2.5	0.15	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-206	5.0	H H3	2.5	0.29	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-207	0.99	J H H3 q	2.5	0.25	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-208	1.1	J H H3	2.5	0.25	ng/g		01/17/22 11:38	02/06/22 15:32	1
PCB-209	0.33	J H H3 q	2.5	0.019	ng/g		01/17/22 11:38	02/06/22 15:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*63*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-3L	*66*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-4L	*79*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-15L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-19L	*80*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-37L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-54L	*98*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-77L	*87*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-81L	*86*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-104L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-105L	*89*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-114L	*87*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-118L	*88*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-123L	*86*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-126L	*89*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-155L	*95*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-156L	*92*	*C*	*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-157L	*92*	*C156*	*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-167L	*92*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-169L	*92*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-170L	*90*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-188L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-189L	*103*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-202L	*107*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-205L	*91*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-206L	*83*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*
PCB-208L	*89*		*30 - 140*	*01/17/22 11:38*	*02/06/22 15:32*	*1*

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0902-02
Date Collected: 09/09/20 09:30
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-4
Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-209L	73		30 - 140	01/17/22 11:38	02/06/22 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	82		40 - 125	01/17/22 11:38	02/06/22 15:32	1
PCB-111L	94		40 - 125	01/17/22 11:38	02/06/22 15:32	1
PCB-178L	93		40 - 125	01/17/22 11:38	02/06/22 15:32	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L1003-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-5

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND	H H3	0.010	0.00018	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-2	ND	H H3	0.010	0.00020	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-3	ND	H H3	0.010	0.00022	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-4	ND	H H3	0.021	0.00058	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-5	ND	H H3	0.010	0.00051	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-6	ND	H H3	0.010	0.00041	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-7	ND	H H3	0.010	0.00048	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-8	ND	H H3	0.021	0.00039	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-9	ND	H H3	0.010	0.00044	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-10	ND	H H3	0.010	0.00050	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-11	**0.020**	**J H H3 B**	0.021	0.00044	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-12	ND	C H H3	0.021	0.00047	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-13	ND	C12 H H3	0.021	0.00047	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-14	ND	H H3	0.010	0.00048	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-15	**0.0027**	**J q H H3**	0.010	0.00046	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-16	ND	H H3	0.010	0.00033	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-17	**0.0012**	**J q H H3**	0.010	0.00034	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-18	**0.0014**	**J q C H H3 B**	0.021	0.00023	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-19	ND	H H3	0.010	0.00031	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-20	**0.013**	**J C H H3 B**	0.021	0.00027	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-21	**0.0015**	**J q C H H3**	0.021	0.00028	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-22	**0.00078**	**J H H3**	0.010	0.00026	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-23	ND	H H3	0.010	0.00030	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-24	ND	H H3	0.010	0.00023	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-25	**0.00045**	**J H H3**	0.010	0.00023	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-26	**0.0011**	**J C H H3**	0.021	0.00029	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-27	ND	H H3	0.010	0.00024	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-28	**0.013**	**J C20 H H3 B**	0.021	0.00027	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-29	**0.0011**	**J C26 H H3**	0.021	0.00029	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-30	**0.0014**	**J q C18 H H3 B**	0.021	0.00023	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-31	**0.0040**	**J H H3 B**	0.021	0.00025	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-32	**0.0010**	**J q H H3 B**	0.010	0.00021	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-33	**0.0015**	**J q C21 H H3**	0.021	0.00028	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-34	ND	H H3	0.010	0.00031	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-35	ND	H H3	0.010	0.00028	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-36	ND	H H3	0.010	0.00025	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-37	**0.0057**	**J H H3**	0.010	0.00028	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-38	ND	H H3	0.010	0.00027	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-39	ND	H H3	0.010	0.00027	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-40	**0.00093**	**J C H H3**	0.031	0.00080	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-41	**0.00093**	**J C40 H H3**	0.031	0.00080	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-42	ND	H H3	0.010	0.00086	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-43	ND	C H H3	0.021	0.00067	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-44	**0.016**	**J C H H3 B**	0.031	0.00068	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-45	ND	C H H3	0.021	0.00086	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-46	ND	H H3	0.010	0.0010	ng/g		01/17/22 11:38	02/06/22 16:34	1

Client Sample ID: 21L1003-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-5

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-47	**0.016**	**J C44 H H3 B**	0.031	0.00068	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-48	ND	H H3	0.010	0.00082	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-49	**0.0049**	**J C H H3**	0.021	0.00068	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-50	ND	C H H3	0.021	0.00076	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-51	ND	C45 H H3	0.021	0.00086	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-52	**0.0083**	**J H H3**	0.010	0.00072	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-53	ND	C50 H H3	0.021	0.00076	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-54	ND	H H3	0.010	0.00011	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-55	**0.0033**	**J q H H3**	0.010	0.00051	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-56	**0.0020**	**J H H3**	0.010	0.00052	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-57	ND	H H3	0.010	0.00056	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-58	ND	H H3	0.010	0.00051	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-59	ND	C H H3	0.031	0.00060	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-60	**0.017**	**H H3**	0.010	0.00063	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-61	**0.30**	**C H H3**	0.041	0.00052	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-62	ND	C59 H H3	0.031	0.00060	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-63	**0.027**	**H H3**	0.010	0.00060	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-64	**0.0011**	**J q H H3**	0.010	0.00058	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-65	**0.016**	**J C44 H H3 B**	0.031	0.00068	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-66	**0.24**	**H H3**	0.010	0.00052	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-67	ND	H H3	0.010	0.00048	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-68	**0.0047**	**J H H3**	0.010	0.00056	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-69	**0.0049**	**J C49 H H3**	0.021	0.00068	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-70	**0.30**	**C61 H H3**	0.041	0.00052	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-71	**0.00093**	**J C40 H H3**	0.031	0.00080	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-72	ND	H H3	0.010	0.00053	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-73	ND	C43 H H3	0.021	0.00067	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-74	**0.30**	**C61 H H3**	0.041	0.00052	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-75	ND	C59 H H3	0.031	0.00060	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-76	**0.30**	**C61 H H3**	0.041	0.00052	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-77	**0.013**	**H H3**	0.010	0.00059	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-78	**0.0014**	**J H H3**	0.010	0.00053	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-79	**0.0017**	**J H H3**	0.010	0.00045	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-80	ND	H H3	0.010	0.00054	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-81	ND	H H3	0.010	0.00065	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-82	**0.0031**	**J q H H3**	0.010	0.00065	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-83	**0.49**	**C H H3**	0.021	0.00064	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-84	**0.0034**	**J q H H3 B**	0.010	0.00081	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-85	**0.16**	**C H H3**	0.031	0.00057	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-86	**0.058**	**J C H H3**	0.062	0.00054	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-87	**0.058**	**J C86 H H3**	0.062	0.00054	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-88	**0.0052**	**J q C H H3**	0.021	0.00071	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-89	ND	H H3	0.010	0.00066	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-90	**0.11**	**C H H3**	0.031	0.00059	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-91	**0.0052**	**J q C88 H H3**	0.021	0.00071	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-92	**0.011**	**q H H3**	0.010	0.00073	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-93	ND	C H H3	0.021	0.00072	ng/g		01/17/22 11:38	02/06/22 16:34	1

Client Sample ID: 21L1003-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-5

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-94	ND	H H3	0.010	0.00080	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-95	**0.019**	**H H3**	0.010	0.00071	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-96	ND	H H3	0.010	0.00048	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-97	**0.058**	**J C86 H H3**	0.062	0.00054	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-98	ND	C H H3	0.021	0.00060	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-99	**0.49**	**C83 H H3**	0.021	0.00064	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-100	ND	C93 H H3	0.021	0.00072	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-101	**0.11**	**C90 H H3**	0.031	0.00059	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-102	ND	C98 H H3	0.021	0.00060	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-103	ND	H H3	0.010	0.00066	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-104	ND	H H3	0.010	0.00054	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-105	**0.65**	**H H3**	0.010	0.0096	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-106	ND	H H3	0.010	0.0088	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-107	**0.51**	**H H3**	0.010	0.0085	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-108	ND	C H H3	0.021	0.0096	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-109	**0.058**	**J C86 H H3**	0.062	0.00054	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-110	**0.037**	**C H H3**	0.021	0.00043	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-111	ND	H H3	0.010	0.00047	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-112	**0.0021**	**J q H H3**	0.010	0.00041	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-113	**0.11**	**C90 H H3**	0.031	0.00059	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-114	**0.41**	**H H3**	0.010	0.0097	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-115	**0.037**	**C110 H H3**	0.021	0.00043	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-116	**0.16**	**C85 H H3**	0.031	0.00057	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-117	**0.16**	**C85 H H3**	0.031	0.00057	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-118	**6.9**	**H H3 B**	0.010	0.0094	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-119	**0.058**	**J C86 H H3**	0.062	0.00054	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-120	**0.0041**	**J H H3**	0.010	0.00039	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-121	ND	H H3	0.010	0.00044	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-122	**0.039**	**G H H3**	0.012	0.012	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-123	**0.24**	**H H3**	0.010	0.010	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-124	ND	C108 H H3	0.021	0.0096	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-125	**0.058**	**J C86 H H3**	0.062	0.00054	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-126	ND	H H3	0.010	0.0089	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-127	**0.026**	**H H3**	0.010	0.0088	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-128	**0.18**	**C H H3**	0.021	0.00076	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-129	**2.2**	**C H H3 B**	0.041	0.00080	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-130	**0.051**	**q H H3**	0.010	0.0011	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-131	ND	H H3	0.010	0.0010	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-132	**0.014**	**H H3**	0.010	0.00094	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-133	**0.031**	**H H3**	0.010	0.00085	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-134	ND	C H H3	0.021	0.00099	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-135	**0.022**	**C H H3 B**	0.021	0.00013	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-136	**0.0028**	**J H H3 B**	0.010	0.000094	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-137	**1.0**	**H H3**	0.010	0.00092	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-138	**2.2**	**C129 H H3 B**	0.041	0.00080	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-139	**0.0063**	**J q C H H3**	0.021	0.00082	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-140	**0.0063**	**J q C139 H H3**	0.021	0.00082	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-141	**0.013**	**q H H3**	0.010	0.00089	ng/g		01/17/22 11:38	02/06/22 16:34	1

Client Sample ID: 21L1003-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-5

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-142	ND	H H3	0.010	0.00097	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-143	ND	C134 H H3	0.021	0.00099	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-144	**0.0053**	**J H H3**	0.010	0.00013	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-145	ND	H H3	0.010	0.000084	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-146	**0.80**	**H H3**	0.010	0.00073	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-147	**0.084**	**C H H3 B**	0.021	0.00078	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-148	ND	H H3	0.010	0.00012	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-149	**0.084**	**C147 H H3 B**	0.021	0.00078	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-150	**0.00014**	**J q H H3**	0.010	0.000091	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-151	**0.022**	**C135 H H3 B**	0.021	0.00013	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-152	ND	H H3	0.010	0.000080	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-153	**3.4**	**C H H3 B**	0.021	0.00068	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-154	**0.0018**	**J H H3**	0.010	0.00011	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-155	**0.00020**	**J q H H3**	0.010	0.000099	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-156	**2.0**	**C H H3 B**	0.021	0.00086	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-157	**2.0**	**C156 H H3 B**	0.021	0.00086	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-158	**0.066**	**H H3**	0.010	0.00064	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-159	ND	H H3	0.010	0.00056	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-160	**2.2**	**C129 H H3 B**	0.041	0.00080	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-161	**0.0047**	**J H H3**	0.010	0.00061	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-162	**0.040**	**H H3**	0.010	0.00062	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-163	**2.2**	**C129 H H3 B**	0.041	0.00080	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-164	**0.011**	**H H3**	0.010	0.00064	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-165	**0.0011**	**J q H H3**	0.010	0.00074	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-166	**0.18**	**C128 H H3**	0.021	0.00076	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-167	**0.74**	**H H3**	0.010	0.00053	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-168	**3.4**	**C153 H H3 B**	0.021	0.00068	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-169	**0.0035**	**J H H3 B**	0.010	0.00050	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-170	**0.23**	**H H3**	0.010	0.00022	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-171	**0.0086**	**J q C H H3**	0.021	0.00022	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-172	**0.0086**	**J H H3 B**	0.010	0.00021	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-173	**0.0086**	**J q C171 H H3**	0.021	0.00022	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-174	**0.0074**	**J H H3**	0.010	0.00020	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-175	**0.0040**	**J H H3**	0.010	0.00022	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-176	**0.0015**	**J H H3**	0.010	0.00016	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-177	**0.021**	**H H3 B**	0.010	0.00020	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-178	**0.0077**	**J H H3**	0.010	0.00021	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-179	**0.0010**	**J q H H3 B**	0.010	0.00014	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-180	**1.4**	**C H H3 B**	0.021	0.00017	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-181	**0.026**	**H H3 B**	0.010	0.00019	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-182	**0.0022**	**J H H3**	0.010	0.00018	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-183	**0.077**	**C H H3 B**	0.021	0.00020	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-184	ND	H H3	0.010	0.00015	ng/g		01/17/22 11:38	02/06/22 16:34	1

Client Sample ID: 21L1003-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-5

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-185	**0.077**	**C183 H H3 B**	0.021	0.00020	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-186	ND	H H3	0.010	0.00013	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-187	**0.49**	**H H3**	0.010	0.00017	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-188	**0.00046**	**J q H H3**	0.010	0.00015	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-189	**0.056**	**H H3 B**	0.010	0.00051	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-190	**0.15**	**H H3**	0.010	0.00017	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-191	**0.022**	**H H3**	0.010	0.00016	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-192	ND	H H3	0.010	0.00014	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-193	**1.4**	**C180 H H3 B**	0.021	0.00017	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-194	**0.042**	**H H3**	0.010	0.00043	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-195	**0.019**	**H H3**	0.010	0.00049	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-196	**0.027**	**H H3**	0.010	0.00038	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-197	**0.0013**	**J q H H3**	0.010	0.00027	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-198	**0.038**	**C H H3**	0.021	0.00033	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-199	**0.038**	**C198 H H3**	0.021	0.00033	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-200	**0.00040**	**J q H H3**	0.010	0.00029	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-201	**0.0066**	**J H H3**	0.010	0.00030	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-202	**0.0014**	**J q H H3**	0.010	0.00028	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-203	**0.044**	**H H3 B**	0.010	0.00030	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-204	ND	H H3	0.010	0.00026	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-205	**0.0021**	**J H H3**	0.010	0.00038	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-206	**0.011**	**q H H3**	0.010	0.0015	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-207	ND	H H3	0.010	0.0013	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-208	ND	H H3	0.010	0.0013	ng/g		01/17/22 11:38	02/06/22 16:34	1
PCB-209	**0.0084**	**J H H3**	0.010	0.000084	ng/g		01/17/22 11:38	02/06/22 16:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*53*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-3L	*52*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-4L	*73*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-15L	*80*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-19L	*75*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-37L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-54L	*93*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-77L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-81L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-104L	*81*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-105L	*87*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-114L	*82*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-118L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-123L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-126L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-155L	*93*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-156L	*85*	*C*	*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-157L	*85*	*C156*	*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-167L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-169L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-170L	*90*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*
PCB-188L	*83*		*30 - 140*	*01/17/22 11:38*	*02/06/22 16:34*	*1*

Client Sample ID: 21L1003-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-5

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-189L	96		30 - 140	01/17/22 11:38	02/06/22 16:34	1
PCB-202L	105		30 - 140	01/17/22 11:38	02/06/22 16:34	1
PCB-205L	85		30 - 140	01/17/22 11:38	02/06/22 16:34	1
PCB-206L	78		30 - 140	01/17/22 11:38	02/06/22 16:34	1
PCB-208L	84		30 - 140	01/17/22 11:38	02/06/22 16:34	1
PCB-209L	70		30 - 140	01/17/22 11:38	02/06/22 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	86		40 - 125	01/17/22 11:38	02/06/22 16:34	1
PCB-111L	98		40 - 125	01/17/22 11:38	02/06/22 16:34	1
PCB-178L	99		40 - 125	01/17/22 11:38	02/06/22 16:34	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L1003-02

Date Collected: 11/11/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-6

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.0048	J H H3	0.048	0.00061	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-2	0.0055	J q H H3	0.048	0.00067	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-3	0.0031	J q H H3	0.048	0.00072	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-4	0.30	H H3	0.095	0.0029	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-5	ND	H H3	0.048	0.0025	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-6	0.026	J H H3	0.048	0.0020	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-7	ND	H H3	0.048	0.0024	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-8	0.065	J H H3	0.095	0.0019	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-9	ND	H H3	0.048	0.0022	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-10	0.0083	J H H3	0.048	0.0025	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-11	4.7	H H3 B	0.095	0.0022	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-12	0.079	J q C H H3	0.095	0.0024	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-13	0.079	J q C12 H H3	0.095	0.0024	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-14	ND	H H3	0.048	0.0024	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-15	0.028	J q H H3	0.048	0.0023	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-16	0.12	H H3	0.048	0.0018	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-17	0.72	H H3	0.048	0.0018	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-18	0.48	C H H3 B	0.095	0.0012	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-19	0.14	H H3	0.048	0.0017	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-20	0.23	C H H3 B	0.095	0.0024	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-21	0.11	C H H3	0.095	0.0025	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-22	0.13	H H3	0.048	0.0023	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-23	ND	H H3	0.048	0.0027	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-24	0.0062	J H H3	0.048	0.0012	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-25	0.13	H H3	0.048	0.0021	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-26	0.14	C H H3	0.095	0.0026	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-27	0.30	H H3	0.048	0.0013	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-28	0.23	C20 H H3 E	0.095	0.0024	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-29	0.14	C26 H H3	0.095	0.0026	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-30	0.48	C18 H H3 E	0.095	0.0012	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-31	0.20	H H3 B	0.095	0.0022	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-32	0.19	H H3 B	0.048	0.0011	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-33	0.11	C21 H H3	0.095	0.0025	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-34	ND	H H3	0.048	0.0028	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-35	0.012	J H H3	0.048	0.0025	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-36	0.0028	J q H H3	0.048	0.0022	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-37	0.076	H H3	0.048	0.0025	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-38	0.0050	J q H H3	0.048	0.0024	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-39	0.0066	J H H3	0.048	0.0025	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-40	0.94	C H H3	0.14	0.034	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-41	0.94	C40 H H3	0.14	0.034	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-42	0.77	H H3	0.048	0.037	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-43	0.038	J C H H3	0.095	0.029	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-44	5.2	C H H3 B	0.14	0.030	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-45	0.29	C H H3	0.095	0.037	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-46	ND	H H3	0.048	0.043	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-47	5.2	C44 H H3 E	0.14	0.030	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-48	0.33	H H3	0.048	0.035	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-49	1.8	C H H3	0.095	0.029	ng/g		01/17/22 11:38	02/06/22 17:36	1

Client Sample ID: 21L1003-02

Date Collected: 11/11/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-6

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-50	0.85	C H H3	0.095	0.033	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-51	0.29	C45 H H3	0.095	0.037	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-52	5.6	H H3	0.048	0.031	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-53	0.85	C50 H H3	0.095	0.033	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-54	0.0046	J H H3	0.048	0.00055	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-55	0.041	J H H3	0.048	0.022	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-56	0.56	H H3	0.048	0.023	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-57	ND	H H3	0.048	0.024	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-58	ND	H H3	0.048	0.022	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-59	0.082	J C H H3	0.14	0.026	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-60	0.30	H H3	0.048	0.027	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-61	5.4	C H H3	0.19	0.023	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-62	0.082	J C59 H H3	0.14	0.026	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-63	0.095	H H3	0.048	0.026	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-64	0.68	H H3	0.048	0.025	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-65	5.2	C44 H H3 E	0.14	0.030	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-66	2.4	H H3	0.048	0.022	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-67	0.027	J H H3	0.048	0.021	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-68	0.029	J H H3	0.048	0.024	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-69	1.8	C49 H H3	0.095	0.029	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-70	5.4	C61 H H3	0.19	0.023	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-71	0.94	C40 H H3	0.14	0.034	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-72	ND	H H3	0.048	0.023	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-73	0.038	J C43 H H3	0.095	0.029	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-74	5.4	C61 H H3	0.19	0.023	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-75	0.082	J C59 H H3	0.14	0.026	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-76	5.4	C61 H H3	0.19	0.023	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-77	0.067	H H3	0.048	0.025	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-78	ND	H H3	0.048	0.023	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-79	0.20	H H3	0.048	0.019	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-80	ND	H H3	0.048	0.023	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-81	ND	H H3	0.048	0.028	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-82	0.53	H H3	0.048	0.0024	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-83	10	C H H3	0.095	0.0023	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-84	1.3	H H3 B	0.048	0.0029	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-85	2.6	C H H3	0.14	0.0021	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-86	11	C H H3	0.29	0.0020	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-87	11	C86 H H3	0.29	0.0020	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-88	1.5	C H H3	0.095	0.0026	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-89	0.046	J H H3	0.048	0.0024	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-90	16	C H H3	0.14	0.0022	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-91	1.5	C88 H H3	0.095	0.0026	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-92	1.9	H H3	0.048	0.0026	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-93	0.11	q C H H3	0.095	0.0026	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-94	0.025	J q H H3	0.048	0.0029	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-95	11	H H3	0.048	0.0026	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-96	0.017	J H H3	0.048	0.0017	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-97	11	C86 H H3	0.29	0.0020	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-98	0.45	C H H3	0.095	0.0022	ng/g		01/17/22 11:38	02/06/22 17:36	1

Client Sample ID: 21L1003-02

Date Collected: 11/11/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-6

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-99	10	C83 H H3	0.095	0.0023	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-100	0.11	q C93 H H3	0.095	0.0026	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-101	16	C90 H H3	0.14	0.0022	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-102	0.45	C98 H H3	0.095	0.0022	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-103	0.032	J q H H3	0.048	0.0024	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-104	ND	H H3	0.048	0.0020	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-105	7.6	H H3	0.048	0.033	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-106	ND	H H3	0.048	0.029	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-107	1.0	H H3	0.048	0.028	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-108	0.62	C H H3	0.095	0.032	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-109	11	C86 H H3	0.29	0.0020	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-110	12	C H H3	0.095	0.0016	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-111	ND	H H3	0.048	0.0017	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-112	0.071	q H H3	0.048	0.0015	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-113	16	C90 H H3	0.14	0.0022	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-114	0.69	H H3	0.048	0.032	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-115	12	C110 H H3	0.095	0.0016	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-116	2.6	C85 H H3	0.14	0.0021	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-117	2.6	C85 H H3	0.14	0.0021	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-118	35	H H3 B	0.048	0.030	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-119	11	C86 H H3	0.29	0.0020	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-120	0.016	J H H3	0.048	0.0014	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-121	ND	H H3	0.048	0.0016	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-122	0.24	H H3	0.048	0.038	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-123	0.69	H H3	0.048	0.034	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-124	0.62	C108 H H3	0.095	0.032	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-125	11	C86 H H3	0.29	0.0020	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-126	ND	H H3	0.048	0.030	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-127	ND	H H3	0.048	0.029	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-128	2.1	C H H3	0.095	0.0045	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-129	22	C H H3 B	0.19	0.0048	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-130	1.0	H H3	0.048	0.0066	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-131	0.19	H H3	0.048	0.0060	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-132	2.1	H H3	0.048	0.0057	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-133	0.15	H H3	0.048	0.0051	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-134	0.60	C H H3	0.095	0.0059	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-135	2.1	C H H3 B	0.095	0.00093	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-136	0.70	H H3 B	0.048	0.00070	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-137	1.1	H H3	0.048	0.0055	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-138	22	C129 H H3 B	0.19	0.0048	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-139	0.31	C H H3	0.095	0.0049	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-140	0.31	C139 H H3	0.095	0.0049	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-141	0.68	H H3	0.048	0.0053	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-142	0.0078	J q H H3	0.048	0.0058	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-143	0.60	C134 H H3	0.095	0.0059	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-144	0.39	H H3	0.048	0.00094	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-145	0.0073	J H H3	0.048	0.00063	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-146	2.1	H H3	0.048	0.0044	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-147	8.2	C H H3 B	0.095	0.0047	ng/g		01/17/22 11:38	02/06/22 17:36	1

Client Sample ID: 21L1003-02

Date Collected: 11/11/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-6

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-148	0.0092	J q H H3	0.048	0.00091	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-149	8.2	C147 H H3 B	0.095	0.0047	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-150	0.012	J H H3	0.048	0.00068	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-151	2.1	C135 H H3 B	0.095	0.00093	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-152	0.0089	J H H3 B	0.048	0.00060	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-153	24	C H H3 B	0.095	0.0041	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-154	0.14	H H3	0.048	0.00083	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-155	ND	H H3	0.048	0.00074	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-156	3.2	C H H3 B	0.095	0.0052	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-157	3.2	C156 H H3 B	0.095	0.0052	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-158	1.9	H H3	0.048	0.0038	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-159	ND	H H3	0.048	0.0033	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-160	22	C129 H H3 B	0.19	0.0048	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-161	0.0096	J H H3	0.048	0.0037	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-162	0.058	H H3	0.048	0.0037	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-163	22	C129 H H3 B	0.19	0.0048	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-164	0.48	H H3	0.048	0.0038	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-165	ND	H H3	0.048	0.0044	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-166	2.1	C128 H H3	0.095	0.0045	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-167	1.6	H H3	0.048	0.0032	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-168	24	C153 H H3 B	0.095	0.0041	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-169	ND	H H3	0.048	0.0030	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-170	0.33	H H3	0.048	0.00088	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-171	0.34	C H H3	0.095	0.00084	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-172	0.026	J H H3 B	0.048	0.00083	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-173	0.34	C171 H H3	0.095	0.00084	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-174	0.14	H H3	0.048	0.00076	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-175	0.037	J H H3	0.048	0.00083	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-176	0.099	H H3	0.048	0.00062	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-177	0.46	H H3 B	0.048	0.00076	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-178	0.16	H H3	0.048	0.00083	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-179	0.22	H H3 B	0.048	0.00053	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-180	1.4	C H H3 B	0.095	0.00067	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-181	0.033	J H H3 B	0.048	0.00073	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-182	0.0083	J H H3	0.048	0.00068	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-183	0.66	C H H3 B	0.095	0.00079	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-184	0.0027	J q H H3	0.048	0.00058	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-185	0.66	C183 H H3 B	0.095	0.00079	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-186	ND	H H3	0.048	0.00051	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-187	0.98	H H3	0.048	0.00067	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-188	0.0017	J q H H3	0.048	0.00056	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-189	0.022	J H H3 B	0.048	0.00068	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-190	0.28	H H3	0.048	0.00064	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-191	0.040	J H H3	0.048	0.00062	ng/g		01/17/22 11:38	02/06/22 17:36	1

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L1003-02

Date Collected: 11/11/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-6

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-192	ND	H H3	0.048	0.00055	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-193	**1.4**	**C180 H H3 B**	0.095	0.00067	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-194	**0.019**	**J q H H3**	0.048	0.0012	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-195	**0.052**	**H H3**	0.048	0.0014	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-196	**0.035**	**J H H3**	0.048	0.0011	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-197	**0.0084**	**J H H3**	0.048	0.00078	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-198	**0.051**	**J C H H3**	0.095	0.00095	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-199	**0.051**	**J C198 H H3**	0.095	0.00095	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-200	**0.0052**	**J q H H3**	0.048	0.00081	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-201	**0.036**	**J H H3**	0.048	0.00085	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-202	**0.070**	**H H3**	0.048	0.00079	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-203	**0.13**	**H H3 B**	0.048	0.00085	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-204	ND	H H3	0.048	0.00074	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-205	**0.011**	**J H H3**	0.048	0.0011	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-206	**0.033**	**J H H3**	0.048	0.0023	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-207	ND	H H3	0.048	0.0019	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-208	**0.014**	**J q H H3**	0.048	0.0019	ng/g		01/17/22 11:38	02/06/22 17:36	1
PCB-209	**0.015**	**J q H H3**	0.048	0.00028	ng/g		01/17/22 11:38	02/06/22 17:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*58*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-3L	*57*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-4L	*77*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-15L	*83*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-19L	*79*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-37L	*86*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-54L	*97*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-77L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-81L	*82*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-104L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-105L	*87*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-114L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-118L	*88*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-123L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-126L	*86*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-155L	*94*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-156L	*88*	*C*	*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-157L	*88*	*C156*	*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-167L	*88*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-169L	*86*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-170L	*89*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-188L	*83*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-189L	*98*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-202L	*108*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-205L	*86*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-206L	*78*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-208L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*
PCB-209L	*73*		*30 - 140*	*01/17/22 11:38*	*02/06/22 17:36*	*1*

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L1003-02

Date Collected: 11/11/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-6

Matrix: Tissue

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	86		40 - 125	01/17/22 11:38	02/06/22 17:36	1
PCB-111L	97		40 - 125	01/17/22 11:38	02/06/22 17:36	1
PCB-178L	95		40 - 125	01/17/22 11:38	02/06/22 17:36	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0903-01

Date Collected: 08/26/20 08:08
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-7

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND	H H3	0.41	0.0064	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-2	ND	H H3	0.41	0.0076	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-3	ND	H H3	0.41	0.0091	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-4	ND	H H3	0.81	0.019	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-5	ND	H H3	0.41	0.018	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-6	ND	H H3	0.41	0.014	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-7	ND	H H3	0.41	0.017	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-8	**0.073**	**J H H3 q**	0.81	0.013	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-9	ND	H H3	0.41	0.015	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-10	ND	H H3	0.41	0.017	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-11	**0.46**	**J H H3 B**	0.81	0.015	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-12	ND	C H H3	0.81	0.016	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-13	ND	H H3 C12	0.81	0.016	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-14	ND	H H3	0.41	0.017	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-15	ND	H H3	0.41	0.017	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-16	**0.10**	**J H H3 q**	0.41	0.024	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-17	**2.3**	**H H3**	0.41	0.024	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-18	**1.4**	**C H H3 B**	0.81	0.016	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-19	**0.14**	**J H H3**	0.41	0.022	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-20	**5.0**	**C H H3 B**	0.81	0.031	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-21	**0.52**	**J C H H3**	0.81	0.031	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-22	**0.19**	**J H H3**	0.41	0.029	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-23	ND	H H3	0.41	0.034	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-24	ND	H H3	0.41	0.017	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-25	**0.31**	**J H H3**	0.41	0.026	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-26	**0.70**	**J C H H3**	0.81	0.033	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-27	**0.54**	**H H3**	0.41	0.017	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-28	**5.0**	**H H3 B C2**	0.81	0.031	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-29	**0.70**	**J C26 H H3**	0.81	0.033	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-30	**1.4**	**H C18 H3 B**	0.81	0.016	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-31	**2.8**	**H H3 B**	0.81	0.028	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-32	**0.92**	**H H3 B**	0.41	0.015	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-33	**0.52**	**J H H3 C21**	0.81	0.031	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-34	ND	H H3	0.41	0.035	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-35	ND	H H3	0.41	0.032	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-36	ND	H H3	0.41	0.028	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-37	**0.21**	**J H H3**	0.41	0.031	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-38	ND	H H3	0.41	0.030	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-39	**0.074**	**J H H3 q**	0.41	0.031	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-40	**7.6**	**C H H3**	1.2	0.40	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-41	**7.6**	**H H3 C40**	1.2	0.40	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-42	**1.8**	**H H3 G**	0.43	0.43	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-43	**0.73**	**J C H H3**	0.81	0.33	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-44	**25**	**C H H3 B**	1.2	0.34	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-45	**1.8**	**C H H3**	0.81	0.43	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-46	ND	H H3 G	0.50	0.50	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-47	**25**	**H H3 B C4**	1.2	0.34	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-48	**2.9**	**H H3**	0.41	0.41	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-49	**18**	**C H H3**	0.81	0.34	ng/g		01/17/22 11:38	02/06/22 18:39	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0903-01

Date Collected: 08/26/20 08:08
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-7

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-50	4.1	C H H3	0.81	0.38	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-51	1.8	H H3 C45	0.81	0.43	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-52	58	H H3	0.41	0.36	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-53	4.1	H C50 H3	0.81	0.38	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-54	0.10	J H H3	0.41	0.0074	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-55	0.72	H H3 q	0.41	0.25	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-56	4.2	H H3	0.41	0.26	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-57	ND	H H3	0.41	0.28	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-58	ND	H H3	0.41	0.25	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-59	0.48	J C H H3	1.2	0.30	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-60	8.1	H H3	0.41	0.31	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-61	110	C H H3	1.6	0.26	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-62	0.48	J H H3 C5	1.2	0.30	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-63	2.2	H H3	0.41	0.30	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-64	7.3	H H3	0.41	0.29	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-65	25	H H3 B C4	1.2	0.34	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-66	46	H H3	0.41	0.26	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-67	ND	H H3	0.41	0.24	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-68	ND	H H3	0.41	0.28	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-69	18	H H3 C49	0.81	0.34	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-70	110	H C61 H3	1.6	0.26	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-71	7.6	H H3 C40	1.2	0.40	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-72	ND	H H3	0.41	0.26	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-73	0.73	J H C43 H3	0.81	0.33	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-74	110	H C61 H3	1.6	0.26	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-75	0.48	J H H3 C5	1.2	0.30	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-76	110	H C61 H3	1.6	0.26	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-77	0.58	H H3 q	0.41	0.29	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-78	ND	H H3	0.41	0.26	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-79	2.1	H H3	0.41	0.22	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-80	ND	H H3	0.41	0.27	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-81	ND	H H3	0.41	0.33	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-82	15	H H3	0.41	0.031	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-83	200	C H H3	0.81	0.030	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-84	27	H H3 B	0.41	0.039	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-85	63	C H H3	1.2	0.027	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-86	140	C H H3	2.4	0.026	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-87	140	H H3 C86	2.4	0.026	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-88	17	C H H3	0.81	0.034	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-89	0.66	H H3 q	0.41	0.031	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-90	160	C H H3	1.2	0.028	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-91	17	H C88 H3	0.81	0.034	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-92	30	H H3	0.41	0.035	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-93	1.4	C H H3	0.81	0.035	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-94	0.27	J H H3 q	0.41	0.038	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-95	94	H H3	0.41	0.034	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-96	0.50	H H3	0.41	0.023	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-97	140	H H3 C86	2.4	0.026	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-98	3.2	C H H3	0.81	0.029	ng/g		01/17/22 11:38	02/06/22 18:39	1

Client Sample ID: 21L0903-01

Date Collected: 08/26/20 08:08
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-7

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-99	200	H C83 H3	0.81	0.030	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-100	1.4	H H3 C93	0.81	0.035	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-101	160	H H3 C90	1.2	0.028	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-102	3.2	C98 H H3	0.81	0.029	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-103	0.74	H H3	0.41	0.031	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-104	ND	H H3	0.41	0.026	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-105	180	H H3	0.41	0.26	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-106	ND	H H3	0.41	0.23	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-107	25	H H3	0.41	0.23	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-108	12	C H H3	0.81	0.26	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-109	140	H H3 C86	2.4	0.026	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-110	140	C H H3	0.81	0.020	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-111	ND	H H3	0.41	0.022	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-112	1.6	H H3 q	0.41	0.020	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-113	160	H H3 C90	1.2	0.028	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-114	14	H H3	0.41	0.25	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-115	140	H H3 C110	0.81	0.020	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-116	63	H H3 C85	1.2	0.027	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-117	63	H H3 C85	1.2	0.027	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-118	430	H H3 B	0.41	0.25	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-119	140	H H3 C86	2.4	0.026	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-120	ND	H H3	0.41	0.018	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-121	ND	H H3	0.41	0.021	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-122	5.2	H H3	0.41	0.31	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-123	8.6	H H3	0.41	0.27	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-124	12	H H3 C108	0.81	0.26	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-125	140	H H3 C86	2.4	0.026	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-126	0.26	J H H3	0.41	0.25	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-127	0.97	H H3	0.41	0.23	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-128	61	C H H3	0.81	0.046	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-129	360	C H H3 B	1.6	0.049	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-130	26	H H3	0.41	0.067	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-131	3.2	H H3	0.41	0.061	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-132	40	H H3	0.41	0.058	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-133	3.4	H H3	0.41	0.052	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-134	9.7	C H H3	0.81	0.060	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-135	34	C H H3 B	0.81	0.015	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-136	11	H H3 B	0.41	0.011	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-137	34	H H3	0.41	0.056	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-138	360	H H3 B C129	1.6	0.049	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-139	6.3	C H H3	0.81	0.050	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-140	6.3	H H3 C139	0.81	0.050	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-141	25	H H3	0.41	0.054	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-142	0.14	J H H3 q	0.41	0.059	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-143	9.7	H C134 H3	0.81	0.060	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-144	8.9	H H3	0.41	0.015	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-145	0.064	J H H3 q	0.41	0.0098	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-146	34	H H3	0.41	0.045	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-147	110	C H H3 B	0.81	0.048	ng/g		01/17/22 11:38	02/06/22 18:39	1

Client Sample ID: 21L0903-01

Date Collected: 08/26/20 08:08
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-7

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-148	0.095	J H H3	0.41	0.014	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-149	110	H H3 B C147	0.81	0.048	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-150	0.13	J H H3 q	0.41	0.011	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-151	34	H C135 H3 B	0.81	0.015	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-152	0.088	J H H3 B	0.41	0.0093	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-153	230	C H H3 B	0.81	0.041	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-154	1.5	H H3	0.41	0.013	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-155	ND	H H3	0.41	0.011	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-156	70	C H H3 B	0.81	0.052	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-157	70	H C156 H3 B	0.81	0.052	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-158	42	H H3	0.41	0.039	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-159	0.31	J H H3	0.41	0.034	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-160	360	H H3 B C129	1.6	0.049	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-161	0.12	J H H3 q	0.41	0.037	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-162	1.5	H H3	0.41	0.038	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-163	360	H H3 B C129	1.6	0.049	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-164	15	H H3	0.41	0.039	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-165	ND	H H3	0.41	0.045	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-166	61	C128 H H3	0.81	0.046	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-167	18	H H3	0.41	0.033	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-168	230	H H3 B C153	0.81	0.041	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-169	ND	H H3	0.41	0.031	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-170	27	H H3	0.41	0.011	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-171	6.2	C H H3	0.81	0.011	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-172	3.0	H H3 B	0.41	0.011	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-173	6.2	H C171 H3	0.81	0.011	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-174	8.9	H H3	0.41	0.0096	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-175	0.79	H H3	0.41	0.011	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-176	1.2	H H3	0.41	0.0079	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-177	7.9	H H3 B	0.41	0.0097	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-178	2.3	H H3	0.41	0.011	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-179	1.4	H H3 B	0.41	0.0067	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-180	39	C H H3 B	0.81	0.0085	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-181	0.76	H H3 B	0.41	0.0093	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-182	0.25	J H H3	0.41	0.0087	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-183	12	C H H3 B	0.81	0.010	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-184	0.020	J H H3 q	0.41	0.0073	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-185	12	H H3 B C183	0.81	0.010	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-186	ND	H H3	0.41	0.0065	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-187	15	H H3	0.41	0.0085	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-188	0.017	J H H3 q	0.41	0.0073	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-189	1.6	H H3 B	0.41	0.020	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-190	4.7	H H3	0.41	0.0082	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-191	1.1	H H3	0.41	0.0078	ng/g		01/17/22 11:38	02/06/22 18:39	1

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0903-01
Date Collected: 08/26/20 08:08
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-7
Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-192	ND	H H3	0.41	0.0070	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-193	**39**	**C180 H H3 B**	0.81	0.0085	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-194	**3.5**	**H H3**	0.41	0.019	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-195	**1.3**	**H H3**	0.41	0.021	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-196	**2.2**	**H H3**	0.41	0.023	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-197	**0.16**	**J H H3**	0.41	0.016	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-198	**4.3**	**C H H3**	0.81	0.020	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-199	**4.3**	**H C198 H3**	0.81	0.020	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-200	**0.34**	**J H H3**	0.41	0.017	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-201	**0.64**	**H H3**	0.41	0.018	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-202	**0.86**	**H H3**	0.41	0.017	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-203	**2.9**	**H H3 B**	0.41	0.018	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-204	ND	H H3	0.41	0.016	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-205	**0.18**	**J H H3**	0.41	0.017	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-206	**1.7**	**H H3**	0.41	0.070	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-207	**0.25**	**J H H3 q**	0.41	0.060	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-208	**0.48**	**H H3**	0.41	0.058	ng/g		01/17/22 11:38	02/06/22 18:39	1
PCB-209	**0.16**	**J H H3**	0.41	0.0023	ng/g		01/17/22 11:38	02/06/22 18:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*51*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-3L	*45*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-4L	*67*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-15L	*73*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-19L	*66*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-37L	*73*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-54L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-77L	*75*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-81L	*76*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-104L	*72*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-105L	*77*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-114L	*75*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-118L	*78*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-123L	*76*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-126L	*76*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-155L	*83*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-156L	*78*	*C*	*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-157L	*78*	*C156*	*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-167L	*78*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-169L	*77*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-170L	*81*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-188L	*75*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-189L	*89*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-202L	*93*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-205L	*79*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-206L	*71*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-208L	*78*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*
PCB-209L	*54*		*30 - 140*	*01/17/22 11:38*	*02/06/22 18:39*	*1*

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0903-01

Date Collected: 08/26/20 08:08
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-7

Matrix: Tissue

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	74		40 - 125	01/17/22 11:38	02/06/22 18:39	1
PCB-111L	85		40 - 125	01/17/22 11:38	02/06/22 18:39	1
PCB-178L	86		40 - 125	01/17/22 11:38	02/06/22 18:39	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0903-02

Date Collected: 09/02/20 11:02
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-8

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND	H H3	1.2	0.0093	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-2	ND	H H3	1.2	0.011	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-3	ND	H H3	1.2	0.013	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-4	ND	H H3	2.4	0.030	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-5	ND	H H3	1.2	0.029	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-6	ND	H H3	1.2	0.023	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-7	ND	H H3	1.2	0.027	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-8	**0.055**	**J q H H3**	2.4	0.022	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-9	ND	H H3	1.2	0.025	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-10	ND	H H3	1.2	0.029	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-11	**0.37**	**J H H3 B**	2.4	0.025	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-12	ND	H H3 C	2.4	0.027	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-13	ND	H H3 C12	2.4	0.027	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-14	ND	H H3	1.2	0.027	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-15	**0.076**	**J q H H3**	1.2	0.029	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-16	**0.15**	**J H H3**	1.2	0.032	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-17	**1.9**	**H H3**	1.2	0.032	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-18	**1.3**	**J H H3 C B**	2.4	0.022	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-19	**0.17**	**J H H3**	1.2	0.030	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-20	**3.2**	**H H3 C B**	2.4	0.064	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-21	**0.33**	**J q H H3 C**	2.4	0.065	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-22	**0.084**	**J q H H3**	1.2	0.061	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-23	ND	H H3	1.2	0.070	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-24	ND	H H3	1.2	0.022	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-25	**0.17**	**J H H3**	1.2	0.055	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-26	**0.60**	**J H H3 C**	2.4	0.068	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-27	**0.57**	**J H H3**	1.2	0.023	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-28	**3.2**	**H H3 C20 E**	2.4	0.064	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-29	**0.60**	**J H H3 C26**	2.4	0.068	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-30	**1.3**	**J H H3 C18 B**	2.4	0.022	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-31	**0.96**	**J H H3 B**	2.4	0.058	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-32	**0.88**	**J H H3 B**	1.2	0.020	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-33	**0.33**	**J q H H3 C21**	2.4	0.065	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-34	ND	H H3	1.2	0.072	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-35	ND	H H3	1.2	0.066	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-36	ND	H H3	1.2	0.058	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-37	**0.38**	**J H H3**	1.2	0.065	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-38	ND	H H3	1.2	0.062	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-39	ND	H H3	1.2	0.064	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-40	**7.0**	**H H3 C**	3.5	0.45	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-41	**7.0**	**H H3 C40**	3.5	0.45	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-42	**2.6**	**H H3**	1.2	0.48	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-43	**2.3**	**J H H3 C**	2.4	0.37	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-44	**30**	**H H3 C B**	3.5	0.39	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-45	**0.69**	**J q H H3 C**	2.4	0.49	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-46	ND	H H3	1.2	0.57	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-47	**30**	**H H3 C44 E**	3.5	0.39	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-48	**2.2**	**H H3**	1.2	0.46	ng/g		01/17/22 11:38	02/07/22 16:04	3

Client Sample ID: 21L0903-02

Date Collected: 09/02/20 11:02
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-8

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-49	24	H H3 C	2.4	0.38	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-50	2.9	H H3 C	2.4	0.43	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-51	0.69	J q H H3 C45	2.4	0.49	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-52	79	H H3	1.2	0.41	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-53	2.9	H H3 C50	2.4	0.43	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-54	0.053	J q H H3	1.2	0.013	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-55	ND	H H3	1.2	0.29	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-56	2.3	q H H3	1.2	0.30	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-57	ND	H H3	1.2	0.32	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-58	ND	H H3	1.2	0.29	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-59	0.65	J H H3 C	3.5	0.34	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-60	7.0	H H3	1.2	0.36	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-61	96	H H3 C	4.7	0.29	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-62	0.65	J H H3 C59	3.5	0.34	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-63	3.1	H H3	1.2	0.34	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-64	10	H H3	1.2	0.33	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-65	30	H H3 C44 E	3.5	0.39	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-66	57	H H3	1.2	0.29	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-67	ND	H H3	1.2	0.27	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-68	ND	H H3	1.2	0.31	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-69	24	H H3 C49	2.4	0.38	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-70	96	H H3 C61	4.7	0.29	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-71	7.0	H H3 C40	3.5	0.45	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-72	ND	H H3	1.2	0.30	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-73	2.3	J H H3 C43	2.4	0.37	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-74	96	H H3 C61	4.7	0.29	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-75	0.65	J H H3 C59	3.5	0.34	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-76	96	H H3 C61	4.7	0.29	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-77	0.95	J H H3	1.2	0.34	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-78	ND	H H3	1.2	0.30	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-79	2.2	H H3	1.2	0.25	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-80	ND	H H3	1.2	0.31	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-81	ND	H H3	1.2	0.36	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-82	24	H H3	1.2	0.048	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-83	270	H H3 C	2.4	0.047	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-84	37	H H3 B	1.2	0.060	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-85	83	H H3 C	3.5	0.042	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-86	180	H H3 C	7.1	0.040	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-87	180	H H3 C86	7.1	0.040	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-88	27	H H3 C	2.4	0.053	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-89	1.5	H H3	1.2	0.049	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-90	290	H H3 C	3.5	0.044	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-91	27	H H3 C88	2.4	0.053	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-92	50	H H3	1.2	0.054	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-93	3.3	H H3 C	2.4	0.054	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-94	0.32	J q H H3	1.2	0.059	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-95	130	H H3	1.2	0.053	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-96	0.66	J H H3	1.2	0.036	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-97	180	H H3 C86	7.1	0.040	ng/g		01/17/22 11:38	02/07/22 16:04	3

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0903-02

Date Collected: 09/02/20 11:02
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-8

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-98	3.7	H H3 C	2.4	0.045	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-99	270	H H3 C83	2.4	0.047	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-100	3.3	H H3 C93	2.4	0.054	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-101	290	H H3 C90	3.5	0.044	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-102	3.7	H H3 C98	2.4	0.045	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-103	1.2	H H3	1.2	0.049	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-104	ND	H H3	1.2	0.040	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-105	230	H H3	1.2	0.97	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-106	ND	H H3	1.2	0.88	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-107	48	H H3	1.2	0.85	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-108	13	H H3 C	2.4	0.96	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-109	180	H H3 C86	7.1	0.040	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-110	240	H H3 C	2.4	0.032	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-111	ND	H H3	1.2	0.035	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-112	2.6	H H3	1.2	0.031	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-113	290	H H3 C90	3.5	0.044	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-114	29	H H3	1.2	0.96	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-115	240	H H3 C110	2.4	0.032	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-116	83	H H3 C85	3.5	0.042	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-117	83	H H3 C85	3.5	0.042	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-118	790	H H3 B	1.2	0.89	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-119	180	H H3 C86	7.1	0.040	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-120	ND	H H3	1.2	0.029	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-121	ND	H H3	1.2	0.032	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-122	5.6	H H3	1.2	1.2	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-123	17	H H3	1.2	1.1	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-124	13	H H3 C108	2.4	0.96	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-125	180	H H3 C86	7.1	0.040	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-126	ND	H H3	1.2	0.93	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-127	ND	H H3	1.2	0.88	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-128	76	H H3 C	2.4	0.13	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-129	520	H H3 C B	4.7	0.14	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-130	39	H H3	1.2	0.19	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-131	4.0	H H3	1.2	0.17	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-132	60	H H3	1.2	0.16	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-133	6.1	H H3	1.2	0.15	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-134	14	H H3 C	2.4	0.17	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-135	47	H H3 C B	2.4	0.019	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-136	18	H H3 B	1.2	0.014	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-137	71	H H3	1.2	0.16	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-138	520	H H3 C129 B	4.7	0.14	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-139	8.7	H H3 C	2.4	0.14	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-140	8.7	H H3 C139	2.4	0.14	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-141	46	H H3	1.2	0.16	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-142	ND	H H3	1.2	0.17	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-143	14	H H3 C134	2.4	0.17	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-144	12	H H3	1.2	0.019	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-145	0.21	J H H3	1.2	0.013	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-146	76	H H3	1.2	0.13	ng/g		01/17/22 11:38	02/07/22 16:04	3

Client Sample ID: 21L0903-02

Date Collected: 09/02/20 11:02
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-8

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-147	110	H H3 C B	2.4	0.14	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-148	0.19	J H H3	1.2	0.019	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-149	110	H H3 C147 B	2.4	0.14	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-150	0.19	J H H3	1.2	0.014	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-151	47	H H3 C135 B	2.4	0.019	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-152	0.14	J q H H3 B	1.2	0.012	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-153	470	H H3 C B	2.4	0.12	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-154	2.9	H H3	1.2	0.017	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-155	ND	H H3	1.2	0.015	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-156	150	H H3 C B	2.4	0.15	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-157	150	H H3 C156 B	2.4	0.15	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-158	50	H H3	1.2	0.11	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-159	0.51	J H H3	1.2	0.097	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-160	520	H H3 C129 B	4.7	0.14	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-161	ND	H H3	1.2	0.11	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-162	3.3	H H3	1.2	0.11	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-163	520	H H3 C129 B	4.7	0.14	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-164	20	H H3	1.2	0.11	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-165	ND	H H3	1.2	0.13	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-166	76	H H3 C128	2.4	0.13	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-167	40	H H3	1.2	0.093	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-168	470	H H3 C153 B	2.4	0.12	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-169	ND	H H3	1.2	0.090	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-170	62	H H3	1.2	0.029	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-171	9.8	H H3 C	2.4	0.028	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-172	6.8	H H3 B	1.2	0.028	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-173	9.8	H H3 C171	2.4	0.028	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-174	12	H H3	1.2	0.025	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-175	1.7	H H3	1.2	0.028	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-176	1.4	H H3	1.2	0.021	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-177	16	H H3 B	1.2	0.025	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-178	5.3	H H3	1.2	0.028	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-179	2.7	H H3 B	1.2	0.018	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-180	140	H H3 C B	2.4	0.022	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-181	1.8	H H3 B	1.2	0.024	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-182	ND	H H3	1.2	0.023	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-183	26	H H3 C B	2.4	0.027	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-184	ND	H H3	1.2	0.019	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-185	26	H H3 C183 B	2.4	0.027	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-186	ND	H H3	1.2	0.017	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-187	59	H H3	1.2	0.022	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-188	ND	H H3	1.2	0.019	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-189	4.4	H H3 B	1.2	0.049	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-190	13	H H3	1.2	0.021	ng/g		01/17/22 11:38	02/07/22 16:04	3

Client Sample ID: 21L0903-02

Date Collected: 09/02/20 11:02
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-8

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-191	**3.4**	**H H3**	1.2	0.021	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-192	ND	H H3	1.2	0.019	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-193	**140**	**H H3 C180 B**	2.4	0.022	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-194	**12**	**H H3**	1.2	0.079	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-195	**4.9**	**H H3**	1.2	0.089	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-196	**7.3**	**H H3**	1.2	0.032	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-197	**0.32**	**J q H H3**	1.2	0.023	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-198	**12**	**H H3 C**	2.4	0.028	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-199	**12**	**H H3 C198**	2.4	0.028	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-200	**0.34**	**J H H3**	1.2	0.024	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-201	**1.8**	**H H3**	1.2	0.025	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-202	**1.3**	**H H3**	1.2	0.023	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-203	**6.0**	**H H3 B**	1.2	0.025	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-204	ND	H H3	1.2	0.022	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-205	**0.47**	**J q H H3**	1.2	0.070	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-206	**2.3**	**H H3**	1.2	0.13	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-207	**0.62**	**J H H3**	1.2	0.10	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-208	**0.67**	**J H H3**	1.2	0.098	ng/g		01/17/22 11:38	02/07/22 16:04	3
PCB-209	**0.34**	**J H H3**	1.2	0.0040	ng/g		01/17/22 11:38	02/07/22 16:04	3

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*60*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-3L	*53*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-4L	*80*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-15L	*68*	*q*	*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-19L	*66*	*q*	*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-37L	*80*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-54L	*95*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-77L	*82*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-81L	*80*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-104L	*79*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-105L	*89*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-114L	*85*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-118L	*85*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-123L	*84*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-126L	*88*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-155L	*89*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-156L	*85*	*C*	*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-157L	*85*	*C156*	*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-167L	*84*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-169L	*85*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-170L	*87*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-188L	*79*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-189L	*91*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-202L	*105*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-205L	*88*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-206L	*76*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-208L	*86*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*
PCB-209L	*76*		*30 - 140*	*01/17/22 11:38*	*02/07/22 16:04*	*3*

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0903-02

Date Collected: 09/02/20 11:02
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-8

Matrix: Tissue

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	91		40 - 125	01/17/22 11:38	02/07/22 16:04	3
PCB-111L	95		40 - 125	01/17/22 11:38	02/07/22 16:04	3
PCB-178L	83	q	40 - 125	01/17/22 11:38	02/07/22 16:04	3

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0904-01

Date Collected: 09/11/20 10:01
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-9

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND	H H3	0.39	0.0063	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-2	ND	H H3	0.39	0.0071	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-3	ND	H H3	0.39	0.0078	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-4	ND	H H3	0.78	0.017	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-5	ND	H H3	0.39	0.016	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-6	ND	H H3	0.39	0.013	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-7	ND	H H3	0.39	0.015	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-8	**0.032**	**J H H3 q**	0.78	0.012	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-9	ND	H H3	0.39	0.014	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-10	ND	H H3	0.39	0.016	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-11	**0.65**	**J H H3 B**	0.78	0.014	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-12	ND	C H H3	0.78	0.015	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-13	ND	H H3 C12	0.78	0.015	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-14	ND	H H3	0.39	0.015	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-15	**0.021**	**J H H3 q**	0.39	0.015	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-16	**0.091**	**J H H3 q**	0.39	0.022	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-17	**3.0**	**H H3**	0.39	0.022	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-18	**1.3**	**C H H3 B**	0.78	0.015	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-19	**0.22**	**J H H3**	0.39	0.020	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-20	**3.2**	**C H H3 B**	0.78	0.024	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-21	**0.39**	**J C H H3**	0.78	0.024	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-22	**0.067**	**J H H3**	0.39	0.022	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-23	ND	H H3	0.39	0.026	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-24	ND	H H3	0.39	0.015	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-25	**0.13**	**J H H3**	0.39	0.020	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-26	**0.55**	**J C H H3 q**	0.78	0.025	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-27	**0.68**	**H H3**	0.39	0.015	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-28	**3.2**	**H H3 B C2**	0.78	0.024	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-29	**0.55**	**J C26 H H3 q**	0.78	0.025	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-30	**1.3**	**H C18 H3**	0.78	0.015	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-31	**0.50**	**J H H3 B**	0.78	0.021	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-32	**1.0**	**H H3 B**	0.39	0.014	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-33	**0.39**	**J H H3 C21**	0.78	0.024	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-34	ND	H H3	0.39	0.027	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-35	ND	H H3	0.39	0.024	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-36	ND	H H3	0.39	0.021	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-37	**0.17**	**J H H3**	0.39	0.024	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-38	ND	H H3	0.39	0.023	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-39	**0.059**	**J H H3**	0.39	0.024	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-40	**7.8**	**C H H3**	1.2	0.16	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-41	**7.8**	**H H3 C40**	1.2	0.16	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-42	**3.3**	**H H3**	0.39	0.17	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-43	**0.92**	**C H H3**	0.78	0.13	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-44	**32**	**C H H3 B**	1.2	0.14	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-45	**1.8**	**C H H3**	0.78	0.17	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-46	**0.31**	**J H H3**	0.39	0.20	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-47	**32**	**H H3 B C4**	1.2	0.14	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-48	**3.0**	**H H3**	0.39	0.17	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-49	**24**	**C H H3**	0.78	0.14	ng/g		01/17/22 11:38	02/06/22 20:43	1

Client Sample ID: 21L0904-01

Date Collected: 09/11/20 10:01
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-9

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-50	3.5	C H H3	0.78	0.15	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-51	1.8	H H3 C45	0.78	0.17	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-52	78	H H3	0.39	0.15	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-53	3.5	H C50 H3	0.78	0.15	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-54	0.085	J H H3	0.39	0.0070	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-55	0.66	H H3	0.39	0.10	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-56	2.6	H H3	0.39	0.11	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-57	ND	H H3	0.39	0.11	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-58	ND	H H3	0.39	0.10	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-59	0.77	J C H H3 q	1.2	0.12	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-60	5.7	H H3	0.39	0.13	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-61	64	C H H3	1.6	0.11	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-62	0.77	J H H3 C59 q	1.2	0.12	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-63	1.9	H H3	0.39	0.12	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-64	11	H H3	0.39	0.12	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-65	32	H H3 B C4	1.2	0.14	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-66	35	H H3	0.39	0.10	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-67	ND	H H3	0.39	0.097	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-68	ND	H H3	0.39	0.11	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-69	24	H H3 C49	0.78	0.14	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-70	64	H C61 H3	1.6	0.11	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-71	7.8	H H3 C40	1.2	0.16	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-72	ND	H H3	0.39	0.11	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-73	0.92	H C43 H3	0.78	0.13	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-74	64	H C61 H3	1.6	0.11	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-75	0.77	J H H3 C59 q	1.2	0.12	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-76	64	H C61 H3	1.6	0.11	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-77	0.36	J H H3	0.39	0.12	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-78	ND	H H3	0.39	0.11	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-79	1.5	H H3	0.39	0.090	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-80	ND	H H3	0.39	0.11	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-81	ND	H H3	0.39	0.13	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-82	21	H H3	0.39	0.021	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-83	150	C H H3	0.78	0.021	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-84	38	H H3 B	0.39	0.027	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-85	52	C H H3	1.2	0.019	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-86	150	C H H3	2.3	0.018	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-87	150	H H3 C86	2.3	0.018	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-88	26	C H H3	0.78	0.023	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-89	1.2	H H3	0.39	0.022	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-90	230	C H H3	1.2	0.020	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-91	26	H C88 H3	0.78	0.023	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-92	41	H H3	0.39	0.024	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-93	2.0	C H H3	0.78	0.024	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-94	0.41	H H3	0.39	0.026	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-95	120	H H3	0.39	0.023	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-96	0.65	H H3	0.39	0.016	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-97	150	H H3 C86	2.3	0.018	ng/g		01/17/22 11:38	02/06/22 20:43	1

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0904-01
Date Collected: 09/11/20 10:01
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-9
Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-98	3.9	C H H3	0.78	0.020	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-99	150	H C83 H3	0.78	0.021	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-100	2.0	H H3 C93	0.78	0.024	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-101	230	H H3 C90	1.2	0.020	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-102	3.9	C98 H H3	0.78	0.020	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-103	0.96	H H3	0.39	0.022	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-104	ND	H H3	0.39	0.018	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-105	130	H H3	0.39	0.34	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-106	ND	H H3	0.39	0.30	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-107	21	H H3	0.39	0.29	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-108	7.6	C H H3	0.78	0.33	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-109	150	H H3 C86	2.3	0.018	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-110	210	C H H3	0.78	0.014	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-111	ND	H H3	0.39	0.015	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-112	2.0	H H3	0.39	0.014	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-113	230	H H3 C90	1.2	0.020	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-114	13	H H3	0.39	0.32	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-115	210	H H3 C110	0.78	0.014	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-116	52	H H3 C85	1.2	0.019	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-117	52	H H3 C85	1.2	0.019	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-118	360	H H3 B	0.39	0.31	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-119	150	H H3 C86	2.3	0.018	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-120	ND	H H3	0.39	0.013	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-121	ND	H H3	0.39	0.014	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-122	3.7	H H3 G	0.40	0.40	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-123	8.0	H H3	0.39	0.36	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-124	7.6	H H3 C108	0.78	0.33	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-125	150	H H3 C86	2.3	0.018	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-126	ND	H H3	0.39	0.32	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-127	0.93	H H3	0.39	0.30	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-128	47	C H H3	0.78	0.046	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-129	270	C H H3 B	1.6	0.048	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-130	19	H H3	0.39	0.066	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-131	3.3	H H3	0.39	0.060	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-132	55	H H3	0.39	0.057	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-133	2.7	H H3	0.39	0.051	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-134	11	C H H3	0.78	0.059	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-135	35	C H H3 B	0.78	0.011	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-136	16	H H3 B	0.39	0.0086	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-137	30	H H3	0.39	0.056	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-138	270	H H3 B C129	1.6	0.048	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-139	5.6	C H H3	0.78	0.049	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-140	5.6	H H3 C139	0.78	0.049	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-141	33	H H3	0.39	0.054	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-142	ND	H H3	0.39	0.059	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-143	11	H C134 H3	0.78	0.059	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-144	7.6	H H3	0.39	0.011	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-145	0.20	J H H3 q	0.39	0.0077	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-146	31	H H3	0.39	0.044	ng/g		01/17/22 11:38	02/06/22 20:43	1

Client Sample ID: 21L0904-01

Date Collected: 09/11/20 10:01
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-9

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-147	86	C H H3 B	0.78	0.047	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-148	0.11	J H H3 q	0.39	0.011	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-149	86	H H3 B C147	0.78	0.047	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-150	0.16	J H H3	0.39	0.0083	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-151	35	H C135 H3 B	0.78	0.011	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-152	0.18	J H H3 B	0.39	0.0073	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-153	190	C H H3 B	0.78	0.041	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-154	2.0	H H3	0.39	0.010	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-155	ND	H H3	0.39	0.0089	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-156	64	C H H3 B	0.78	0.052	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-157	64	H C156 H3 B	0.78	0.052	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-158	30	H H3	0.39	0.039	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-159	ND	H H3	0.39	0.033	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-160	270	H H3 B C129	1.6	0.048	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-161	ND	H H3	0.39	0.037	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-162	1.5	H H3	0.39	0.037	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-163	270	H H3 B C129	1.6	0.048	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-164	13	H H3	0.39	0.039	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-165	ND	H H3	0.39	0.045	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-166	47	C128 H H3	0.78	0.046	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-167	17	H H3	0.39	0.032	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-168	190	H H3 B C153	0.78	0.041	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-169	ND	H H3	0.39	0.030	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-170	23	H H3	0.39	0.0070	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-171	5.2	C H H3	0.78	0.0067	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-172	2.5	H H3 B	0.39	0.0065	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-173	5.2	H C171 H3	0.78	0.0067	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-174	7.3	H H3	0.39	0.0060	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-175	0.56	H H3	0.39	0.0066	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-176	0.97	H H3	0.39	0.0049	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-177	5.7	H H3 B	0.39	0.0060	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-178	1.6	H H3	0.39	0.0065	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-179	2.1	H H3 B	0.39	0.0042	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-180	40	C H H3 B	0.78	0.0053	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-181	0.70	H H3 B	0.39	0.0057	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-182	0.24	J H H3	0.39	0.0054	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-183	8.7	C H H3 B	0.78	0.0063	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-184	0.020	J H H3 q	0.39	0.0045	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-185	8.7	H H3 B C183	0.78	0.0063	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-186	ND	H H3	0.39	0.0040	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-187	14	H H3	0.39	0.0053	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-188	0.024	J H H3 q	0.39	0.0045	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-189	1.5	H H3 B	0.39	0.017	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-190	4.0	H H3	0.39	0.0051	ng/g		01/17/22 11:38	02/06/22 20:43	1

Client Sample ID: 21L0904-01

Date Collected: 09/11/20 10:01
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-9

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-191	**1.0**	**H H3**	0.39	0.0049	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-192	ND	H H3	0.39	0.0044	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-193	**40**	**C180 H H3 B**	0.78	0.0053	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-194	**2.5**	**H H3**	0.39	0.019	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-195	**0.98**	**H H3**	0.39	0.022	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-196	**1.3**	**H H3**	0.39	0.014	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-197	**0.062**	**J H H3**	0.39	0.010	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-198	**1.7**	**C H H3**	0.78	0.013	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-199	**1.7**	**H C198 H3**	0.78	0.013	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-200	**0.11**	**J H H3**	0.39	0.011	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-201	**0.26**	**J H H3**	0.39	0.011	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-202	**0.23**	**J H H3**	0.39	0.010	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-203	**0.97**	**H H3 B**	0.39	0.011	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-204	ND	H H3	0.39	0.0097	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-205	**0.12**	**J H H3**	0.39	0.017	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-206	**0.54**	**H H3**	0.39	0.036	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-207	ND	H H3	0.39	0.030	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-208	**0.13**	**J H H3 q**	0.39	0.029	ng/g		01/17/22 11:38	02/06/22 20:43	1
PCB-209	**0.16**	**J H H3**	0.39	0.0021	ng/g		01/17/22 11:38	02/06/22 20:43	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*61*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-3L	*58*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-4L	*80*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-15L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-19L	*82*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-37L	*86*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-54L	*103*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-77L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-81L	*88*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-104L	*86*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-105L	*90*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-114L	*88*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-118L	*92*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-123L	*90*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-126L	*89*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-155L	*100*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-156L	*92*	*C*	*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-157L	*92*	*C156*	*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-167L	*92*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-169L	*91*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-170L	*89*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-188L	*83*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-189L	*100*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-202L	*108*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-205L	*92*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-206L	*82*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-208L	*87*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*
PCB-209L	*78*		*30 - 140*	*01/17/22 11:38*	*02/06/22 20:43*	*1*

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0904-01

Date Collected: 09/11/20 10:01
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-9

Matrix: Tissue

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	91		40 - 125	01/17/22 11:38	02/06/22 20:43	1
PCB-111L	97		40 - 125	01/17/22 11:38	02/06/22 20:43	1
PCB-178L	96		40 - 125	01/17/22 11:38	02/06/22 20:43	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0904-02

Date Collected: 08/24/20 14:48
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-10

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND	H H3	0.049	0.00046	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-2	**0.0028**	**J H H3**	0.049	0.00052	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-3	ND	H H3	0.049	0.00058	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-4	ND	H H3	0.098	0.0023	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-5	ND	H H3	0.049	0.0021	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-6	ND	H H3	0.049	0.0017	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-7	ND	H H3	0.049	0.0019	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-8	**0.0061**	**J H H3 q**	0.098	0.0016	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-9	ND	H H3	0.049	0.0018	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-10	ND	H H3	0.049	0.0021	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-11	**0.35**	**H H3 B**	0.098	0.0018	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-12	ND	C H H3	0.098	0.0019	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-13	ND	H H3 C12	0.098	0.0019	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-14	ND	H H3	0.049	0.0019	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-15	**0.0077**	**J H H3**	0.049	0.0019	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-16	**0.0069**	**J H H3 q**	0.049	0.0014	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-17	**0.046**	**J H H3**	0.049	0.0015	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-18	**0.024**	**J C H H3 B**	0.098	0.0010	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-19	ND	H H3	0.049	0.0014	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-20	**0.22**	**C H H3 B**	0.098	0.0028	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-21	**0.046**	**J C H H3**	0.098	0.0028	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-22	**0.028**	**J H H3**	0.049	0.0027	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-23	ND	H H3	0.049	0.0030	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-24	ND	H H3	0.049	0.0010	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-25	**0.016**	**J H H3**	0.049	0.0024	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-26	**0.031**	**J C H H3**	0.098	0.0030	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-27	**0.0052**	**J H H3 q**	0.049	0.0010	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-28	**0.22**	**H H3 B C2**	0.098	0.0028	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-29	**0.031**	**J C26 H H3**	0.098	0.0030	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-30	**0.024**	**J H C18 H3 B**	0.098	0.0010	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-31	**0.14**	**H H3 B**	0.098	0.0025	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-32	**0.027**	**J H H3 B**	0.049	0.00091	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-33	**0.046**	**J H H3 C21**	0.098	0.0028	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-34	ND	H H3	0.049	0.0031	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-35	ND	H H3	0.049	0.0029	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-36	ND	H H3	0.049	0.0025	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-37	**0.022**	**J H H3**	0.049	0.0029	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-38	ND	H H3	0.049	0.0027	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-39	ND	H H3	0.049	0.0028	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-40	**0.79**	**C H H3**	0.15	0.052	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-41	**0.79**	**H H3 C40**	0.15	0.052	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-42	**0.43**	**H H3 G**	0.056	0.056	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-43	**0.12**	**C H H3**	0.098	0.043	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-44	**4.5**	**C H H3 B**	0.15	0.044	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-45	**0.097**	**J C H H3**	0.098	0.056	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-46	ND	H H3 G	0.065	0.065	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-47	**4.5**	**H H3 B C4**	0.15	0.044	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-48	**0.23**	**H H3 G**	0.053	0.053	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-49	**3.5**	**C H H3**	0.098	0.044	ng/g		01/17/22 11:38	02/06/22 21:45	1

Client Sample ID: 21L0904-02

Date Collected: 08/24/20 14:48
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-10

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-50	0.20	C H H3	0.098	0.049	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-51	0.097	J H H3 C45	0.098	0.056	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-52	12	H H3	0.049	0.047	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-53	0.20	H C50 H3	0.098	0.049	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-54	0.0021	J H H3 q	0.049	0.00043	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-55	0.11	H H3	0.049	0.033	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-56	1.1	H H3	0.049	0.034	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-57	ND	H H3	0.049	0.036	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-58	ND	H H3	0.049	0.033	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-59	0.086	J C H H3	0.15	0.039	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-60	1.0	H H3	0.049	0.041	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-61	16	C H H3	0.20	0.034	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-62	0.086	J H H3 C59	0.15	0.039	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-63	0.29	H H3	0.049	0.039	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-64	1.9	H H3	0.049	0.038	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-65	4.5	H H3 B C4	0.15	0.044	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-66	6.6	H H3	0.049	0.033	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-67	ND	H H3	0.049	0.031	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-68	ND	H H3	0.049	0.036	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-69	3.5	H H3 C49	0.098	0.044	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-70	16	H C61 H3	0.20	0.034	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-71	0.79	H H3 C40	0.15	0.052	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-72	ND	H H3	0.049	0.034	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-73	0.12	H C43 H3	0.098	0.043	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-74	16	H C61 H3	0.20	0.034	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-75	0.086	J H H3 C59	0.15	0.039	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-76	16	H C61 H3	0.20	0.034	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-77	0.12	H H3	0.049	0.038	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-78	ND	H H3	0.049	0.034	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-79	0.34	H H3	0.049	0.029	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-80	ND	H H3	0.049	0.035	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-81	ND	H H3	0.049	0.043	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-82	4.9	H H3	0.049	0.0026	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-83	33	C H H3	0.098	0.0025	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-84	9.1	H H3 B	0.049	0.0032	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-85	9.7	C H H3	0.15	0.0022	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-86	30	C H H3	0.29	0.0021	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-87	30	H H3 C86	0.29	0.0021	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-88	5.6	C H H3	0.098	0.0028	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-89	0.26	H H3	0.049	0.0026	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-90	45	C H H3	0.15	0.0023	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-91	5.6	H C88 H3	0.098	0.0028	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-92	7.9	H H3	0.049	0.0029	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-93	0.38	C H H3 q	0.098	0.0028	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-94	0.071	H H3	0.049	0.0031	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-95	26	H H3	0.049	0.0028	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-96	0.11	H H3	0.049	0.0019	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-97	30	H H3 C86	0.29	0.0021	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-98	0.86	C H H3	0.098	0.0024	ng/g		01/17/22 11:38	02/06/22 21:45	1

Client Sample ID: 21L0904-02

Date Collected: 08/24/20 14:48
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-10

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-99	33	H C83 H3	0.098	0.0025	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-100	0.38	H H3 C93 (	0.098	0.0028	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-101	45	H H3 C90	0.15	0.0023	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-102	0.86	C98 H H3	0.098	0.0024	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-103	0.18	H H3	0.049	0.0026	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-104	ND	H H3	0.049	0.0021	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-105	28	H H3 G	0.12	0.12	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-106	ND	H H3 G	0.10	0.10	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-107	4.4	H H3 G	0.10	0.10	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-108	2.2	C H H3 G	0.11	0.11	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-109	30	H H3 C86	0.29	0.0021	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-110	42	C H H3	0.098	0.0017	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-111	ND	H H3	0.049	0.0018	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-112	0.26	H H3 q	0.049	0.0016	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-113	45	H H3 C90	0.15	0.0023	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-114	2.3	H H3 G	0.11	0.11	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-115	42	H H3 C110	0.098	0.0017	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-116	9.7	H H3 C85	0.15	0.0022	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-117	9.7	H H3 C85	0.15	0.0022	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-118	76	H H3 B G	0.10	0.10	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-119	30	H H3 C86	0.29	0.0021	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-120	ND	H H3	0.049	0.0015	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-121	ND	H H3	0.049	0.0017	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-122	0.94	H H3 G	0.14	0.14	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-123	1.4	H H3 G	0.12	0.12	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-124	2.2	H H3 C108 G	0.11	0.11	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-125	30	H H3 C86	0.29	0.0021	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-126	ND	H H3 G	0.11	0.11	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-127	0.17	H H3 G	0.10	0.10	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-128	9.2	C H H3	0.098	0.0061	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-129	59	C H H3 B	0.20	0.0065	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-130	4.6	H H3	0.049	0.0088	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-131	0.83	H H3	0.049	0.0080	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-132	14	H H3	0.049	0.0076	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-133	0.61	H H3	0.049	0.0068	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-134	2.6	C H H3	0.098	0.0079	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-135	8.6	C H H3 B	0.098	0.0012	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-136	3.8	H H3 B	0.049	0.00094	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-137	5.6	H H3	0.049	0.0074	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-138	59	H H3 B C129	0.20	0.0065	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-139	1.3	C H H3	0.098	0.0066	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-140	1.3	H H3 C139	0.098	0.0066	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-141	6.5	H H3	0.049	0.0072	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-142	ND	H H3	0.049	0.0078	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-143	2.6	H C134 H3	0.098	0.0079	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-144	1.8	H H3	0.049	0.0013	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-145	0.031	J H H3 q	0.049	0.00084	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-146	6.3	H H3	0.049	0.0059	ng/g		01/17/22 11:38	02/06/22 21:45	1

Client Sample ID: 21L0904-02

Date Collected: 08/24/20 14:48
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-10

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-147	22	C H H3 B	0.098	0.0063	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-148	0.032	J H H3	0.049	0.0012	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-149	22	H H3 B C147	0.098	0.0063	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-150	0.040	J H H3	0.049	0.00091	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-151	8.6	H C135 H3 B	0.098	0.0012	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-152	0.031	J H H3 B q	0.049	0.00080	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-153	40	C H H3 B	0.098	0.0054	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-154	0.50	H H3	0.049	0.0011	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-155	0.0037	J H H3	0.049	0.00098	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-156	12	C H H3 B	0.098	0.0070	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-157	12	H C156 H3 B	0.098	0.0070	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-158	6.6	H H3	0.049	0.0051	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-159	ND	H H3	0.049	0.0045	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-160	59	H H3 B C129	0.20	0.0065	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-161	ND	H H3	0.049	0.0049	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-162	0.28	H H3	0.049	0.0050	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-163	59	H H3 B C129	0.20	0.0065	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-164	2.7	H H3	0.049	0.0051	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-165	ND	H H3	0.049	0.0060	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-166	9.2	C128 H H3	0.098	0.0061	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-167	3.2	H H3	0.049	0.0043	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-168	40	H H3 B C153	0.098	0.0054	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-169	ND	H H3	0.049	0.0040	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-170	4.8	H H3	0.049	0.00050	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-171	1.2	C H H3	0.098	0.00049	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-172	0.57	H H3 B	0.049	0.00048	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-173	1.2	H C171 H3	0.098	0.00049	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-174	1.9	H H3	0.049	0.00044	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-175	0.15	H H3	0.049	0.00049	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-176	0.29	H H3	0.049	0.00036	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-177	1.5	H H3 B	0.049	0.00044	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-178	0.43	H H3	0.049	0.00048	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-179	0.48	H H3 B	0.049	0.00031	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-180	7.2	C H H3 B	0.098	0.00039	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-181	0.15	H H3 B	0.049	0.00042	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-182	0.050	H H3	0.049	0.00040	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-183	2.1	C H H3 B	0.098	0.00046	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-184	0.0052	J H H3 q	0.049	0.00034	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-185	2.1	H H3 B C183	0.098	0.00046	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-186	ND	H H3	0.049	0.00030	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-187	2.9	H H3	0.049	0.00039	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-188	0.0051	J H H3 q	0.049	0.00034	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-189	0.29	H H3 B	0.049	0.0025	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-190	0.89	H H3	0.049	0.00037	ng/g		01/17/22 11:38	02/06/22 21:45	1

Client Sample ID: 21L0904-02

Date Collected: 08/24/20 14:48
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-10

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-191	**0.20**	**H H3**	0.049	0.00036	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-192	ND	H H3	0.049	0.00032	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-193	**7.2**	**C180 H H3 B**	0.098	0.00039	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-194	**0.55**	**H H3**	0.049	0.0024	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-195	**0.22**	**H H3**	0.049	0.0027	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-196	**0.30**	**H H3**	0.049	0.0012	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-197	**0.021**	**J H H3 q**	0.049	0.00087	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-198	**0.55**	**C H H3**	0.098	0.0011	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-199	**0.55**	**H C198 H3**	0.098	0.0011	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-200	**0.041**	**J H H3 q**	0.049	0.00091	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-201	**0.087**	**H H3**	0.049	0.00095	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-202	**0.11**	**H H3**	0.049	0.00088	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-203	**0.34**	**H H3 B**	0.049	0.00095	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-204	ND	H H3	0.049	0.00083	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-205	**0.030**	**J H H3**	0.049	0.0021	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-206	**0.20**	**H H3**	0.049	0.0071	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-207	**0.037**	**J H H3**	0.049	0.0063	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-208	**0.056**	**H H3**	0.049	0.0063	ng/g		01/17/22 11:38	02/06/22 21:45	1
PCB-209	**0.057**	**H H3**	0.049	0.00036	ng/g		01/17/22 11:38	02/06/22 21:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*54*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-3L	*51*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-4L	*73*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-15L	*78*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-19L	*74*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-37L	*82*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-54L	*95*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-77L	*82*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-81L	*81*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-104L	*80*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-105L	*87*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-114L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-118L	*87*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-123L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-126L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-155L	*88*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-156L	*84*	*C*	*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-157L	*84*	*C156*	*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-167L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-169L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-170L	*86*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-188L	*80*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-189L	*94*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-202L	*102*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-205L	*85*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-206L	*78*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-208L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*
PCB-209L	*73*		*30 - 140*	*01/17/22 11:38*	*02/06/22 21:45*	*1*

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0904-02

Date Collected: 08/24/20 14:48
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-10

Matrix: Tissue

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	82		40 - 125	01/17/22 11:38	02/06/22 21:45	1
PCB-111L	92		40 - 125	01/17/22 11:38	02/06/22 21:45	1
PCB-178L	91		40 - 125	01/17/22 11:38	02/06/22 21:45	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0906-01

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-11

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	4.7	J H H3	4.8	0.12	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-2	3.4	J H H3	4.8	0.13	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-3	1.9	J H H3	4.8	0.15	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-4	76	H H3	9.5	0.33	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-5	ND	H H3	4.8	0.32	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-6	3.1	J H H3	4.8	0.25	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-7	ND	H H3	4.8	0.30	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-8	5.9	J H H3	9.5	0.24	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-9	ND	H H3	4.8	0.28	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-10	2.4	J H H3	4.8	0.31	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-11	3.8	J H H3 B	9.5	0.27	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-12	1.3	J C H H3 q	9.5	0.30	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-13	1.3	J H H3 C1 q	9.5	0.30	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-14	ND	H H3	4.8	0.30	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-15	3.2	J H H3	4.8	0.30	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-16	12	H H3	4.8	0.22	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-17	96	H H3	4.8	0.23	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-18	74	C H H3 B	9.5	0.15	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-19	21	H H3	4.8	0.21	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-20	23	C H H3 B	9.5	0.25	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-21	6.4	J C H H3	9.5	0.25	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-22	4.8	H H3	4.8	0.23	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-23	ND	H H3	4.8	0.27	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-24	1.1	J H H3	4.8	0.15	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-25	7.6	H H3	4.8	0.21	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-26	9.7	C H H3	9.5	0.26	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-27	73	H H3	4.8	0.16	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-28	23	H H3 B C2	9.5	0.25	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-29	9.7	C26 H H3	9.5	0.26	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-30	74	H C18 H3	9.5	0.15	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-31	20	H H3 B	9.5	0.22	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-32	17	H H3 B	4.8	0.14	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-33	6.4	J H H3 C21	9.5	0.25	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-34	ND	H H3	4.8	0.28	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-35	ND	H H3	4.8	0.25	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-36	ND	H H3	4.8	0.22	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-37	3.5	J H H3	4.8	0.25	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-38	ND	H H3	4.8	0.24	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-39	0.76	J H H3 q	4.8	0.25	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-40	97	C H H3	14	1.4	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-41	97	H H3 C40	14	1.4	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-42	60	H H3	4.8	1.5	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-43	6.9	J C H H3	9.5	1.2	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-44	530	C H H3 B	14	1.2	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-45	23	C H H3	9.5	1.5	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-46	4.1	J H H3 q	4.8	1.8	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-47	530	H H3 B C4	14	1.2	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-48	29	H H3	4.8	1.5	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-49	140	C H H3	9.5	1.2	ng/g		01/17/22 11:38	02/07/22 05:56	1

Client Sample ID: 21L0906-01

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-11

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-50	120	C H H3	9.5	1.4	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-51	23	H H3 C45	9.5	1.5	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-52	540	H H3	4.8	1.3	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-53	120	H C50 H3	9.5	1.4	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-54	1.3	J H H3	4.8	0.072	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-55	ND	H H3	4.8	0.92	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-56	44	H H3	4.8	0.94	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-57	ND	H H3	4.8	1.0	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-58	ND	H H3	4.8	0.92	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-59	6.5	J C H H3 q	14	1.1	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-60	21	H H3	4.8	1.1	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-61	470	C H H3	19	0.94	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-62	6.5	J H H3 C59 q	14	1.1	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-63	6.3	H H3	4.8	1.1	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-64	55	H H3	4.8	1.1	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-65	530	H H3 B C4	14	1.2	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-66	140	H H3	4.8	0.93	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-67	1.9	J H H3 q	4.8	0.86	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-68	2.2	J H H3	4.8	1.0	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-69	140	H H3 C49	9.5	1.2	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-70	470	H C61 H3	19	0.94	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-71	97	H H3 C40	14	1.4	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-72	1.8	J H H3	4.8	0.95	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-73	6.9	J H C43 H3	9.5	1.2	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-74	470	H C61 H3	19	0.94	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-75	6.5	J H H3 C59 q	14	1.1	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-76	470	H C61 H3	19	0.94	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-77	2.6	J H H3 q	4.8	1.1	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-78	ND	H H3	4.8	0.95	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-79	16	H H3	4.8	0.80	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-80	ND	H H3	4.8	0.97	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-81	ND	H H3	4.8	1.2	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-82	100	H H3	4.8	0.25	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-83	860	C H H3	9.5	0.24	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-84	240	H H3 B	4.8	0.30	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-85	250	C H H3	14	0.21	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-86	1000	C H H3	29	0.20	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-87	1000	H H3 C86	29	0.20	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-88	150	C H H3	9.5	0.27	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-89	7.6	H H3	4.8	0.25	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-90	1500	C H H3	14	0.22	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-91	150	H C88 H3	9.5	0.27	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-92	230	H H3	4.8	0.27	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-93	15	C H H3 q	9.5	0.27	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-94	4.6	J H H3	4.8	0.30	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-95	1200	H H3	4.8	0.27	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-96	3.8	J H H3	4.8	0.18	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-97	1000	H H3 C86	29	0.20	ng/g		01/17/22 11:38	02/07/22 05:56	1

Client Sample ID: 21L0906-01

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-11

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-98	42	C H H3	9.5	0.23	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-99	860	H C83 H3	9.5	0.24	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-100	15	H H3 C93 (	9.5	0.27	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-101	1500	H H3 C90	14	0.22	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-102	42	C98 H H3	9.5	0.23	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-103	5.2	H H3	4.8	0.25	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-104	ND	H H3	4.8	0.20	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-105	620	H H3	4.8	1.5	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-106	ND	H H3	4.8	1.3	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-107	83	H H3	4.8	1.3	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-108	57	C H H3	9.5	1.4	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-109	1000	H H3 C86	29	0.20	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-110	1300	C H H3	9.5	0.16	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-111	ND	H H3	4.8	0.18	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-112	6.5	H H3	4.8	0.16	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-113	1500	H H3 C90	14	0.22	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-114	51	H H3	4.8	1.4	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-115	1300	H H3 C110	9.5	0.16	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-116	250	H H3 C85	14	0.21	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-117	250	H H3 C85	14	0.21	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-118	2200	H H3 B	4.8	1.4	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-119	1000	H H3 C86	29	0.20	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-120	ND	H H3	4.8	0.15	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-121	ND	H H3	4.8	0.16	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-122	26	H H3	4.8	1.7	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-123	43	H H3	4.8	1.5	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-124	57	H H3 C108	9.5	1.4	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-125	1000	H H3 C86	29	0.20	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-126	ND	H H3	4.8	1.3	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-127	3.1	J H H3	4.8	1.3	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-128	240	C H H3	9.5	0.42	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-129	1700	C H H3 B	19	0.45	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-130	110	H H3	4.8	0.61	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-131	24	H H3	4.8	0.56	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-132	310	H H3	4.8	0.53	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-133	14	H H3	4.8	0.47	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-134	70	C H H3	9.5	0.55	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-135	260	C H H3 B	9.5	0.28	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-136	100	H H3 B	4.8	0.21	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-137	81	H H3	4.8	0.51	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-138	1700	H H3 B C129	19	0.45	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-139	32	C H H3	9.5	0.46	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-140	32	H H3 C139	9.5	0.46	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-141	54	H H3	4.8	0.50	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-142	1.4	J H H3	4.8	0.54	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-143	70	H C134 H3	9.5	0.55	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-144	50	H H3	4.8	0.28	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-145	1.1	J H H3 q	4.8	0.19	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-146	150	H H3	4.8	0.41	ng/g		01/17/22 11:38	02/07/22 05:56	1

Client Sample ID: 21L0906-01

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-11

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-147	700	C H H3 B	9.5	0.43	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-148	0.81	J H H3 q	4.8	0.27	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-149	700	H H3 B C147	9.5	0.43	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-150	1.3	J H H3	4.8	0.20	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-151	260	H C135 H3 B	9.5	0.28	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-152	1.0	J H H3 B q	4.8	0.18	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-153	1600	C H H3 B	9.5	0.38	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-154	16	H H3	4.8	0.25	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-155	ND	H H3	4.8	0.22	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-156	240	C H H3 B	9.5	0.48	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-157	240	H C156 H3 B	9.5	0.48	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-158	200	H H3	4.8	0.36	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-159	ND	H H3	4.8	0.31	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-160	1700	H H3 B C129	19	0.45	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-161	1.1	J H H3 q	4.8	0.34	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-162	5.7	H H3	4.8	0.34	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-163	1700	H H3 B C129	19	0.45	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-164	62	H H3	4.8	0.36	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-165	ND	H H3	4.8	0.41	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-166	240	C128 H H3	9.5	0.42	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-167	120	H H3	4.8	0.29	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-168	1600	H H3 B C153	9.5	0.38	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-169	ND	H H3	4.8	0.28	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-170	40	H H3	4.8	0.13	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-171	38	C H H3	9.5	0.13	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-172	3.1	J H H3 B	4.8	0.13	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-173	38	H C171 H3	9.5	0.13	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-174	18	H H3	4.8	0.11	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-175	3.8	J H H3	4.8	0.13	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-176	11	H H3	4.8	0.095	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-177	42	H H3 B	4.8	0.12	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-178	13	H H3	4.8	0.13	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-179	20	H H3 B	4.8	0.080	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-180	100	C H H3 B	9.5	0.10	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-181	3.8	J H H3 B	4.8	0.11	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-182	0.81	J H H3 q	4.8	0.10	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-183	60	C H H3 B	9.5	0.12	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-184	ND	H H3	4.8	0.087	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-185	60	H H3 B C183	9.5	0.12	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-186	ND	H H3	4.8	0.078	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-187	76	H H3	4.8	0.10	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-188	ND	H H3	4.8	0.089	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-189	2.4	J H H3 B	4.8	0.10	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-190	24	H H3	4.8	0.097	ng/g		01/17/22 11:38	02/07/22 05:56	1

Client Sample ID: 21L0906-01

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-11

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-191	**4.5**	**J H H3**	4.8	0.093	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-192	ND	H H3	4.8	0.084	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-193	**100**	**C180 H H3 B**	9.5	0.10	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-194	**1.7**	**J H H3**	4.8	0.11	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-195	**4.4**	**J H H3**	4.8	0.12	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-196	**3.7**	**J H H3**	4.8	0.13	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-197	**0.92**	**J H H3**	4.8	0.093	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-198	**5.5**	**J C H H3**	9.5	0.11	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-199	**5.5**	**J H C198 H3**	9.5	0.11	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-200	**1.3**	**J H H3**	4.8	0.097	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-201	**3.6**	**J H H3**	4.8	0.10	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-202	**5.3**	**H H3**	4.8	0.094	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-203	**12**	**H H3 B**	4.8	0.10	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-204	ND	H H3	4.8	0.088	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-205	**0.62**	**J H H3 q**	4.8	0.093	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-206	**3.4**	**J H H3 q**	4.8	0.71	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-207	ND	H H3	4.8	0.62	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-208	**1.0**	**J H H3 q**	4.8	0.61	ng/g		01/17/22 11:38	02/07/22 05:56	1
PCB-209	**0.47**	**J H H3 q**	4.8	0.080	ng/g		01/17/22 11:38	02/07/22 05:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*50*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-3L	*48*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-4L	*59*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-15L	*60*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-19L	*62*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-37L	*70*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-54L	*83*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-77L	*77*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-81L	*77*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-104L	*72*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-105L	*85*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-114L	*81*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-118L	*85*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-123L	*84*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-126L	*87*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-155L	*82*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-156L	*87*	*C*	*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-157L	*87*	*C156*	*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-167L	*87*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-169L	*86*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-170L	*90*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-188L	*79*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-189L	*96*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-202L	*103*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-205L	*89*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-206L	*83*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-208L	*89*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*
PCB-209L	*78*		*30 - 140*	*01/17/22 11:38*	*02/07/22 05:56*	*1*

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0906-01
Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-11
Matrix: Tissue

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	70		40 - 125	01/17/22 11:38	02/07/22 05:56	1
PCB-111L	87		40 - 125	01/17/22 11:38	02/07/22 05:56	1
PCB-178L	89		40 - 125	01/17/22 11:38	02/07/22 05:56	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0906-02

Date Collected: 11/12/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-12

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**0.055**	**J H H3**	0.39	0.0053	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-2	ND	H H3	0.39	0.0058	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-3	ND	H H3	0.39	0.0064	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-4	**8.6**	**H H3**	0.78	0.019	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-5	ND	H H3	0.39	0.018	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-6	**0.56**	**H H3**	0.39	0.014	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-7	ND	H H3	0.39	0.017	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-8	**0.64**	**J H H3**	0.78	0.014	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-9	ND	H H3	0.39	0.016	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-10	**0.30**	**J q H H3**	0.39	0.018	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-11	**3.6**	**H H3 B**	0.78	0.015	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-12	**0.35**	**J q C H H3**	0.78	0.017	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-13	**0.35**	**J q C12 H H3**	0.78	0.017	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-14	ND	H H3	0.39	0.017	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-15	**0.23**	**J H H3**	0.39	0.017	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-16	**1.8**	**H H3**	0.39	0.012	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-17	**14**	**H H3**	0.39	0.013	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-18	**11**	**C H H3 B**	0.78	0.0086	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-19	**3.8**	**H H3**	0.39	0.012	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-20	**1.7**	**C H H3 B**	0.78	0.035	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-21	**1.2**	**C H H3**	0.78	0.035	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-22	**1.6**	**H H3**	0.39	0.033	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-23	ND	H H3	0.39	0.038	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-24	**0.25**	**J H H3**	0.39	0.0086	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-25	**1.6**	**H H3**	0.39	0.030	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-26	**1.7**	**C H H3**	0.78	0.037	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-27	**11**	**H H3**	0.39	0.0089	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-28	**1.7**	**C20 H H3 E**	0.78	0.035	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-29	**1.7**	**C26 H H3**	0.78	0.037	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-30	**11**	**C18 H H3 E**	0.78	0.0086	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-31	**1.3**	**H H3 B**	0.78	0.031	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-32	**2.5**	**H H3 B**	0.39	0.0078	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-33	**1.2**	**C21 H H3**	0.78	0.035	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-34	ND	H H3	0.39	0.039	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-35	ND	H H3	0.39	0.036	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-36	ND	H H3	0.39	0.031	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-37	**1.2**	**H H3**	0.39	0.035	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-38	ND	H H3	0.39	0.034	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-39	**0.095**	**J H H3**	0.39	0.035	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-40	**18**	**C H H3**	1.2	0.29	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-41	**18**	**C40 H H3**	1.2	0.29	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-42	**15**	**H H3**	0.39	0.32	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-43	**1.8**	**C H H3**	0.78	0.25	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-44	**97**	**C H H3 B**	1.2	0.25	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-45	**4.2**	**C H H3**	0.78	0.32	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-46	**0.43**	**q H H3**	0.39	0.37	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-47	**97**	**C44 H H3 E**	1.2	0.25	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-48	**4.0**	**H H3**	0.39	0.30	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-49	**26**	**C H H3**	0.78	0.25	ng/g		01/17/22 11:38	02/07/22 06:58	1

Client Sample ID: 21L0906-02

Date Collected: 11/12/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-12

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-50	22	C H H3	0.78	0.28	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-51	4.2	C45 H H3	0.78	0.32	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-52	100	H H3	0.39	0.27	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-53	22	C50 H H3	0.78	0.28	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-54	0.045	J H H3	0.39	0.0068	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-55	0.67	H H3	0.39	0.19	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-56	9.3	H H3	0.39	0.19	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-57	ND	H H3	0.39	0.21	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-58	ND	H H3	0.39	0.19	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-59	1.3	C H H3	1.2	0.22	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-60	3.5	H H3	0.39	0.23	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-61	61	C H H3	1.6	0.19	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-62	1.3	C59 H H3	1.2	0.22	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-63	0.85	H H3	0.39	0.22	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-64	8.7	H H3	0.39	0.22	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-65	97	C44 H H3 E	1.2	0.25	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-66	29	H H3	0.39	0.19	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-67	0.29	J H H3	0.39	0.18	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-68	0.28	J q H H3	0.39	0.20	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-69	26	C49 H H3	0.78	0.25	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-70	61	C61 H H3	1.6	0.19	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-71	18	C40 H H3	1.2	0.29	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-72	0.23	J H H3	0.39	0.19	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-73	1.8	C43 H H3	0.78	0.25	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-74	61	C61 H H3	1.6	0.19	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-75	1.3	C59 H H3	1.2	0.22	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-76	61	C61 H H3	1.6	0.19	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-77	0.55	H H3	0.39	0.22	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-78	ND	H H3	0.39	0.19	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-79	3.0	H H3	0.39	0.16	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-80	ND	H H3	0.39	0.20	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-81	ND	H H3	0.39	0.24	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-82	11	H H3	0.39	0.018	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-83	150	C H H3	0.78	0.018	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-84	24	H H3 B	0.39	0.022	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-85	38	C H H3	1.2	0.016	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-86	170	C H H3	2.3	0.015	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-87	170	C86 H H3	2.3	0.015	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-88	24	C H H3	0.78	0.020	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-89	0.96	H H3	0.39	0.018	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-90	260	C H H3	1.2	0.017	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-91	24	C88 H H3	0.78	0.020	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-92	31	H H3	0.39	0.020	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-93	2.5	C H H3	0.78	0.020	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-94	0.35	J H H3	0.39	0.022	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-95	200	H H3	0.39	0.020	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-96	0.28	J H H3	0.39	0.013	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-97	170	C86 H H3	2.3	0.015	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-98	7.4	C H H3	0.78	0.017	ng/g		01/17/22 11:38	02/07/22 06:58	1

Client Sample ID: 21L0906-02

Date Collected: 11/12/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-12

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-99	150	C83 H H3	0.78	0.018	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-100	2.5	C93 H H3	0.78	0.020	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-101	260	C90 H H3	1.2	0.017	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-102	7.4	C98 H H3	0.78	0.017	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-103	0.65	H H3	0.39	0.018	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-104	ND	H H3	0.39	0.015	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-105	110	H H3	0.39	0.30	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-106	ND	H H3	0.39	0.27	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-107	13	H H3	0.39	0.26	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-108	9.8	C H H3	0.78	0.29	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-109	170	C86 H H3	2.3	0.015	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-110	210	C H H3	0.78	0.012	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-111	ND	H H3	0.39	0.013	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-112	1.2	H H3	0.39	0.012	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-113	260	C90 H H3	1.2	0.017	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-114	9.2	H H3	0.39	0.29	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-115	210	C110 H H3	0.78	0.012	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-116	38	C85 H H3	1.2	0.016	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-117	38	C85 H H3	1.2	0.016	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-118	440	H H3 B	0.39	0.27	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-119	170	C86 H H3	2.3	0.015	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-120	ND	H H3	0.39	0.011	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-121	ND	H H3	0.39	0.012	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-122	4.0	H H3	0.39	0.36	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-123	8.6	H H3	0.39	0.32	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-124	9.8	C108 H H3	0.78	0.29	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-125	170	C86 H H3	2.3	0.015	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-126	ND	H H3	0.39	0.29	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-127	0.58	q H H3	0.39	0.27	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-128	39	C H H3	0.78	0.046	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-129	300	C H H3 B	1.6	0.049	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-130	17	H H3	0.39	0.067	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-131	3.5	H H3	0.39	0.061	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-132	43	H H3	0.39	0.058	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-133	2.4	H H3	0.39	0.052	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-134	10	C H H3	0.78	0.060	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-135	36	C H H3 B	0.78	0.0089	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-136	13	H H3 B	0.39	0.0067	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-137	16	H H3	0.39	0.056	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-138	300	C129 H H3 B	1.6	0.049	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-139	5.1	C H H3	0.78	0.050	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-140	5.1	C139 H H3	0.78	0.050	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-141	9.8	H H3	0.39	0.054	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-142	0.17	J q H H3	0.39	0.059	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-143	10	C134 H H3	0.78	0.060	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-144	6.6	H H3	0.39	0.0089	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-145	0.15	J q H H3	0.39	0.0060	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-146	27	H H3	0.39	0.045	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-147	120	C H H3 B	0.78	0.048	ng/g		01/17/22 11:38	02/07/22 06:58	1

Client Sample ID: 21L0906-02

Date Collected: 11/12/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-12

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-148	0.14	J H H3	0.39	0.0087	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-149	120	C147 H H3 B	0.78	0.048	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-150	0.17	J H H3	0.39	0.0065	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-151	36	C135 H H3 B	0.78	0.0089	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-152	0.14	J H H3 B	0.39	0.0057	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-153	270	C H H3 B	0.78	0.041	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-154	2.2	H H3	0.39	0.0079	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-155	ND	H H3	0.39	0.0070	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-156	45	C H H3 B	0.78	0.053	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-157	45	C156 H H3 B	0.78	0.053	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-158	32	H H3	0.39	0.039	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-159	ND	H H3	0.39	0.034	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-160	300	C129 H H3 B	1.6	0.049	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-161	0.19	J H H3	0.39	0.037	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-162	0.81	q H H3	0.39	0.038	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-163	300	C129 H H3 B	1.6	0.049	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-164	8.9	H H3	0.39	0.039	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-165	ND	H H3	0.39	0.045	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-166	39	C128 H H3	0.78	0.046	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-167	19	H H3	0.39	0.032	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-168	270	C153 H H3 B	0.78	0.041	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-169	ND	H H3	0.39	0.031	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-170	5.9	H H3	0.39	0.0065	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-171	6.2	C H H3	0.78	0.0063	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-172	0.46	H H3 B	0.39	0.0062	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-173	6.2	C171 H H3	0.78	0.0063	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-174	2.9	H H3	0.39	0.0057	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-175	0.66	H H3	0.39	0.0063	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-176	1.8	H H3	0.39	0.0047	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-177	7.4	H H3 B	0.39	0.0057	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-178	2.3	H H3	0.39	0.0062	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-179	3.6	H H3 B	0.39	0.0040	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-180	18	C H H3 B	0.78	0.0050	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-181	0.55	H H3 B	0.39	0.0055	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-182	0.13	J H H3	0.39	0.0052	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-183	10	C H H3 B	0.78	0.0060	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-184	0.036	J H H3	0.39	0.0043	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-185	10	C183 H H3 B	0.78	0.0060	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-186	ND	H H3	0.39	0.0039	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-187	13	H H3	0.39	0.0050	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-188	0.027	J H H3	0.39	0.0043	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-189	0.36	J H H3 B	0.39	0.0091	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-190	3.9	H H3	0.39	0.0048	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-191	0.64	H H3	0.39	0.0046	ng/g		01/17/22 11:38	02/07/22 06:58	1

Client Sample ID: 21L0906-02

Date Collected: 11/12/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-12

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-192	ND	H H3	0.39	0.0042	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-193	**18**	**C180 H H3 B**	0.78	0.0050	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-194	**0.33**	**J H H3**	0.39	0.012	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-195	**0.83**	**H H3**	0.39	0.014	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-196	**0.71**	**H H3**	0.39	0.011	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-197	**0.15**	**J q H H3**	0.39	0.0082	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-198	**1.2**	**C H H3**	0.78	0.010	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-199	**1.2**	**C198 H H3**	0.78	0.010	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-200	**0.22**	**J H H3**	0.39	0.0086	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-201	**0.77**	**H H3**	0.39	0.0090	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-202	**1.2**	**H H3**	0.39	0.0084	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-203	**2.2**	**H H3 B**	0.39	0.0090	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-204	ND	H H3	0.39	0.0078	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-205	**0.13**	**J q H H3**	0.39	0.011	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-206	**0.72**	**H H3**	0.39	0.018	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-207	**0.12**	**J q H H3**	0.39	0.016	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-208	**0.23**	**J H H3**	0.39	0.016	ng/g		01/17/22 11:38	02/07/22 06:58	1
PCB-209	**0.064**	**J H H3**	0.39	0.0031	ng/g		01/17/22 11:38	02/07/22 06:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*59*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-3L	*58*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-4L	*78*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-15L	*80*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-19L	*77*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-37L	*84*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-54L	*104*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-77L	*86*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-81L	*88*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-104L	*82*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-105L	*90*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-114L	*87*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-118L	*91*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-123L	*88*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-126L	*89*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-155L	*92*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-156L	*91*	*C*	*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-157L	*91*	*C156*	*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-167L	*91*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-169L	*89*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-170L	*92*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-188L	*85*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-189L	*99*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-202L	*110*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-205L	*91*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-206L	*86*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-208L	*90*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*
PCB-209L	*79*		*30 - 140*	*01/17/22 11:38*	*02/07/22 06:58*	*1*

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0906-02
Date Collected: 11/12/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-12
Matrix: Tissue

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	88		40 - 125	01/17/22 11:38	02/07/22 06:58	1
PCB-111L	94		40 - 125	01/17/22 11:38	02/07/22 06:58	1
PCB-178L	96		40 - 125	01/17/22 11:38	02/07/22 06:58	1

Default Detection Limits

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Prep: HRMS-Sox

Analyte	RL		Units
PCB-1	0.010		ng/g
PCB-10	0.010		ng/g
PCB-100	0.020		ng/g
PCB-101	0.030		ng/g
PCB-102	0.020		ng/g
PCB-103	0.010		ng/g
PCB-104	0.010		ng/g
PCB-105	0.010		ng/g
PCB-106	0.010		ng/g
PCB-107	0.010		ng/g
PCB-108	0.020		ng/g
PCB-109	0.060		ng/g
PCB-11	0.020		ng/g
PCB-110	0.020		ng/g
PCB-111	0.010		ng/g
PCB-112	0.010		ng/g
PCB-113	0.030		ng/g
PCB-114	0.010		ng/g
PCB-115	0.020		ng/g
PCB-116	0.030		ng/g
PCB-117	0.030		ng/g
PCB-118	0.010		ng/g
PCB-119	0.060		ng/g
PCB-12	0.020		ng/g
PCB-120	0.010		ng/g
PCB-121	0.010		ng/g
PCB-122	0.010		ng/g
PCB-123	0.010		ng/g
PCB-124	0.020		ng/g
PCB-125	0.060		ng/g
PCB-126	0.010		ng/g
PCB-127	0.010		ng/g
PCB-128	0.020		ng/g
PCB-129	0.040		ng/g
PCB-13	0.020		ng/g
PCB-130	0.010		ng/g
PCB-131	0.010		ng/g
PCB-132	0.010		ng/g
PCB-133	0.010		ng/g
PCB-134	0.020		ng/g
PCB-135	0.020		ng/g
PCB-136	0.010		ng/g
PCB-137	0.010		ng/g
PCB-138	0.040		ng/g
PCB-139	0.020		ng/g
PCB-14	0.010		ng/g
PCB-140	0.020		ng/g
PCB-141	0.010		ng/g
PCB-142	0.010		ng/g
PCB-143	0.020		ng/g
PCB-144	0.010		ng/g
PCB-145	0.010		ng/g

Default Detection Limits

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Prep: HRMS-Sox

Analyte	RL		Units
PCB-146	0.010		ng/g
PCB-147	0.020		ng/g
PCB-148	0.010		ng/g
PCB-149	0.020		ng/g
PCB-15	0.010		ng/g
PCB-150	0.010		ng/g
PCB-151	0.020		ng/g
PCB-152	0.010		ng/g
PCB-153	0.020		ng/g
PCB-154	0.010		ng/g
PCB-155	0.010		ng/g
PCB-156	0.020		ng/g
PCB-157	0.020		ng/g
PCB-158	0.010		ng/g
PCB-159	0.010		ng/g
PCB-16	0.010		ng/g
PCB-160	0.040		ng/g
PCB-161	0.010		ng/g
PCB-162	0.010		ng/g
PCB-163	0.040		ng/g
PCB-164	0.010		ng/g
PCB-165	0.010		ng/g
PCB-166	0.020		ng/g
PCB-167	0.010		ng/g
PCB-168	0.020		ng/g
PCB-169	0.010		ng/g
PCB-17	0.010		ng/g
PCB-170	0.010		ng/g
PCB-171	0.020		ng/g
PCB-172	0.010		ng/g
PCB-173	0.020		ng/g
PCB-174	0.010		ng/g
PCB-175	0.010		ng/g
PCB-176	0.010		ng/g
PCB-177	0.010		ng/g
PCB-178	0.010		ng/g
PCB-179	0.010		ng/g
PCB-18	0.020		ng/g
PCB-180	0.020		ng/g
PCB-181	0.010		ng/g
PCB-182	0.010		ng/g
PCB-183	0.020		ng/g
PCB-184	0.010		ng/g
PCB-185	0.020		ng/g
PCB-186	0.010		ng/g
PCB-187	0.010		ng/g
PCB-188	0.010		ng/g
PCB-189	0.010		ng/g
PCB-19	0.010		ng/g
PCB-190	0.010		ng/g
PCB-191	0.010		ng/g
PCB-192	0.010		ng/g

Default Detection Limits

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Prep: HRMS-Sox

Analyte	RL		Units
PCB-193	0.020		ng/g
PCB-194	0.010		ng/g
PCB-195	0.010		ng/g
PCB-196	0.010		ng/g
PCB-197	0.010		ng/g
PCB-198	0.020		ng/g
PCB-199	0.020		ng/g
PCB-2	0.010		ng/g
PCB-20	0.020		ng/g
PCB-200	0.010		ng/g
PCB-201	0.010		ng/g
PCB-202	0.010		ng/g
PCB-203	0.010		ng/g
PCB-204	0.010		ng/g
PCB-205	0.010		ng/g
PCB-206	0.010		ng/g
PCB-207	0.010		ng/g
PCB-208	0.010		ng/g
PCB-209	0.010		ng/g
PCB-21	0.020		ng/g
PCB-22	0.010		ng/g
PCB-23	0.010		ng/g
PCB-24	0.010		ng/g
PCB-25	0.010		ng/g
PCB-26	0.020		ng/g
PCB-27	0.010		ng/g
PCB-28	0.020		ng/g
PCB-29	0.020		ng/g
PCB-3	0.010		ng/g
PCB-30	0.020		ng/g
PCB-31	0.020		ng/g
PCB-32	0.010		ng/g
PCB-33	0.020		ng/g
PCB-34	0.010		ng/g
PCB-35	0.010		ng/g
PCB-36	0.010		ng/g
PCB-37	0.010		ng/g
PCB-38	0.010		ng/g
PCB-39	0.010		ng/g
PCB-4	0.020		ng/g
PCB-40	0.030		ng/g
PCB-41	0.030		ng/g
PCB-42	0.010		ng/g
PCB-43	0.020		ng/g
PCB-44	0.030		ng/g
PCB-45	0.020		ng/g
PCB-46	0.010		ng/g
PCB-47	0.030		ng/g
PCB-48	0.010		ng/g
PCB-49	0.020		ng/g
PCB-5	0.010		ng/g
PCB-50	0.020		ng/g

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Prep: HRMS-Sox

Analyte	RL		Units
PCB-51	0.020		ng/g
PCB-52	0.010		ng/g
PCB-53	0.020		ng/g
PCB-54	0.010		ng/g
PCB-55	0.010		ng/g
PCB-56	0.010		ng/g
PCB-57	0.010		ng/g
PCB-58	0.010		ng/g
PCB-59	0.030		ng/g
PCB-6	0.010		ng/g
PCB-60	0.010		ng/g
PCB-61	0.040		ng/g
PCB-62	0.030		ng/g
PCB-63	0.010		ng/g
PCB-64	0.010		ng/g
PCB-65	0.030		ng/g
PCB-66	0.010		ng/g
PCB-67	0.010		ng/g
PCB-68	0.010		ng/g
PCB-69	0.020		ng/g
PCB-7	0.010		ng/g
PCB-70	0.040		ng/g
PCB-71	0.030		ng/g
PCB-72	0.010		ng/g
PCB-73	0.020		ng/g
PCB-74	0.040		ng/g
PCB-75	0.030		ng/g
PCB-76	0.040		ng/g
PCB-77	0.010		ng/g
PCB-78	0.010		ng/g
PCB-79	0.010		ng/g
PCB-8	0.020		ng/g
PCB-80	0.010		ng/g
PCB-81	0.010		ng/g
PCB-82	0.010		ng/g
PCB-83	0.020		ng/g
PCB-84	0.010		ng/g
PCB-85	0.030		ng/g
PCB-86	0.060		ng/g
PCB-87	0.060		ng/g
PCB-88	0.020		ng/g
PCB-89	0.010		ng/g
PCB-9	0.010		ng/g
PCB-90	0.030		ng/g
PCB-91	0.020		ng/g
PCB-92	0.010		ng/g
PCB-93	0.020		ng/g
PCB-94	0.010		ng/g
PCB-95	0.010		ng/g
PCB-96	0.010		ng/g
PCB-97	0.060		ng/g
PCB-98	0.020		ng/g

Default Detection Limits

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Prep: HRMS-Sox

Analyte	RL		Units
PCB-99	0.020		ng/g

Surrogate Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Tissue **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	PCB28L (40-125)	PCB111L (40-125)	PCB178L (40-125)
140-25780-1	21L0901-01	83	95	96
140-25780-1 DU	21L0901-01	81	90	93
140-25780-1 MS	21L0901-01	82	93	96
140-25780-1 MSD	21L0901-01	82	91	94
140-25780-2	21L0901-02	81	91	95
140-25780-3	21L0902-01	92	100	96
140-25780-3 DU	21L0902-01	90	101	100
140-25780-3 MS	21L0902-01	93	100	94
140-25780-3 MSD	21L0902-01	86	94	99
140-25780-4	21L0902-02	82	94	93
140-25780-5	21L1003-01	86	98	99
140-25780-6	21L1003-02	86	97	95
140-25780-7	21L0903-01	74	85	86
140-25780-8	21L0903-02	91	95	83 q
140-25780-9	21L0904-01	91	97	96
140-25780-10	21L0904-02	82	92	91
140-25780-11	21L0906-01	70	87	89
140-25780-12	21L0906-02	88	94	96
LCS 140-57903/18-B	Lab Control Sample	90	102	104
LCS 140-57963/15-B	Lab Control Sample	84	93	96
MB 140-57903/17-B	Method Blank	86	98	99
MB 140-57963/16-B	Method Blank	82	95	101

Surrogate Legend

PCB28L = PCB-28L
PCB111L = PCB-111L
PCB178L = PCB-178L

Isotope Dilution Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Tissue **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB1L (30-140)	PCB3L (30-140)	PCB4L (30-140)	PCB15L (30-140)	PCB19L (30-140)	PCB37L (30-140)	PCB54L (30-140)	PCB77L (30-140)
140-25780-1	21L0901-01	64	65	81	84	81	86	89	87
140-25780-1 DU	21L0901-01	60	63	77	81	77	83	89	84
140-25780-1 MS	21L0901-01	62	63	79	84	78	86	89	87
140-25780-1 MSD	21L0901-01	61	64	79	82	78	85	90	86
140-25780-2	21L0901-02	62	63	80	82	77	83	85	84
140-25780-3	21L0902-01	63	64	81	75 q	75	87	110	87
140-25780-3 DU	21L0902-01	67	69	87	86 q	85	87	111	89
140-25780-3 MS	21L0902-01	62	65	79	77 q	79	80	103	78
140-25780-3 MSD	21L0902-01	59	61	78	75 q	78	82	109	81
140-25780-4	21L0902-02	63	66	79	85	80	84	98	87
140-25780-5	21L1003-01	53	52	73	80	75	84	93	84
140-25780-6	21L1003-02	58	57	77	83	79	86	97	84
140-25780-7	21L0903-01	51	45	67	73	66	73	84	75
140-25780-8	21L0903-02	60	53	80	68 q	66 q	80	95	82
140-25780-9	21L0904-01	61	58	80	84	82	86	103	85
140-25780-10	21L0904-02	54	51	73	78	74	82	95	82
140-25780-11	21L0906-01	50	48	59	60	62	70	83	77
140-25780-12	21L0906-02	59	58	78	80	77	84	104	86
LCS 140-57903/18-B	Lab Control Sample	61	67	77	85	78	86	106	89
LCS 140-57963/15-B	Lab Control Sample	54	56	71	78	73	79	76	80
MB 140-57903/17-B	Method Blank	61	64	76	82	73	83	97	88
MB 140-57963/16-B	Method Blank	53	53	71	77	67	78	69	76

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB81L (30-140)	PCB104L (30-140)	PCB105L (30-140)	P114L (30-140)	PCB118L (30-140)	PCB123L (30-140)	PCB126L (30-140)	PCB155L (30-140)
140-25780-1	21L0901-01	84	83	90	88	91	90	91	90
140-25780-1 DU	21L0901-01	83	81	88	84	88	86	88	87
140-25780-1 MS	21L0901-01	87	81	92	88	91	89	91	92
140-25780-1 MSD	21L0901-01	85	80	91	86	90	90	90	88
140-25780-2	21L0901-02	83	80	92	87	89	88	88	88
140-25780-3	21L0902-01	88	85	95	91	94	93	90	97
140-25780-3 DU	21L0902-01	89	95	92	88	96	90	87	102
140-25780-3 MS	21L0902-01	80	81	87	80	86	81	82	92
140-25780-3 MSD	21L0902-01	83	84	87	86	90	87	85	93
140-25780-4	21L0902-02	86	85	89	87	88	86	89	95
140-25780-5	21L1003-01	84	81	87	82	84	85	85	93
140-25780-6	21L1003-02	82	84	87	84	88	85	86	94
140-25780-7	21L0903-01	76	72	77	75	78	76	76	83
140-25780-8	21L0903-02	80	79	89	85	85	84	88	89
140-25780-9	21L0904-01	88	86	90	88	92	90	89	100
140-25780-10	21L0904-02	81	80	87	84	87	84	85	88
140-25780-11	21L0906-01	77	72	85	81	85	84	87	82
140-25780-12	21L0906-02	88	82	90	87	91	88	89	92
LCS 140-57903/18-B	Lab Control Sample	87	85	91	88	89	90	89	93
LCS 140-57963/15-B	Lab Control Sample	81	75	84	78	81	80	84	81
MB 140-57903/17-B	Method Blank	85	80	89	83	86	85	87	90
MB 140-57963/16-B	Method Blank	76	76	84	82	84	80	83	83

Isotope Dilution Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Matrix: Tissue **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB156L (30-140)	PCB157L (30-140)	PCB167L (30-140)	PCB169L (30-140)	PCB170L (30-140)	PCB188L (30-140)	PCB189L (30-140)	PCB202L (30-140)
140-25780-1	21L0901-01	94 C	94 C156	92	93	91	84	104	107
140-25780-1 DU	21L0901-01	90 C	90 C156	88	89	91	82	101	106
140-25780-1 MS	21L0901-01	92 C	92 C156	91	90	94	88	106	109
140-25780-1 MSD	21L0901-01	90 C	90 C156	88	91	91	83	100	103
140-25780-2	21L0901-02	91 C	91 C156	93	91	92	83	105	104
140-25780-3	21L0902-01	88 C	88 C156	85	86	96	84	97	111
140-25780-3 DU	21L0902-01	89 C	89 C156	91	91	95	88	97	112
140-25780-3 MS	21L0902-01	86 C	86 C156	84	85	89	81	88	97
140-25780-3 MSD	21L0902-01	88 C	88 C156	85	84	88	83	98	104
140-25780-4	21L0902-02	92 C	92 C156	92	92	90	84	103	107
140-25780-5	21L1003-01	85 C	85 C156	85	85	90	83	96	105
140-25780-6	21L1003-02	88 C	88 C156	88	86	89	83	98	108
140-25780-7	21L0903-01	78 C	78 C156	78	77	81	75	89	93
140-25780-8	21L0903-02	85 C	85 C156	84	85	87	79	91	105
140-25780-9	21L0904-01	92 C	92 C156	92	91	89	83	100	108
140-25780-10	21L0904-02	84 C	84 C156	85	84	86	80	94	102
140-25780-11	21L0906-01	87 C	87 C156	87	86	90	79	96	103
140-25780-12	21L0906-02	91 C	91 C156	91	89	92	85	99	110
LCS 140-57903/18-B	Lab Control Sample	89 C	89 C156	90	88	90	85	99	109
LCS 140-57963/15-B	Lab Control Sample	87 C	87 C156	84	88	86	81	99	98
MB 140-57903/17-B	Method Blank	89 C	89 C156	90	87	90	83	99	110
MB 140-57963/16-B	Method Blank	87 C	87 C156	88	88	86	83	103	101

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	PCB205L (30-140)	PCB206L (30-140)	PCB208L (30-140)	PCB209L (30-140)
140-25780-1	21L0901-01	94	85	90	84
140-25780-1 DU	21L0901-01	90	82	85	66
140-25780-1 MS	21L0901-01	97	85	91	69
140-25780-1 MSD	21L0901-01	87	80	87	74
140-25780-2	21L0901-02	93	83	89	85
140-25780-3	21L0902-01	90	86	93	85
140-25780-3 DU	21L0902-01	92	88	96	85
140-25780-3 MS	21L0902-01	84	78	90	76
140-25780-3 MSD	21L0902-01	90	87	92	86
140-25780-4	21L0902-02	91	83	89	73
140-25780-5	21L1003-01	85	78	84	70
140-25780-6	21L1003-02	86	78	85	73
140-25780-7	21L0903-01	79	71	78	54
140-25780-8	21L0903-02	88	76	86	76
140-25780-9	21L0904-01	92	82	87	78
140-25780-10	21L0904-02	85	78	84	73
140-25780-11	21L0906-01	89	83	89	78
140-25780-12	21L0906-02	91	86	90	79
LCS 140-57903/18-B	Lab Control Sample	87	83	91	84
LCS 140-57963/15-B	Lab Control Sample	85	77	83	73
MB 140-57903/17-B	Method Blank	88	84	91	83
MB 140-57963/16-B	Method Blank	91	81	88	85

Surrogate Legend

PCB1L = PCB-1L

Isotope Dilution Summary

Client: U.S. Army Corps of Engineers
Job ID: 140-25780-1
Project/Site: USACE ERDC PCB Congeners

PCB3L = PCB-3L
PCB4L = PCB-4L
PCB15L = PCB-15L
PCB19L = PCB-19L
PCB37L = PCB-37L
PCB54L = PCB-54L
PCB77L = PCB-77L
PCB81L = PCB-81L
PCB104L = PCB-104L
PCB105L = PCB-105L
P114L = PCB-114L
PCB118L = PCB-118L
PCB123L = PCB-123L
PCB126L = PCB-126L
PCB155L = PCB-155L
PCB156L = PCB-156L
PCB157L = PCB-157L
PCB167L = PCB-167L
PCB169L = PCB-169L
PCB170L = PCB-170L
PCB188L = PCB-188L
PCB189L = PCB-189L
PCB202L = PCB-202L
PCB205L = PCB-205L
PCB206L = PCB-206L
PCB208L = PCB-208L
PCB209L = PCB-209L

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 140-57903/17-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57903

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.000557	J q	0.010	0.00011	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-2	ND		0.010	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-3	ND		0.010	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-4	0.000607	J q	0.020	0.00019	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-5	ND		0.010	0.00017	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-6	ND		0.010	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-7	ND		0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-8	0.000963	J	0.020	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-9	ND		0.010	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-10	ND		0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-11	0.00493	J	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-12	ND	C	0.020	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-13	ND	C12	0.020	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-14	ND		0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-15	0.000621	J	0.010	0.00015	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-16	0.000374	J q	0.010	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-17	ND		0.010	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-18	0.000813	J q C	0.020	0.000093	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-19	0.000361	J q	0.010	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-20	0.00122	J C	0.020	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-21	0.000901	J C	0.020	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-22	0.000532	J	0.010	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-23	ND		0.010	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-24	ND		0.010	0.000093	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-25	ND		0.010	0.00011	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-26	ND	C	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-27	ND		0.010	0.000096	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-28	0.00122	J C20	0.020	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-29	ND	C26	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-30	0.000813	J q C18	0.020	0.000093	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-31	0.000715	J q	0.020	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-32	0.000584	J q	0.010	0.000084	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-33	0.000901	J C21	0.020	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-34	ND		0.010	0.00015	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-35	0.000288	J q	0.010	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-36	ND		0.010	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-37	0.000590	J	0.010	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-38	ND		0.010	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-39	ND		0.010	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-40	ND	C	0.030	0.00053	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-41	ND	C40	0.030	0.00053	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-42	ND		0.010	0.00057	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-43	ND	C	0.020	0.00044	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-44	0.00161	J C	0.030	0.00045	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-45	ND	C	0.020	0.00057	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-46	ND		0.010	0.00066	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-47	0.00161	J C44	0.030	0.00045	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-48	ND		0.010	0.00054	ng/g		01/14/22 12:40	02/07/22 03:51	1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57903/17-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57903

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-49	ND	C	0.020	0.00045	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-50	ND	C	0.020	0.00050	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-51	ND	C45	0.020	0.00057	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-52	0.000806	J q	0.010	0.00048	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-53	ND	C50	0.020	0.00050	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-54	ND		0.010	0.00010	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-55	ND		0.010	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-56	ND		0.010	0.00035	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-57	ND		0.010	0.00037	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-58	ND		0.010	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-59	ND	C	0.030	0.00040	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-60	ND		0.010	0.00042	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-61	0.00124	J q C	0.040	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-62	ND	C59	0.030	0.00040	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-63	ND		0.010	0.00039	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-64	0.000460	J q	0.010	0.00039	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-65	0.00161	J C44	0.030	0.00045	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-66	ND		0.010	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-67	ND		0.010	0.00032	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-68	ND		0.010	0.00037	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-69	ND	C49	0.020	0.00045	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-70	0.00124	J q C61	0.040	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-71	ND	C40	0.030	0.00053	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-72	ND		0.010	0.00035	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-73	ND	C43	0.020	0.00044	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-74	0.00124	J q C61	0.040	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-75	ND	C59	0.030	0.00040	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-76	0.00124	J q C61	0.040	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-77	ND		0.010	0.00038	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-78	ND		0.010	0.00035	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-79	ND		0.010	0.00029	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-80	ND		0.010	0.00036	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-81	ND		0.010	0.00043	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-82	ND		0.010	0.00015	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-83	0.000535	J q C	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-84	ND		0.010	0.00018	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-85	ND	C	0.030	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-86	0.000667	J q C	0.060	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-87	0.000667	J q C86	0.060	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-88	ND	C	0.020	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-89	0.000287	J q	0.010	0.00015	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-90	0.000918	J q C	0.030	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-91	ND	C88	0.020	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-92	ND		0.010	0.00017	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-93	ND	C	0.020	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-94	ND		0.010	0.00018	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-95	0.000892	J	0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-96	ND		0.010	0.00011	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-97	0.000667	J q C86	0.060	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57903/17-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57903

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-98	ND	C	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-99	0.000535	J q C83	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-100	ND	C93	0.020	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-101	0.000918	J q C90	0.030	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-102	ND	C98	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-103	ND		0.010	0.00015	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-104	ND		0.010	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-105	0.000780	J	0.010	0.00017	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-106	ND		0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-107	ND		0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-108	ND	C	0.020	0.00018	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-109	0.000667	J q C86	0.060	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-110	0.00104	J q C	0.020	0.000098	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-111	ND		0.010	0.00011	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-112	ND		0.010	0.000094	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-113	0.000918	J q C90	0.030	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-114	ND		0.010	0.00018	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-115	0.00104	J q C110	0.020	0.000098	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-116	ND	C85	0.030	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-117	ND	C85	0.030	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-118	0.00150	J	0.010	0.00017	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-119	0.000667	J q C86	0.060	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-120	ND		0.010	0.000088	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-121	ND		0.010	0.000099	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-122	ND		0.010	0.00021	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-123	ND		0.010	0.00019	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-124	ND	C108	0.020	0.00018	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-125	0.000667	J q C86	0.060	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-126	ND		0.010	0.00017	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-127	ND		0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-128	0.000303	J q C	0.020	0.000077	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-129	0.00155	J C	0.040	0.000081	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-130	ND		0.010	0.00011	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-131	ND		0.010	0.00010	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-132	0.000471	J	0.010	0.000096	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-133	ND		0.010	0.000086	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-134	ND	C	0.020	0.00010	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-135	0.000628	J C	0.020	0.000041	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-136	0.000213	J q	0.010	0.000031	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-137	ND		0.010	0.000093	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-138	0.00155	J C129	0.040	0.000081	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-139	ND	C	0.020	0.000083	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-140	ND	C139	0.020	0.000083	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-141	0.000272	J q	0.010	0.000090	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-142	ND		0.010	0.000098	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-143	ND	C134	0.020	0.00010	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-144	ND		0.010	0.000041	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-145	ND		0.010	0.000028	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-146	ND		0.010	0.000074	ng/g		01/14/22 12:40	02/07/22 03:51	1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57903/17-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57903

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-147	0.000802	J q C	0.020	0.000079	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-148	ND		0.010	0.000040	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-149	0.000802	J q C147	0.020	0.000079	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-150	0.0000752	J q	0.010	0.000030	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-151	0.000628	J C135	0.020	0.000041	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-152	ND		0.010	0.000026	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-153	0.00121	J C	0.020	0.000069	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-154	ND		0.010	0.000036	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-155	ND		0.010	0.000032	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-156	0.000308	J q C	0.020	0.000088	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-157	0.000308	J q C156	0.020	0.000088	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-158	0.000150	J	0.010	0.000065	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-159	ND		0.010	0.000056	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-160	0.00155	J C129	0.040	0.000081	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-161	ND		0.010	0.000062	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-162	ND		0.010	0.000062	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-163	0.00155	J C129	0.040	0.000081	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-164	ND		0.010	0.000065	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-165	ND		0.010	0.000075	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-166	0.000303	J q C128	0.020	0.000077	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-167	0.000194	J	0.010	0.000053	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-168	0.00121	J C153	0.020	0.000069	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-169	ND		0.010	0.000051	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-170	0.000688	J	0.010	0.000049	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-171	0.000328	J C	0.020	0.000049	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-172	ND		0.010	0.000048	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-173	0.000328	J C171	0.020	0.000049	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-174	0.000680	J	0.010	0.000044	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-175	0.0000669	J q	0.010	0.000048	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-176	0.000193	J q	0.010	0.000036	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-177	0.000350	J q	0.010	0.000044	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-178	0.000167	J q	0.010	0.000048	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-179	0.000148	J q	0.010	0.000031	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-180	0.00135	J C	0.020	0.000039	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-181	ND		0.010	0.000042	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-182	ND		0.010	0.000040	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-183	0.00108	J C	0.020	0.000046	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-184	ND		0.010	0.000033	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-185	0.00108	J C183	0.020	0.000046	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-186	0.0000518	J	0.010	0.000030	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-187	0.000621	J q	0.010	0.000039	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-188	ND		0.010	0.000034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-189	ND		0.010	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-190	ND		0.010	0.000037	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-191	ND		0.010	0.000036	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-192	0.0000789	J q	0.010	0.000032	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-193	0.00135	J C180	0.020	0.000039	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-194	ND		0.010	0.000081	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-195	0.000258	J q	0.010	0.000091	ng/g		01/14/22 12:40	02/07/22 03:51	1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57903/17-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57903

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-196	0.000424	J	0.010	0.000035	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-197	ND		0.010	0.000025	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-198	0.000309	J C	0.020	0.000031	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-199	0.000309	J C198	0.020	0.000031	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-200	ND		0.010	0.000027	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-201	ND		0.010	0.000028	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-202	ND		0.010	0.000026	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-203	ND		0.010	0.000028	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-204	0.0000702	J q	0.010	0.000024	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-205	ND		0.010	0.000072	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-206	ND		0.010	0.00064	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-207	ND		0.010	0.00055	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-208	ND		0.010	0.00054	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-209	0.00141	J q	0.010	0.000055	ng/g		01/14/22 12:40	02/07/22 03:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*61*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-3L	*64*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-4L	*76*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-15L	*82*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-19L	*73*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-37L	*83*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-54L	*97*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-77L	*88*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-81L	*85*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-104L	*80*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-105L	*89*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-114L	*83*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-118L	*86*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-123L	*85*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-126L	*87*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-155L	*90*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-156L	*89*	*C*	*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-157L	*89*	*C156*	*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-167L	*90*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-169L	*87*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-170L	*90*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-188L	*83*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-189L	*99*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-202L	*110*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-205L	*88*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-206L	*84*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-208L	*91*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-209L	*83*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*86*		*40 - 125*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-111L	*98*		*40 - 125*	*01/14/22 12:40*	*02/07/22 03:51*	*1*

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57903/17-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57903

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-178L	*99*		*40 - 125*	*01/14/22 12:40*	*02/07/22 03:51*	*1*

Lab Sample ID: LCS 140-57903/18-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	0.500	0.521		ng/g		104	48 - 136
PCB-3	0.500	0.502		ng/g		100	58 - 137
PCB-4	0.500	0.473		ng/g		95	57 - 140
PCB-15	0.500	0.476		ng/g		95	64 - 148
PCB-19	0.500	0.548		ng/g		110	74 - 125
PCB-37	0.500	0.533		ng/g		107	61 - 148
PCB-54	0.500	0.491		ng/g		98	67 - 124
PCB-77	0.500	0.487		ng/g		97	75 - 118
PCB-81	0.500	0.513		ng/g		103	78 - 124
PCB-104	0.500	0.473		ng/g		95	81 - 118
PCB-105	0.500	0.528		ng/g		106	84 - 127
PCB-114	0.500	0.518		ng/g		104	87 - 124
PCB-118	0.500	0.530		ng/g		106	79 - 137
PCB-123	0.500	0.550		ng/g		110	81 - 134
PCB-126	0.500	0.529		ng/g		106	79 - 123
PCB-155	0.500	0.526		ng/g		105	76 - 121
PCB-156	1.00	1.02	C	ng/g		102	84 - 125
PCB-157	1.00	1.02	C156	ng/g		102	
PCB-167	0.500	0.498		ng/g		100	82 - 132
PCB-169	0.500	0.502		ng/g		100	77 - 121
PCB-188	0.500	0.495		ng/g		99	78 - 117
PCB-189	0.500	0.544		ng/g		109	85 - 119
PCB-202	0.500	0.491		ng/g		98	76 - 118
PCB-205	0.500	0.530		ng/g		106	72 - 128
PCB-206	0.500	0.491		ng/g		98	74 - 121
PCB-208	0.500	0.504		ng/g		101	80 - 120
PCB-209	0.500	0.487		ng/g		97	83 - 133

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-1L	*61*		*30 - 140*
PCB-3L	*67*		*30 - 140*
PCB-4L	*77*		*30 - 140*
PCB-15L	*85*		*30 - 140*
PCB-19L	*78*		*30 - 140*
PCB-37L	*86*		*30 - 140*
PCB-54L	*106*		*30 - 140*
PCB-77L	*89*		*30 - 140*
PCB-81L	*87*		*30 - 140*
PCB-104L	*85*		*30 - 140*
PCB-105L	*91*		*30 - 140*
PCB-114L	*88*		*30 - 140*

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 140-57903/18-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57903

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-118L	*89*		*30 - 140*
PCB-123L	*90*		*30 - 140*
PCB-126L	*89*		*30 - 140*
PCB-155L	*93*		*30 - 140*
PCB-156L	*89*	*C*	*30 - 140*
PCB-157L	*89*	*C156*	*30 - 140*
PCB-167L	*90*		*30 - 140*
PCB-169L	*88*		*30 - 140*
PCB-170L	*90*		*30 - 140*
PCB-188L	*85*		*30 - 140*
PCB-189L	*99*		*30 - 140*
PCB-202L	*109*		*30 - 140*
PCB-205L	*87*		*30 - 140*
PCB-206L	*83*		*30 - 140*
PCB-208L	*91*		*30 - 140*
PCB-209L	*84*		*30 - 140*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
PCB-28L	*90*		*40 - 125*
PCB-111L	*102*		*40 - 125*
PCB-178L	*104*		*40 - 125*

Lab Sample ID: 140-25780-3 MS
Matrix: Tissue
Analysis Batch: 58643

Client Sample ID: 21L0902-01
Prep Type: Total/NA
Prep Batch: 57903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	ND	H H3	3.88	4.18	H H3	ng/g		108	48 - 136
PCB-3	ND	H H3	3.88	3.85	H H3	ng/g		99	58 - 137
PCB-4	0.21	J q H H3 B	3.88	3.95	H H3	ng/g		96	57 - 140
PCB-15	0.11	J q H H3 B	3.88	3.87	H H3	ng/g		97	64 - 148
PCB-19	0.56	J H H3 B	3.88	5.12	H H3	ng/g		118	74 - 125
PCB-37	0.58	J q H H3 B	3.88	4.79	H H3	ng/g		109	61 - 148
PCB-54	0.12	J H H3	3.88	4.05	H H3	ng/g		102	67 - 124
PCB-77	0.86	J q H H3	3.88	4.58	H H3	ng/g		96	75 - 118
PCB-81	ND	H H3	3.88	4.29	H H3	ng/g		111	78 - 124
PCB-104	ND	H H3	3.88	3.90	H H3	ng/g		101	81 - 118
PCB-105	440	H H3 B	3.88	428	H H3 4	ng/g		-374	84 - 127
PCB-114	41	H H3	3.88	41.3	H H3 4	ng/g		12	87 - 124
PCB-118	1200	H H3 B	3.88	1150	H H3 4	ng/g		-1151	79 - 137
PCB-123	22	H H3	3.88	25.2	H H3 4	ng/g		79	81 - 134
PCB-126	ND	H H3	3.88	3.59	q H H3	ng/g		93	79 - 123
PCB-155	ND	H H3	3.88	4.04	H H3	ng/g		104	76 - 121
PCB-156	210	C H H3 B	7.75	211	C H H3 4	ng/g		12	84 - 125
PCB-157	210	C156 H H3 B	7.75	211	C156 H H3 4	ng/g		12	

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-3 MS
Matrix: Tissue
Analysis Batch: 58643

Client Sample ID: 21L0902-01
Prep Type: Total/NA
Prep Batch: 57903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-167	52	H H3 B	3.88	53.8	H H3 4	ng/g		57	82 - 132
PCB-169	ND	H H3	3.88	4.20	H H3	ng/g		108	77 - 121
PCB-188	ND	H H3	3.88	3.78	H H3	ng/g		98	78 - 117
PCB-189	5.0	H H3 F1	3.88	9.52	H H3	ng/g		118	85 - 119
PCB-202	1.5	H H3	3.88	5.49	H H3	ng/g		102	76 - 118
PCB-205	0.46	J H H3	3.88	4.58	H H3	ng/g		106	72 - 128
PCB-206	3.0	H H3	3.88	7.14	H H3	ng/g		108	74 - 121
PCB-208	0.82	J H H3	3.88	4.66	H H3	ng/g		99	80 - 120
PCB-209	0.40	J H H3 B	3.88	4.41	H H3	ng/g		104	83 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
PCB-1L	*62*		*30 - 140*
PCB-3L	*65*		*30 - 140*
PCB-4L	*79*		*30 - 140*
PCB-15L	*77*	*q*	*30 - 140*
PCB-19L	*79*		*30 - 140*
PCB-37L	*80*		*30 - 140*
PCB-54L	*103*		*30 - 140*
PCB-77L	*78*		*30 - 140*
PCB-81L	*80*		*30 - 140*
PCB-104L	*81*		*30 - 140*
PCB-105L	*87*		*30 - 140*
PCB-114L	*80*		*30 - 140*
PCB-118L	*86*		*30 - 140*
PCB-123L	*81*		*30 - 140*
PCB-126L	*82*		*30 - 140*
PCB-155L	*92*		*30 - 140*
PCB-156L	*86*	*C*	*30 - 140*
PCB-157L	*86*	*C156*	*30 - 140*
PCB-167L	*84*		*30 - 140*
PCB-169L	*85*		*30 - 140*
PCB-170L	*89*		*30 - 140*
PCB-188L	*81*		*30 - 140*
PCB-189L	*88*		*30 - 140*
PCB-202L	*97*		*30 - 140*
PCB-205L	*84*		*30 - 140*
PCB-206L	*78*		*30 - 140*
PCB-208L	*90*		*30 - 140*
PCB-209L	*76*		*30 - 140*

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
PCB-28L	*93*		*40 - 125*
PCB-111L	*100*		*40 - 125*
PCB-178L	*94*		*40 - 125*

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-3 MSD
Matrix: Tissue
Analysis Batch: 58643

Client Sample ID: 21L0902-01
Prep Type: Total/NA
Prep Batch: 57903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1	ND	H H3	3.91	3.98	H H3	ng/g		102	48 - 136	5	50
PCB-3	ND	H H3	3.91	4.14	H H3	ng/g		106	58 - 137	7	50
PCB-4	0.21	J q H H3 B	3.91	3.88	H H3	ng/g		94	57 - 140	2	50
PCB-15	0.11	J q H H3 B	3.91	3.52	H H3	ng/g		87	64 - 148	10	50
PCB-19	0.56	J H H3 B	3.91	5.39	H H3	ng/g		124	74 - 125	5	50
PCB-37	0.58	J q H H3 B	3.91	4.79	H H3	ng/g		108	61 - 148	0	50
PCB-54	0.12	J H H3	3.91	3.92	H H3	ng/g		97	67 - 124	3	50
PCB-77	0.86	J q H H3	3.91	4.85	H H3	ng/g		102	75 - 118	6	50
PCB-81	ND	H H3	3.91	4.50	H H3	ng/g		115	78 - 124	5	50
PCB-104	ND	H H3	3.91	3.78	H H3	ng/g		97	81 - 118	3	50
PCB-105	440	H H3 B	3.91	513	G H H3 4	ng/g		1805	84 - 127	18	50
PCB-114	41	H H3	3.91	47.4	G H H3 4	ng/g		171	87 - 124	14	50
PCB-118	1200	H H3 B	3.91	1340	H H3 4	ng/g		3679	79 - 137	15	50
PCB-123	22	H H3	3.91	28.9	G H H3 4	ng/g		174	81 - 134	14	50
PCB-126	ND	H H3	3.91	3.94	G H H3	ng/g		101	79 - 123	9	50
PCB-155	ND	H H3	3.91	4.01	H H3	ng/g		103	76 - 121	1	50
PCB-156	210	C H H3 B	7.81	245	C H H3 4	ng/g		449	84 - 125	15	50
PCB-157	210	C156 H H3 B	7.81	245	C156 H H3 4	ng/g		449		15	50
PCB-167	52	H H3 B	3.91	62.5	H H3 4	ng/g		281	82 - 132	15	50
PCB-169	ND	H H3	3.91	4.49	H H3	ng/g		115	77 - 121	7	50
PCB-188	ND	H H3	3.91	3.73	H H3	ng/g		95	78 - 117	1	50
PCB-189	5.0	H H3 F1	3.91	9.99	H H3 F1	ng/g		129	85 - 119	5	50
PCB-202	1.5	H H3	3.91	5.50	H H3	ng/g		101	76 - 118	0	50
PCB-205	0.46	J H H3	3.91	4.53	H H3	ng/g		104	72 - 128	1	50
PCB-206	3.0	H H3	3.91	7.26	H H3	ng/g		110	74 - 121	2	50
PCB-208	0.82	J H H3	3.91	4.72	H H3	ng/g		100	80 - 120	1	50
PCB-209	0.40	J H H3 B	3.91	4.39	H H3	ng/g		102	83 - 133	0	50

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
PCB-1L	*59*		*30 - 140*
PCB-3L	*61*		*30 - 140*
PCB-4L	*78*		*30 - 140*
PCB-15L	*75*	*q*	*30 - 140*
PCB-19L	*78*		*30 - 140*
PCB-37L	*82*		*30 - 140*
PCB-54L	*109*		*30 - 140*
PCB-77L	*81*		*30 - 140*
PCB-81L	*83*		*30 - 140*
PCB-104L	*84*		*30 - 140*
PCB-105L	*87*		*30 - 140*
PCB-114L	*86*		*30 - 140*
PCB-118L	*90*		*30 - 140*
PCB-123L	*87*		*30 - 140*
PCB-126L	*85*		*30 - 140*
PCB-155L	*93*		*30 - 140*

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-3 MSD
Matrix: Tissue
Analysis Batch: 58643

Client Sample ID: 21L0902-01
Prep Type: Total/NA
Prep Batch: 57903

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
PCB-156L	*88*	*C*	*30 - 140*
PCB-157L	*88*	*C156*	*30 - 140*
PCB-167L	*85*		*30 - 140*
PCB-169L	*84*		*30 - 140*
PCB-170L	*88*		*30 - 140*
PCB-188L	*83*		*30 - 140*
PCB-189L	*98*		*30 - 140*
PCB-202L	*104*		*30 - 140*
PCB-205L	*90*		*30 - 140*
PCB-206L	*87*		*30 - 140*
PCB-208L	*92*		*30 - 140*
PCB-209L	*86*		*30 - 140*

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
PCB-28L	*86*		*40 - 125*
PCB-111L	*94*		*40 - 125*
PCB-178L	*99*		*40 - 125*

Lab Sample ID: 140-25780-3 DU
Matrix: Tissue
Analysis Batch: 58643

Client Sample ID: 21L0902-01
Prep Type: Total/NA
Prep Batch: 57903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
PCB-1	ND	H H3	ND	H H3	ng/g		NC	50
PCB-2	ND	H H3	ND	H H3	ng/g		NC	
PCB-3	ND	H H3	ND	H H3	ng/g		NC	50
PCB-4	0.21	J q H H3 B	0.262	J H H3	ng/g		21	50
PCB-5	ND	H H3	ND	H H3	ng/g		NC	
PCB-6	0.17	J H H3	0.111	J q H H3	ng/g		41	
PCB-7	0.040	J q H H3	ND	H H3	ng/g		NC	
PCB-8	0.73	J H H3 B	0.668	J H H3	ng/g		9	
PCB-9	0.073	J q H H3	0.111	J q H H3	ng/g		42	
PCB-10	ND	H H3	ND	H H3	ng/g		NC	
PCB-11	0.35	J H H3 B	0.318	J H H3	ng/g		11	
PCB-12	ND	C H H3	ND	C H H3	ng/g		NC	
PCB-13	ND	C12 H H3	ND	C12 H H3	ng/g		NC	
PCB-14	ND	H H3	ND	H H3	ng/g		NC	
PCB-15	0.11	J q H H3 B	0.0735	J H H3	ng/g		39	50
PCB-16	0.86	J H H3 B	0.758	J H H3	ng/g		12	
PCB-17	4.5	H H3	4.02	H H3	ng/g		12	
PCB-18	3.6	C H H3 B	3.20	C H H3	ng/g		12	
PCB-19	0.56	J H H3 B	0.498	J H H3	ng/g		12	50
PCB-20	7.1	C H H3 B	6.62	C H H3	ng/g		7	
PCB-21	1.6	J C H H3 B	1.66	J C H H3	ng/g		4	
PCB-22	0.71	J H H3 B	0.662	J H H3	ng/g		8	
PCB-23	ND	H H3	ND	H H3	ng/g		NC	

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-3 DU
Matrix: Tissue
Analysis Batch: 58643

Client Sample ID: 21L0902-01
Prep Type: Total/NA
Prep Batch: 57903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
PCB-24	0.061	J H H3	ND	H H3	ng/g		NC	
PCB-25	0.50	J q H H3	0.469	J H H3	ng/g		6	
PCB-26	1.6	J C H H3	1.55	J C H H3	ng/g		5	
PCB-27	1.4	H H3	1.07	J q H H3	ng/g		24	
PCB-28	7.1	C20 H H3 B	6.62	C20 H H3	ng/g		7	
PCB-29	1.6	J C26 H H3	1.55	J C26 H H3	ng/g		5	
PCB-30	3.6	C18 H H3 B	3.20	C18 H H3	ng/g		12	
PCB-31	2.8	H H3 B	2.60	H H3	ng/g		9	
PCB-32	2.3	H H3 B	1.99	H H3	ng/g		14	
PCB-33	1.6	J C21 H H3 B	1.66	J C21 H H3	ng/g		4	
PCB-34	ND	H H3	ND	H H3	ng/g		NC	
PCB-35	ND	H H3	ND	H H3	ng/g		NC	
PCB-36	ND	H H3	ND	H H3	ng/g		NC	
PCB-37	0.58	J q H H3 B	0.501	J H H3	ng/g		15	50
PCB-38	ND	H H3	ND	H H3	ng/g		NC	
PCB-39	0.14	J q H H3	ND	H H3	ng/g		NC	
PCB-40	15	C H H3	14.2	C H H3	ng/g		4	
PCB-41	15	C40 H H3	14.2	C40 H H3	ng/g		4	
PCB-42	7.5	H H3	7.09	H H3	ng/g		6	
PCB-43	1.3	J q C H H3	3.05	q C H H3	ng/g		82	
PCB-44	81	C H H3 B	75.1	C H H3	ng/g		8	
PCB-45	2.1	J C H H3	2.29	J C H H3	ng/g		7	
PCB-46	ND	H H3	ND	H H3	ng/g		NC	
PCB-47	81	C44 H H3 B	75.1	C44 H H3	ng/g		8	
PCB-48	5.5	H H3	4.80	H H3	ng/g		13	
PCB-49	66	C H H3	61.1	C H H3	ng/g		8	
PCB-50	6.9	C H H3	6.29	C H H3	ng/g		9	
PCB-51	2.1	J C45 H H3	2.29	J C45 H H3	ng/g		7	
PCB-52	220	H H3 B	203	H H3	ng/g		8	
PCB-53	6.9	C50 H H3	6.29	C50 H H3	ng/g		9	
PCB-54	0.12	J H H3	0.0905	J q H H3	ng/g		28	50
PCB-55	1.8	H H3	1.73	H H3	ng/g		4	
PCB-56	4.9	H H3	4.46	H H3	ng/g		9	
PCB-57	ND	H H3	ND	H H3	ng/g		NC	
PCB-58	ND	H H3	ND	H H3	ng/g		NC	
PCB-59	1.7	J C H H3	1.43	J q C H H3	ng/g		15	
PCB-60	15	H H3	13.7	H H3	ng/g		8	
PCB-61	170	C H H3 B	155	C H H3	ng/g		8	
PCB-62	1.7	J C59 H H3	1.43	J q C59 H H3	ng/g		15	
PCB-63	4.7	H H3	4.27	H H3	ng/g		10	
PCB-64	30	H H3 B	27.9	H H3	ng/g		8	

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-3 DU
Matrix: Tissue
Analysis Batch: 58643

Client Sample ID: 21L0902-01
Prep Type: Total/NA
Prep Batch: 57903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
PCB-65	81	C44 H H3 B	75.1	C44 H H3	ng/g		8	
PCB-66	96	H H3	88.8	H H3	ng/g		8	
PCB-67	ND	H H3	ND	H H3	ng/g		NC	
PCB-68	ND	H H3	ND	H H3	ng/g		NC	
PCB-69	66	C49 H H3	61.1	C49 H H3	ng/g		8	
PCB-70	170	C61 H H3 B	155	C61 H H3	ng/g		8	
PCB-71	15	C40 H H3	14.2	C40 H H3	ng/g		4	
PCB-72	ND	H H3	ND	H H3	ng/g		NC	
PCB-73	1.3	J q C43 H H3	3.05	q C43 H H3	ng/g		82	
PCB-74	170	C61 H H3 B	155	C61 H H3	ng/g		8	
PCB-75	1.7	J C59 H H3	1.43	J q C59 H H3	ng/g		15	
PCB-76	170	C61 H H3 B	155	C61 H H3	ng/g		8	
PCB-77	0.86	J q H H3	0.827	J H H3	ng/g		3	50
PCB-78	0.38	J H H3	ND	H H3	ng/g		NC	
PCB-79	4.5	H H3	4.31	H H3	ng/g		3	
PCB-80	ND	H H3	ND	H H3	ng/g		NC	
PCB-81	ND	H H3	ND	H H3	ng/g		NC	50
PCB-82	56	H H3	50.6	H H3	ng/g		11	
PCB-83	530	C H H3 B	467	C H H3	ng/g		13	
PCB-84	98	H H3	88.6	H H3	ng/g		11	
PCB-85	170	C H H3	155	C H H3	ng/g		12	
PCB-86	440	C H H3 B	389	C H H3	ng/g		12	
PCB-87	440	C86 H H3 B	389	C86 H H3	ng/g		12	
PCB-88	70	C H H3	61.5	C H H3	ng/g		13	
PCB-89	ND	H H3	ND	H H3	ng/g		NC	
PCB-90	710	C H H3 B	629	C H H3	ng/g		13	
PCB-91	70	C88 H H3	61.5	C88 H H3	ng/g		13	
PCB-92	130	H H3	111	H H3	ng/g		13	
PCB-93	4.6	q C H H3	4.79	C H H3	ng/g		4	
PCB-94	0.69	J q H H3	0.875	J H H3	ng/g		24	
PCB-95	310	H H3 B	279	H H3	ng/g		11	
PCB-96	1.8	H H3	ND	H H3	ng/g		NC	
PCB-97	440	C86 H H3 B	389	C86 H H3	ng/g		12	
PCB-98	8.6	C H H3	7.51	C H H3	ng/g		14	
PCB-99	530	C83 H H3 B	467	C83 H H3	ng/g		13	
PCB-100	4.6	q C93 H H3	4.79	C93 H H3	ng/g		4	
PCB-101	710	C90 H H3 B	629	C90 H H3	ng/g		13	
PCB-102	8.6	C98 H H3	7.51	C98 H H3	ng/g		14	
PCB-103	2.7	H H3	2.52	H H3	ng/g		7	
PCB-104	ND	H H3	1.79	H H3	ng/g		NC	50

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-3 DU
Matrix: Tissue
Analysis Batch: 58643

Client Sample ID: 21L0902-01
Prep Type: Total/NA
Prep Batch: 57903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
PCB-105	440	H H3 B	418	H H3	ng/g		6	50
PCB-106	ND	H H3	ND	H H3	ng/g		NC	
PCB-107	69	H H3	64.2	H H3	ng/g		7	
PCB-108	20	C H H3	19.0	C H H3	ng/g		6	
PCB-109	440	C86 H H3 B	389	C86 H H3	ng/g		12	
PCB-110	620	C H H3 B	548	C H H3	ng/g		12	
PCB-111	ND	H H3	ND	H H3	ng/g		NC	
PCB-112	4.3	H H3	4.00	H H3	ng/g		7	
PCB-113	710	C90 H H3 B	629	C90 H H3	ng/g		13	
PCB-114	41	H H3	36.3	H H3	ng/g		12	50
PCB-115	620	C110 H H3 B	548	C110 H H3	ng/g		12	
PCB-116	170	C85 H H3	155	C85 H H3	ng/g		12	
PCB-117	170	C85 H H3	155	C85 H H3	ng/g		12	
PCB-118	1200	H H3 B	1050	H H3	ng/g		13	50
PCB-119	440	C86 H H3 B	389	C86 H H3	ng/g		12	
PCB-120	ND	H H3	ND	H H3	ng/g		NC	
PCB-121	ND	H H3	ND	H H3	ng/g		NC	
PCB-122	ND	G H H3	5.99	G q H H3	ng/g		NC	
PCB-123	22	H H3	20.3	H H3	ng/g		9	50
PCB-124	20	C108 H H3	19.0	C108 H H3	ng/g		6	
PCB-125	440	C86 H H3 B	389	C86 H H3	ng/g		12	
PCB-126	ND	H H3	ND	H H3	ng/g		NC	50
PCB-127	ND	H H3	ND	H H3	ng/g		NC	
PCB-128	170	C H H3 B	158	C H H3	ng/g		7	
PCB-129	970	C H H3 B	896	C H H3	ng/g		8	
PCB-130	65	H H3	60.2	H H3	ng/g		8	
PCB-131	8.3	H H3	7.94	H H3	ng/g		4	
PCB-132	150	H H3 B	137	H H3	ng/g		7	
PCB-133	9.7	H H3	8.96	H H3	ng/g		8	
PCB-134	31	C H H3	28.8	C H H3	ng/g		7	
PCB-135	110	C H H3 B	99.3	C H H3	ng/g		8	
PCB-136	49	H H3 B	45.8	H H3	ng/g		7	
PCB-137	100	H H3	94.2	H H3	ng/g		8	
PCB-138	970	C129 H H3 B	896	C129 H H3	ng/g		8	
PCB-139	20	C H H3	18.4	C H H3	ng/g		8	
PCB-140	20	C139 H H3	18.4	C139 H H3	ng/g		8	
PCB-141	110	H H3 B	102	H H3	ng/g		8	
PCB-142	ND	H H3	ND	H H3	ng/g		NC	
PCB-143	31	C134 H H3	28.8	C134 H H3	ng/g		7	
PCB-144	24	H H3	22.2	H H3	ng/g		8	
PCB-145	0.32	J q H H3	0.145	J q H H3	ng/g		76	
PCB-146	110	H H3	96.4	H H3	ng/g		9	

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-3 DU
Matrix: Tissue
Analysis Batch: 58643

Client Sample ID: 21L0902-01
Prep Type: Total/NA
Prep Batch: 57903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
PCB-147	230	C H H3 B	221	C H H3	ng/g		5	
PCB-148	0.43	J H H3	0.441	J H H3	ng/g		3	
PCB-149	230	C147 H H3 B	221	C147 H H3	ng/g		5	
PCB-150	0.39	J H H3 B	0.398	J H H3	ng/g		3	
PCB-151	110	C135 H H3 B	99.3	C135 H H3	ng/g		8	
PCB-152	0.50	J H H3	0.523	J H H3	ng/g		5	
PCB-153	670	C H H3 B	617	C H H3	ng/g		8	
PCB-154	6.6	H H3	6.31	H H3	ng/g		5	
PCB-155	ND	H H3	ND	H H3	ng/g		NC	50
PCB-156	210	C H H3 B	201	C H H3	ng/g		4	50
PCB-157	210	C156 H H3 B	201	C156 H H3	ng/g		4	50
PCB-158	110	H H3 B	103	H H3	ng/g		9	
PCB-159	ND	H H3	ND	H H3	ng/g		NC	
PCB-160	970	C129 H H3 B	896	C129 H H3	ng/g		8	
PCB-161	ND	H H3	ND	H H3	ng/g		NC	
PCB-162	4.6	H H3	4.24	H H3	ng/g		9	
PCB-163	970	C129 H H3 B	896	C129 H H3	ng/g		8	
PCB-164	42	H H3	37.8	H H3	ng/g		10	
PCB-165	ND	H H3	ND	H H3	ng/g		NC	
PCB-166	170	C128 H H3 B	158	C128 H H3	ng/g		7	
PCB-167	52	H H3 B	47.5	H H3	ng/g		8	50
PCB-168	670	C153 H H3 B	617	C153 H H3	ng/g		8	
PCB-169	ND	H H3	ND	H H3	ng/g		NC	50
PCB-170	76	H H3 B	71.5	H H3	ng/g		6	
PCB-171	19	C H H3 B	17.5	C H H3	ng/g		8	
PCB-172	8.9	H H3	8.07	H H3	ng/g		9	
PCB-173	19	C171 H H3 B	17.5	C171 H H3	ng/g		8	
PCB-174	21	H H3 B	19.8	H H3	ng/g		8	
PCB-175	2.0	H H3 B	1.86	H H3	ng/g		7	
PCB-176	2.6	H H3 B	2.41	H H3	ng/g		8	
PCB-177	18	H H3 B	16.7	H H3	ng/g		8	
PCB-178	6.5	H H3 B	5.93	H H3	ng/g		10	
PCB-179	6.8	H H3 B	6.13	H H3	ng/g		10	
PCB-180	120	C H H3 B	115	C H H3	ng/g		8	
PCB-181	2.5	H H3	2.36	H H3	ng/g		5	
PCB-182	0.71	J q H H3	0.631	J H H3	ng/g		12	
PCB-183	33	C H H3 B	30.4	C H H3	ng/g		9	
PCB-184	ND	H H3	ND	H H3	ng/g		NC	
PCB-185	33	C183 H H3 B	30.4	C183 H H3	ng/g		9	
PCB-186	ND	H H3	ND	H H3	ng/g		NC	
PCB-187	42	H H3 B	38.7	H H3	ng/g		9	
PCB-188	ND	H H3	ND	H H3	ng/g		NC	50

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-3 DU
Matrix: Tissue
Analysis Batch: 58643

Client Sample ID: 21L0902-01
Prep Type: Total/NA
Prep Batch: 57903

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
PCB-189	5.0	H H3 F1		4.70	H H3	ng/g				5	50
PCB-190	14	H H3		13.0	H H3	ng/g				8	
PCB-191	3.3	H H3		3.18	H H3	ng/g				5	
PCB-192	ND	H H3		ND	H H3	ng/g				NC	
PCB-193	120	C180 H H3 B		115	C180 H H3	ng/g				8	
PCB-194	9.0	H H3		8.28	H H3	ng/g				9	
PCB-195	3.4	H H3 B		3.04	H H3	ng/g				12	
PCB-196	4.9	H H3 B		4.61	H H3	ng/g				6	
PCB-197	0.33	J q H H3		0.277	J q H H3	ng/g				18	
PCB-198	8.1	C H H3 B		7.36	C H H3	ng/g				10	
PCB-199	8.1	C198 H H3 B		7.36	C198 H H3	ng/g				10	
PCB-200	0.49	J H H3		0.439	J H H3	ng/g				10	
PCB-201	1.3	H H3		1.19	J H H3	ng/g				9	
PCB-202	1.5	H H3		1.47	H H3	ng/g				5	50
PCB-203	5.2	H H3		4.88	H H3	ng/g				7	
PCB-204	ND	H H3		ND	H H3	ng/g				NC	
PCB-205	0.46	J H H3		0.396	J H H3	ng/g				14	50
PCB-206	3.0	H H3		2.66	H H3	ng/g				11	50
PCB-207	0.52	J H H3		0.572	J q H H3	ng/g				10	
PCB-208	0.82	J H H3		0.631	J H H3	ng/g				27	50
PCB-209	0.40	J H H3 B		0.357	J H H3	ng/g				11	50

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
PCB-1L	*67*		*30 - 140*
PCB-3L	*69*		*30 - 140*
PCB-4L	*87*		*30 - 140*
PCB-15L	*86*	*q*	*30 - 140*
PCB-19L	*85*		*30 - 140*
PCB-37L	*87*		*30 - 140*
PCB-54L	*111*		*30 - 140*
PCB-77L	*89*		*30 - 140*
PCB-81L	*89*		*30 - 140*
PCB-104L	*95*		*30 - 140*
PCB-105L	*92*		*30 - 140*
PCB-114L	*88*		*30 - 140*
PCB-118L	*96*		*30 - 140*
PCB-123L	*90*		*30 - 140*
PCB-126L	*87*		*30 - 140*
PCB-155L	*102*		*30 - 140*
PCB-156L	*89*	*C*	*30 - 140*
PCB-157L	*89*	*C156*	*30 - 140*
PCB-167L	*91*		*30 - 140*
PCB-169L	*91*		*30 - 140*
PCB-170L	*95*		*30 - 140*
PCB-188L	*88*		*30 - 140*
PCB-189L	*97*		*30 - 140*
PCB-202L	*112*		*30 - 140*

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-3 DU
Matrix: Tissue
Analysis Batch: 58643

Client Sample ID: 21L0902-01
Prep Type: Total/NA
Prep Batch: 57903

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
PCB-205L	*92*		*30 - 140*
PCB-206L	*88*		*30 - 140*
PCB-208L	*96*		*30 - 140*
PCB-209L	*85*		*30 - 140*

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
PCB-28L	*90*		*40 - 125*
PCB-111L	*101*		*40 - 125*
PCB-178L	*100*		*40 - 125*

Lab Sample ID: MB 140-57963/16-B
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57963

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND		0.010	0.00077	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-2	ND		0.010	0.00085	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-3	ND		0.010	0.00092	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-4	ND		0.020	0.0019	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-5	ND		0.010	0.0017	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-6	ND		0.010	0.0014	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-7	ND		0.010	0.0016	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-8	ND		0.020	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-9	ND		0.010	0.0015	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-10	ND		0.010	0.0017	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-11	0.00922	J	0.020	0.0015	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-12	ND	C	0.020	0.0016	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-13	ND	C12	0.020	0.0016	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-14	ND		0.010	0.0016	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-15	ND		0.010	0.0016	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-16	ND		0.010	0.0014	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-17	ND		0.010	0.0015	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-18	0.00390	J C q	0.020	0.0010	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-19	ND		0.010	0.0014	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-20	0.00267	J C q	0.020	0.00090	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-21	ND	C	0.020	0.00091	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-22	ND		0.010	0.00086	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-23	ND		0.010	0.00098	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-24	ND		0.010	0.0010	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-25	ND		0.010	0.00078	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-26	ND	C	0.020	0.00097	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-27	ND		0.010	0.0010	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-28	0.00267	J C20 q	0.020	0.00090	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-29	ND	C26	0.020	0.00097	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-30	0.00390	J C18 q	0.020	0.0010	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-31	0.00279	J q	0.020	0.00082	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-32	0.00155	J	0.010	0.00091	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-33	ND	C21	0.020	0.00091	ng/g		01/17/22 11:38	02/06/22 03:37	1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57963/16-B
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57963

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-34	ND		0.010	0.0010	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-35	ND		0.010	0.00094	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-36	ND		0.010	0.00081	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-37	ND		0.010	0.00092	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-38	ND		0.010	0.00088	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-39	ND		0.010	0.00090	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-40	ND	C	0.030	0.0020	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-41	ND	C40	0.030	0.0020	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-42	ND		0.010	0.0022	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-43	ND	C	0.020	0.0017	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-44	0.00463	J C q	0.030	0.0017	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-45	ND	C	0.020	0.0022	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-46	ND		0.010	0.0025	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-47	0.00463	J C44 q	0.030	0.0017	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-48	ND		0.010	0.0021	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-49	ND	C	0.020	0.0017	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-50	ND	C	0.020	0.0019	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-51	ND	C45	0.020	0.0022	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-52	ND		0.010	0.0018	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-53	ND	C50	0.020	0.0019	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-54	ND		0.010	0.00071	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-55	ND		0.010	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-56	ND		0.010	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-57	ND		0.010	0.0014	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-58	ND		0.010	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-59	ND	C	0.030	0.0015	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-60	ND		0.010	0.0016	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-61	ND	C	0.040	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-62	ND	C59	0.030	0.0015	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-63	ND		0.010	0.0015	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-64	ND		0.010	0.0015	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-65	0.00463	J C44 q	0.030	0.0017	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-66	ND		0.010	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-67	ND		0.010	0.0012	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-68	ND		0.010	0.0014	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-69	ND	C49	0.020	0.0017	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-70	ND	C61	0.040	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-71	ND	C40	0.030	0.0020	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-72	ND		0.010	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-73	ND	C43	0.020	0.0017	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-74	ND	C61	0.040	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-75	ND	C59	0.030	0.0015	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-76	ND	C61	0.040	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-77	ND		0.010	0.0015	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-78	ND		0.010	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-79	ND		0.010	0.0011	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-80	ND		0.010	0.0014	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-81	ND		0.010	0.0016	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-82	ND		0.010	0.0012	ng/g		01/17/22 11:38	02/06/22 03:37	1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57963/16-B
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57963

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-83	ND	C	0.020	0.0012	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-84	0.00223	J q	0.010	0.0015	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-85	ND	C	0.030	0.0011	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-86	ND	C	0.060	0.0010	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-87	ND	C86	0.060	0.0010	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-88	ND	C	0.020	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-89	ND		0.010	0.0012	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-90	ND	C	0.030	0.0011	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-91	ND	C88	0.020	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-92	ND		0.010	0.0014	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-93	ND	C	0.020	0.0014	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-94	ND		0.010	0.0015	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-95	ND		0.010	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-96	ND		0.010	0.00090	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-97	ND	C86	0.060	0.0010	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-98	ND	C	0.020	0.0011	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-99	ND	C83	0.020	0.0012	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-100	ND	C93	0.020	0.0014	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-101	ND	C90	0.030	0.0011	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-102	ND	C98	0.020	0.0011	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-103	ND		0.010	0.0012	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-104	ND		0.010	0.0010	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-105	ND		0.010	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-106	ND		0.010	0.0012	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-107	ND		0.010	0.0012	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-108	ND	C	0.020	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-109	ND	C86	0.060	0.0010	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-110	ND	C	0.020	0.00081	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-111	ND		0.010	0.00088	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-112	ND		0.010	0.00078	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-113	ND	C90	0.030	0.0011	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-114	ND		0.010	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-115	ND	C110	0.020	0.00081	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-116	ND	C85	0.030	0.0011	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-117	ND	C85	0.030	0.0011	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-118	0.00320	J q	0.010	0.0012	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-119	ND	C86	0.060	0.0010	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-120	ND		0.010	0.00073	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-121	ND		0.010	0.00082	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-122	ND		0.010	0.0016	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-123	ND		0.010	0.0015	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-124	ND	C108	0.020	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-125	ND	C86	0.060	0.0010	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-126	ND		0.010	0.0013	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-127	ND		0.010	0.0012	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-128	ND	C	0.020	0.00063	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-129	0.00266	J C	0.040	0.00067	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-130	ND		0.010	0.00091	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-131	ND		0.010	0.00083	ng/g		01/17/22 11:38	02/06/22 03:37	1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57963/16-B
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57963

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-132	ND		0.010	0.00078	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-133	ND		0.010	0.00070	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-134	ND	C	0.020	0.00082	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-135	0.00110	J C q	0.020	0.00028	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-136	0.000420	J q	0.010	0.00021	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-137	ND		0.010	0.00076	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-138	0.00266	J C129	0.040	0.00067	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-139	ND	C	0.020	0.00068	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-140	ND	C139	0.020	0.00068	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-141	ND		0.010	0.00074	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-142	ND		0.010	0.00080	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-143	ND	C134	0.020	0.00082	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-144	ND		0.010	0.00028	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-145	ND		0.010	0.00019	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-146	ND		0.010	0.00061	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-147	0.00129	J C q	0.020	0.00065	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-148	ND		0.010	0.00027	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-149	0.00129	J C147 q	0.020	0.00065	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-150	ND		0.010	0.00020	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-151	0.00110	J C135 q	0.020	0.00028	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-152	0.000478	J q	0.010	0.00018	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-153	0.00220	J C q	0.020	0.00056	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-154	ND		0.010	0.00025	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-155	ND		0.010	0.00022	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-156	0.000906	J C	0.020	0.00071	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-157	0.000906	J C156	0.020	0.00071	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-158	ND		0.010	0.00053	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-159	ND		0.010	0.00046	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-160	0.00266	J C129	0.040	0.00067	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-161	ND		0.010	0.00051	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-162	ND		0.010	0.00051	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-163	0.00266	J C129	0.040	0.00067	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-164	ND		0.010	0.00053	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-165	ND		0.010	0.00061	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-166	ND	C128	0.020	0.00063	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-167	ND		0.010	0.00043	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-168	0.00220	J C153 q	0.020	0.00056	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-169	0.000482	J q	0.010	0.00042	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-170	ND		0.010	0.00029	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-171	ND	C	0.020	0.00027	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-172	0.000802	J	0.010	0.00027	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-173	ND	C171	0.020	0.00027	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-174	ND		0.010	0.00025	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-175	ND		0.010	0.00027	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-176	ND		0.010	0.00020	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-177	0.000652	J q	0.010	0.00025	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-178	ND		0.010	0.00027	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-179	0.000472	J q	0.010	0.00017	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-180	0.000517	J C q	0.020	0.00022	ng/g		01/17/22 11:38	02/06/22 03:37	1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57963/16-B
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57963

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-181	0.000480	J q	0.010	0.00024	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-182	ND		0.010	0.00022	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-183	0.000559	J C q	0.020	0.00026	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-184	ND		0.010	0.00019	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-185	0.000559	J C183 q	0.020	0.00026	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-186	ND		0.010	0.00017	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-187	ND		0.010	0.00022	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-188	ND		0.010	0.00018	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-189	0.000405	J q	0.010	0.00037	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-190	ND		0.010	0.00021	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-191	ND		0.010	0.00020	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-192	ND		0.010	0.00018	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-193	0.000517	J C180 q	0.020	0.00022	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-194	ND		0.010	0.00051	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-195	ND		0.010	0.00058	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-196	ND		0.010	0.00055	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-197	ND		0.010	0.00040	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-198	ND	C	0.020	0.00049	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-199	ND	C198	0.020	0.00049	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-200	ND		0.010	0.00042	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-201	ND		0.010	0.00044	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-202	ND		0.010	0.00041	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-203	0.000557	J q	0.010	0.00044	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-204	ND		0.010	0.00038	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-205	ND		0.010	0.00045	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-206	ND		0.010	0.0062	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-207	ND		0.010	0.0054	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-208	ND		0.010	0.0053	ng/g		01/17/22 11:38	02/06/22 03:37	1
PCB-209	ND		0.010	0.00025	ng/g		01/17/22 11:38	02/06/22 03:37	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*53*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-3L	*53*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-4L	*71*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-15L	*77*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-19L	*67*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-37L	*78*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-54L	*69*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-77L	*76*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-81L	*76*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-104L	*76*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-105L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-114L	*82*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-118L	*84*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-123L	*80*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-126L	*83*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-155L	*83*		*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-156L	*87*	*C*	*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*
PCB-157L	*87*	*C156*	*30 - 140*	*01/17/22 11:38*	*02/06/22 03:37*	*1*

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57963/16-B
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57963

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	88		30 - 140	01/17/22 11:38	02/06/22 03:37	1
PCB-169L	88		30 - 140	01/17/22 11:38	02/06/22 03:37	1
PCB-170L	86		30 - 140	01/17/22 11:38	02/06/22 03:37	1
PCB-188L	83		30 - 140	01/17/22 11:38	02/06/22 03:37	1
PCB-189L	103		30 - 140	01/17/22 11:38	02/06/22 03:37	1
PCB-202L	101		30 - 140	01/17/22 11:38	02/06/22 03:37	1
PCB-205L	91		30 - 140	01/17/22 11:38	02/06/22 03:37	1
PCB-206L	81		30 - 140	01/17/22 11:38	02/06/22 03:37	1
PCB-208L	88		30 - 140	01/17/22 11:38	02/06/22 03:37	1
PCB-209L	85		30 - 140	01/17/22 11:38	02/06/22 03:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	82		40 - 125	01/17/22 11:38	02/06/22 03:37	1
PCB-111L	95		40 - 125	01/17/22 11:38	02/06/22 03:37	1
PCB-178L	101		40 - 125	01/17/22 11:38	02/06/22 03:37	1

Lab Sample ID: LCS 140-57963/15-B
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	0.500	0.498		ng/g		100	48 - 136
PCB-3	0.500	0.504		ng/g		101	58 - 137
PCB-4	0.500	0.471		ng/g		94	57 - 140
PCB-15	0.500	0.510		ng/g		102	64 - 148
PCB-19	0.500	0.507		ng/g		101	74 - 125
PCB-37	0.500	0.529		ng/g		106	61 - 148
PCB-54	0.500	0.501		ng/g		100	67 - 124
PCB-77	0.500	0.505		ng/g		101	75 - 118
PCB-81	0.500	0.504		ng/g		101	78 - 124
PCB-104	0.500	0.437		ng/g		87	81 - 118
PCB-105	0.500	0.552		ng/g		110	84 - 127
PCB-114	0.500	0.524		ng/g		105	87 - 124
PCB-118	0.500	0.570		ng/g		114	79 - 137
PCB-123	0.500	0.547		ng/g		109	81 - 134
PCB-126	0.500	0.465		ng/g		93	79 - 123
PCB-155	0.500	0.516		ng/g		103	76 - 121
PCB-156	1.00	1.05	C	ng/g		105	84 - 125
PCB-157	1.00	1.05	C156	ng/g		105	
PCB-167	0.500	0.496		ng/g		99	82 - 132
PCB-169	0.500	0.448		ng/g		90	77 - 121
PCB-188	0.500	0.466		ng/g		93	78 - 117
PCB-189	0.500	0.529		ng/g		106	85 - 119
PCB-202	0.500	0.496		ng/g		99	76 - 118
PCB-205	0.500	0.511		ng/g		102	72 - 128
PCB-206	0.500	0.473		ng/g		95	74 - 121
PCB-208	0.500	0.537		ng/g		107	80 - 120
PCB-209	0.500	0.523		ng/g		105	83 - 133

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-1L	54		30 - 140
PCB-3L	56		30 - 140
PCB-4L	71		30 - 140
PCB-15L	78		30 - 140
PCB-19L	73		30 - 140
PCB-37L	79		30 - 140
PCB-54L	76		30 - 140
PCB-77L	80		30 - 140
PCB-81L	81		30 - 140
PCB-104L	75		30 - 140
PCB-105L	84		30 - 140
PCB-114L	78		30 - 140
PCB-118L	81		30 - 140
PCB-123L	80		30 - 140
PCB-126L	84		30 - 140
PCB-155L	81		30 - 140
PCB-156L	87	C	30 - 140
PCB-157L	87	C156	30 - 140
PCB-167L	84		30 - 140
PCB-169L	88		30 - 140
PCB-170L	86		30 - 140
PCB-188L	81		30 - 140
PCB-189L	99		30 - 140
PCB-202L	98		30 - 140
PCB-205L	85		30 - 140
PCB-206L	77		30 - 140
PCB-208L	83		30 - 140
PCB-209L	73		30 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
PCB-28L	84		40 - 125
PCB-111L	93		40 - 125
PCB-178L	96		40 - 125

Lab Sample ID: 140-25780-1 MS
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: 21L0901-01
Prep Type: Total/NA
Prep Batch: 57963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	ND	H H3	229	221	H H3	ng/g		97	48 - 136
PCB-3	ND	H H3	229	226	H H3	ng/g		98	58 - 137
PCB-4	1.9	J q H H3	229	211	H H3	ng/g		91	57 - 140
PCB-15	1.3	J q H H3	229	231	H H3	ng/g		100	64 - 148
PCB-19	2.1	J H H3	229	235	H H3	ng/g		102	74 - 125
PCB-37	1.8	J H H3	229	239	H H3	ng/g		103	61 - 148
PCB-54	0.18	J q H H3	229	230	H H3	ng/g		100	67 - 124
PCB-77	4.2	J H H3	229	235	H H3	ng/g		101	75 - 118
PCB-81	ND	H H3	229	251	H H3	ng/g		109	78 - 124
PCB-104	ND	H H3	229	205	H H3	ng/g		89	81 - 118
PCB-105	1200	H H3	229	1360	H H3 4	ng/g		92	84 - 127
PCB-114	100	H H3	229	331	H H3	ng/g		100	87 - 124

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-1 MS
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: 21L0901-01
Prep Type: Total/NA
Prep Batch: 57963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-118	2800	H H3 B	229	3050	H H3 4	ng/g		89	79 - 137
PCB-123	61	H H3	229	289	H H3	ng/g		99	81 - 134
PCB-126	ND	H H3	229	226	H H3	ng/g		99	79 - 123
PCB-155	ND	H H3	229	242	H H3	ng/g		105	76 - 121
PCB-156	480	C H H3 B	459	965	C H H3	ng/g		105	84 - 125
PCB-157	480	C156 H H3 B	459	965	H C156 H3	ng/g		105	
PCB-167	140	H H3	229	354	H H3	ng/g		95	82 - 132
PCB-169	ND	H H3	229	215	H H3	ng/g		94	77 - 121
PCB-188	ND	H H3	229	217	H H3	ng/g		95	78 - 117
PCB-189	11	H H3 B	229	256	H H3	ng/g		107	85 - 119
PCB-202	1.5	J H H3	229	225	H H3	ng/g		97	76 - 118
PCB-205	0.55	J q H H3	229	224	H H3	ng/g		97	72 - 128
PCB-206	3.5	J q H H3	229	219	H H3	ng/g		94	74 - 121
PCB-208	ND	H H3	229	247	H H3	ng/g		108	80 - 120
PCB-209	0.97	J H H3	229	234	H H3	ng/g		102	83 - 133

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
PCB-1L	*62*		*30 - 140*
PCB-3L	*63*		*30 - 140*
PCB-4L	*79*		*30 - 140*
PCB-15L	*84*		*30 - 140*
PCB-19L	*78*		*30 - 140*
PCB-37L	*86*		*30 - 140*
PCB-54L	*89*		*30 - 140*
PCB-77L	*87*		*30 - 140*
PCB-81L	*87*		*30 - 140*
PCB-104L	*81*		*30 - 140*
PCB-105L	*92*		*30 - 140*
PCB-114L	*88*		*30 - 140*
PCB-118L	*91*		*30 - 140*
PCB-123L	*89*		*30 - 140*
PCB-126L	*91*		*30 - 140*
PCB-155L	*92*		*30 - 140*
PCB-156L	*92*	*C*	*30 - 140*
PCB-157L	*92*	*C156*	*30 - 140*
PCB-167L	*91*		*30 - 140*
PCB-169L	*90*		*30 - 140*
PCB-170L	*94*		*30 - 140*
PCB-188L	*88*		*30 - 140*
PCB-189L	*106*		*30 - 140*
PCB-202L	*109*		*30 - 140*
PCB-205L	*97*		*30 - 140*
PCB-206L	*85*		*30 - 140*
PCB-208L	*91*		*30 - 140*
PCB-209L	*69*		*30 - 140*

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-1 MS
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: 21L0901-01
Prep Type: Total/NA
Prep Batch: 57963

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
PCB-28L	*82*		*40 - 125*
PCB-111L	*93*		*40 - 125*
PCB-178L	*96*		*40 - 125*

Lab Sample ID: 140-25780-1 MSD
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: 21L0901-01
Prep Type: Total/NA
Prep Batch: 57963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1	ND	H H3	245	249	H H3	ng/g		102	48 - 136	12	50
PCB-3	ND	H H3	245	241	H H3	ng/g		98	58 - 137	7	50
PCB-4	1.9	J q H H3	245	225	H H3	ng/g		91	57 - 140	7	50
PCB-15	1.3	J q H H3	245	248	H H3	ng/g		101	64 - 148	7	50
PCB-19	2.1	J H H3	245	252	H H3	ng/g		102	74 - 125	7	50
PCB-37	1.8	J H H3	245	253	H H3	ng/g		102	61 - 148	6	50
PCB-54	0.18	J q H H3	245	245	H H3	ng/g		100	67 - 124	6	50
PCB-77	4.2	J H H3	245	246	H H3	ng/g		99	75 - 118	4	50
PCB-81	ND	H H3	245	267	H H3	ng/g		109	78 - 124	6	50
PCB-104	ND	H H3	245	221	H H3	ng/g		90	81 - 118	7	50
PCB-105	1200	H H3	245	1290	H H3 4	ng/g		55	84 - 127	6	50
PCB-114	100	H H3	245	349	H H3	ng/g		101	87 - 124	5	50
PCB-118	2800	H H3 B	245	2820	H H3 4	ng/g		-8	79 - 137	8	50
PCB-123	61	H H3	245	321	H H3	ng/g		106	81 - 134	10	50
PCB-126	ND	H H3	245	243	H H3	ng/g		99	79 - 123	7	50
PCB-155	ND	H H3	245	260	H H3	ng/g		106	76 - 121	7	50
PCB-156	480	C H H3 B	490	960	C H H3	ng/g		97	84 - 125	1	50
PCB-157	480	C156 H H3 B	490	960	H C156 H3	ng/g		97		1	50
PCB-167	140	H H3	245	368	H H3	ng/g		95	82 - 132	4	50
PCB-169	ND	H H3	245	223	H H3	ng/g		91	77 - 121	4	50
PCB-188	ND	H H3	245	237	H H3	ng/g		97	78 - 117	9	50
PCB-189	11	H H3 B	245	271	H H3	ng/g		106	85 - 119	6	50
PCB-202	1.5	J H H3	245	251	H H3	ng/g		102	76 - 118	11	50
PCB-205	0.55	J q H H3	245	255	H H3	ng/g		104	72 - 128	13	50
PCB-206	3.5	J q H H3	245	235	H H3	ng/g		94	74 - 121	7	50
PCB-208	ND	H H3	245	264	H H3	ng/g		108	80 - 120	6	50
PCB-209	0.97	J H H3	245	250	H H3	ng/g		101	83 - 133	6	50

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
PCB-1L	*61*		*30 - 140*
PCB-3L	*64*		*30 - 140*
PCB-4L	*79*		*30 - 140*
PCB-15L	*82*		*30 - 140*
PCB-19L	*78*		*30 - 140*
PCB-37L	*85*		*30 - 140*
PCB-54L	*90*		*30 - 140*
PCB-77L	*86*		*30 - 140*
PCB-81L	*85*		*30 - 140*
PCB-104L	*80*		*30 - 140*

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-1 MSD
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: 21L0901-01
Prep Type: Total/NA
Prep Batch: 57963

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
PCB-105L	*91*		*30 - 140*
PCB-114L	*86*		*30 - 140*
PCB-118L	*90*		*30 - 140*
PCB-123L	*90*		*30 - 140*
PCB-126L	*90*		*30 - 140*
PCB-155L	*88*		*30 - 140*
PCB-156L	*90*	*C*	*30 - 140*
PCB-157L	*90*	*C156*	*30 - 140*
PCB-167L	*88*		*30 - 140*
PCB-169L	*91*		*30 - 140*
PCB-170L	*91*		*30 - 140*
PCB-188L	*83*		*30 - 140*
PCB-189L	*100*		*30 - 140*
PCB-202L	*103*		*30 - 140*
PCB-205L	*87*		*30 - 140*
PCB-206L	*80*		*30 - 140*
PCB-208L	*87*		*30 - 140*
PCB-209L	*74*		*30 - 140*

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
PCB-28L	*82*		*40 - 125*
PCB-111L	*91*		*40 - 125*
PCB-178L	*94*		*40 - 125*

Lab Sample ID: 140-25780-1 DU
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: 21L0901-01
Prep Type: Total/NA
Prep Batch: 57963

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
PCB-1	ND	H H3		ND	H H3	ng/g				NC	50
PCB-2	ND	H H3		ND	H H3	ng/g				NC	
PCB-3	ND	H H3		0.209	J q H H3	ng/g				NC	50
PCB-4	1.9	J q H H3		2.12	J H H3	ng/g				9	50
PCB-5	ND	H H3		ND	H H3	ng/g				NC	
PCB-6	ND	H H3		0.435	J q H H3	ng/g				NC	
PCB-7	ND	H H3		ND	H H3	ng/g				NC	
PCB-8	0.99	J q H H3		1.23	J H H3	ng/g				22	
PCB-9	0.62	J q H H3		0.507	J q H H3	ng/g				21	
PCB-10	ND	H H3		ND	H H3	ng/g				NC	
PCB-11	1.4	J H H3 B		1.65	J q H H3	ng/g				19	
PCB-12	ND	C H H3		ND	C H H3	ng/g				NC	
PCB-13	ND	C12 H H3		ND	C12 H H3	ng/g				NC	
PCB-14	ND	H H3		ND	H H3	ng/g				NC	
PCB-15	1.3	J q H H3		1.04	J q H H3	ng/g				21	50
PCB-16	0.75	J q H H3		0.570	J q H H3	ng/g				27	
PCB-17	7.3	H H3		6.41	H H3	ng/g				12	
PCB-18	4.7	J q C H H3 B		5.76	J C H H3	ng/g				20	
PCB-19	2.1	J H H3		1.84	J H H3	ng/g				15	50

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-1 DU
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: 21L0901-01
Prep Type: Total/NA
Prep Batch: 57963

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
PCB-20	13	C H H3 B	12.8	C H H3	ng/g		2	
PCB-21	1.5	J C H H3	1.45	J C H H3	ng/g		6	
PCB-22	0.47	J q H H3	0.410	J H H3	ng/g		13	
PCB-23	ND	H H3	ND	H H3	ng/g		NC	
PCB-24	ND	H H3	ND	H H3	ng/g		NC	
PCB-25	1.5	J H H3	1.48	J H H3	ng/g		2	
PCB-26	4.1	J C H H3	3.97	J C H H3	ng/g		2	
PCB-27	2.0	J H H3	2.29	J H H3	ng/g		12	
PCB-28	13	C20 H H3 B	12.8	C20 H H3	ng/g		2	
PCB-29	4.1	J C26 H H3	3.97	J C26 H H3	ng/g		2	
PCB-30	4.7	J q C18 H H3 B	5.76	J C18 H H3	ng/g		20	
PCB-31	9.8	H H3 B	9.83	H H3	ng/g		0.4	
PCB-32	3.5	J H H3 B	3.46	J H H3	ng/g		1	
PCB-33	1.5	J C21 H H3	1.45	J C21 H H3	ng/g		6	
PCB-34	ND	H H3	ND	H H3	ng/g		NC	
PCB-35	ND	H H3	ND	H H3	ng/g		NC	
PCB-36	ND	H H3	ND	H H3	ng/g		NC	
PCB-37	1.8	J H H3	1.95	J H H3	ng/g		10	50
PCB-38	ND	H H3	ND	H H3	ng/g		NC	
PCB-39	ND	H H3	ND	H H3	ng/g		NC	
PCB-40	27	C H H3	25.3	C H H3	ng/g		6	
PCB-41	27	C40 H H3	25.3	C40 H H3	ng/g		6	
PCB-42	16	H H3	14.9	H H3	ng/g		7	
PCB-43	6.0	J C H H3	5.56	J C H H3	ng/g		9	
PCB-44	190	C H H3 B	178	C H H3	ng/g		5	
PCB-45	4.6	J C H H3	4.56	J C H H3	ng/g		0.1	
PCB-46	ND	H H3	ND	H H3	ng/g		NC	
PCB-47	190	C44 H H3 B	178	C44 H H3	ng/g		5	
PCB-48	7.7	H H3	7.20	q H H3	ng/g		7	
PCB-49	180	C H H3	162	C H H3	ng/g		9	
PCB-50	12	C H H3	10.9	C H H3	ng/g		7	
PCB-51	4.6	J C45 H H3	4.56	J C45 H H3	ng/g		0.1	
PCB-52	630	H H3	587	H H3	ng/g		7	
PCB-53	12	C50 H H3	10.9	C50 H H3	ng/g		7	
PCB-54	0.18	J q H H3	0.372	J H H3 F5	ng/g		67	50
PCB-55	5.7	q H H3	5.44	H H3	ng/g		5	
PCB-56	37	H H3	34.0	H H3	ng/g		8	
PCB-57	ND	H H3	ND	H H3	ng/g		NC	
PCB-58	ND	H H3	ND	H H3	ng/g		NC	
PCB-59	3.2	J q C H H3	2.14	J q C H H3	ng/g		39	
PCB-60	50	H H3	46.8	H H3	ng/g		7	
PCB-61	820	C H H3	782	C H H3	ng/g		5	
PCB-62	3.2	J q C59 H H3	2.14	J q C59 H H3	ng/g		39	

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-1 DU
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: 21L0901-01
Prep Type: Total/NA
Prep Batch: 57963

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
PCB-63	15	H H3	13.8	H H3	ng/g		7	
PCB-64	47	H H3	45.1	H H3	ng/g		4	
PCB-65	190	C44 H H3 B	178	C44 H H3	ng/g		5	
PCB-66	300	H H3	281	H H3	ng/g		6	
PCB-67	ND	H H3	ND	H H3	ng/g		NC	
PCB-68	ND	H H3	ND	H H3	ng/g		NC	
PCB-69	180	C49 H H3	162	C49 H H3	ng/g		9	
PCB-70	820	C61 H H3	782	C61 H H3	ng/g		5	
PCB-71	27	C40 H H3	25.3	C40 H H3	ng/g		6	
PCB-72	ND	H H3	ND	H H3	ng/g		NC	
PCB-73	6.0	J C43 H H3	5.56	J C43 H H3	ng/g		9	
PCB-74	820	C61 H H3	782	C61 H H3	ng/g		5	
PCB-75	3.2	J q C59 H H3	2.14	J q C59 H H3	ng/g		39	
PCB-76	820	C61 H H3	782	C61 H H3	ng/g		5	
PCB-77	4.2	J H H3	4.17	J H H3	ng/g		0.3	50
PCB-78	ND	H H3	ND	H H3	ng/g		NC	
PCB-79	12	H H3	10.6	H H3	ng/g		8	
PCB-80	ND	H H3	ND	H H3	ng/g		NC	
PCB-81	ND	H H3	ND	H H3	ng/g		NC	50
PCB-82	130	H H3	119	H H3	ng/g		7	
PCB-83	1200	C H H3	1120	C H H3	ng/g		4	
PCB-84	180	H H3 B	173	H H3	ng/g		5	
PCB-85	420	C H H3	400	C H H3	ng/g		4	
PCB-86	950	C H H3	902	C H H3	ng/g		5	
PCB-87	950	C86 H H3	902	C86 H H3	ng/g		5	
PCB-88	130	C H H3	122	C H H3	ng/g		5	
PCB-89	4.9	H H3	3.91	J H H3	ng/g		23	
PCB-90	1500	C H H3	1420	C H H3	ng/g		5	
PCB-91	130	C88 H H3	122	C88 H H3	ng/g		5	
PCB-92	250	H H3	235	H H3	ng/g		6	
PCB-93	7.9	J C H H3	6.82	J q C H H3	ng/g		15	
PCB-94	2.0	J H H3	2.04	J H H3	ng/g		0.9	
PCB-95	730	H H3	689	H H3	ng/g		6	
PCB-96	2.4	J H H3	2.00	J H H3	ng/g		16	
PCB-97	950	C86 H H3	902	C86 H H3	ng/g		5	
PCB-98	16	C H H3	15.9	C H H3	ng/g		0.8	
PCB-99	1200	C83 H H3	1120	C83 H H3	ng/g		4	
PCB-100	7.9	J C93 H H3	6.82	J q C93 H H3	ng/g		15	
PCB-101	1500	C90 H H3	1420	C90 H H3	ng/g		5	
PCB-102	16	C98 H H3	15.9	C98 H H3	ng/g		0.8	
PCB-103	4.6	J q H H3	4.73	J H H3	ng/g		2	
PCB-104	ND	H H3	ND	H H3	ng/g		NC	50
PCB-105	1200	H H3	1090	H H3	ng/g		6	50
PCB-106	ND	H H3	ND	H H3	ng/g		NC	
PCB-107	170	H H3	166	H H3	ng/g		4	

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-1 DU
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: 21L0901-01
Prep Type: Total/NA
Prep Batch: 57963

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
PCB-108	83	C H H3	79.8	C H H3	ng/g		4	
PCB-109	950	C86 H H3	902	C86 H H3	ng/g		5	
PCB-110	1000	C H H3	949	C H H3	ng/g		5	
PCB-111	ND	H H3	ND	H H3	ng/g		NC	
PCB-112	10	H H3	6.55	H H3	ng/g		42	
PCB-113	1500	C90 H H3	1420	C90 H H3	ng/g		5	
PCB-114	100	H H3	98.8	H H3	ng/g		3	50
PCB-115	1000	C110 H H3	949	C110 H H3	ng/g		5	
PCB-116	420	C85 H H3	400	C85 H H3	ng/g		4	
PCB-117	420	C85 H H3	400	C85 H H3	ng/g		4	
PCB-118	2800	H H3 B	2730	H H3	ng/g		4	50
PCB-119	950	C86 H H3	902	C86 H H3	ng/g		5	
PCB-120	ND	H H3	ND	H H3	ng/g		NC	
PCB-121	ND	H H3	ND	H H3	ng/g		NC	
PCB-122	29	H H3	27.7	q H H3	ng/g		4	
PCB-123	61	H H3	58.8	H H3	ng/g		4	50
PCB-124	83	C108 H H3	79.8	C108 H H3	ng/g		4	
PCB-125	950	C86 H H3	902	C86 H H3	ng/g		5	
PCB-126	ND	H H3	ND	H H3	ng/g		NC	50
PCB-127	6.1	H H3	6.32	H H3	ng/g		3	
PCB-128	370	C H H3	352	C H H3	ng/g		5	
PCB-129	2100	C H H3 B	2010	C H H3	ng/g		4	
PCB-130	150	H H3	147	H H3	ng/g		4	
PCB-131	24	H H3	21.9	H H3	ng/g		8	
PCB-132	280	H H3	264	H H3	ng/g		4	
PCB-133	23	H H3	21.2	H H3	ng/g		8	
PCB-134	83	C H H3	82.2	C H H3	ng/g		1	
PCB-135	240	C H H3 B	233	C H H3	ng/g		3	
PCB-136	68	H H3 B	66.7	H H3	ng/g		2	
PCB-137	230	H H3	218	H H3	ng/g		5	
PCB-138	2100	C129 H H3 B	2010	C129 H H3	ng/g		4	
PCB-139	36	C H H3	33.8	C H H3	ng/g		7	
PCB-140	36	C139 H H3	33.8	C139 H H3	ng/g		7	
PCB-141	200	H H3	194	H H3	ng/g		5	
PCB-142	ND	H H3	ND	H H3	ng/g		NC	
PCB-143	83	C134 H H3	82.2	C134 H H3	ng/g		1	
PCB-144	59	H H3	55.3	H H3	ng/g		6	
PCB-145	0.47	J q H H3	0.629	J q H H3	ng/g		29	
PCB-146	240	H H3	232	H H3	ng/g		4	
PCB-147	700	C H H3 B	677	C H H3	ng/g		4	
PCB-148	0.38	J q H H3	0.382	J q H H3	ng/g		1	
PCB-149	700	C147 H H3 B	677	C147 H H3	ng/g		4	
PCB-150	0.82	J q H H3	0.964	J q H H3	ng/g		16	

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-1 DU
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: 21L0901-01
Prep Type: Total/NA
Prep Batch: 57963

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
PCB-151	240	C135 H H3 B	233	C135 H H3	ng/g		3	
PCB-152	0.49	J H H3 B	0.353	J q H H3	ng/g		32	
PCB-153	1500	C H H3 B	1420	C H H3	ng/g		4	
PCB-154	9.0	H H3	8.69	H H3	ng/g		3	
PCB-155	ND	H H3	ND	H H3	ng/g		NC	50
PCB-156	480	C H H3 B	464	C H H3	ng/g		4	50
PCB-157	480	C156 H H3 B	464	C156 H H3	ng/g		4	50
PCB-158	220	H H3	207	H H3	ng/g		5	
PCB-159	ND	H H3	ND	H H3	ng/g		NC	
PCB-160	2100	C129 H H3 B	2010	C129 H H3	ng/g		4	
PCB-161	ND	H H3	ND	H H3	ng/g		NC	
PCB-162	11	H H3	10.1	H H3	ng/g		6	
PCB-163	2100	C129 H H3 B	2010	C129 H H3	ng/g		4	
PCB-164	100	H H3	101	H H3	ng/g		2	
PCB-165	ND	H H3	ND	H H3	ng/g		NC	
PCB-166	370	C128 H H3	352	C128 H H3	ng/g		5	
PCB-167	140	H H3	131	H H3	ng/g		3	50
PCB-168	1500	C153 H H3 B	1420	C153 H H3	ng/g		4	
PCB-169	ND	H H3	ND	H H3	ng/g		NC	50
PCB-170	160	H H3	156	H H3	ng/g		4	
PCB-171	32	C H H3	30.2	C H H3	ng/g		6	
PCB-172	18	H H3 B	18.1	H H3	ng/g		0.07	
PCB-173	32	C171 H H3	30.2	C171 H H3	ng/g		6	
PCB-174	58	H H3	55.3	H H3	ng/g		4	
PCB-175	4.0	J H H3	4.12	J H H3	ng/g		2	
PCB-176	6.5	H H3	6.03	H H3	ng/g		8	
PCB-177	45	H H3 B	42.2	H H3	ng/g		6	
PCB-178	13	H H3	11.9	H H3	ng/g		7	
PCB-179	8.6	H H3 B	8.87	H H3	ng/g		4	
PCB-180	250	C H H3 B	243	C H H3	ng/g		3	
PCB-181	4.9	q H H3 B	5.18	H H3	ng/g		5	
PCB-182	1.1	J q H H3	0.874	J q H H3	ng/g		24	
PCB-183	58	C H H3 B	54.9	C H H3	ng/g		5	
PCB-184	ND	H H3	ND	H H3	ng/g		NC	
PCB-185	58	C183 H H3 B	54.9	C183 H H3	ng/g		5	
PCB-186	ND	H H3	ND	H H3	ng/g		NC	
PCB-187	88	H H3	86.6	H H3	ng/g		2	
PCB-188	ND	H H3	ND	H H3	ng/g		NC	50
PCB-189	11	H H3 B	10.7	H H3	ng/g		0.8	50
PCB-190	26	H H3	23.7	H H3	ng/g		11	
PCB-191	6.7	H H3	6.48	H H3	ng/g		3	
PCB-192	ND	H H3	ND	H H3	ng/g		NC	

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-1 DU
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: 21L0901-01
Prep Type: Total/NA
Prep Batch: 57963

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
PCB-193	250	C180 H H3 B		243	C180 H H3	ng/g				3	
PCB-194	15	H H3		15.1	H H3	ng/g				2	
PCB-195	5.7	H H3		5.34	H H3	ng/g				7	
PCB-196	7.1	H H3		7.03	H H3	ng/g				0.9	
PCB-197	0.39	J q H H3		ND	H H3	ng/g				NC	
PCB-198	13	C H H3		11.6	C H H3	ng/g				10	
PCB-199	13	C198 H H3		11.6	C198 H H3	ng/g				10	
PCB-200	0.64	J q H H3		0.493	J q H H3	ng/g				25	
PCB-201	1.2	J q H H3		0.955	J q H H3	ng/g				23	
PCB-202	1.5	J H H3		1.35	J q H H3	ng/g				13	50
PCB-203	5.0	q H H3 B		3.92	J q H H3	ng/g				25	
PCB-204	ND	H H3		ND	H H3	ng/g				NC	
PCB-205	0.55	J q H H3		0.758	J H H3	ng/g				31	50
PCB-206	3.5	J q H H3		3.09	J q H H3	ng/g				11	50
PCB-207	ND	H H3		ND	H H3	ng/g				NC	
PCB-208	ND	H H3		ND	H H3	ng/g				NC	50
PCB-209	0.97	J H H3		0.975	J q H H3	ng/g				0.2	50

Isotope Dilution	*DU %Recovery*	*DU Qualifier*	*Limits*
PCB-1L	*60*		*30 - 140*
PCB-3L	*63*		*30 - 140*
PCB-4L	*77*		*30 - 140*
PCB-15L	*81*		*30 - 140*
PCB-19L	*77*		*30 - 140*
PCB-37L	*83*		*30 - 140*
PCB-54L	*89*		*30 - 140*
PCB-77L	*84*		*30 - 140*
PCB-81L	*83*		*30 - 140*
PCB-104L	*81*		*30 - 140*
PCB-105L	*88*		*30 - 140*
PCB-114L	*84*		*30 - 140*
PCB-118L	*88*		*30 - 140*
PCB-123L	*86*		*30 - 140*
PCB-126L	*88*		*30 - 140*
PCB-155L	*87*		*30 - 140*
PCB-156L	*90*	*C*	*30 - 140*
PCB-157L	*90*	*C156*	*30 - 140*
PCB-167L	*88*		*30 - 140*
PCB-169L	*89*		*30 - 140*
PCB-170L	*91*		*30 - 140*
PCB-188L	*82*		*30 - 140*
PCB-189L	*101*		*30 - 140*
PCB-202L	*106*		*30 - 140*
PCB-205L	*90*		*30 - 140*
PCB-206L	*82*		*30 - 140*
PCB-208L	*85*		*30 - 140*
PCB-209L	*66*		*30 - 140*

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: 140-25780-1 DU
Matrix: Tissue
Analysis Batch: 58616

Client Sample ID: 21L0901-01
Prep Type: Total/NA
Prep Batch: 57963

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
PCB-28L	*81*		*40 - 125*
PCB-111L	*90*		*40 - 125*
PCB-178L	*93*		*40 - 125*

QC Association Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Specialty Organics

Prep Batch: 57903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25780-3	21L0902-01	Total/NA	Tissue	HRMS-Sox	
MB 140-57903/17-B	Method Blank	Total/NA	Tissue	HRMS-Sox	
LCS 140-57903/18-B	Lab Control Sample	Total/NA	Tissue	HRMS-Sox	
140-25780-3 MS	21L0902-01	Total/NA	Tissue	HRMS-Sox	
140-25780-3 MSD	21L0902-01	Total/NA	Tissue	HRMS-Sox	
140-25780-3 DU	21L0902-01	Total/NA	Tissue	HRMS-Sox	

Prep Batch: 57963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25780-1	21L0901-01	Total/NA	Tissue	HRMS-Sox	
140-25780-2	21L0901-02	Total/NA	Tissue	HRMS-Sox	
140-25780-4	21L0902-02	Total/NA	Tissue	HRMS-Sox	
140-25780-5	21L1003-01	Total/NA	Tissue	HRMS-Sox	
140-25780-6	21L1003-02	Total/NA	Tissue	HRMS-Sox	
140-25780-7	21L0903-01	Total/NA	Tissue	HRMS-Sox	
140-25780-8	21L0903-02	Total/NA	Tissue	HRMS-Sox	
140-25780-9	21L0904-01	Total/NA	Tissue	HRMS-Sox	
140-25780-10	21L0904-02	Total/NA	Tissue	HRMS-Sox	
140-25780-11	21L0906-01	Total/NA	Tissue	HRMS-Sox	
140-25780-12	21L0906-02	Total/NA	Tissue	HRMS-Sox	
MB 140-57963/16-B	Method Blank	Total/NA	Tissue	HRMS-Sox	
LCS 140-57963/15-B	Lab Control Sample	Total/NA	Tissue	HRMS-Sox	
140-25780-1 MS	21L0901-01	Total/NA	Tissue	HRMS-Sox	
140-25780-1 MSD	21L0901-01	Total/NA	Tissue	HRMS-Sox	
140-25780-1 DU	21L0901-01	Total/NA	Tissue	HRMS-Sox	

Cleanup Batch: 58125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25780-3	21L0902-01	Total/NA	Tissue	Split	57903
MB 140-57903/17-B	Method Blank	Total/NA	Tissue	Split	57903
LCS 140-57903/18-B	Lab Control Sample	Total/NA	Tissue	Split	57903
140-25780-3 MS	21L0902-01	Total/NA	Tissue	Split	57903
140-25780-3 MSD	21L0902-01	Total/NA	Tissue	Split	57903
140-25780-3 DU	21L0902-01	Total/NA	Tissue	Split	57903

Cleanup Batch: 58299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25780-1	21L0901-01	Total/NA	Tissue	Split	57963
140-25780-2	21L0901-02	Total/NA	Tissue	Split	57963
140-25780-4	21L0902-02	Total/NA	Tissue	Split	57963
140-25780-5	21L1003-01	Total/NA	Tissue	Split	57963
140-25780-6	21L1003-02	Total/NA	Tissue	Split	57963
140-25780-7	21L0903-01	Total/NA	Tissue	Split	57963
140-25780-8	21L0903-02	Total/NA	Tissue	Split	57963
140-25780-9	21L0904-01	Total/NA	Tissue	Split	57963
140-25780-10	21L0904-02	Total/NA	Tissue	Split	57963
140-25780-11	21L0906-01	Total/NA	Tissue	Split	57963
140-25780-12	21L0906-02	Total/NA	Tissue	Split	57963
MB 140-57963/16-B	Method Blank	Total/NA	Tissue	Split	57963
LCS 140-57963/15-B	Lab Control Sample	Total/NA	Tissue	Split	57963
140-25780-1 MS	21L0901-01	Total/NA	Tissue	Split	57963

Specialty Organics (Continued)

Cleanup Batch: 58299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25780-1 MSD	21L0901-01	Total/NA	Tissue	Split	57963
140-25780-1 DU	21L0901-01	Total/NA	Tissue	Split	57963

Analysis Batch: 58616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25780-1	21L0901-01	Total/NA	Tissue	1668A	58299
140-25780-2	21L0901-02	Total/NA	Tissue	1668A	58299
MB 140-57963/16-B	Method Blank	Total/NA	Tissue	1668A	58299
LCS 140-57963/15-B	Lab Control Sample	Total/NA	Tissue	1668A	58299
140-25780-1 MS	21L0901-01	Total/NA	Tissue	1668A	58299
140-25780-1 MSD	21L0901-01	Total/NA	Tissue	1668A	58299
140-25780-1 DU	21L0901-01	Total/NA	Tissue	1668A	58299

Analysis Batch: 58625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25780-4	21L0902-02	Total/NA	Tissue	1668A	58299
140-25780-5	21L1003-01	Total/NA	Tissue	1668A	58299
140-25780-6	21L1003-02	Total/NA	Tissue	1668A	58299
140-25780-7	21L0903-01	Total/NA	Tissue	1668A	58299
140-25780-9	21L0904-01	Total/NA	Tissue	1668A	58299
140-25780-10	21L0904-02	Total/NA	Tissue	1668A	58299

Analysis Batch: 58634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25780-11	21L0906-01	Total/NA	Tissue	1668A	58299
140-25780-12	21L0906-02	Total/NA	Tissue	1668A	58299
MB 140-57903/17-B	Method Blank	Total/NA	Tissue	1668A	58125
LCS 140-57903/18-B	Lab Control Sample	Total/NA	Tissue	1668A	58125

Analysis Batch: 58643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25780-3	21L0902-01	Total/NA	Tissue	1668A	58125
140-25780-8	21L0903-02	Total/NA	Tissue	1668A	58299
140-25780-3 MS	21L0902-01	Total/NA	Tissue	1668A	58125
140-25780-3 MSD	21L0902-01	Total/NA	Tissue	1668A	58125
140-25780-3 DU	21L0902-01	Total/NA	Tissue	1668A	58125

Lab Chronicle

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0901-01 — Lab Sample ID: 140-25780-1

Date Collected: 08/26/20 11:10
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.05 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			400 uL	100 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58616	02/06/22 05:41	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0901-02 — Lab Sample ID: 140-25780-2

Date Collected: 08/24/20 11:50
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.08 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			400 uL	100 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58616	02/06/22 04:39	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0902-01 — Lab Sample ID: 140-25780-3

Date Collected: 09/02/20 10:44
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.25 g	20 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	250 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		3			58643	02/07/22 17:06	KBL	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0902-02 — Lab Sample ID: 140-25780-4

Date Collected: 09/09/20 09:30
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			0.99 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			800 uL	100 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58625	02/06/22 15:32	JMN	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L1003-01 — Lab Sample ID: 140-25780-5

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			9.66 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			10 mL	50 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58625	02/06/22 16:34	JMN	TAL KNX
	Instrument ID:	D4D								

Lab Chronicle

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L1003-02 — Lab Sample ID: 140-25780-6

Date Collected: 11/11/20 12:00
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			2.10 g	10 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			10 mL	100 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58625	02/06/22 17:36	JMN	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0903-01 — Lab Sample ID: 140-25780-7

Date Collected: 08/26/20 08:08
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.23 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			10 mL	250 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58625	02/06/22 18:39	JMN	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0903-02 — Lab Sample ID: 140-25780-8

Date Collected: 09/02/20 11:02
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.27 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			10 mL	250 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		3			58643	02/07/22 16:04	KBL	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0904-01 — Lab Sample ID: 140-25780-9

Date Collected: 09/11/20 10:01
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.29 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			10 mL	250 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58625	02/06/22 20:43	JMN	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0904-02 — Lab Sample ID: 140-25780-10

Date Collected: 08/24/20 14:48
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			2.04 g	10 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			10 mL	100 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58625	02/06/22 21:45	JMN	TAL KNX
	Instrument ID:	D4D								

Lab Chronicle

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0906-01 — Lab Sample ID: 140-25780-11

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.05 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			400 uL	100 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58634	02/07/22 05:56	LKM	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0906-02 — Lab Sample ID: 140-25780-12

Date Collected: 11/12/20 12:00
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.28 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			10 mL	250 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58634	02/07/22 06:58	LKM	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: Method Blank — Lab Sample ID: MB 140-57903/17-B

Date Collected: N/A
Date Received: N/A
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10 g	20 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	50 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		1			58634	02/07/22 03:51	LKM	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: Method Blank — Lab Sample ID: MB 140-57963/16-B

Date Collected: N/A
Date Received: N/A
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			10 mL	50 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58616	02/06/22 03:37	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 140-57903/18-B

Date Collected: N/A
Date Received: N/A
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10 g	20 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	50 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		1			58634	02/07/22 00:46	LKM	TAL KNX
	Instrument ID:	D4D								

Lab Chronicle

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 140-57963/15-B
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			10 mL	50 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58616	02/06/22 00:30	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0901-01
Date Collected: 08/26/20 11:10
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-1 MS
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.09 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			400 uL	100 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58616	02/06/22 07:46	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0901-01
Date Collected: 08/26/20 11:10
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-1 MSD
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.02 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			400 uL	100 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58616	02/06/22 08:48	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0902-01
Date Collected: 09/02/20 10:44
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-3 MS
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.29 g	20 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	250 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		3			58643	02/07/22 19:11	KBL	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0902-01
Date Collected: 09/02/20 10:44
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-3 MSD
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.28 g	20 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	250 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		3			58643	02/07/22 20:13	KBL	TAL KNX
	Instrument ID:	D4D								

Lab Chronicle

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Client Sample ID: 21L0901-01

Date Collected: 08/26/20 11:10
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-1 DU

Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.02 g	20 mL	57963	01/17/22 11:38	SSS	TAL KNX
Total/NA	Cleanup	Split			400 uL	100 uL	58299	01/27/22 08:10	ALS	TAL KNX
Total/NA	Analysis	1668A		1			58616	02/06/22 06:44	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0902-01

Date Collected: 09/02/20 10:44
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25780-3 DU

Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			1.28 g	20 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	250 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		3			58643	02/07/22 18:08	KBL	TAL KNX
	Instrument ID:	D4D								

Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Laboratory: Eurofins Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-25
ANAB	Dept. of Energy	L2311.01	02-13-25
ANAB	ISO/IEC 17025	L2311	02-13-25
Arkansas DEQ	State	88-0688	06-17-22
California	State	2423	06-30-22
Colorado	State	TN00009	02-28-22
Connecticut	State	PH-0223	09-30-23
Florida	NELAP	E87177	06-30-22
Georgia (DW)	State	906	12-11-22
Hawaii	State	NA	12-11-22
Kansas	NELAP	E-10349	10-31-22
Kentucky (DW)	State	90101	12-31-22
Louisiana	NELAP	83979	06-30-22
Louisiana (DW)	State	LA019	12-31-22
Maryland	State	277	03-31-22
Michigan	State	9933	12-11-22
Nevada	State	TN00009	07-31-22
New Hampshire	NELAP	299919	01-17-23
New Jersey	NELAP	TN001	06-30-22
New York	NELAP	10781	03-31-22
North Carolina (DW)	State	21705	07-31-22
North Carolina (WW/SW)	State	64	12-31-22
Ohio VAP	State	CL0059	06-02-23
Oklahoma	State	9415	08-31-22
Oregon	NELAP	TNI0189	12-31-22
Pennsylvania	NELAP	68-00576	12-31-22
Tennessee	State	02014	12-11-22
Texas	NELAP	T104704380-18-12	08-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-19-00236	08-20-22
Utah	NELAP	TN00009	07-31-22
Virginia	NELAP	460176	09-14-22
Washington	State	C593	01-19-23
West Virginia (DW)	State	9955C	12-31-22
West Virginia DEP	State	345	04-30-22
Wisconsin	State	998044300	08-31-22

Method Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25780-1

Method	Method Description	Protocol	Laboratory
1668A	Chlorinated Biphenyl Congeners (HRGC/HRMS)	EPA	TAL KNX
HRMS-Sox	Soxhlet Extraction	EPA	TAL KNX
Split	Split Factor Determination	None	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

SUBCONTRACT ORDER

ERDC-EL-EP-C

21L0901-02-Quote:14006513. Please bill Paul Henige at APPL

SENDING LABORATORY:

ERDC-EL-EP-C
3909 Halls Ferry Road , Building 3299
Vicksburg, MS 39180
Phone: 601-634-7431
Fax: 601-619-5138
Project Manager: Jenifer Milam Netchaev

RECEIVING LABORATORY:

Eurofins TestAmerica Knoxville--APPL
5815 Middlebrook Pike
Knoxville, TN 37921
Phone :(865) 291-3000
Fax:

Samples have been Homogenized

Bill UFC Delivery Order ID: Quote:14006513. Please bill

Analysis	Due	Expires	Comments
Sample Name: SB2007			
Sample ID: 21L0901-01 MS/MSD/DUP **Tissue**	**Sampled:**	**26-Aug-2020 11:10**	
PCB 209 Congeners	07-Jan-2022 00:00	05-Oct-2020 11:10	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			
Sample Name: SB3001			
Sample ID: 21L0901-02 **Tissue**	**Sampled:**	**24-Aug-2020 11:50**	
PCB 209 Congeners	07-Jan-2022 00:00	03-Oct-2020 11:50	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			

140-25780 Chain of Custody

Summer Nash 12/15/2021 ~~12/13/2021~~ [signature] ETA-KNX 12-16-21 10:00

Released By | Date | Received By | Date

Released By | Date | Received By | Date

Page 1 of 1

SUBCONTRACT ORDER

ERDC-EL-EP-C

21L0902-02-Quote:14006513. Please bill Paul Henige at APPL

SENDING LABORATORY:	RECEIVING LABORATORY:
ERDC-EL-EP-C	Eurofins TestAmerica Knoxville--APPL
3909 Halls Ferry Road , Building 3299	5815 Middlebrook Pike
Vicksburg, MS 39180	Knoxville, TN 37921
Phone: 601-634-7431	Phone :(865) 291-3000
Fax: 601-619-5138	Fax:
Project Manager: Jenifer Milam Netchaev	

Samples have been Homogenized

Bill UFC Delivery Order ID: Quote:14006513. Please bill

Analysis	Due	Expires	Comments
Sample Name: SB3024			
Sample ID: 21L0902-01 MS/MSD/DUP **Tissue**	**Sampled:**	**02-Sep-2020 10:44**	
PCB 209 Congeners	07-Jan-2022 00:00	12-Oct-2020 10:44	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			
Sample Name: SB3029			
Sample ID: 21L0902-02 **Tissue**	**Sampled:**	**09-Sep-2020 09:30**	
PCB 209 Congeners	07-Jan-2022 00:00	19-Oct-2020 09:30	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			

Summer Nash 12/15/2021 ~~12/13/2021~~ [signature] ETAKNX 12-16-21 10:00

Released By Date Received By Date

Released By Date Received By Date

Page 1 of 1

SUBCONTRACT ORDER

ERDC-EL-EP-C

21L1003-02-Quote:14006513. Please bill Paul Henige at APPL

SENDING LABORATORY:

ERDC-EL-EP-C
3909 Halls Ferry Road , Building 3299
Vicksburg, MS 39180
Phone: 601-634-7431
Fax: 601-619-5138
Project Manager: Jenifer Milam Netchaev

RECEIVING LABORATORY:

Eurofins TestAmerica Knoxville--APPL
5815 Middlebrook Pike
Knoxville, TN 37921
Phone :(865) 291-3000
Fax:

Samples have been Homogenized

Bill UFC Delivery Order ID: Quote:14006513. Please bill

Analysis		Due	Expires	Comments
Sample Name: CF Comp 25				
Sample ID: 21L1003-01	**Tissue**	**Sampled:**	**09-Sep-2020 12:00**	
PCB 209 Congeners		10-Jan-2022 00:00	19-Oct-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:				
Sample Name: B1-11NOV2020-D-2				
Sample ID: 21L1003-02	**Tissue**	**Sampled:**	**11-Nov-2020 12:00**	
PCB 209 Congeners		10-Jan-2022 00:00	21-Dec-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:				

Released By	Date	Received By	Date
[signature]	12/15/2021	[signature] FEDEX	12-16-21 10:00

Page 1 of 1

SUBCONTRACT ORDER

ERDC-EL-EP-C

21L0903-02-Quote:14006513. Please bill Paul Henige at APPL

SENDING LABORATORY:	RECEIVING LABORATORY:
ERDC-EL-EP-C	Eurofins TestAmerica Knoxville--APPL
3909 Halls Ferry Road , Building 3299	5815 Middlebrook Pike
Vicksburg, MS 39180	Knoxville, TN 37921
Phone: 601-634-7431	Phone :(865) 291-3000
Fax: 601-619-5138	Fax:
Project Manager: Jenifer Milam Netchaev	

* Samples have been Homogenized *

Bill UFC Delivery Order ID: Quote:14006513. Please bill

Analysis	Due	Expires	Comments
Sample Name: SB3015			
Sample ID: 21L0903-01 **Tissue**	**Sampled:**	**26-Aug-2020 08:08**	
PCB 209 Congeners	07-Jan-2022 00:00	05-Oct-2020 08:08	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			
Sample Name: SB3025			
Sample ID: 21L0903-02 **Tissue**	**Sampled:**	**02-Sep-2020 11:02**	
PCB 209 Congeners	07-Jan-2022 00:00	12-Oct-2020 11:02	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			

Summer Nash 12/15/2021 ~~12/13/2021~~ [signature] E-TA-KNX 12-16-21 10:00

Released By | Date | Received By | Date

Released By | Date | Received By | Date

Page 1 of 1

SUBCONTRACT ORDER

ERDC-EL-EP-C

21L0904-02-Quote:14006513. Please bill Paul Henige at APPL

SENDING LABORATORY:

ERDC-EL-EP-C
3909 Halls Ferry Road , Building 3299
Vicksburg, MS 39180
Phone: 601-634-7431
Fax: 601-619-5138
Project Manager: Jenifer Milam Netchaev

RECEIVING LABORATORY:

Eurofins TestAmerica Knoxville--APPL
5815 Middlebrook Pike
Knoxville, TN 37921
Phone :(865) 291-3000
Fax:

Samples have been Homogenized

Bill UFC Delivery Order ID: Quote:14006513. Please bill

Analysis		Due	Expires	Comments
Sample Name: SB3034				
Sample ID: 21L0904-01	**Tissue**	**Sampled:**	**11-Sep-2020 10:01**	
PCB 209 Congeners		07-Jan-2022 00:00	21-Oct-2020 10:01	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:				
Sample Name: SB1004				
Sample ID: 21L0904-02	**Tissue**	**Sampled:**	**24-Aug-2020 14:48**	
PCB 209 Congeners		07-Jan-2022 00:00	03-Oct-2020 14:48	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:				

Released By	Date	Received By	Date
Summer Nash	12/15/2021 ~~12/13/2021~~	FJA KNX	12-16-21 10:00

Page 1 of 1

SUBCONTRACT ORDER

ERDC-EL-EP-C

21L0906-02-Quote:14006513. Please bill Paul Henige at APPL

SENDING LABORATORY:

ERDC-EL-EP-C
3909 Halls Ferry Road , Building 3299
Vicksburg, MS 39180
Phone: 601-634-7431
Fax: 601-619-5138
Project Manager: Jenifer Milam Netchaev

RECEIVING LABORATORY:

Eurofins TestAmerica Knoxville--APPL
5815 Middlebrook Pike
Knoxville, TN 37921
Phone :(865) 291-3000
Fax:

* Samples have been Homogenized *

Bill UFC Delivery Order ID: Quote:14006513. Please bill

Analysis	Due	Expires	Comments
Sample Name: BI-25SEP20-DU10-3			
Sample ID: 21L0906-01 **Tissue**	**Sampled:**	**25-Sep-2020 12:00**	
PCB 209 Congeners	07-Jan-2022 00:00	04-Nov-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			
Sample Name: B1-12NOV2020-F-3			
Sample ID: 21L0906-02 **Tissue**	**Sampled:**	**12-Nov-2020 12:00**	
PCB 209 Congeners	07-Jan-2022 00:00	22-Dec-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			

Summer Nash 12/15/2021 ~~12/13/2021~~ [signature] ETA KNX 12-15-21 10:00

Released By Date Received By Date

Released By Date Received By Date

Page 1 of 1

Loc: 140
25780

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST **Log In Number:**

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	✓			☐ Containers, Broken	NO CUSTODY SEALS
2. Were ambient air containers received intact?			✓	☐ Checked in lab	RECEIVED AT RT 1.8, 2.3 / CT 1.7, 2.2°C
3. The coolers/containers custody seal if present, is it intact?			✓	☐ Yes ☐ NA	BKD 12-16-21 2 COOLERS FEDX# 775506663000m PO
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : SC71 Correction factor: -0.1°c	✓			☐ Cooler Out of Temp, Client Contacted, Proceed/Cancel ☐ Cooler Out of Temp, Same Day Receipt	6, RECEIVED IN CLEAR GLASS, SHOULD BE AMBER
5. Were all of the sample containers received intact?	✓			☐ Containers, Broken	
6. Were samples received in appropriate containers? BKD 12-16-21	✗	✓		☑ Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ COC & Samples Do Not Match ☐ COC Incorrect/Incomplete ☐ COC Not Received	
8. Were all of the samples listed on the COC received?	✓			☐ Sample Received, Not on COC ☐ Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	✓			☐ COC; No Date/Time; Client Contacted	
10. Was the sampler identified on the COC?			✓	☐ Sampler Not Listed on COC	Labeling Verified by: Date:
11. Is the client and project name/# identified?	✓			☐ COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	✓			☐ COC No tests on COC	pH test strip lot number:
13. Is the matrix of the samples noted?	✓			☐ COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ COC Incorrect/Incomplete	
15. Were samples received within holding time?	✓			☐ Holding Time - Receipt	
16. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ pH Adjusted, pH Included (See box 16A) ☐ Incorrect Preservative	
17. Were VOA samples received without headspace?			✓	☐ Headspace (VOA only)	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:			✓	☐ Residual Chlorine	
19. For 1613B water samples is pH<9?			✓	☐ If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?			✓	☐ Project missing info	

	Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative:		
Lot Number:		
Exp Date:		
Analyst:		
Date:		
Time:		

Project #: 14006544 PM Instructions:

Sample Receiving Associate: [signature] Date: 12-16-21

QA026R32.doc, 062719

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

Laboratory Job ID: 140-25783-1
Client Project/Site: USACE ERDC PCB Congeners

For:
U.S. Army Corps of Engineers
3909 Halls Ferry Road
Vicksburg, Mississippi 39180

Attn: Jenifer Netchaev

Ryan Henry

Authorized for release by:
2/11/2022 9:25:35 AM

Ryan Henry, Project Manager I
(865)291-3000
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

Dioxin

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
C	The compound co-eluted with other compounds
C108	The compound co-eluted with PCB-108
C110	The compound co-eluted with PCB-110
C12	The compound co-eluted with PCB-12
C128	The compound co-eluted with PCB-128
C129	The compound co-eluted with PCB-129
C134	The compound co-eluted with PCB-134
C135	The compound co-eluted with PCB-135
C139	The compound co-eluted with PCB-139
C147	The compound co-eluted with PCB-147
C153	The compound co-eluted with PCB-153
C156	The compound co-eluted with PCB-156
C171	The compound co-eluted with PCB-171
C18	The compound co-eluted with PCB-18
C180	The compound co-eluted with PCB-180
C183	The compound co-eluted with PCB-183
C198	The compound co-eluted with PCB-198
C20	The compound co-eluted with PCB-20
C21	The compound co-eluted with PCB-21
C26	The compound co-eluted with PCB-26
C40	The compound co-eluted with PCB-40
C43	The compound co-eluted with PCB-43
C44	The compound co-eluted with PCB-44
C45	The compound co-eluted with PCB-45
C49	The compound co-eluted with PCB-49
C50	The compound co-eluted with PCB-50
C59	The compound co-eluted with PCB-59
C61	The compound co-eluted with PCB-61
C83	The compound co-eluted with PCB-83
C85	The compound co-eluted with PCB-85
C86	The compound co-eluted with PCB-86
C88	The compound co-eluted with PCB-88
C90	The compound co-eluted with PCB-90
C93	The compound co-eluted with PCB-93
C98	The compound co-eluted with PCB-98
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
S1-	Surrogate recovery exceeds control limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 140-25783-1

Laboratory: Eurofins Knoxville

Narrative

Job Narrative
140-25783-1

Receipt
The samples were received on 12/16/2021 at 10:00am and arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.7º C and 2.2º C.

Receipt Exceptions
Improper containers: Received in clear glass, should be amber glass.

21L0905-01 (140-25783-1), 21L0905-02 (140-25783-2), 21L0907-01 (140-25783-3), 21L0907-02 (140-25783-4), 21L0908-01 (140-25783-5), 21L0908-02 (140-25783-6), 21L1001-01 (140-25783-7), 21L1001-02 (140-25783-8), 21L0909-01 (140-25783-9), 21L0909-02 (140-25783-10), 21L1002-01 (140-25783-11) and 21L1002-02 (140-25783-12)

The following samples were received outside of holding time: 21L0905-01 (140-25783-1), 21L0905-02 (140-25783-2), 21L0907-01 (140-25783-3), 21L0907-02 (140-25783-4), 21L0908-01 (140-25783-5), 21L0908-02 (140-25783-6), 21L1001-01 (140-25783-7), 21L1001-02 (140-25783-8), 21L0909-01 (140-25783-9), 21L0909-02 (140-25783-10), 21L1002-01 (140-25783-11) and 21L1002-02 (140-25783-12).

HRMS
Methods 0010/1668A, 1613B, 1668A, 1668C, 23, 8290A, Split, TO-9A: The identification of samples and analytes for which manual integrations were necessary is listed in the manual integration summary.

Method 1668A: The following samples exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): 21L0907-01 (140-25783-3), 21L0907-02 (140-25783-4), 21L0908-01 (140-25783-5), 21L0908-02 (140-25783-6), 21L1001-01 (140-25783-7) and 21L1002-02 (140-25783-12 . The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

Method 1668A: The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: 21L0908-01 (140-25783-5). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Methods 1668_Sep_2L, 3540C, 3550C, 8290, Back Half Prep, Concentration, HRMS-Sepf, HRMS-Sox, HRMS-Soxthm, Split: The following samples went through Gel-Permeation Cleanup procedure, based on EPA method 3640A:

21L0905-01 (140-25783-1), 21L0905-02 (140-25783-2), 21L0907-01 (140-25783-3), 21L0907-02 (140-25783-4), 21L0908-01 (140-25783-5), 21L0908-02 (140-25783-6), 21L1001-01 (140-25783-7), 21L1001-02 (140-25783-8), 21L0909-01 (140-25783-9), 21L0909-02 (140-25783-10), 21L1002-01 (140-25783-11) and 21L1002-02 (140-25783-12)

Method Split: Sample 21L0908-01 (140-25783-5) lost 75% of its volume when the vial fell over during dual columns.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-25783-1	21L0905-01	Tissue	08/24/20 10:51	12/16/21 10:00
140-25783-2	21L0905-02	Tissue	08/24/20 14:00	12/16/21 10:00
140-25783-3	21L0907-01	Tissue	11/12/20 12:00	12/16/21 10:00
140-25783-4	21L0907-02	Tissue	09/25/20 12:00	12/16/21 10:00
140-25783-5	21L0908-01	Tissue	11/10/20 12:00	12/16/21 10:00
140-25783-6	21L0908-02	Tissue	11/10/20 12:00	12/16/21 10:00
140-25783-7	21L1001-01	Tissue	09/09/20 12:00	12/16/21 10:00
140-25783-8	21L1001-02	Tissue	09/09/20 12:00	12/16/21 10:00
140-25783-9	21L0909-01	Tissue	11/16/20 12:00	12/16/21 10:00
140-25783-10	21L0909-02	Tissue	09/25/20 12:00	12/16/21 10:00
140-25783-11	21L1002-01	Tissue	09/09/20 12:00	12/16/21 10:00
140-25783-12	21L1002-02	Tissue	09/09/20 12:00	12/16/21 10:00

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L0905-01

Date Collected: 08/24/20 10:51
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-1

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND	H H3	0.050	0.00093	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-2	ND	H H3	0.050	0.0010	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-3	ND	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-4	ND	H H3	0.099	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-5	ND	H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-6	ND	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-7	ND	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-8	**0.0055**	**J H H3 B**	0.099	0.0011	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-9	ND	H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-10	ND	H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-11	**0.41**	**H H3 B**	0.099	0.0013	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-12	ND	H H3 C	0.099	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-13	ND	H H3 C12	0.099	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-14	ND	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-15	**0.0039**	**J q H H3 B**	0.050	0.0013	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-16	**0.0057**	**J H H3 B**	0.050	0.00077	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-17	**0.0089**	**J q H H3**	0.050	0.00079	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-18	**0.011**	**J q H H3 C B**	0.099	0.00054	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-19	**0.0035**	**J H H3 B**	0.050	0.00073	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-20	**0.040**	**J q H H3 C B**	0.099	0.0012	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-21	**0.017**	**J H H3 C B**	0.099	0.0012	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-22	**0.0086**	**J H H3 B**	0.050	0.0011	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-23	ND	H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-24	**0.00091**	**J q H H3**	0.050	0.00054	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-25	**0.0073**	**J q H H3**	0.050	0.0010	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-26	**0.0070**	**J H H3 C**	0.099	0.0013	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-27	**0.0027**	**J H H3**	0.050	0.00055	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-28	**0.040**	**J q H H3 C20 B**	0.099	0.0012	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-29	**0.0070**	**J H H3 C26**	0.099	0.0013	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-30	**0.011**	**J q H H3 C18 B**	0.099	0.00054	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-31	**0.026**	**J q H H3 B**	0.099	0.0011	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-32	**0.0044**	**J H H3 B**	0.050	0.00049	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-33	**0.017**	**J H H3 C21 B**	0.099	0.0012	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-34	ND	H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-35	ND	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-36	**0.0012**	**J q H H3**	0.050	0.0011	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-37	**0.0097**	**J q H H3 B**	0.050	0.0012	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-38	ND	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-39	**0.0029**	**J q H H3**	0.050	0.0012	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-40	**0.019**	**J q H H3 C**	0.15	0.0033	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-41	**0.019**	**J q H H3 C40**	0.15	0.0033	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-42	**0.012**	**J q H H3**	0.050	0.0035	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-43	ND	H H3 C	0.099	0.0027	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-44	**0.082**	**J H H3 C B**	0.15	0.0028	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-45	**0.0055**	**J q H H3 C**	0.099	0.0035	ng/g		01/14/22 12:40	02/07/22 14:00	1

Client Sample ID: 21L0905-01

Date Collected: 08/24/20 10:51
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-1

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-46	ND	H H3	0.050	0.0041	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-47	**0.082**	**J H H3 C44 B**	0.15	0.0028	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-48	**0.0088**	**J H H3**	0.050	0.0034	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-49	**0.064**	**J H H3 C**	0.099	0.0028	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-50	**0.0043**	**J q H H3 C**	0.099	0.0031	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-51	**0.0055**	**J q H H3 C45**	0.099	0.0035	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-52	**0.15**	**H H3 B**	0.050	0.0030	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-53	**0.0043**	**J q H H3 C50**	0.099	0.0031	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-54	ND	H H3	0.050	0.00055	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-55	ND	H H3	0.050	0.0021	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-56	**0.015**	**J H H3**	0.050	0.0021	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-57	ND	H H3	0.050	0.0023	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-58	ND	H H3	0.050	0.0021	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-59	**0.0067**	**J q H H3 C**	0.15	0.0025	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-60	**0.032**	**J H H3**	0.050	0.0026	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-61	**0.21**	**H H3 C B**	0.20	0.0021	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-62	**0.0067**	**J q H H3 C59**	0.15	0.0025	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-63	**0.014**	**J H H3**	0.050	0.0024	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-64	**0.041**	**J H H3 B**	0.050	0.0024	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-65	**0.082**	**J H H3 C44 B**	0.15	0.0028	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-66	**0.16**	**H H3**	0.050	0.0021	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-67	ND	H H3	0.050	0.0020	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-68	**0.0065**	**J q H H3**	0.050	0.0023	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-69	**0.064**	**J H H3 C49**	0.099	0.0028	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-70	**0.21**	**H H3 C61 B**	0.20	0.0021	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-71	**0.019**	**J q H H3 C40**	0.15	0.0033	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-72	ND	H H3	0.050	0.0021	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-73	ND	H H3 C43	0.099	0.0027	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-74	**0.21**	**H H3 C61 B**	0.20	0.0021	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-75	**0.0067**	**J q H H3 C59**	0.15	0.0025	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-76	**0.21**	**H H3 C61 B**	0.20	0.0021	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-77	**0.017**	**J H H3**	0.050	0.0024	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-78	ND	H H3	0.050	0.0022	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-79	**0.0047**	**J H H3**	0.050	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-80	ND	H H3	0.050	0.0022	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-81	ND	H H3	0.050	0.0027	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-82	**0.028**	**J H H3**	0.050	0.0016	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-83	**0.51**	**H H3 C B**	0.099	0.0016	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-84	**0.052**	**H H3**	0.050	0.0020	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-85	**0.16**	**H H3 C**	0.15	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-86	**0.26**	**J H H3 C B**	0.30	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-87	**0.26**	**J H H3 C86 B**	0.30	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-88	**0.054**	**J H H3 C**	0.099	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1

Client Sample ID: 21L0905-01

Date Collected: 08/24/20 10:51
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-1

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-89	ND	H H3	0.050	0.0017	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-90	**0.61**	**H H3 C B**	0.15	0.0015	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-91	**0.054**	**J H H3 C8**	0.099	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-92	**0.14**	**H H3**	0.050	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-93	**0.0074**	**J q H H3 C**	0.099	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-94	ND	H H3	0.050	0.0020	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-95	**0.23**	**H H3 B**	0.050	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-96	ND	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-97	**0.26**	**J H H3 C86 B**	0.30	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-98	**0.0035**	**J q H H3 C**	0.099	0.0015	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-99	**0.51**	**H H3 C83 E**	0.099	0.0016	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-100	**0.0074**	**J q H H3 C93**	0.099	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-101	**0.61**	**H H3 C90 E**	0.15	0.0015	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-102	**0.0035**	**J q H H3 C98**	0.099	0.0015	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-103	**0.0050**	**J H H3**	0.050	0.0017	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-104	ND	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-105	**0.32**	**H H3 B**	0.050	0.0041	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-106	ND	H H3	0.050	0.0037	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-107	**0.10**	**H H3**	0.050	0.0036	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-108	**0.024**	**J H H3 C**	0.099	0.0040	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-109	**0.26**	**J H H3 C86 B**	0.30	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-110	**0.44**	**H H3 C B**	0.099	0.0011	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-111	**0.0046**	**J q H H3**	0.050	0.0012	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-112	ND	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-113	**0.61**	**H H3 C90 E**	0.15	0.0015	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-114	**0.030**	**J H H3**	0.050	0.0040	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-115	**0.44**	**H H3 C110 B**	0.099	0.0011	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-116	**0.16**	**H H3 C85**	0.15	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-117	**0.16**	**H H3 C85**	0.15	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-118	**1.0**	**H H3 B**	0.050	0.0038	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-119	**0.26**	**J H H3 C86 B**	0.30	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-120	**0.0093**	**J H H3**	0.050	0.00098	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-121	ND	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-122	ND	H H3	0.050	0.0048	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-123	**0.025**	**J H H3**	0.050	0.0043	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-124	**0.024**	**J H H3 C108**	0.099	0.0040	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-125	**0.26**	**J H H3 C86 B**	0.30	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-126	ND	H H3	0.050	0.0039	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-127	ND	H H3	0.050	0.0037	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-128	**0.20**	**H H3 C B**	0.099	0.0017	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-129	**1.6**	**H H3 C B**	0.20	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-130	**0.10**	**H H3**	0.050	0.0025	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-131	ND	H H3	0.050	0.0023	ng/g		01/14/22 12:40	02/07/22 14:00	1

Client Sample ID: 21L0905-01

Date Collected: 08/24/20 10:51
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-1

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-132	0.14	H H3 B	0.050	0.0022	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-133	0.032	J H H3	0.050	0.0020	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-134	0.033	J H H3 C	0.099	0.0023	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-135	0.29	H H3 C B	0.099	0.00070	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-136	0.049	J H H3 B	0.050	0.00053	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-137	0.084	H H3	0.050	0.0021	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-138	1.6	H H3 C129 B	0.20	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-139	0.021	J H H3 C	0.099	0.0019	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-140	0.021	J H H3 C139	0.099	0.0019	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-141	0.12	H H3 B	0.050	0.0020	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-142	ND	H H3	0.050	0.0022	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-143	0.033	J H H3 C134	0.099	0.0023	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-144	0.030	J H H3	0.050	0.00071	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-145	0.0012	J H H3	0.050	0.00047	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-146	0.33	H H3	0.050	0.0017	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-147	0.51	H H3 C B	0.099	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-148	0.0033	J q H H3	0.050	0.00069	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-149	0.51	H H3 C147 B	0.099	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-150	0.0016	J q H H3 B	0.050	0.00051	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-151	0.29	H H3 C135 B	0.099	0.00070	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-152	0.00066	J q H H3	0.050	0.00045	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-153	1.7	H H3 C B	0.099	0.0016	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-154	0.024	J q H H3	0.050	0.00062	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-155	0.0039	J q H H3	0.050	0.00055	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-156	0.19	H H3 C B	0.099	0.0019	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-157	0.19	H H3 C156 B	0.099	0.0019	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-158	0.11	H H3 B	0.050	0.0015	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-159	0.0045	J H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-160	1.6	H H3 C129 B	0.20	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-161	ND	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-162	0.010	J H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-163	1.6	H H3 C129 B	0.20	0.0018	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-164	0.051	H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-165	ND	H H3	0.050	0.0017	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-166	0.20	H H3 C128 B	0.099	0.0017	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-167	0.069	H H3 B	0.050	0.0012	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-168	1.7	H H3 C153 B	0.099	0.0016	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-169	ND	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-170	0.20	H H3 B	0.050	0.00043	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-171	0.064	J H H3 C B	0.099	0.00041	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-172	0.037	J H H3	0.050	0.00041	ng/g		01/14/22 12:40	02/07/22 14:00	1

Client Sample ID: 21L0905-01

Date Collected: 08/24/20 10:51
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-1

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-173	0.064	J H H3 C171 B	0.099	0.00041	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-174	0.088	H H3 B	0.050	0.00037	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-175	0.010	J q H H3 B	0.050	0.00041	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-176	0.016	J H H3 B	0.050	0.00031	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-177	0.14	H H3 B	0.050	0.00037	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-178	0.084	H H3 B	0.050	0.00041	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-179	0.057	H H3 B	0.050	0.00026	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-180	0.62	H H3 C B	0.099	0.00033	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-181	0.0048	J H H3	0.050	0.00036	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-182	ND	H H3	0.050	0.00034	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-183	0.18	H H3 C B	0.099	0.00039	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-184	0.0044	J q H H3	0.050	0.00028	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-185	0.18	H H3 C183 B	0.099	0.00039	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-186	ND	H H3	0.050	0.00025	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-187	0.61	H H3 B	0.050	0.00033	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-188	ND	H H3	0.050	0.00028	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-189	0.012	J H H3	0.050	0.00066	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-190	0.056	H H3	0.050	0.00032	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-191	0.0096	J q H H3	0.050	0.00030	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-192	ND	H H3	0.050	0.00027	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-193	0.62	H H3 C180 B	0.099	0.00033	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-194	0.076	H H3	0.050	0.00091	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-195	0.049	J H H3 B	0.050	0.0010	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-196	0.045	J H H3 B	0.050	0.00095	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-197	0.0058	J q H H3	0.050	0.00069	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-198	0.10	H H3 C B	0.099	0.00084	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-199	0.10	H H3 C198 B	0.099	0.00084	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-200	0.0060	J H H3	0.050	0.00072	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-201	0.022	J H H3	0.050	0.00075	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-202	0.034	J q H H3	0.050	0.00070	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-203	0.057	H H3	0.050	0.00075	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-204	ND	H H3	0.050	0.00065	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-205	0.0034	J q H H3	0.050	0.00081	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-206	0.039	J H H3	0.050	0.0066	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-207	0.011	J q H H3	0.050	0.0053	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-208	0.019	J H H3	0.050	0.0050	ng/g		01/14/22 12:40	02/07/22 14:00	1
PCB-209	0.036	J H H3 B	0.050	0.00018	ng/g		01/14/22 12:40	02/07/22 14:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*57*		*30 - 140*	*01/14/22 12:40*	*02/07/22 14:00*	*1*
PCB-3L	*57*		*30 - 140*	*01/14/22 12:40*	*02/07/22 14:00*	*1*
PCB-4L	*76*		*30 - 140*	*01/14/22 12:40*	*02/07/22 14:00*	*1*
PCB-15L	*85*		*30 - 140*	*01/14/22 12:40*	*02/07/22 14:00*	*1*
PCB-19L	*77*		*30 - 140*	*01/14/22 12:40*	*02/07/22 14:00*	*1*
PCB-37L	*90*		*30 - 140*	*01/14/22 12:40*	*02/07/22 14:00*	*1*
PCB-54L	*107*		*30 - 140*	*01/14/22 12:40*	*02/07/22 14:00*	*1*
PCB-77L	*90*		*30 - 140*	*01/14/22 12:40*	*02/07/22 14:00*	*1*

Client Sample ID: 21L0905-01

Date Collected: 08/24/20 10:51
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-1

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-81L	89		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-104L	83		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-105L	88		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-114L	86		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-118L	87		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-123L	87		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-126L	87		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-155L	98		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-156L	89	C	30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-157L	89	C156	30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-167L	90		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-169L	84		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-170L	89		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-188L	86		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-189L	116		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-202L	109		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-205L	86		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-206L	85		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-208L	106		30 - 140	01/14/22 12:40	02/07/22 14:00	1
PCB-209L	91		30 - 140	01/14/22 12:40	02/07/22 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	66		40 - 125	01/14/22 12:40	02/07/22 14:00	1
PCB-111L	97		40 - 125	01/14/22 12:40	02/07/22 14:00	1
PCB-178L	96		40 - 125	01/14/22 12:40	02/07/22 14:00	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L0905-02

Date Collected: 08/24/20 14:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-2

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**0.0020**	**J H H3 q B**	0.048	0.00093	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-2	ND	H H3	0.048	0.0010	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-3	**0.0034**	**J H H3 q**	0.048	0.0011	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-4	ND	H H3	0.097	0.0015	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-5	ND	H H3	0.048	0.0013	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-6	ND	H H3	0.048	0.0010	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-7	ND	H H3	0.048	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-8	**0.0047**	**J H H3 B**	0.097	0.00099	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-9	ND	H H3	0.048	0.0011	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-10	ND	H H3	0.048	0.0013	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-11	**0.38**	**H H3 B**	0.097	0.0011	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-12	ND	H H3 C	0.097	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-13	ND	H H3 C12	0.097	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-14	ND	H H3	0.048	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-15	ND	H H3	0.048	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-16	**0.0047**	**J H H3 q B**	0.048	0.00067	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-17	**0.0061**	**J H H3 q**	0.048	0.00068	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-18	**0.0091**	**J H H3 C B**	0.097	0.00046	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-19	**0.0016**	**J H H3 q B**	0.048	0.00063	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-20	**0.034**	**J H H3 q C B**	0.097	0.0011	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-21	**0.012**	**J H H3 q C B**	0.097	0.0011	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-22	**0.0063**	**J H H3 B**	0.048	0.0011	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-23	ND	H H3	0.048	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-24	ND	H H3	0.048	0.00046	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-25	**0.0063**	**J H H3**	0.048	0.00097	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-26	**0.0051**	**J H H3 C**	0.097	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-27	ND	H H3	0.048	0.00048	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-28	**0.034**	**J H H3 q C20 B**	0.097	0.0011	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-29	**0.0051**	**J H H3 C2(**	0.097	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-30	**0.0091**	**J H H3 C1(B**	0.097	0.00046	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-31	**0.021**	**J H H3 q B**	0.097	0.0010	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-32	**0.0039**	**J H H3 B**	0.048	0.00042	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-33	**0.012**	**J H H3 q C21 B**	0.097	0.0011	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-34	ND	H H3	0.048	0.0013	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-35	ND	H H3	0.048	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-36	ND	H H3	0.048	0.0010	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-37	**0.0084**	**J H H3 q B**	0.048	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-38	ND	H H3	0.048	0.0011	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-39	**0.0036**	**J H H3 q**	0.048	0.0011	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-40	**0.015**	**J H H3 C**	0.14	0.0031	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-41	**0.015**	**J H H3 C4(**	0.14	0.0031	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-42	**0.0095**	**J H H3 q**	0.048	0.0033	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-43	ND	H H3 C	0.097	0.0026	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-44	**0.061**	**J H H3 C B**	0.14	0.0026	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-45	**0.0057**	**J H H3 C**	0.097	0.0033	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-46	ND	H H3	0.048	0.0039	ng/g		01/14/22 12:40	02/08/22 01:21	1

Client Sample ID: 21L0905-02

Date Collected: 08/24/20 14:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-2

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-47	0.061	J H H3 C44 B	0.14	0.0026	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-48	0.0067	J H H3 q	0.048	0.0032	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-49	0.049	J H H3 C	0.097	0.0026	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-50	0.0034	J H H3 q C	0.097	0.0029	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-51	0.0057	J H H3 C45	0.097	0.0033	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-52	0.11	H H3 B	0.048	0.0028	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-53	0.0034	J H H3 q C50	0.097	0.0029	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-54	ND	H H3	0.048	0.00040	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-55	ND	H H3	0.048	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-56	0.0080	J H H3 q	0.048	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-57	ND	H H3	0.048	0.0022	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-58	ND	H H3	0.048	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-59	0.0050	J H H3 q C	0.14	0.0023	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-60	0.023	J H H3	0.048	0.0024	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-61	0.17	J H H3 C B	0.19	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-62	0.0050	J H H3 q C59	0.14	0.0023	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-63	0.013	J H H3	0.048	0.0023	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-64	0.031	J H H3 B	0.048	0.0023	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-65	0.061	J H H3 C44 B	0.14	0.0026	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-66	0.12	H H3	0.048	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-67	ND	H H3	0.048	0.0018	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-68	0.0047	J H H3 q	0.048	0.0021	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-69	0.049	J H H3 C45	0.097	0.0026	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-70	0.17	J H H3 C61 B	0.19	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-71	0.015	J H H3 C40	0.14	0.0031	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-72	ND	H H3	0.048	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-73	ND	H H3 C43	0.097	0.0026	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-74	0.17	J H H3 C61 B	0.19	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-75	0.0050	J H H3 q C59	0.14	0.0023	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-76	0.17	J H H3 C61 B	0.19	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-77	0.015	J H H3	0.048	0.0023	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-78	ND	H H3	0.048	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-79	0.0025	J H H3	0.048	0.0017	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-80	ND	H H3	0.048	0.0021	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-81	ND	H H3	0.048	0.0025	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-82	0.019	J H H3	0.048	0.0014	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-83	0.37	H H3 C B	0.097	0.0014	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-84	0.039	J H H3	0.048	0.0018	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-85	0.11	J H H3 C	0.14	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-86	0.19	J H H3 C B	0.29	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-87	0.19	J H H3 C86 B	0.29	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-88	0.035	J H H3 C	0.097	0.0016	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-89	ND	H H3	0.048	0.0014	ng/g		01/14/22 12:40	02/08/22 01:21	1

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Date Collected: 08/24/20 14:00
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Lab Sample ID: 140-25783-2

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-90	0.44	H H3 C B	0.14	0.0013	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-91	0.035	J H H3 C8	0.097	0.0016	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-92	0.096	H H3	0.048	0.0016	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-93	0.0064	J H H3 C	0.097	0.0016	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-94	ND	H H3	0.048	0.0017	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-95	0.17	H H3 B	0.048	0.0015	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-96	ND	H H3	0.048	0.0010	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-97	0.19	J H H3 C86 B	0.29	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-98	0.0035	J H H3 q C	0.097	0.0013	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-99	0.37	H H3 C83 B	0.097	0.0014	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-100	0.0064	J H H3 C93	0.097	0.0016	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-101	0.44	H H3 C90 B	0.14	0.0013	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-102	0.0035	J H H3 q C98	0.097	0.0013	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-103	0.0040	J H H3 q	0.048	0.0014	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-104	ND	H H3	0.048	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-105	0.23	H H3 B	0.048	0.0033	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-106	ND	H H3	0.048	0.0029	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-107	0.086	H H3	0.048	0.0028	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-108	0.017	J H H3 C	0.097	0.0032	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-109	0.19	J H H3 C86 B	0.29	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-110	0.30	H H3 C B	0.097	0.00094	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-111	ND	H H3	0.048	0.0010	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-112	0.0033	J H H3 q	0.048	0.00091	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-113	0.44	H H3 C90 B	0.14	0.0013	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-114	0.027	J H H3	0.048	0.0031	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-115	0.30	H H3 C110 B	0.097	0.00094	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-116	0.11	J H H3 C85	0.14	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-117	0.11	J H H3 C85	0.14	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-118	0.84	H H3 B	0.048	0.0030	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-119	0.19	J H H3 C86 B	0.29	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-120	0.0078	J H H3 q	0.048	0.00085	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-121	ND	H H3	0.048	0.00096	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-122	ND	H H3	0.048	0.0038	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-123	0.013	J H H3	0.048	0.0035	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-124	0.017	J H H3 C108	0.097	0.0032	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-125	0.19	J H H3 C86 B	0.29	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-126	ND	H H3	0.048	0.0031	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-127	ND	H H3	0.048	0.0029	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-128	0.15	H H3 C B	0.097	0.0015	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-129	1.2	H H3 C B	0.19	0.0016	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-130	0.088	H H3	0.048	0.0022	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-131	ND	H H3	0.048	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-132	0.11	H H3 B	0.048	0.0019	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-133	0.028	J H H3	0.048	0.0017	ng/g		01/14/22 12:40	02/08/22 01:21	1

Client Sample ID: 21L0905-02

Date Collected: 08/24/20 14:00
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Lab Sample ID: 140-25783-2

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-134	0.029	J H H3 C	0.097	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-135	0.21	H H3 C B	0.097	0.00073	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-136	0.035	J H H3 B	0.048	0.00055	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-137	0.075	H H3	0.048	0.0019	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-138	1.2	H H3 C129 B	0.19	0.0016	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-139	0.016	J H H3 C	0.097	0.0017	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-140	0.016	J H H3 C139	0.097	0.0017	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-141	0.081	H H3 B	0.048	0.0018	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-142	ND	H H3	0.048	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-143	0.029	J H H3 C134	0.097	0.0020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-144	0.025	J H H3	0.048	0.00073	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-145	0.00079	J H H3	0.048	0.00049	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-146	0.29	H H3	0.048	0.0015	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-147	0.39	H H3 C B	0.097	0.0016	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-148	0.0022	J H H3 q	0.048	0.00071	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-149	0.39	H H3 C147 B	0.097	0.0016	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-150	0.0023	J H H3 B	0.048	0.00053	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-151	0.21	H H3 C135 B	0.097	0.00073	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-152	ND	H H3	0.048	0.00047	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-153	1.6	H H3 C B	0.097	0.0014	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-154	0.020	J H H3	0.048	0.00064	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-155	0.0050	J H H3	0.048	0.00057	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-156	0.17	H H3 C B	0.097	0.0017	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-157	0.17	H H3 C156 B	0.097	0.0017	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-158	0.080	H H3 B	0.048	0.0013	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-159	ND	H H3	0.048	0.0011	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-160	1.2	H H3 C129 B	0.19	0.0016	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-161	ND	H H3	0.048	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-162	0.0070	J H H3	0.048	0.0012	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-163	1.2	H H3 C129 B	0.19	0.0016	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-164	0.038	J H H3	0.048	0.0013	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-165	ND	H H3	0.048	0.0015	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-166	0.15	H H3 C128 B	0.097	0.0015	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-167	0.066	H H3 B	0.048	0.0010	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-168	1.6	H H3 C153 B	0.097	0.0014	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-169	ND	H H3	0.048	0.0011	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-170	0.16	H H3 B	0.048	0.00032	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-171	0.049	J H H3 C B	0.097	0.00030	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-172	0.027	J H H3	0.048	0.00030	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-173	0.049	J H H3 C171 B	0.097	0.00030	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-174	0.067	H H3 B	0.048	0.00027	ng/g		01/14/22 12:40	02/08/22 01:21	1

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L0905-02

Date Collected: 08/24/20 14:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-2

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-175	0.0089	J H H3 q B	0.048	0.00030	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-176	0.012	J H H3 q B	0.048	0.00022	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-177	0.11	H H3 B	0.048	0.00027	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-178	0.063	H H3 B	0.048	0.00030	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-179	0.043	J H H3 B	0.048	0.00019	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-180	0.60	H H3 C B	0.097	0.00024	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-181	0.0037	J H H3 q	0.048	0.00026	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-182	0.0046	J H H3 q	0.048	0.00025	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-183	0.14	H H3 C B	0.097	0.00029	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-184	0.0040	J H H3	0.048	0.00021	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-185	0.14	H H3 C183 B	0.097	0.00029	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-186	ND	H H3	0.048	0.00019	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-187	0.57	H H3 B	0.048	0.00024	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-188	0.0021	J H H3 q	0.048	0.00020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-189	0.013	J H H3	0.048	0.00090	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-190	0.038	J H H3 q	0.048	0.00023	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-191	0.0096	J H H3	0.048	0.00022	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-192	ND	H H3	0.048	0.00020	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-193	0.60	H H3 C180 B	0.097	0.00024	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-194	0.062	H H3	0.048	0.0010	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-195	0.039	J H H3 B	0.048	0.0011	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-196	0.039	J H H3 B	0.048	0.00080	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-197	0.0040	J H H3 q	0.048	0.00058	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-198	0.086	J H H3 C B	0.097	0.00071	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-199	0.086	J H H3 C198 B	0.097	0.00071	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-200	0.0046	J H H3 q	0.048	0.00060	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-201	0.019	J H H3	0.048	0.00063	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-202	0.030	J H H3	0.048	0.00059	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-203	0.042	J H H3	0.048	0.00063	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-204	ND	H H3	0.048	0.00055	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-205	0.0039	J H H3 q	0.048	0.00089	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-206	0.039	J H H3	0.048	0.0019	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-207	0.012	J H H3	0.048	0.0015	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-208	0.013	J H H3 q	0.048	0.0015	ng/g		01/14/22 12:40	02/08/22 01:21	1
PCB-209	0.029	J H H3 B	0.048	0.00031	ng/g		01/14/22 12:40	02/08/22 01:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*59*		*30 - 140*	*01/14/22 12:40*	*02/08/22 01:21*	*1*
PCB-3L	*59*		*30 - 140*	*01/14/22 12:40*	*02/08/22 01:21*	*1*
PCB-4L	*78*		*30 - 140*	*01/14/22 12:40*	*02/08/22 01:21*	*1*
PCB-15L	*87*		*30 - 140*	*01/14/22 12:40*	*02/08/22 01:21*	*1*
PCB-19L	*79*		*30 - 140*	*01/14/22 12:40*	*02/08/22 01:21*	*1*
PCB-37L	*89*		*30 - 140*	*01/14/22 12:40*	*02/08/22 01:21*	*1*
PCB-54L	*108*		*30 - 140*	*01/14/22 12:40*	*02/08/22 01:21*	*1*
PCB-77L	*89*		*30 - 140*	*01/14/22 12:40*	*02/08/22 01:21*	*1*
PCB-81L	*88*		*30 - 140*	*01/14/22 12:40*	*02/08/22 01:21*	*1*
PCB-104L	*84*		*30 - 140*	*01/14/22 12:40*	*02/08/22 01:21*	*1*
PCB-105L	*91*		*30 - 140*	*01/14/22 12:40*	*02/08/22 01:21*	*1*

Client Sample ID: 21L0905-02

Date Collected: 08/24/20 14:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-2

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-114L	89		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-118L	91		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-123L	89		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-126L	89		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-155L	98		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-156L	90	C	30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-157L	90	C156	30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-167L	90		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-169L	83		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-170L	90		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-188L	86		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-189L	113		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-202L	106		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-205L	86		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-206L	84		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-208L	103		30 - 140	01/14/22 12:40	02/08/22 01:21	1
PCB-209L	88		30 - 140	01/14/22 12:40	02/08/22 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	68		40 - 125	01/14/22 12:40	02/08/22 01:21	1
PCB-111L	97		40 - 125	01/14/22 12:40	02/08/22 01:21	1
PCB-178L	94		40 - 125	01/14/22 12:40	02/08/22 01:21	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L0907-01

Date Collected: 11/12/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-3

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.010	J H H3 B	0.050	0.00067	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-2	0.0045	J q H H3	0.050	0.00075	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-3	0.0066	J q H H3	0.050	0.00082	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-4	0.69	H H3 B	0.10	0.0017	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-5	0.0044	J H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-6	0.058	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-7	0.0042	J q H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-8	0.18	H H3 B	0.10	0.0012	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-9	0.0064	J H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-10	0.028	J H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-11	3.1	H H3 B	0.10	0.0013	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-12	0.071	J C H H3	0.10	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-13	0.071	J C12 H H3	0.10	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-14	ND	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-15	0.061	H H3 B	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-16	0.28	H H3 B	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-17	1.7	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-18	1.1	C H H3 B	0.10	0.00092	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-19	0.29	H H3 B	0.050	0.0012	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-20	0.41	C H H3 B	0.10	0.0037	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-21	0.29	C H H3 B	0.10	0.0037	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-22	0.30	H H3 B	0.050	0.0035	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-23	ND	H H3	0.050	0.0040	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-24	0.012	J H H3	0.050	0.00092	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-25	0.16	H H3	0.050	0.0032	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-26	0.20	C H H3	0.10	0.0039	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-27	0.70	H H3	0.050	0.00095	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-28	0.41	C20 H H3 B	0.10	0.0037	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-29	0.20	C26 H H3	0.10	0.0039	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-30	1.1	C18 H H3 B	0.10	0.00092	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-31	0.39	H H3 B	0.10	0.0033	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-32	0.33	H H3 B	0.050	0.00083	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-33	0.29	C21 H H3 B	0.10	0.0037	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-34	ND	H H3	0.050	0.0041	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-35	0.012	J q H H3 B	0.050	0.0038	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-36	ND	H H3	0.050	0.0033	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-37	0.21	H H3 B	0.050	0.0037	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-38	0.0054	J q H H3	0.050	0.0036	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-39	0.018	J q H H3	0.050	0.0037	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-40	2.1	C H H3	0.15	0.085	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-41	2.1	C40 H H3	0.15	0.085	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-42	1.7	G H H3	0.092	0.092	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-43	0.081	J C H H3	0.10	0.071	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-44	13	C H H3 B	0.15	0.073	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-45	0.41	C H H3	0.10	0.092	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-46	ND	G H H3	0.11	0.11	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-47	13	C44 H H3 B	0.15	0.073	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-48	0.76	G H H3	0.088	0.088	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-49	4.6	C H H3	0.10	0.073	ng/g		01/14/22 12:40	02/08/22 02:23	1

Client Sample ID: 21L0907-01

Date Collected: 11/12/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-3

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-50	1.8	C H H3	0.10	0.081	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-51	0.41	C45 H H3	0.10	0.092	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-52	16	G H H3 B	0.077	0.077	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-53	1.8	C50 H H3	0.10	0.081	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-54	0.0069	J H H3	0.050	0.00030	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-55	0.057	G q H H3	0.054	0.054	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-56	1.6	G H H3	0.056	0.056	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-57	ND	G H H3	0.060	0.060	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-58	ND	G H H3	0.054	0.054	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-59	0.15	C H H3	0.15	0.064	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-60	0.78	G H H3	0.067	0.067	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-61	14	C H H3 B	0.20	0.056	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-62	0.15	C59 H H3	0.15	0.064	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-63	0.20	G H H3	0.064	0.064	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-64	1.8	G H H3 B	0.062	0.062	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-65	13	C44 H H3 E	0.15	0.073	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-66	6.3	G H H3	0.055	0.055	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-67	0.063	G q H H3	0.051	0.051	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-68	ND	G H H3	0.059	0.059	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-69	4.6	C49 H H3	0.10	0.073	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-70	14	C61 H H3 E	0.20	0.056	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-71	2.1	C40 H H3	0.15	0.085	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-72	ND	G H H3	0.056	0.056	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-73	0.081	J C43 H H3	0.10	0.071	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-74	14	C61 H H3 E	0.20	0.056	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-75	0.15	C59 H H3	0.15	0.064	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-76	14	C61 H H3 E	0.20	0.056	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-77	0.15	G H H3	0.062	0.062	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-78	ND	G H H3	0.056	0.056	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-79	0.54	H H3	0.050	0.048	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-80	ND	G H H3	0.058	0.058	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-81	ND	G H H3	0.070	0.070	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-82	1.9	H H3	0.050	0.0017	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-83	29	C H H3 B	0.10	0.0016	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-84	4.0	H H3	0.050	0.0021	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-85	7.6	C H H3	0.15	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-86	29	C H H3 B	0.30	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-87	29	C86 H H3 E	0.30	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-88	4.3	C H H3	0.10	0.0018	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-89	0.12	H H3 B	0.050	0.0017	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-90	47	C H H3 B	0.15	0.0015	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-91	4.3	C88 H H3	0.10	0.0018	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-92	5.4	H H3	0.050	0.0018	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-93	0.30	C H H3	0.10	0.0018	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-94	0.057	H H3	0.050	0.0020	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-95	29	H H3 B	0.050	0.0018	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-96	0.046	J H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-97	29	C86 H H3 E	0.30	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-98	1.1	C H H3	0.10	0.0015	ng/g		01/14/22 12:40	02/08/22 02:23	1

Client Sample ID: 21L0907-01

Date Collected: 11/12/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-3

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-99	29	C83 H H3 B	0.10	0.0016	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-100	0.30	C93 H H3	0.10	0.0018	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-101	47	C90 H H3 B	0.15	0.0015	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-102	1.1	C98 H H3	0.10	0.0015	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-103	0.087	H H3	0.050	0.0017	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-104	ND	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-105	21	H H3 B	0.050	0.045	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-106	ND	H H3	0.050	0.040	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-107	2.7	H H3	0.050	0.039	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-108	1.8	C H H3	0.10	0.044	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-109	29	C86 H H3 B	0.30	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-110	35	C H H3 B	0.10	0.0011	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-111	ND	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-112	0.11	q H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-113	47	C90 H H3 B	0.15	0.0015	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-114	1.8	H H3	0.050	0.044	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-115	35	C110 H H3 B	0.10	0.0011	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-116	7.6	C85 H H3	0.15	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-117	7.6	C85 H H3	0.15	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-118	88	H H3 B	0.050	0.040	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-119	29	C86 H H3 B	0.30	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-120	ND	H H3	0.050	0.00098	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-121	ND	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-122	0.65	G H H3	0.053	0.053	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-123	1.6	H H3	0.050	0.047	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-124	1.8	C108 H H3	0.10	0.044	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-125	29	C86 H H3 B	0.30	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-126	ND	H H3	0.050	0.043	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-127	0.11	H H3	0.050	0.040	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-128	6.1	C H H3 B	0.10	0.0069	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-129	57	C H H3 B	0.20	0.0073	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-130	2.9	H H3	0.050	0.0099	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-131	0.51	H H3	0.050	0.0091	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-132	6.5	H H3 B	0.050	0.0085	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-133	0.39	H H3	0.050	0.0077	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-134	1.6	C H H3	0.10	0.0089	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-135	5.6	C H H3 B	0.10	0.00075	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-136	2.0	H H3 B	0.050	0.00056	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-137	3.2	H H3	0.050	0.0084	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-138	57	C129 H H3 B	0.20	0.0073	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-139	0.82	C H H3	0.10	0.0074	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-140	0.82	C139 H H3	0.10	0.0074	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-141	1.6	H H3 B	0.050	0.0081	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-142	ND	H H3	0.050	0.0088	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-143	1.6	C134 H H3	0.10	0.0089	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-144	1.1	H H3	0.050	0.00075	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-145	0.019	J H H3	0.050	0.00050	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-146	5.5	H H3	0.050	0.0066	ng/g		01/14/22 12:40	02/08/22 02:23	1

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Date Collected: 11/12/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-3

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-147	22	C H H3 B	0.10	0.0071	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-148	0.020	J H H3	0.050	0.00072	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-149	22	C147 H H3 B	0.10	0.0071	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-150	0.024	J H H3 B	0.050	0.00054	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-151	5.6	C135 H H3 B	0.10	0.00075	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-152	0.020	J H H3	0.050	0.00048	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-153	53	C H H3 B	0.10	0.0061	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-154	0.33	H H3	0.050	0.00066	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-155	0.0015	J H H3	0.050	0.00059	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-156	8.5	C H H3 B	0.10	0.0078	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-157	8.5	C156 H H3 B	0.10	0.0078	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-158	5.6	H H3 B	0.050	0.0058	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-159	0.013	J q H H3	0.050	0.0050	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-160	57	C129 H H3 B	0.20	0.0073	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-161	0.020	J q H H3	0.050	0.0055	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-162	0.16	H H3	0.050	0.0056	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-163	57	C129 H H3 B	0.20	0.0073	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-164	1.4	H H3	0.050	0.0058	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-165	0.0086	J H H3	0.050	0.0067	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-166	6.1	C128 H H3 B	0.10	0.0069	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-167	3.6	H H3 B	0.050	0.0046	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-168	53	C153 H H3 B	0.10	0.0061	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-169	0.018	J H H3	0.050	0.0048	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-170	1.0	H H3 B	0.050	0.00096	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-171	0.93	C H H3 B	0.10	0.00089	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-172	0.067	H H3	0.050	0.00087	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-173	0.93	C171 H H3 B	0.10	0.00089	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-174	0.37	H H3 B	0.050	0.00079	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-175	0.098	H H3 B	0.050	0.00088	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-176	0.27	H H3 B	0.050	0.00065	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-177	1.2	H H3 B	0.050	0.00080	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-178	0.38	H H3 B	0.050	0.00087	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-179	0.53	H H3 B	0.050	0.00056	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-180	3.2	C H H3 B	0.10	0.00070	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-181	0.091	H H3	0.050	0.00076	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-182	0.017	J q H H3	0.050	0.00072	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-183	1.7	C H H3 B	0.10	0.00083	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-184	0.0037	J H H3	0.050	0.00061	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-185	1.7	C183 H H3 B	0.10	0.00083	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-186	ND	H H3	0.050	0.00054	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-187	2.3	H H3 B	0.050	0.00070	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-188	0.0033	J q H H3	0.050	0.00058	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-189	0.063	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 02:23	1

Client Sample ID: 21L0907-01

Date Collected: 11/12/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-3

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-190	0.63	H H3	0.050	0.00067	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-191	0.11	H H3	0.050	0.00065	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-192	ND	H H3	0.050	0.00058	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-193	3.2	C180 H H3 B	0.10	0.00070	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-194	0.055	H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-195	0.13	H H3 B	0.050	0.0017	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-196	0.074	q H H3 B	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-197	0.023	J H H3	0.050	0.00097	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-198	0.12	C H H3 B	0.10	0.0012	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-199	0.12	C198 H H3 B	0.10	0.0012	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-200	0.018	J q H H3	0.050	0.0010	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-201	0.095	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-202	0.16	H H3	0.050	0.00099	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-203	0.29	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-204	ND	H H3	0.050	0.00092	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-205	0.020	J H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-206	0.078	H H3	0.050	0.0053	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-207	0.012	J q H H3	0.050	0.0043	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-208	0.022	J q H H3	0.050	0.0041	ng/g		01/14/22 12:40	02/08/22 02:23	1
PCB-209	0.019	J q H H3 B	0.050	0.00039	ng/g		01/14/22 12:40	02/08/22 02:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*59*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-3L	*58*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-4L	*79*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-15L	*86*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-19L	*84*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-37L	*87*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-54L	*114*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-77L	*86*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-81L	*87*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-104L	*83*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-105L	*90*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-114L	*87*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-118L	*90*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-123L	*88*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-126L	*88*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-155L	*93*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-156L	*87*	*C*	*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-157L	*87*	*C156*	*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-167L	*87*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-169L	*83*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-170L	*87*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-188L	*85*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-189L	*110*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-202L	*107*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-205L	*86*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-206L	*83*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*
PCB-208L	*100*		*30 - 140*	*01/14/22 12:40*	*02/08/22 02:23*	*1*

Client Sample ID: 21L0907-01

Date Collected: 11/12/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-3

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-209L	83		30 - 140	01/14/22 12:40	02/08/22 02:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	78		40 - 125	01/14/22 12:40	02/08/22 02:23	1
PCB-111L	97		40 - 125	01/14/22 12:40	02/08/22 02:23	1
PCB-178L	98		40 - 125	01/14/22 12:40	02/08/22 02:23	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L0907-02

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-4

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.090	H H3 B	0.050	0.0010	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-2	0.12	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-3	0.071	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-4	0.53	H H3 B	0.099	0.0018	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-5	0.0063	J H H3	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-6	0.075	H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-7	0.0086	J H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-8	0.035	J H H3 B	0.099	0.0012	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-9	0.0095	J H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-10	0.0087	J q H H3	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-11	2.9	H H3 B	0.099	0.0014	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-12	0.066	J C H H3	0.099	0.0015	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-13	0.066	J C12 H H3	0.099	0.0015	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-14	0.0029	J q H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-15	0.030	J H H3 B	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-16	0.25	H H3 B	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-17	1.6	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-18	1.7	C H H3 B	0.099	0.00098	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-19	0.099	H H3 B	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-20	0.16	q C H H3 B	0.099	0.0034	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-21	0.097	J C H H3 B	0.099	0.0034	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-22	0.25	H H3 B	0.050	0.0032	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-23	ND	H H3	0.050	0.0036	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-24	0.021	J q H H3	0.050	0.00098	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-25	0.15	H H3	0.050	0.0029	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-26	0.090	J C H H3	0.099	0.0036	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-27	1.8	H H3	0.050	0.0010	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-28	0.16	q C20 H H3 B	0.099	0.0034	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-29	0.090	J C26 H H3	0.099	0.0036	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-30	1.7	C18 H H3 B	0.099	0.00098	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-31	0.086	J H H3 B	0.099	0.0030	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-32	0.10	H H3 B	0.050	0.00088	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-33	0.097	J C21 H H3 B	0.099	0.0034	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-34	ND	H H3	0.050	0.0038	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-35	0.0094	J H H3 B	0.050	0.0035	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-36	0.0032	J H H3	0.050	0.0030	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-37	0.073	H H3 B	0.050	0.0034	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-38	0.014	J H H3	0.050	0.0033	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-39	ND	H H3	0.050	0.0034	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-40	1.6	C H H3	0.15	0.053	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-41	1.6	C40 H H3	0.15	0.053	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-42	3.2	G H H3	0.058	0.058	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-43	ND	C H H3	0.099	0.045	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-44	16	C H H3 B	0.15	0.046	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-45	0.29	C H H3	0.099	0.058	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-46	ND	G H H3	0.067	0.067	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-47	16	C44 H H3 B	0.15	0.046	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-48	0.47	G H H3	0.055	0.055	ng/g		01/14/22 12:40	02/08/22 03:26	1

Client Sample ID: 21L0907-02

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-4

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-49	1.9	C H H3	0.099	0.046	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-50	4.2	C H H3	0.099	0.051	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-51	0.29	C45 H H3	0.099	0.058	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-52	8.3	H H3 B	0.050	0.048	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-53	4.2	C50 H H3	0.099	0.051	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-54	0.0016	J q H H3	0.050	0.00049	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-55	ND	H H3	0.050	0.034	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-56	1.1	H H3	0.050	0.035	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-57	ND	H H3	0.050	0.038	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-58	ND	H H3	0.050	0.034	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-59	0.16	C H H3	0.15	0.040	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-60	0.32	H H3	0.050	0.042	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-61	6.0	C H H3 B	0.20	0.035	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-62	0.16	C59 H H3	0.15	0.040	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-63	0.089	H H3	0.050	0.040	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-64	0.65	H H3 B	0.050	0.039	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-65	16	C44 H H3 E	0.15	0.046	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-66	3.6	H H3	0.050	0.035	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-67	0.063	H H3	0.050	0.032	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-68	ND	H H3	0.050	0.037	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-69	1.9	C49 H H3	0.099	0.046	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-70	6.0	C61 H H3 E	0.20	0.035	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-71	1.6	C40 H H3	0.15	0.053	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-72	ND	H H3	0.050	0.035	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-73	ND	C43 H H3	0.099	0.045	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-74	6.0	C61 H H3 E	0.20	0.035	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-75	0.16	C59 H H3	0.15	0.040	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-76	6.0	C61 H H3 E	0.20	0.035	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-77	0.10	H H3	0.050	0.039	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-78	ND	H H3	0.050	0.035	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-79	0.68	H H3	0.050	0.030	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-80	ND	H H3	0.050	0.036	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-81	ND	H H3	0.050	0.044	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-82	0.69	H H3	0.050	0.0022	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-83	22	C H H3 B	0.099	0.0022	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-84	1.5	H H3	0.050	0.0028	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-85	4.6	C H H3	0.15	0.0019	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-86	25	C H H3 B	0.30	0.0019	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-87	25	C86 H H3 E	0.30	0.0019	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-88	2.4	C H H3	0.099	0.0024	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-89	0.044	J H H3 B	0.050	0.0023	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-90	34	C H H3 B	0.15	0.0020	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-91	2.4	C88 H H3	0.099	0.0024	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-92	3.1	H H3	0.050	0.0025	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-93	0.21	q C H H3	0.099	0.0025	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-94	0.023	J H H3	0.050	0.0027	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-95	28	H H3 B	0.050	0.0024	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-96	0.015	J H H3	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-97	25	C86 H H3 E	0.30	0.0019	ng/g		01/14/22 12:40	02/08/22 03:26	1

Client Sample ID: 21L0907-02

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-4

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-98	0.91	C H H3	0.099	0.0021	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-99	22	C83 H H3 E	0.099	0.0022	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-100	0.21	q C93 H H3	0.099	0.0025	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-101	34	C90 H H3 E	0.15	0.0020	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-102	0.91	C98 H H3	0.099	0.0021	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-103	0.042	J H H3	0.050	0.0023	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-104	ND	H H3	0.050	0.0019	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-105	14	H H3 B	0.050	0.043	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-106	ND	H H3	0.050	0.039	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-107	1.8	H H3	0.050	0.038	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-108	1.3	C H H3	0.099	0.042	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-109	25	C86 H H3 E	0.30	0.0019	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-110	22	C H H3 B	0.099	0.0015	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-111	ND	H H3	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-112	0.16	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-113	34	C90 H H3 E	0.15	0.0020	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-114	1.4	H H3	0.050	0.042	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-115	22	C110 H H3 B	0.099	0.0015	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-116	4.6	C85 H H3	0.15	0.0019	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-117	4.6	C85 H H3	0.15	0.0019	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-118	90	H H3 B	0.050	0.041	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-119	25	C86 H H3 E	0.30	0.0019	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-120	0.024	J q H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-121	ND	H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-122	0.40	G H H3	0.051	0.051	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-123	1.7	H H3	0.050	0.046	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-124	1.3	C108 H H3	0.099	0.042	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-125	25	C86 H H3 E	0.30	0.0019	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-126	ND	H H3	0.050	0.040	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-127	0.042	J q H H3	0.050	0.039	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-128	4.0	C H H3 B	0.099	0.0058	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-129	53	C H H3 B	0.20	0.0062	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-130	2.0	H H3	0.050	0.0084	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-131	0.34	H H3	0.050	0.0077	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-132	3.5	H H3 B	0.050	0.0072	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-133	0.22	q H H3	0.050	0.0065	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-134	1.0	C H H3	0.099	0.0076	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-135	3.9	C H H3 B	0.099	0.0017	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-136	1.1	H H3 B	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-137	2.4	H H3	0.050	0.0071	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-138	53	C129 H H3 B	0.20	0.0062	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-139	0.62	C H H3	0.099	0.0063	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-140	0.62	C139 H H3	0.099	0.0063	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-141	0.95	H H3 B	0.050	0.0068	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-142	0.024	J H H3	0.050	0.0074	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-143	1.0	C134 H H3	0.099	0.0076	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-144	0.69	H H3	0.050	0.0017	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-145	0.0098	J H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 03:26	1

Client Sample ID: 21L0907-02

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-4

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-146	5.1	H H3	0.050	0.0056	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-147	19	C H H3 B	0.099	0.0060	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-148	0.018	J H H3	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-149	19	C147 H H3 B	0.099	0.0060	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-150	0.016	J H H3 B	0.050	0.0012	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-151	3.9	C135 H H3 B	0.099	0.0017	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-152	0.0098	J H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-153	64	C H H3 B	0.099	0.0052	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-154	0.26	H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-155	ND	H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-156	7.2	C H H3 B	0.099	0.0063	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-157	7.2	C156 H H3 B	0.099	0.0063	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-158	4.6	H H3 B	0.050	0.0049	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-159	ND	H H3	0.050	0.0043	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-160	53	C129 H H3 B	0.20	0.0062	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-161	0.021	J q H H3	0.050	0.0047	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-162	0.089	H H3	0.050	0.0047	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-163	53	C129 H H3 B	0.20	0.0062	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-164	0.74	H H3	0.050	0.0049	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-165	ND	H H3	0.050	0.0057	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-166	4.0	C128 H H3 B	0.099	0.0058	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-167	4.3	H H3 B	0.050	0.0039	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-168	64	C153 H H3 B	0.099	0.0052	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-169	0.023	J H H3	0.050	0.0043	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-170	0.47	H H3 B	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-171	0.80	C H H3 B	0.099	0.0011	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-172	0.037	J H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-173	0.80	C171 H H3 B	0.099	0.0011	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-174	0.25	H H3 B	0.050	0.00098	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-175	0.088	H H3 B	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-176	0.25	H H3 B	0.050	0.00081	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-177	1.1	H H3 B	0.050	0.00098	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-178	0.45	H H3 B	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-179	0.56	H H3 B	0.050	0.00069	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-180	4.6	C H H3 B	0.099	0.00087	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-181	0.082	H H3	0.050	0.00094	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-182	0.014	J q H H3	0.050	0.00089	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-183	2.2	C H H3 B	0.099	0.0010	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-184	0.0037	J q H H3	0.050	0.00075	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-185	2.2	C183 H H3 B	0.099	0.0010	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-186	ND	H H3	0.050	0.00066	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-187	3.4	H H3 B	0.050	0.00087	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-188	0.0044	J H H3	0.050	0.00074	ng/g		01/14/22 12:40	02/08/22 03:26	1

Client Sample ID: 21L0907-02

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-4

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-189	0.031	J H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-190	0.72	H H3	0.050	0.00083	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-191	0.096	H H3	0.050	0.00080	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-192	ND	H H3	0.050	0.00072	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-193	4.6	C180 H H3 B	0.099	0.00087	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-194	0.10	H H3	0.050	0.0022	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-195	0.25	H H3 B	0.050	0.0025	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-196	0.18	H H3 B	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-197	0.049	J H H3	0.050	0.0010	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-198	0.25	C H H3 B	0.099	0.0012	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-199	0.25	C198 H H3 B	0.099	0.0012	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-200	0.038	J H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-201	0.22	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-202	0.35	H H3	0.050	0.0010	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-203	0.94	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-204	ND	H H3	0.050	0.00097	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-205	0.049	J H H3	0.050	0.0019	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-206	0.20	H H3	0.050	0.0053	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-207	0.046	J H H3	0.050	0.0043	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-208	0.045	J H H3	0.050	0.0041	ng/g		01/14/22 12:40	02/08/22 03:26	1
PCB-209	0.024	J H H3 B	0.050	0.00019	ng/g		01/14/22 12:40	02/08/22 03:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*58*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-3L	*57*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-4L	*80*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-15L	*84*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-19L	*80*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-37L	*89*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-54L	*111*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-77L	*89*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-81L	*89*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-104L	*87*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-105L	*92*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-114L	*89*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-118L	*90*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-123L	*90*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-126L	*91*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-155L	*97*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-156L	*91*	*C*	*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-157L	*91*	*C156*	*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-167L	*90*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-169L	*82*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-170L	*90*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-188L	*87*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-189L	*112*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-202L	*111*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-205L	*88*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*
PCB-206L	*86*		*30 - 140*	*01/14/22 12:40*	*02/08/22 03:26*	*1*

Client Sample ID: 21L0907-02

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-4

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-208L	102		30 - 140	01/14/22 12:40	02/08/22 03:26	1
PCB-209L	84		30 - 140	01/14/22 12:40	02/08/22 03:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	77		40 - 125	01/14/22 12:40	02/08/22 03:26	1
PCB-111L	98		40 - 125	01/14/22 12:40	02/08/22 03:26	1
PCB-178L	100		40 - 125	01/14/22 12:40	02/08/22 03:26	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L0908-01

Date Collected: 11/10/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-5

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.018	J H H3 B	0.050	0.0022	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-2	ND	H H3	0.050	0.0024	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-3	0.0090	J q H H3	0.050	0.0026	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-4	0.58	H H3 B	0.099	0.0072	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-5	ND	H H3	0.050	0.0065	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-6	0.058	H H3	0.050	0.0052	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-7	ND	H H3	0.050	0.0061	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-8	0.11	H H3 B	0.099	0.0049	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-9	ND	H H3	0.050	0.0056	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-10	0.015	J q H H3	0.050	0.0064	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-11	4.0	H H3 B	0.099	0.0056	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-12	0.095	J C H H3	0.099	0.0060	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-13	0.095	J C12 H H3	0.099	0.0060	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-14	ND	H H3	0.050	0.0061	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-15	0.067	H H3 B	0.050	0.0060	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-16	0.57	H H3 B	0.050	0.0050	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-17	1.4	H H3	0.050	0.0051	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-18	1.5	C H H3 B	0.099	0.0035	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-19	0.21	H H3 B	0.050	0.0047	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-20	0.44	C H H3 B	0.099	0.0075	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-21	0.24	C H H3 B	0.099	0.0076	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-22	0.48	H H3 B	0.050	0.0071	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-23	ND	H H3	0.050	0.0081	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-24	0.012	J q H H3	0.050	0.0035	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-25	0.11	H H3	0.050	0.0064	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-26	0.12	C H H3	0.099	0.0080	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-27	0.57	H H3	0.050	0.0036	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-28	0.44	C20 H H3 B	0.099	0.0075	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-29	0.12	C26 H H3	0.099	0.0080	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-30	1.5	C18 H H3 B	0.099	0.0035	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-31	0.27	H H3 B	0.099	0.0068	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-32	0.23	H H3 B	0.050	0.0032	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-33	0.24	C21 H H3 B	0.099	0.0076	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-34	ND	H H3	0.050	0.0084	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-35	0.013	J H H3 B	0.050	0.0078	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-36	ND	H H3	0.050	0.0067	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-37	0.14	H H3 B	0.050	0.0076	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-38	0.0089	J H H3	0.050	0.0073	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-39	0.013	J q H H3	0.050	0.0075	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-40	1.4	C H H3	0.15	0.070	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-41	1.4	C40 H H3	0.15	0.070	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-42	1.4	G H H3	0.075	0.075	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-43	0.12	q C H H3	0.099	0.058	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-44	9.5	C H H3 B	0.15	0.060	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-45	0.34	C H H3	0.099	0.075	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-46	ND	G H H3	0.088	0.088	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-47	9.5	C44 H H3 B	0.15	0.060	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-48	0.62	G H H3	0.072	0.072	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-49	2.3	C H H3	0.099	0.060	ng/g		01/14/22 12:40	02/08/22 04:28	1

Client Sample ID: 21L0908-01

Date Collected: 11/10/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-5

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-50	1.3	C H H3	0.099	0.067	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-51	0.34	C45 H H3	0.099	0.075	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-52	8.8	G H H3 B	0.063	0.063	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-53	1.3	C50 H H3	0.099	0.067	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-54	0.0067	J q H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-55	0.047	J q H H3	0.050	0.045	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-56	0.98	H H3	0.050	0.046	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-57	ND	H H3	0.050	0.049	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-58	ND	H H3	0.050	0.045	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-59	0.14	J C H H3	0.15	0.052	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-60	0.40	G q H H3	0.055	0.055	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-61	7.5	C H H3 B	0.20	0.046	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-62	0.14	J C59 H H3	0.15	0.052	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-63	0.098	G H H3	0.052	0.052	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-64	0.98	G H H3 B	0.051	0.051	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-65	9.5	C44 H H3 B	0.15	0.060	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-66	3.4	H H3	0.050	0.045	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-67	0.043	J q H H3	0.050	0.042	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-68	ND	H H3	0.050	0.049	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-69	2.3	C49 H H3	0.099	0.060	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-70	7.5	C61 H H3 B	0.20	0.046	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-71	1.4	C40 H H3	0.15	0.070	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-72	ND	H H3	0.050	0.046	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-73	0.12	q C43 H H3	0.099	0.058	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-74	7.5	C61 H H3 B	0.20	0.046	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-75	0.14	J C59 H H3	0.15	0.052	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-76	7.5	C61 H H3 B	0.20	0.046	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-77	0.10	H H3	0.050	0.050	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-78	ND	H H3	0.050	0.046	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-79	0.36	H H3	0.050	0.039	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-80	ND	H H3	0.050	0.047	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-81	ND	G H H3	0.058	0.058	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-82	1.0	H H3	0.050	0.0070	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-83	16	C H H3 B	0.099	0.0068	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-84	2.2	H H3	0.050	0.0087	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-85	4.0	C H H3	0.15	0.0061	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-86	18	C H H3 B	0.30	0.0058	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-87	18	C86 H H3 B	0.30	0.0058	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-88	2.3	C H H3	0.099	0.0076	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-89	0.051	q H H3 B	0.050	0.0071	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-90	27	C H H3 B	0.15	0.0064	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-91	2.3	C88 H H3	0.099	0.0076	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-92	2.8	H H3	0.050	0.0078	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-93	0.27	C H H3	0.099	0.0078	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-94	0.045	J q H H3	0.050	0.0086	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-95	19	H H3 B	0.050	0.0076	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-96	0.030	J q H H3	0.050	0.0051	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-97	18	C86 H H3 B	0.30	0.0058	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-98	0.71	C H H3	0.099	0.0065	ng/g		01/14/22 12:40	02/08/22 04:28	1

Client Sample ID: 21L0908-01

Date Collected: 11/10/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-5

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-99	16	C83 H H3 B	0.099	0.0068	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-100	0.27	C93 H H3	0.099	0.0078	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-101	27	C90 H H3 B	0.15	0.0064	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-102	0.71	C98 H H3	0.099	0.0065	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-103	0.047	J q H H3	0.050	0.0071	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-104	ND	H H3	0.050	0.0058	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-105	11	G H H3 B	0.065	0.065	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-106	ND	G H H3	0.057	0.057	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-107	1.4	G H H3	0.055	0.055	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-108	0.96	C H H3	0.099	0.062	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-109	18	C86 H H3 B	0.30	0.0058	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-110	20	C H H3 B	0.099	0.0046	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-111	ND	H H3	0.050	0.0050	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-112	0.11	q H H3	0.050	0.0045	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-113	27	C90 H H3 B	0.15	0.0064	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-114	1.0	G H H3	0.061	0.061	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-115	20	C110 H H3 B	0.099	0.0046	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-116	4.0	C85 H H3	0.15	0.0061	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-117	4.0	C85 H H3	0.15	0.0061	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-118	55	G H H3 B	0.061	0.061	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-119	18	C86 H H3 B	0.30	0.0058	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-120	ND	H H3	0.050	0.0042	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-121	ND	H H3	0.050	0.0047	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-122	0.39	G q H H3	0.075	0.075	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-123	1.1	G H H3	0.065	0.065	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-124	0.96	C108 H H3	0.099	0.062	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-125	18	C86 H H3 B	0.30	0.0058	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-126	ND	G H H3	0.060	0.060	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-127	ND	G H H3	0.057	0.057	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-128	2.8	C H H3 B	0.099	0.0081	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-129	33	C H H3 B	0.20	0.0086	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-130	1.4	H H3	0.050	0.012	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-131	0.26	H H3	0.050	0.011	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-132	3.1	H H3 B	0.050	0.010	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-133	0.19	H H3	0.050	0.0091	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-134	0.78	C H H3	0.099	0.011	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-135	2.8	C H H3 B	0.099	0.0054	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-136	0.98	H H3 B	0.050	0.0041	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-137	1.8	H H3	0.050	0.0098	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-138	33	C129 H H3 B	0.20	0.0086	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-139	0.42	C H H3	0.099	0.0087	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-140	0.42	C139 H H3	0.099	0.0087	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-141	0.76	q H H3 B	0.050	0.0095	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-142	0.012	J q H H3	0.050	0.010	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-143	0.78	C134 H H3	0.099	0.011	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-144	0.54	H H3	0.050	0.0054	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-145	ND	H H3	0.050	0.0036	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-146	3.0	H H3	0.050	0.0078	ng/g		01/14/22 12:40	02/08/22 04:28	1

Client Sample ID: 21L0908-01

Date Collected: 11/10/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-5

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-147	12	C H H3 B	0.099	0.0083	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-148	0.010	J q H H3	0.050	0.0053	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-149	12	C147 H H3 B	0.099	0.0083	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-150	0.0095	J q H H3 B	0.050	0.0039	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-151	2.8	C135 H H3 B	0.099	0.0054	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-152	0.013	J H H3	0.050	0.0035	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-153	37	C H H3 B	0.099	0.0072	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-154	0.18	H H3	0.050	0.0048	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-155	ND	H H3	0.050	0.0043	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-156	4.9	C H H3 B	0.099	0.0090	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-157	4.9	C156 H H3 B	0.099	0.0090	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-158	2.9	H H3 B	0.050	0.0068	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-159	ND	H H3	0.050	0.0059	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-160	33	C129 H H3 B	0.20	0.0086	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-161	0.015	J q H H3	0.050	0.0065	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-162	0.062	H H3	0.050	0.0066	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-163	33	C129 H H3 B	0.20	0.0086	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-164	0.63	H H3	0.050	0.0068	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-165	ND	H H3	0.050	0.0079	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-166	2.8	C128 H H3 B	0.099	0.0081	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-167	2.6	H H3 B	0.050	0.0054	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-168	37	C153 H H3 B	0.099	0.0072	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-169	ND	H H3	0.050	0.0057	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-170	0.44	H H3 B	0.050	0.0049	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-171	0.47	C H H3 B	0.099	0.0048	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-172	0.035	J H H3	0.050	0.0047	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-173	0.47	C171 H H3 B	0.099	0.0048	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-174	0.19	H H3 B	0.050	0.0043	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-175	0.053	H H3 B	0.050	0.0047	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-176	0.14	H H3 B	0.050	0.0035	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-177	0.59	H H3 B	0.050	0.0043	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-178	0.22	H H3 B	0.050	0.0047	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-179	0.29	H H3 B	0.050	0.0030	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-180	2.1	C H H3 B	0.099	0.0038	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-181	0.044	J H H3	0.050	0.0041	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-182	0.012	J q H H3	0.050	0.0039	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-183	0.99	C H H3 B	0.099	0.0045	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-184	ND	H H3	0.050	0.0033	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-185	0.99	C183 H H3 B	0.099	0.0045	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-186	ND	H H3	0.050	0.0029	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-187	1.4	H H3 B	0.050	0.0038	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-188	ND	H H3	0.050	0.0032	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-189	0.031	J H H3	0.050	0.0026	ng/g		01/14/22 12:40	02/08/22 04:28	1

Client Sample ID: 21L0908-01

Date Collected: 11/10/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-5

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-190	**0.40**	**H H3**	0.050	0.0036	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-191	**0.059**	**H H3**	0.050	0.0035	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-192	ND	H H3	0.050	0.0031	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-193	**2.1**	**C180 H H3 B**	0.099	0.0038	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-194	**0.035**	**J H H3**	0.050	0.0019	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-195	**0.085**	**H H3 B**	0.050	0.0021	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-196	**0.058**	**H H3 B**	0.050	0.0032	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-197	**0.015**	**J q H H3**	0.050	0.0023	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-198	**0.063**	**J C H H3 B**	0.099	0.0028	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-199	**0.063**	**J C198 H H3 B**	0.099	0.0028	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-200	**0.010**	**J q H H3**	0.050	0.0024	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-201	**0.064**	**H H3**	0.050	0.0025	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-202	**0.10**	**H H3**	0.050	0.0023	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-203	**0.22**	**H H3**	0.050	0.0025	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-204	ND	H H3	0.050	0.0022	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-205	**0.013**	**J H H3**	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-206	**0.076**	**H H3**	0.050	0.016	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-207	ND	H H3	0.050	0.014	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-208	ND	H H3	0.050	0.014	ng/g		01/14/22 12:40	02/08/22 04:28	1
PCB-209	**0.018**	**J q H H3 B**	0.050	0.0012	ng/g		01/14/22 12:40	02/08/22 04:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*15*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-3L	*15*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-4L	*20*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-15L	*21*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-19L	*20*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-37L	*22*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-54L	*27*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-77L	*23*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-81L	*22*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-104L	*21*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-105L	*22*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-114L	*22*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-118L	*22*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-123L	*22*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-126L	*22*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-155L	*24*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-156L	*22*	*C *5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-157L	*22*	*C156 *5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-167L	*22*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-169L	*22*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-170L	*24*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-188L	*22*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-189L	*25*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-202L	*28*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-205L	*22*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-206L	*21*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*
PCB-208L	*23*	**5-*	*30 - 140*	*01/14/22 12:40*	*02/08/22 04:28*	*1*

Client Sample ID: 21L0908-01

Date Collected: 11/10/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-5

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-209L	19	*5-	30 - 140	01/14/22 12:40	02/08/22 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	23	S1-	40 - 125	01/14/22 12:40	02/08/22 04:28	1
PCB-111L	25	S1-	40 - 125	01/14/22 12:40	02/08/22 04:28	1
PCB-178L	25	S1-	40 - 125	01/14/22 12:40	02/08/22 04:28	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L0908-02

Date Collected: 11/10/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-6

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.0079	J H H3 B	0.050	0.00089	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-2	ND	H H3	0.050	0.0010	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-3	ND	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-4	0.40	H H3 B	0.10	0.0022	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-5	0.0024	J q H H3	0.050	0.0020	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-6	0.034	J H H3	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-7	ND	H H3	0.050	0.0019	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-8	0.094	J H H3 B	0.10	0.0015	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-9	0.0046	J H H3	0.050	0.0017	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-10	0.014	J q H H3	0.050	0.0020	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-11	4.7	H H3 B	0.10	0.0017	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-12	0.074	J q C H H3	0.10	0.0018	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-13	0.074	J q C12 H H3	0.10	0.0018	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-14	ND	H H3	0.050	0.0019	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-15	0.046	J q H H3 B	0.050	0.0018	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-16	0.19	H H3 B	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-17	0.94	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-18	0.70	C H H3 B	0.10	0.00093	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-19	0.22	H H3 B	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-20	0.35	C H H3 B	0.10	0.0033	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-21	0.17	C H H3 B	0.10	0.0034	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-22	0.29	H H3 B	0.050	0.0032	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-23	ND	H H3	0.050	0.0036	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-24	0.0097	J H H3	0.050	0.00094	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-25	0.10	H H3	0.050	0.0029	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-26	0.15	C H H3	0.10	0.0036	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-27	0.45	H H3	0.050	0.00096	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-28	0.35	C20 H H3 B	0.10	0.0033	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-29	0.15	C26 H H3	0.10	0.0036	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-30	0.70	C18 H H3 B	0.10	0.00093	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-31	0.32	H H3 B	0.10	0.0030	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-32	0.22	H H3 B	0.050	0.00084	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-33	0.17	C21 H H3 B	0.10	0.0034	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-34	ND	H H3	0.050	0.0037	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-35	0.015	J H H3 B	0.050	0.0035	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-36	ND	H H3	0.050	0.0030	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-37	0.18	H H3 B	0.050	0.0034	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-38	0.0059	J q H H3	0.050	0.0033	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-39	0.012	J H H3	0.050	0.0033	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-40	1.2	C H H3	0.15	0.025	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-41	1.2	C40 H H3	0.15	0.025	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-42	0.95	H H3	0.050	0.027	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-43	0.066	J C H H3	0.10	0.021	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-44	6.4	C H H3 B	0.15	0.022	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-45	0.30	C H H3	0.10	0.027	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-46	0.034	J H H3	0.050	0.032	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-47	6.4	C44 H H3 B	0.15	0.022	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-48	0.46	H H3	0.050	0.026	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-49	2.2	C H H3	0.10	0.021	ng/g		01/14/22 12:40	02/08/22 05:30	1

Client Sample ID: 21L0908-02

Date Collected: 11/10/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-6

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-50	1.0	C H H3	0.10	0.024	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-51	0.30	C45 H H3	0.10	0.027	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-52	7.5	H H3 B	0.050	0.023	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-53	1.0	C50 H H3	0.10	0.024	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-54	0.0047	J q H H3	0.050	0.00050	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-55	0.049	J q H H3	0.050	0.016	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-56	0.86	H H3	0.050	0.017	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-57	ND	H H3	0.050	0.018	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-58	ND	H H3	0.050	0.016	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-59	0.13	J C H H3	0.15	0.019	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-60	0.47	H H3	0.050	0.020	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-61	7.4	C H H3 B	0.20	0.016	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-62	0.13	J C59 H H3	0.15	0.019	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-63	0.12	H H3	0.050	0.019	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-64	0.96	H H3 B	0.050	0.018	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-65	6.4	C44 H H3 B	0.15	0.022	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-66	3.3	H H3	0.050	0.016	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-67	0.045	J H H3	0.050	0.015	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-68	0.018	J q H H3	0.050	0.018	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-69	2.2	C49 H H3	0.10	0.021	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-70	7.4	C61 H H3 B	0.20	0.016	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-71	1.2	C40 H H3	0.15	0.025	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-72	ND	H H3	0.050	0.017	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-73	0.066	J C43 H H3	0.10	0.021	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-74	7.4	C61 H H3 B	0.20	0.016	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-75	0.13	J C59 H H3	0.15	0.019	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-76	7.4	C61 H H3 B	0.20	0.016	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-77	0.11	H H3	0.050	0.019	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-78	ND	H H3	0.050	0.017	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-79	0.25	H H3	0.050	0.014	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-80	ND	H H3	0.050	0.017	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-81	ND	H H3	0.050	0.020	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-82	0.87	H H3	0.050	0.0024	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-83	14	C H H3 B	0.10	0.0024	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-84	2.0	H H3	0.050	0.0030	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-85	3.6	C H H3	0.15	0.0021	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-86	14	C H H3 B	0.30	0.0020	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-87	14	C86 H H3 B	0.30	0.0020	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-88	2.0	C H H3	0.10	0.0027	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-89	0.059	H H3 B	0.050	0.0025	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-90	22	C H H3 B	0.15	0.0022	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-91	2.0	C88 H H3	0.10	0.0027	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-92	2.6	H H3	0.050	0.0027	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-93	0.18	C H H3	0.10	0.0027	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-94	0.028	J q H H3	0.050	0.0030	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-95	15	H H3 B	0.050	0.0027	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-96	0.024	J H H3	0.050	0.0018	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-97	14	C86 H H3 B	0.30	0.0020	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-98	0.59	C H H3	0.10	0.0023	ng/g		01/14/22 12:40	02/08/22 05:30	1

Client Sample ID: 21L0908-02

Date Collected: 11/10/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-6

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-99	14	C83 H H3 B	0.10	0.0024	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-100	0.18	C93 H H3	0.10	0.0027	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-101	22	C90 H H3 B	0.15	0.0022	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-102	0.59	C98 H H3	0.10	0.0023	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-103	0.046	J H H3	0.050	0.0025	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-104	ND	H H3	0.050	0.0020	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-105	10	G H H3 B	0.059	0.059	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-106	ND	G H H3	0.052	0.052	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-107	1.4	G H H3	0.051	0.051	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-108	0.86	C H H3	0.10	0.057	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-109	14	C86 H H3 B	0.30	0.0020	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-110	17	C H H3 B	0.10	0.0016	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-111	ND	H H3	0.050	0.0017	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-112	0.065	q H H3	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-113	22	C90 H H3 B	0.15	0.0022	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-114	0.93	G H H3	0.057	0.057	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-115	17	C110 H H3 B	0.10	0.0016	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-116	3.6	C85 H H3	0.15	0.0021	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-117	3.6	C85 H H3	0.15	0.0021	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-118	43	G H H3 B	0.055	0.055	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-119	14	C86 H H3 B	0.30	0.0020	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-120	0.037	J H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-121	ND	H H3	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-122	0.31	G H H3	0.069	0.069	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-123	0.92	G H H3	0.062	0.062	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-124	0.86	C108 H H3	0.10	0.057	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-125	14	C86 H H3 B	0.30	0.0020	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-126	ND	G H H3	0.054	0.054	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-127	ND	G H H3	0.053	0.053	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-128	3.0	C H H3 B	0.10	0.0046	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-129	29	C H H3 B	0.20	0.0049	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-130	1.4	H H3	0.050	0.0067	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-131	0.25	H H3	0.050	0.0061	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-132	3.0	H H3 B	0.050	0.0058	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-133	0.19	H H3	0.050	0.0052	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-134	0.75	C H H3	0.10	0.0061	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-135	2.8	C H H3 B	0.10	0.0012	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-136	0.96	H H3 B	0.050	0.00089	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-137	1.6	H H3	0.050	0.0057	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-138	29	C129 H H3 B	0.20	0.0049	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-139	0.40	C H H3	0.10	0.0050	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-140	0.40	C139 H H3	0.10	0.0050	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-141	0.79	H H3 B	0.050	0.0055	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-142	ND	H H3	0.050	0.0060	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-143	0.75	C134 H H3	0.10	0.0061	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-144	0.53	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-145	0.0090	J q H H3	0.050	0.00080	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-146	2.8	H H3	0.050	0.0045	ng/g		01/14/22 12:40	02/08/22 05:30	1

Client Sample ID: 21L0908-02

Date Collected: 11/10/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-6

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-147	12	C H H3 B	0.10	0.0048	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-148	0.011	J H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-149	12	C147 H H3 B	0.10	0.0048	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-150	0.013	J H H3 B	0.050	0.00087	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-151	2.8	C135 H H3 B	0.10	0.0012	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-152	0.0099	J H H3	0.050	0.00076	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-153	29	C H H3 B	0.10	0.0042	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-154	0.16	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-155	0.0019	J q H H3	0.050	0.00094	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-156	4.4	C H H3 B	0.10	0.0051	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-157	4.4	C156 H H3 B	0.10	0.0051	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-158	2.6	H H3 B	0.050	0.0039	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-159	ND	H H3	0.050	0.0034	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-160	29	C129 H H3 B	0.20	0.0049	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-161	0.013	J q H H3	0.050	0.0038	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-162	0.070	H H3	0.050	0.0038	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-163	29	C129 H H3 B	0.20	0.0049	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-164	0.67	H H3	0.050	0.0039	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-165	ND	H H3	0.050	0.0046	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-166	3.0	C128 H H3 B	0.10	0.0046	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-167	1.9	H H3 B	0.050	0.0032	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-168	29	C153 H H3 B	0.10	0.0042	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-169	ND	H H3	0.050	0.0033	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-170	0.51	H H3 B	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-171	0.47	C H H3 B	0.10	0.0010	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-172	0.037	J H H3	0.050	0.0010	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-173	0.47	C171 H H3 B	0.10	0.0010	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-174	0.20	H H3 B	0.050	0.00094	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-175	0.056	H H3 B	0.050	0.0010	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-176	0.14	H H3 B	0.050	0.00078	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-177	0.62	H H3 B	0.050	0.00095	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-178	0.22	H H3 B	0.050	0.0010	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-179	0.28	H H3 B	0.050	0.00066	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-180	1.9	C H H3 B	0.10	0.00083	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-181	0.046	J H H3	0.050	0.00091	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-182	0.011	J H H3	0.050	0.00085	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-183	0.95	C H H3 B	0.10	0.00099	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-184	0.0019	J q H H3	0.050	0.00072	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-185	0.95	C183 H H3 B	0.10	0.00099	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-186	ND	H H3	0.050	0.00064	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-187	1.4	H H3 B	0.050	0.00083	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-188	0.0015	J H H3	0.050	0.00071	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-189	0.032	J H H3	0.050	0.0017	ng/g		01/14/22 12:40	02/08/22 05:30	1

Client Sample ID: 21L0908-02

Date Collected: 11/10/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-6

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-190	0.35	H H3	0.050	0.00080	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-191	0.062	H H3	0.050	0.00077	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-192	ND	H H3	0.050	0.00069	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-193	1.9	C180 H H3 B	0.10	0.00083	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-194	0.031	J H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-195	0.078	H H3 B	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-196	0.044	J H H3 B	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-197	0.011	J H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-198	0.068	J C H H3 B	0.10	0.0013	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-199	0.068	J C198 H H3 B	0.10	0.0013	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-200	0.013	J H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-201	0.053	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-202	0.090	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-203	0.17	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-204	ND	H H3	0.050	0.0010	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-205	0.0082	J q H H3	0.050	0.0010	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-206	0.045	J q H H3	0.050	0.0036	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-207	ND	H H3	0.050	0.0029	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-208	0.020	J H H3	0.050	0.0027	ng/g		01/14/22 12:40	02/08/22 05:30	1
PCB-209	0.020	J H H3 B	0.050	0.00056	ng/g		01/14/22 12:40	02/08/22 05:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*58*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-3L	*53*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-4L	*78*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-15L	*82*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-19L	*79*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-37L	*85*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-54L	*108*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-77L	*86*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-81L	*87*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-104L	*83*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-105L	*87*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-114L	*85*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-118L	*87*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-123L	*85*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-126L	*87*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-155L	*93*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-156L	*87*	*C*	*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-157L	*87*	*C156*	*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-167L	*86*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-169L	*80*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-170L	*89*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-188L	*84*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-189L	*109*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-202L	*108*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-205L	*88*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-206L	*82*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*
PCB-208L	*102*		*30 - 140*	*01/14/22 12:40*	*02/08/22 05:30*	*1*

Client Sample ID: 21L0908-02

Date Collected: 11/10/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-6

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-209L	83		30 - 140	01/14/22 12:40	02/08/22 05:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	78		40 - 125	01/14/22 12:40	02/08/22 05:30	1
PCB-111L	97		40 - 125	01/14/22 12:40	02/08/22 05:30	1
PCB-178L	99		40 - 125	01/14/22 12:40	02/08/22 05:30	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L1001-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-7

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND	H H3	0.050	0.00036	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-2	ND	H H3	0.050	0.00041	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-3	ND	H H3	0.050	0.00045	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-4	ND	H H3	0.099	0.0010	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-5	ND	H H3	0.050	0.00093	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-6	ND	H H3	0.050	0.00075	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-7	ND	H H3	0.050	0.00088	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-8	ND	H H3	0.099	0.00071	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-9	ND	H H3	0.050	0.00081	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-10	ND	H H3	0.050	0.00093	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-11	**0.024**	**J H H3 B**	0.099	0.00080	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-12	ND	H H3 C	0.099	0.00087	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-13	ND	H H3 C12	0.099	0.00087	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-14	ND	H H3	0.050	0.00088	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-15	**0.012**	**J H H3 B**	0.050	0.00088	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-16	ND	H H3	0.050	0.00048	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-17	ND	H H3	0.050	0.00049	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-18	**0.0021**	**J H H3 C B**	0.099	0.00033	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-19	ND	H H3	0.050	0.00045	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-20	**0.097**	**J q H H3 C B**	0.099	0.0016	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-21	ND	H H3 C	0.099	0.0016	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-22	ND	H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-23	ND	H H3	0.050	0.0017	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-24	ND	H H3	0.050	0.00033	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-25	ND	H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-26	ND	H H3 C	0.099	0.0017	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-27	ND	H H3	0.050	0.00034	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-28	**0.097**	**J q H H3 C20 B**	0.099	0.0016	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-29	ND	H H3 C26	0.099	0.0017	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-30	**0.0021**	**J H H3 C18 B**	0.099	0.00033	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-31	ND	H H3	0.099	0.0014	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-32	**0.0012**	**J q H H3 B**	0.050	0.00030	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-33	ND	H H3 C21	0.099	0.0016	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-34	ND	H H3	0.050	0.0017	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-35	ND	H H3	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-36	ND	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-37	**0.078**	**H H3 B**	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-38	ND	H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-39	ND	H H3	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-40	ND	H H3 C	0.15	0.0031	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-41	ND	H H3 C40	0.15	0.0031	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-42	ND	H H3	0.050	0.0034	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-43	ND	H H3 C	0.099	0.0026	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-44	**0.050**	**J H H3 C B**	0.15	0.0027	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-45	ND	H H3 C	0.099	0.0034	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-46	ND	H H3	0.050	0.0039	ng/g		01/14/22 12:40	02/08/22 13:11	5

Client Sample ID: 21L1001-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-7

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-47	**0.050**	**J H H3 C4 B**	0.15	0.0027	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-48	ND	H H3	0.050	0.0032	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-49	**0.018**	**J H H3 C**	0.099	0.0027	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-50	ND	H H3 C	0.099	0.0030	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-51	ND	H H3 C45	0.099	0.0034	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-52	**0.20**	**H H3 B**	0.050	0.0028	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-53	ND	H H3 C50	0.099	0.0030	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-54	ND	H H3	0.050	0.00048	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-55	ND	H H3	0.050	0.0020	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-56	**0.0067**	**J q H H3**	0.050	0.0021	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-57	ND	H H3	0.050	0.0022	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-58	ND	H H3	0.050	0.0020	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-59	ND	H H3 C	0.15	0.0024	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-60	**0.045**	**J q H H3**	0.050	0.0025	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-61	**2.2**	**H H3 C B**	0.20	0.0021	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-62	ND	H H3 C59	0.15	0.0024	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-63	**0.26**	**H H3**	0.050	0.0023	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-64	ND	H H3	0.050	0.0023	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-65	**0.050**	**J H H3 C4 B**	0.15	0.0027	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-66	**2.3**	**H H3**	0.050	0.0020	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-67	ND	H H3	0.050	0.0019	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-68	**0.037**	**J H H3**	0.050	0.0022	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-69	**0.018**	**J H H3 C4**	0.099	0.0027	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-70	**2.2**	**H H3 C61**	0.20	0.0021	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-71	ND	H H3 C40	0.15	0.0031	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-72	**0.025**	**J H H3**	0.050	0.0021	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-73	ND	H H3 C43	0.099	0.0026	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-74	**2.2**	**H H3 C61**	0.20	0.0021	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-75	ND	H H3 C59	0.15	0.0024	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-76	**2.2**	**H H3 C61**	0.20	0.0021	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-77	**0.094**	**H H3**	0.050	0.0023	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-78	ND	H H3	0.050	0.0021	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-79	**0.014**	**J H H3**	0.050	0.0018	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-80	ND	H H3	0.050	0.0021	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-81	ND	H H3	0.050	0.0026	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-82	**0.0097**	**J q H H3**	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-83	**4.1**	**H H3 C B**	0.099	0.0015	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-84	**0.013**	**J H H3**	0.050	0.0019	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-85	**1.7**	**H H3 C**	0.15	0.0013	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-86	**0.41**	**H H3 C B**	0.30	0.0013	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-87	**0.41**	**H H3 C86**	0.30	0.0013	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-88	**0.0090**	**J q H H3 C**	0.099	0.0017	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-89	ND	H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-90	**1.7**	**H H3 C B**	0.15	0.0014	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-91	**0.0090**	**J q H H3 C88**	0.099	0.0017	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-92	**0.12**	**H H3**	0.050	0.0017	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-93	ND	H H3 C	0.099	0.0017	ng/g		01/14/22 12:40	02/08/22 13:11	5

Client Sample ID: 21L1001-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-7

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-94	ND	H H3	0.050	0.0018	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-95	**0.32**	**H H3 B**	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-96	ND	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-97	**0.41**	**H H3 C86 E**	0.30	0.0013	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-98	ND	H H3 C	0.099	0.0014	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-99	**4.1**	**H H3 C83 E**	0.099	0.0015	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-100	ND	H H3 C93	0.099	0.0017	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-101	**1.7**	**H H3 C90 E**	0.15	0.0014	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-102	ND	H H3 C98	0.099	0.0014	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-103	**0.0084**	**J H H3**	0.050	0.0015	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-104	ND	H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-105	**4.3**	**H H3 B**	0.050	0.048	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-106	ND	H H3	0.050	0.044	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-107	**3.1**	**H H3**	0.050	0.042	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-108	**0.41**	**H H3 C**	0.099	0.048	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-109	**0.41**	**H H3 C86 E**	0.30	0.0013	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-110	**0.068**	**J H H3 C B**	0.099	0.0010	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-111	ND	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-112	**0.013**	**J q H H3**	0.050	0.00096	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-113	**1.7**	**H H3 C90 E**	0.15	0.0014	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-114	**2.0**	**H H3**	0.050	0.049	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-115	**0.068**	**J H H3 C110 B**	0.099	0.0010	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-116	**1.7**	**H H3 C85**	0.15	0.0013	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-117	**1.7**	**H H3 C85**	0.15	0.0013	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-118	**44**	**H H3 B**	0.050	0.045	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-119	**0.41**	**H H3 C86 E**	0.30	0.0013	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-120	**0.021**	**J H H3**	0.050	0.00090	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-121	ND	H H3	0.050	0.0010	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-122	ND	G H H3	0.058	0.058	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-123	**1.2**	**G H H3**	0.051	0.051	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-124	**0.41**	**H H3 C108**	0.099	0.048	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-125	**0.41**	**H H3 C86 E**	0.30	0.0013	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-126	ND	H H3	0.050	0.046	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-127	ND	H H3	0.050	0.044	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-128	**0.47**	**H H3 C B**	0.099	0.0034	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-129	**14**	**H H3 C B**	0.20	0.0036	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-130	**1.1**	**H H3**	0.050	0.0049	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-131	ND	H H3	0.050	0.0044	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-132	ND	H H3	0.050	0.0042	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-133	**0.19**	**H H3**	0.050	0.0038	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-134	ND	H H3 C	0.099	0.0044	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-135	**0.11**	**H H3 C B**	0.099	0.00061	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-136	**0.069**	**H H3 B**	0.050	0.00046	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-137	**4.3**	**H H3**	0.050	0.0041	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-138	**14**	**H H3 C129 B**	0.20	0.0036	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-139	**0.071**	**J H H3 C**	0.099	0.0036	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-140	**0.071**	**J H H3 C139**	0.099	0.0036	ng/g		01/14/22 12:40	02/08/22 13:11	5

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Lab Sample ID: 140-25783-7

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-141	**0.36**	**q H H3 B**	0.050	0.0040	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-142	ND	H H3	0.050	0.0043	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-143	ND	H H3 C134	0.099	0.0044	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-144	**0.083**	**H H3**	0.050	0.00062	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-145	ND	H H3	0.050	0.00041	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-146	**4.8**	**H H3**	0.050	0.0033	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-147	**0.98**	**H H3 C B**	0.099	0.0035	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-148	**0.0015**	**J H H3**	0.050	0.00060	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-149	**0.98**	**H H3 C147 B**	0.099	0.0035	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-150	ND	H H3	0.050	0.00045	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-151	**0.11**	**H H3 C135 B**	0.099	0.00061	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-152	ND	H H3	0.050	0.00039	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-153	**15**	**H H3 C B**	0.099	0.0030	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-154	**0.011**	**J H H3**	0.050	0.00054	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-155	ND	H H3	0.050	0.00048	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-156	**8.8**	**H H3 C B**	0.099	0.0038	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-157	**8.8**	**H H3 C156 B**	0.099	0.0038	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-158	**0.23**	**H H3 B**	0.050	0.0028	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-159	ND	H H3	0.050	0.0025	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-160	**14**	**H H3 C129 B**	0.20	0.0036	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-161	ND	H H3	0.050	0.0027	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-162	**0.22**	**H H3**	0.050	0.0027	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-163	**14**	**H H3 C129 B**	0.20	0.0036	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-164	**0.21**	**H H3**	0.050	0.0028	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-165	ND	H H3	0.050	0.0033	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-166	**0.47**	**H H3 C128 B**	0.099	0.0034	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-167	**3.0**	**H H3 B**	0.050	0.0022	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-168	**15**	**H H3 C153 B**	0.099	0.0030	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-169	ND	H H3	0.050	0.0024	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-170	**1.1**	**H H3 B**	0.050	0.00070	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-171	**0.086**	**J H H3 C B**	0.099	0.00069	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-172	**0.15**	**H H3**	0.050	0.00067	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-173	**0.086**	**J H H3 C171 B**	0.099	0.00069	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-174	**0.15**	**H H3 B**	0.050	0.00062	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-175	**0.036**	**J H H3 B**	0.050	0.00068	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-176	ND	H H3	0.050	0.00051	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-177	**0.43**	**H H3 B**	0.050	0.00062	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-178	**0.065**	**H H3 B**	0.050	0.00067	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-179	ND	H H3	0.050	0.00043	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-180	**5.0**	**H H3 C B**	0.099	0.00054	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-181	**0.088**	**H H3**	0.050	0.00059	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-182	ND	H H3	0.050	0.00056	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-183	**0.38**	**H H3 C B**	0.099	0.00065	ng/g		01/14/22 12:40	02/08/22 13:11	5

Client Sample ID: 21L1001-01

Date Collected: 09/09/20 12:00
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Lab Sample ID: 140-25783-7

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-184	ND	H H3	0.050	0.00047	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-185	**0.38**	**H H3 C183 B**	0.099	0.00065	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-186	ND	H H3	0.050	0.00042	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-187	**2.1**	**H H3 B**	0.050	0.00055	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-188	ND	H H3	0.050	0.00047	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-189	**0.22**	**H H3**	0.050	0.0013	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-190	**0.35**	**H H3**	0.050	0.00052	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-191	**0.11**	**H H3**	0.050	0.00050	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-192	ND	H H3	0.050	0.00045	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-193	**5.0**	**H H3 C180 B**	0.099	0.00054	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-194	**0.15**	**H H3**	0.050	0.0014	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-195	**0.061**	**H H3 B**	0.050	0.0016	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-196	**0.097**	**H H3 B**	0.050	0.00082	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-197	**0.0042**	**J H H3**	0.050	0.00059	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-198	**0.14**	**H H3 C B**	0.099	0.00073	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-199	**0.14**	**H H3 C198 B**	0.099	0.00073	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-200	**0.0040**	**J H H3**	0.050	0.00062	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-201	**0.028**	**J H H3**	0.050	0.00065	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-202	**0.0086**	**J H H3**	0.050	0.00060	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-203	**0.068**	**H H3**	0.050	0.00065	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-204	ND	H H3	0.050	0.00056	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-205	**0.0056**	**J q H H3**	0.050	0.0012	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-206	**0.018**	**J q H H3**	0.050	0.0035	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-207	**0.010**	**J H H3**	0.050	0.0028	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-208	**0.015**	**J H H3**	0.050	0.0027	ng/g		01/14/22 12:40	02/08/22 13:11	5
PCB-209	**0.022**	**J q H H3 B**	0.050	0.00014	ng/g		01/14/22 12:40	02/08/22 13:11	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*55*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-3L	*54*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-4L	*75*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-15L	*77*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-19L	*71*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-37L	*79*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-54L	*101*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-77L	*81*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-81L	*80*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-104L	*78*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-105L	*83*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-114L	*83*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-118L	*82*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-123L	*84*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-126L	*83*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-155L	*88*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-156L	*81*	*C*	*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-157L	*81*	*C156*	*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-167L	*82*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*
PCB-169L	*78*		*30 - 140*	*01/14/22 12:40*	*02/08/22 13:11*	*5*

Client Sample ID: 21L1001-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-7

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-170L	86		30 - 140	01/14/22 12:40	02/08/22 13:11	5
PCB-188L	78		30 - 140	01/14/22 12:40	02/08/22 13:11	5
PCB-189L	94		30 - 140	01/14/22 12:40	02/08/22 13:11	5
PCB-202L	98		30 - 140	01/14/22 12:40	02/08/22 13:11	5
PCB-205L	79		30 - 140	01/14/22 12:40	02/08/22 13:11	5
PCB-206L	73		30 - 140	01/14/22 12:40	02/08/22 13:11	5
PCB-208L	86		30 - 140	01/14/22 12:40	02/08/22 13:11	5
PCB-209L	70		30 - 140	01/14/22 12:40	02/08/22 13:11	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	83		40 - 125	01/14/22 12:40	02/08/22 13:11	5
PCB-111L	93		40 - 125	01/14/22 12:40	02/08/22 13:11	5
PCB-178L	93		40 - 125	01/14/22 12:40	02/08/22 13:11	5

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L1001-02

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-8

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**0.0014**	**J H H3 q B**	0.050	0.00041	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-2	ND	H H3	0.050	0.00046	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-3	ND	H H3	0.050	0.00052	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-4	ND	H H3	0.10	0.0010	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-5	ND	H H3	0.050	0.00094	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-6	ND	H H3	0.050	0.00075	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-7	ND	H H3	0.050	0.00088	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-8	ND	H H3	0.10	0.00071	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-9	ND	H H3	0.050	0.00082	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-10	ND	H H3	0.050	0.00093	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-11	**0.032**	**J H H3 B**	0.10	0.00081	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-12	ND	H H3 C	0.10	0.00088	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-13	ND	H H3 C12	0.10	0.00088	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-14	ND	H H3	0.050	0.00088	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-15	**0.0074**	**J H H3 B**	0.050	0.00087	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-16	**0.00099**	**J H H3 q B**	0.050	0.00037	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-17	**0.00075**	**J H H3 q**	0.050	0.00038	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-18	**0.0027**	**J H H3 q C B**	0.10	0.00026	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-19	**0.00078**	**J H H3 q B**	0.050	0.00035	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-20	**0.097**	**J H H3 q C B**	0.10	0.0013	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-21	ND	H H3 C	0.10	0.0013	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-22	ND	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-23	ND	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-24	ND	H H3	0.050	0.00026	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-25	**0.0045**	**J H H3**	0.050	0.0011	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-26	**0.0053**	**J H H3 C**	0.10	0.0013	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-27	ND	H H3	0.050	0.00027	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-28	**0.097**	**J H H3 q C20 B**	0.10	0.0013	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-29	**0.0053**	**J H H3 C26**	0.10	0.0013	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-30	**0.0027**	**J H H3 q C18 B**	0.10	0.00026	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-31	**0.010**	**J H H3 B**	0.10	0.0011	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-32	**0.0015**	**J H H3 q B**	0.050	0.00023	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-33	ND	H H3 C21	0.10	0.0013	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-34	ND	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-35	ND	H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-36	ND	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-37	**0.048**	**J H H3 B**	0.050	0.0013	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-38	ND	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-39	**0.0017**	**J H H3 q**	0.050	0.0013	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-40	ND	H H3 C	0.15	0.0027	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-41	ND	H H3 C40	0.15	0.0027	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-42	**0.014**	**J H H3**	0.050	0.0029	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-43	ND	H H3 C	0.10	0.0022	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-44	**0.26**	**H H3 C B**	0.15	0.0023	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-45	ND	H H3 C	0.10	0.0029	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-46	ND	H H3	0.050	0.0034	ng/g		01/14/22 12:40	02/09/22 06:12	5

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L1001-02
Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-8
Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-47	**0.26**	**H H3 C44 E**	0.15	0.0023	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-48	ND	H H3	0.050	0.0028	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-49	**0.28**	**H H3 C**	0.10	0.0023	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-50	ND	H H3 C	0.10	0.0026	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-51	ND	H H3 C45	0.10	0.0029	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-52	**0.50**	**H H3 B**	0.050	0.0024	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-53	ND	H H3 C50	0.10	0.0026	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-54	ND	H H3	0.050	0.00018	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-55	**0.024**	**J H H3**	0.050	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-56	**0.065**	**H H3**	0.050	0.0018	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-57	ND	H H3	0.050	0.0019	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-58	ND	H H3	0.050	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-59	**0.0033**	**J H H3 q C**	0.15	0.0020	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-60	**0.35**	**H H3**	0.050	0.0021	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-61	**4.1**	**H H3 C B**	0.20	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-62	**0.0033**	**J H H3 q C59**	0.15	0.0020	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-63	**0.14**	**H H3**	0.050	0.0020	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-64	**0.015**	**J H H3 B**	0.050	0.0020	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-65	**0.26**	**H H3 C44 E**	0.15	0.0023	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-66	**2.6**	**H H3**	0.050	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-67	**0.0032**	**J H H3 q**	0.050	0.0016	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-68	**0.012**	**J H H3**	0.050	0.0019	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-69	**0.28**	**H H3 C49**	0.10	0.0023	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-70	**4.1**	**H H3 C61 E**	0.20	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-71	ND	H H3 C40	0.15	0.0027	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-72	**0.0072**	**J H H3**	0.050	0.0018	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-73	ND	H H3 C43	0.10	0.0022	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-74	**4.1**	**H H3 C61 E**	0.20	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-75	**0.0033**	**J H H3 q C59**	0.15	0.0020	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-76	**4.1**	**H H3 C61 E**	0.20	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-77	**0.085**	**H H3**	0.050	0.0020	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-78	ND	H H3	0.050	0.0018	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-79	**0.082**	**H H3**	0.050	0.0015	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-80	ND	H H3	0.050	0.0018	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-81	**0.0064**	**J H H3**	0.050	0.0022	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-82	**0.15**	**H H3**	0.050	0.0020	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-83	**10**	**H H3 C B**	0.10	0.0020	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-84	**0.018**	**J H H3 q**	0.050	0.0025	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-85	**2.5**	**H H3 C**	0.15	0.0018	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-86	**3.4**	**H H3 C B**	0.30	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-87	**3.4**	**H H3 C86 E**	0.30	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-88	**0.088**	**J H H3 C**	0.10	0.0022	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-89	ND	H H3	0.050	0.0021	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-90	**3.3**	**H H3 C B**	0.15	0.0019	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-91	**0.088**	**J H H3 C8**	0.10	0.0022	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-92	**0.48**	**H H3**	0.050	0.0023	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-93	**0.016**	**J H H3 C**	0.10	0.0023	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-94	ND	H H3	0.050	0.0025	ng/g		01/14/22 12:40	02/09/22 06:12	5

Client Sample ID: 21L1001-02

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-8

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-95	1.1	H H3 B	0.050	0.0022	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-96	ND	H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-97	3.4	H H3 C86 E	0.30	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-98	ND	H H3 C	0.10	0.0019	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-99	10	H H3 C83 E	0.10	0.0020	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-100	0.016	J H H3 C93	0.10	0.0023	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-101	3.3	H H3 C90 E	0.15	0.0019	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-102	ND	H H3 C98	0.10	0.0019	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-103	0.022	J H H3	0.050	0.0021	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-104	ND	H H3	0.050	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-105	10	H H3 B	0.050	0.041	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-106	ND	H H3	0.050	0.039	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-107	2.3	H H3	0.050	0.038	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-108	0.68	H H3 C	0.10	0.043	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-109	3.4	H H3 C86 E	0.30	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-110	0.74	H H3 C B	0.10	0.0013	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-111	ND	H H3	0.050	0.0015	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-112	0.036	J H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-113	3.3	H H3 C90 E	0.15	0.0019	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-114	1.4	H H3	0.050	0.045	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-115	0.74	H H3 C110 B	0.10	0.0013	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-116	2.5	H H3 C85	0.15	0.0018	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-117	2.5	H H3 C85	0.15	0.0018	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-118	34	H H3 B	0.050	0.039	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-119	3.4	H H3 C86 E	0.30	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-120	0.017	J H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-121	ND	H H3	0.050	0.0014	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-122	0.33	H H3 G	0.051	0.051	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-123	0.88	H H3	0.050	0.047	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-124	0.68	H H3 C108	0.10	0.043	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-125	3.4	H H3 C86 E	0.30	0.0017	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-126	ND	H H3	0.050	0.043	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-127	0.096	H H3	0.050	0.039	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-128	1.6	H H3 C B	0.10	0.0035	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-129	18	H H3 C B	0.20	0.0037	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-130	1.4	H H3	0.050	0.0051	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-131	0.069	H H3	0.050	0.0046	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-132	0.18	H H3 B	0.050	0.0044	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-133	0.24	H H3	0.050	0.0040	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-134	0.52	H H3 C	0.10	0.0046	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-135	0.76	H H3 C B	0.10	0.00048	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-136	0.035	J H H3 B	0.050	0.00036	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-137	3.2	H H3	0.050	0.0043	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-138	18	H H3 C129 B	0.20	0.0037	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-139	0.19	H H3 C	0.10	0.0038	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-140	0.19	H H3 C139	0.10	0.0038	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-141	0.57	H H3 B	0.050	0.0041	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-142	ND	H H3	0.050	0.0045	ng/g		01/14/22 12:40	02/09/22 06:12	5

Client Sample ID: 21L1001-02

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-8

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-143	0.52	H H3 C134	0.10	0.0046	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-144	0.26	H H3	0.050	0.00048	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-145	ND	H H3	0.050	0.00032	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-146	3.4	H H3	0.050	0.0034	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-147	2.6	H H3 C B	0.10	0.0036	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-148	0.0034	J H H3	0.050	0.00047	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-149	2.6	H H3 C147 B	0.10	0.0036	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-150	0.0051	J H H3 B	0.050	0.00035	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-151	0.76	H H3 C135 B	0.10	0.00048	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-152	ND	H H3	0.050	0.00031	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-153	19	H H3 C B	0.10	0.0031	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-154	0.041	J H H3 q	0.050	0.00043	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-155	ND	H H3	0.050	0.00038	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-156	7.0	H H3 C B	0.10	0.0040	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-157	7.0	H H3 C156 B	0.10	0.0040	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-158	1.5	H H3 B	0.050	0.0030	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-159	0.013	J H H3	0.050	0.0026	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-160	18	H H3 C129 B	0.20	0.0037	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-161	0.019	J H H3	0.050	0.0028	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-162	0.15	H H3	0.050	0.0029	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-163	18	H H3 C129 B	0.20	0.0037	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-164	0.81	H H3	0.050	0.0030	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-165	0.0041	J H H3 q	0.050	0.0034	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-166	1.6	H H3 C128 B	0.10	0.0035	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-167	2.0	H H3 B	0.050	0.0025	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-168	19	H H3 C153 B	0.10	0.0031	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-169	ND	H H3	0.050	0.0024	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-170	1.8	H H3 B	0.050	0.000056	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-171	0.17	H H3 C B	0.10	0.000053	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-172	0.17	H H3	0.050	0.000052	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-173	0.17	H H3 C171 B	0.10	0.000053	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-174	0.40	H H3 B	0.050	0.000047	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-175	0.045	J H H3 B	0.050	0.000052	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-176	0.027	J H H3 B	0.050	0.000039	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-177	0.52	H H3 B	0.050	0.000048	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-178	0.19	H H3 B	0.050	0.000052	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-179	0.013	J H H3 B	0.050	0.000033	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-180	4.4	H H3 C B	0.10	0.000042	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-181	0.071	H H3	0.050	0.000046	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-182	0.014	J H H3 q	0.050	0.000043	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-183	0.68	H H3 C B	0.10	0.000050	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-184	0.00081	J H H3 q	0.050	0.000036	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-185	0.68	H H3 C183 B	0.10	0.000050	ng/g		01/14/22 12:40	02/09/22 06:12	5

Client Sample ID: 21L1001-02

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-8

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-186	0.00043	J H H3 q B	0.050	0.000032	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-187	1.8	H H3 B	0.050	0.000042	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-188	0.0025	J H H3	0.050	0.000035	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-189	0.16	H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-190	0.24	H H3	0.050	0.000040	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-191	0.10	H H3	0.050	0.000039	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-192	ND	H H3	0.050	0.000035	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-193	4.4	H H3 C180 B	0.10	0.000042	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-194	0.23	H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-195	0.091	H H3 B	0.050	0.0015	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-196	0.15	H H3 B	0.050	0.0012	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-197	0.0091	J H H3	0.050	0.00083	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-198	0.30	H H3 C B	0.10	0.0010	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-199	0.30	H H3 C198 B	0.10	0.0010	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-200	0.0086	J H H3	0.050	0.00087	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-201	0.047	J H H3	0.050	0.00091	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-202	0.055	H H3	0.050	0.00085	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-203	0.045	J H H3	0.050	0.00091	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-204	ND	H H3	0.050	0.00079	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-205	0.0061	J H H3	0.050	0.0012	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-206	0.027	J H H3	0.050	0.0044	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-207	0.015	J H H3	0.050	0.0035	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-208	0.024	J H H3	0.050	0.0033	ng/g		01/14/22 12:40	02/09/22 06:12	5
PCB-209	0.014	J H H3 B	0.050	0.00014	ng/g		01/14/22 12:40	02/09/22 06:12	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*55*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-3L	*53*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-4L	*76*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-15L	*81*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-19L	*79*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-37L	*81*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-54L	*112*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-77L	*85*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-81L	*84*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-104L	*81*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-105L	*88*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-114L	*80*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-118L	*85*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-123L	*83*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-126L	*83*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-155L	*88*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-156L	*84*	*C*	*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-157L	*84*	*C156*	*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-167L	*83*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-169L	*85*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-170L	*82*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-188L	*80*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*
PCB-189L	*97*		*30 - 140*	*01/14/22 12:40*	*02/09/22 06:12*	*5*

Client Sample ID: 21L1001-02

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-8

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-202L	100		30 - 140	01/14/22 12:40	02/09/22 06:12	5
PCB-205L	81		30 - 140	01/14/22 12:40	02/09/22 06:12	5
PCB-206L	77		30 - 140	01/14/22 12:40	02/09/22 06:12	5
PCB-208L	91		30 - 140	01/14/22 12:40	02/09/22 06:12	5
PCB-209L	78		30 - 140	01/14/22 12:40	02/09/22 06:12	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	81		40 - 125	01/14/22 12:40	02/09/22 06:12	5
PCB-111L	95		40 - 125	01/14/22 12:40	02/09/22 06:12	5
PCB-178L	94		40 - 125	01/14/22 12:40	02/09/22 06:12	5

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L0909-01

Date Collected: 11/16/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-9

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.0035	J H H3 B	0.026	0.00049	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-2	0.0031	J q H H3	0.026	0.00051	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-3	0.0029	J q H H3	0.026	0.00052	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-4	0.014	J H H3 B	0.053	0.0011	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-5	ND	H H3	0.026	0.00094	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-6	ND	H H3	0.026	0.00076	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-7	ND	H H3	0.026	0.00089	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-8	0.011	J H H3 B	0.053	0.00072	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-9	ND	H H3	0.026	0.00082	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-10	ND	H H3	0.026	0.00094	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-11	4.3	H H3 B	0.053	0.00081	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-12	ND	C H H3	0.053	0.00088	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-13	ND	C12 H H3	0.053	0.00088	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-14	ND	H H3	0.026	0.00089	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-15	ND	H H3	0.026	0.00084	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-16	0.029	q H H3 B	0.026	0.00060	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-17	0.035	H H3	0.026	0.00062	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-18	0.064	C H H3 B	0.053	0.00042	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-19	0.0050	J H H3 B	0.026	0.00057	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-20	0.030	J q C H H3 B	0.053	0.00082	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-21	0.020	J q C H H3 B	0.053	0.00083	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-22	0.028	H H3 B	0.026	0.00078	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-23	ND	H H3	0.026	0.00089	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-24	0.00068	J q H H3	0.026	0.00042	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-25	0.0037	J H H3	0.026	0.00070	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-26	0.0082	J C H H3	0.053	0.00088	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-27	0.010	J H H3	0.026	0.00043	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-28	0.030	J q C20 H H3 B	0.053	0.00082	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-29	0.0082	J C26 H H3	0.053	0.00088	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-30	0.064	C18 H H3 B	0.053	0.00042	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-31	0.022	J q H H3 B	0.053	0.00074	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-32	0.0051	J H H3 B	0.026	0.00038	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-33	0.020	J q C21 H H3 B	0.053	0.00083	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-34	ND	H H3	0.026	0.00092	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-35	0.0066	J H H3 B	0.026	0.00085	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-36	0.0024	J q H H3	0.026	0.00074	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-37	0.014	J q H H3 B	0.026	0.00084	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-38	0.0046	J H H3	0.026	0.00080	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-39	ND	H H3	0.026	0.00082	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-40	0.035	J C H H3	0.079	0.0021	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-41	0.035	J C40 H H3	0.079	0.0021	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-42	0.046	H H3	0.026	0.0023	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-43	ND	C H H3	0.053	0.0017	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-44	0.20	C H H3 B	0.079	0.0018	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-45	0.0082	J q C H H3	0.053	0.0023	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-46	ND	H H3	0.026	0.0026	ng/g		01/14/22 12:40	02/08/22 15:16	1

Client Sample ID: 21L0909-01

Date Collected: 11/16/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-9

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-47	0.20	C44 H H3 E	0.079	0.0018	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-48	0.024	J H H3	0.026	0.0022	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-49	0.058	C H H3	0.053	0.0018	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-50	0.020	J C H H3	0.053	0.0020	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-51	0.0082	J q C45 H H3	0.053	0.0023	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-52	0.19	H H3 B	0.026	0.0019	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-53	0.020	J C50 H H3	0.053	0.0020	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-54	ND	H H3	0.026	0.00022	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-55	0.0027	J H H3	0.026	0.0013	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-56	0.029	H H3	0.026	0.0014	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-57	ND	H H3	0.026	0.0015	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-58	ND	H H3	0.026	0.0013	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-59	0.012	J C H H3	0.079	0.0016	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-60	0.025	J H H3	0.026	0.0017	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-61	0.16	C H H3 B	0.11	0.0014	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-62	0.012	J C59 H H3	0.079	0.0016	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-63	0.0046	J H H3	0.026	0.0016	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-64	0.040	H H3 B	0.026	0.0015	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-65	0.20	C44 H H3 E	0.079	0.0018	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-66	0.12	H H3	0.026	0.0014	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-67	0.0043	J H H3	0.026	0.0013	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-68	0.0025	J q H H3	0.026	0.0015	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-69	0.058	C49 H H3	0.053	0.0018	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-70	0.16	C61 H H3 E	0.11	0.0014	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-71	0.035	J C40 H H3	0.079	0.0021	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-72	ND	H H3	0.026	0.0014	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-73	ND	C43 H H3	0.053	0.0017	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-74	0.16	C61 H H3 E	0.11	0.0014	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-75	0.012	J C59 H H3	0.079	0.0016	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-76	0.16	C61 H H3 E	0.11	0.0014	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-77	0.014	J H H3	0.026	0.0015	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-78	ND	H H3	0.026	0.0014	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-79	0.0060	J H H3	0.026	0.0012	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-80	ND	H H3	0.026	0.0014	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-81	ND	H H3	0.026	0.0017	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-82	0.0077	J H H3	0.026	0.00091	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-83	0.26	C H H3 B	0.053	0.00089	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-84	0.035	H H3	0.026	0.0011	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-85	0.071	J C H H3	0.079	0.00079	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-86	0.21	C H H3 B	0.16	0.00076	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-87	0.21	C86 H H3 E	0.16	0.00076	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-88	0.039	J C H H3	0.053	0.0010	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-89	ND	H H3	0.026	0.00092	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-90	0.46	C H H3 B	0.079	0.00083	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-91	0.039	J C88 H H3	0.053	0.0010	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-92	0.070	H H3	0.026	0.0010	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-93	0.0060	J C H H3	0.053	0.0010	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-94	ND	H H3	0.026	0.0011	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-95	0.30	H H3 B	0.026	0.00099	ng/g		01/14/22 12:40	02/08/22 15:16	1

Client Sample ID: 21L0909-01

Date Collected: 11/16/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-9

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-96	ND	H H3	0.026	0.00067	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-97	**0.21**	**C86 H H3 B**	0.16	0.00076	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-98	**0.0079**	**J q C H H3**	0.053	0.00085	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-99	**0.26**	**C83 H H3 B**	0.053	0.00089	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-100	**0.0060**	**J C93 H H3**	0.053	0.0010	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-101	**0.46**	**C90 H H3 B**	0.079	0.00083	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-102	**0.0079**	**J q C98 H H3**	0.053	0.00085	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-103	ND	H H3	0.026	0.00092	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-104	ND	H H3	0.026	0.00076	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-105	**0.16**	**H H3 B**	0.026	0.0023	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-106	ND	H H3	0.026	0.0020	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-107	**0.032**	**H H3**	0.026	0.0020	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-108	**0.014**	**J C H H3**	0.053	0.0022	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-109	**0.21**	**C86 H H3 B**	0.16	0.00076	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-110	**0.33**	**C H H3 B**	0.053	0.00060	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-111	ND	H H3	0.026	0.00065	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-112	**0.0013**	**J q H H3**	0.026	0.00058	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-113	**0.46**	**C90 H H3 B**	0.079	0.00083	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-114	**0.0080**	**J H H3**	0.026	0.0022	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-115	**0.33**	**C110 H H3 B**	0.053	0.00060	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-116	**0.071**	**J C85 H H3**	0.079	0.00079	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-117	**0.071**	**J C85 H H3**	0.079	0.00079	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-118	**0.63**	**H H3 B**	0.026	0.0021	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-119	**0.21**	**C86 H H3 B**	0.16	0.00076	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-120	**0.0032**	**J q H H3**	0.026	0.00054	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-121	ND	H H3	0.026	0.00061	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-122	ND	H H3	0.026	0.0027	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-123	**0.012**	**J H H3**	0.026	0.0024	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-124	**0.014**	**J C108 H H3**	0.053	0.0022	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-125	**0.21**	**C86 H H3 B**	0.16	0.00076	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-126	ND	H H3	0.026	0.0021	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-127	ND	H H3	0.026	0.0020	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-128	**0.070**	**C H H3 B**	0.053	0.0011	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-129	**0.81**	**C H H3 B**	0.11	0.0012	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-130	**0.037**	**H H3**	0.026	0.0017	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-131	**0.0053**	**J H H3**	0.026	0.0015	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-132	**0.066**	**H H3 B**	0.026	0.0014	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-133	**0.0097**	**J H H3**	0.026	0.0013	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-134	**0.019**	**J C H H3**	0.053	0.0015	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-135	**0.14**	**C H H3 B**	0.053	0.00072	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-136	**0.029**	**H H3 B**	0.026	0.00054	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-137	**0.023**	**J H H3**	0.026	0.0014	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-138	**0.81**	**C129 H H3 B**	0.11	0.0012	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-139	**0.0084**	**J C H H3**	0.053	0.0012	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-140	**0.0084**	**J C139 H H3**	0.053	0.0012	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-141	**0.027**	**H H3 B**	0.026	0.0013	ng/g		01/14/22 12:40	02/08/22 15:16	1

Client Sample ID: 21L0909-01

Date Collected: 11/16/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-9

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-142	ND	H H3	0.026	0.0015	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-143	**0.019**	**J C134 H H3**	0.053	0.0015	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-144	**0.015**	**J H H3**	0.026	0.00073	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-145	ND	H H3	0.026	0.00049	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-146	**0.12**	**H H3**	0.026	0.0011	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-147	**0.43**	**C H H3 B**	0.053	0.0012	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-148	ND	H H3	0.026	0.00070	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-149	**0.43**	**C147 H H3 B**	0.053	0.0012	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-150	ND	H H3	0.026	0.00053	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-151	**0.14**	**C135 H H3 B**	0.053	0.00072	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-152	ND	H H3	0.026	0.00046	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-153	**1.1**	**C H H3 B**	0.053	0.0010	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-154	**0.0081**	**J q H H3**	0.026	0.00064	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-155	ND	H H3	0.026	0.00057	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-156	**0.061**	**C H H3 B**	0.053	0.0012	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-157	**0.061**	**C156 H H3 B**	0.053	0.0012	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-158	**0.058**	**H H3 B**	0.026	0.00096	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-159	ND	H H3	0.026	0.00084	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-160	**0.81**	**C129 H H3 B**	0.11	0.0012	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-161	ND	H H3	0.026	0.00092	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-162	**0.0010**	**J q H H3**	0.026	0.00093	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-163	**0.81**	**C129 H H3 B**	0.11	0.0012	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-164	**0.020**	**J H H3**	0.026	0.00096	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-165	ND	H H3	0.026	0.0011	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-166	**0.070**	**C128 H H3 B**	0.053	0.0011	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-167	**0.040**	**H H3 B**	0.026	0.00075	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-168	**1.1**	**C153 H H3 B**	0.053	0.0010	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-169	ND	H H3	0.026	0.00088	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-170	**0.024**	**J H H3 B**	0.026	0.00041	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-171	**0.029**	**J C H H3 B**	0.053	0.00038	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-172	**0.0037**	**J H H3**	0.026	0.00038	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-173	**0.029**	**J C171 H H3 B**	0.053	0.00038	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-174	**0.021**	**J H H3 B**	0.026	0.00034	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-175	**0.0042**	**J q H H3 B**	0.026	0.00038	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-176	**0.012**	**J H H3 B**	0.026	0.00028	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-177	**0.061**	**H H3 B**	0.026	0.00035	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-178	**0.034**	**H H3 B**	0.026	0.00038	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-179	**0.040**	**H H3 B**	0.026	0.00024	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-180	**0.18**	**C H H3 B**	0.053	0.00030	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-181	ND	H H3	0.026	0.00033	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-182	ND	H H3	0.026	0.00031	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-183	**0.085**	**C H H3 B**	0.053	0.00036	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-184	**0.00087**	**J q H H3**	0.026	0.00026	ng/g		01/14/22 12:40	02/08/22 15:16	1

Client Sample ID: 21L0909-01

Date Collected: 11/16/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-9

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-185	**0.085**	**C183 H H3 B**	0.053	0.00036	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-186	ND	H H3	0.026	0.00023	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-187	**0.19**	**H H3 B**	0.026	0.00030	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-188	ND	H H3	0.026	0.00025	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-189	**0.0017**	**J q H H3**	0.026	0.00058	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-190	**0.027**	**H H3**	0.026	0.00029	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-191	**0.0030**	**J q H H3**	0.026	0.00028	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-192	ND	H H3	0.026	0.00025	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-193	**0.18**	**C180 H H3 B**	0.053	0.00030	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-194	**0.0049**	**J H H3**	0.026	0.00050	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-195	**0.013**	**J H H3 B**	0.026	0.00057	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-196	**0.0062**	**J q H H3 B**	0.026	0.00045	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-197	**0.0016**	**J q H H3**	0.026	0.00033	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-198	**0.011**	**J q C H H3 B**	0.053	0.00040	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-199	**0.011**	**J q C198 H H3 B**	0.053	0.00040	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-200	**0.0025**	**J q H H3**	0.026	0.00034	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-201	**0.0092**	**J H H3**	0.026	0.00035	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-202	**0.020**	**J H H3**	0.026	0.00033	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-203	**0.034**	**H H3**	0.026	0.00036	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-204	ND	H H3	0.026	0.00031	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-205	**0.0022**	**J q H H3**	0.026	0.00045	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-206	**0.013**	**J H H3**	0.026	0.0034	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-207	**0.0034**	**J q H H3**	0.026	0.0027	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-208	**0.0061**	**J H H3**	0.026	0.0025	ng/g		01/14/22 12:40	02/08/22 15:16	1
PCB-209	**0.0096**	**J q H H3 B**	0.026	0.000099	ng/g		01/14/22 12:40	02/08/22 15:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*56*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-3L	*59*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-4L	*75*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-15L	*84*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-19L	*79*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-37L	*90*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-54L	*112*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-77L	*85*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-81L	*86*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-104L	*88*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-105L	*89*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-114L	*87*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-118L	*89*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-123L	*88*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-126L	*90*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-155L	*99*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-156L	*89*	*C*	*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-157L	*89*	*C156*	*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-167L	*89*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*
PCB-169L	*78*		*30 - 140*	*01/14/22 12:40*	*02/08/22 15:16*	*1*

Client Sample ID: 21L0909-01

Date Collected: 11/16/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-9

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-170L	87		30 - 140	01/14/22 12:40	02/08/22 15:16	1
PCB-188L	88		30 - 140	01/14/22 12:40	02/08/22 15:16	1
PCB-189L	113		30 - 140	01/14/22 12:40	02/08/22 15:16	1
PCB-202L	110		30 - 140	01/14/22 12:40	02/08/22 15:16	1
PCB-205L	87		30 - 140	01/14/22 12:40	02/08/22 15:16	1
PCB-206L	83		30 - 140	01/14/22 12:40	02/08/22 15:16	1
PCB-208L	103		30 - 140	01/14/22 12:40	02/08/22 15:16	1
PCB-209L	87		30 - 140	01/14/22 12:40	02/08/22 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	75		40 - 125	01/14/22 12:40	02/08/22 15:16	1
PCB-111L	98		40 - 125	01/14/22 12:40	02/08/22 15:16	1
PCB-178L	100		40 - 125	01/14/22 12:40	02/08/22 15:16	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L0909-02

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-10

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.0046	J H H3 B	0.049	0.00070	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-2	0.0056	J H H3	0.049	0.00079	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-3	ND	H H3	0.049	0.00089	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-4	0.014	J H H3 B q	0.098	0.0016	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-5	ND	H H3	0.049	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-6	0.0067	J H H3	0.049	0.0012	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-7	ND	H H3	0.049	0.0014	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-8	0.012	J H H3 B q	0.098	0.0011	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-9	ND	H H3	0.049	0.0013	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-10	ND	H H3	0.049	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-11	3.4	H H3 B	0.098	0.0013	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-12	0.041	J C H H3 q	0.098	0.0014	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-13	0.041	J H H3 C12 q	0.098	0.0014	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-14	ND	H H3	0.049	0.0014	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-15	0.019	J H H3 B	0.049	0.0013	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-16	0.032	J H H3 B	0.049	0.00086	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-17	0.038	J H H3	0.049	0.00088	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-18	0.065	J C H H3 B	0.098	0.00060	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-19	0.0042	J H H3 B q	0.049	0.00081	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-20	0.037	J C H H3 B q	0.098	0.0011	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-21	0.022	J C H H3 B q	0.098	0.0012	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-22	0.029	J H H3 B	0.049	0.0011	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-23	ND	H H3	0.049	0.0012	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-24	ND	H H3	0.049	0.00060	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-25	0.0048	J H H3	0.049	0.00098	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-26	0.0086	J C H H3	0.098	0.0012	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-27	0.0085	J H H3	0.049	0.00062	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-28	0.037	J H H3 B C20 q	0.098	0.0011	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-29	0.0086	J C26 H H3	0.098	0.0012	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-30	0.065	J H C18 H3 B	0.098	0.00060	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-31	0.024	J H H3 B	0.098	0.0010	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-32	0.0048	J H H3 B q	0.049	0.00054	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-33	0.022	J H H3 B C21 q	0.098	0.0012	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-34	ND	H H3	0.049	0.0013	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-35	0.0046	J H H3 B	0.049	0.0012	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-36	0.0032	J H H3 q	0.049	0.0010	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-37	0.016	J H H3 B q	0.049	0.0012	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-38	0.0072	J H H3	0.049	0.0011	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-39	ND	H H3	0.049	0.0011	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-40	0.033	J C H H3	0.15	0.0024	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-41	0.033	J H H3 C40	0.15	0.0024	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-42	0.052	H H3	0.049	0.0026	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-43	ND	C H H3	0.098	0.0020	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-44	0.22	C H H3 B	0.15	0.0021	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-45	0.011	J C H H3 q	0.098	0.0026	ng/g		01/14/22 12:40	02/09/22 07:15	1

Client Sample ID: 21L0909-02

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-10

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-46	ND	H H3	0.049	0.0030	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-47	**0.22**	**H H3 B C4**	0.15	0.0021	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-48	**0.027**	**J H H3**	0.049	0.0025	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-49	**0.058**	**J C H H3**	0.098	0.0021	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-50	**0.019**	**J C H H3 q**	0.098	0.0023	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-51	**0.011**	**J H H3 C4 q**	0.098	0.0026	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-52	**0.17**	**H H3 B**	0.049	0.0022	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-53	**0.019**	**J H C50 H3 q**	0.098	0.0023	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-54	ND	H H3	0.049	0.00043	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-55	**0.0025**	**J H H3 q**	0.049	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-56	**0.029**	**J H H3**	0.049	0.0016	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-57	ND	H H3	0.049	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-58	ND	H H3	0.049	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-59	**0.012**	**J C H H3 q**	0.15	0.0018	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-60	**0.025**	**J H H3**	0.049	0.0019	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-61	**0.16**	**J C H H3 B**	0.20	0.0016	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-62	**0.012**	**J H H3 C5 q**	0.15	0.0018	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-63	**0.0066**	**J H H3**	0.049	0.0018	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-64	**0.036**	**J H H3 B**	0.049	0.0018	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-65	**0.22**	**H H3 B C4**	0.15	0.0021	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-66	**0.13**	**H H3**	0.049	0.0016	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-67	**0.0031**	**J H H3 q**	0.049	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-68	**0.0030**	**J H H3**	0.049	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-69	**0.058**	**J H H3 C4**	0.098	0.0021	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-70	**0.16**	**J H C61 H3 B**	0.20	0.0016	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-71	**0.033**	**J H H3 C4**	0.15	0.0024	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-72	ND	H H3	0.049	0.0016	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-73	ND	H C43 H3	0.098	0.0020	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-74	**0.16**	**J H C61 H3 B**	0.20	0.0016	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-75	**0.012**	**J H H3 C5 q**	0.15	0.0018	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-76	**0.16**	**J H C61 H3 B**	0.20	0.0016	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-77	**0.014**	**J H H3 q**	0.049	0.0018	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-78	ND	H H3	0.049	0.0016	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-79	**0.0079**	**J H H3**	0.049	0.0014	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-80	ND	H H3	0.049	0.0016	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-81	ND	H H3	0.049	0.0020	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-82	**0.010**	**J H H3 q**	0.049	0.0020	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-83	**0.35**	**C H H3 B**	0.098	0.0020	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-84	**0.038**	**J H H3**	0.049	0.0025	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-85	**0.088**	**J C H H3**	0.15	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-86	**0.30**	**C H H3 B**	0.29	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-87	**0.30**	**H H3 B C8**	0.29	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-88	**0.041**	**J C H H3**	0.098	0.0022	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-89	ND	H H3	0.049	0.0020	ng/g		01/14/22 12:40	02/09/22 07:15	1

Client Sample ID: 21L0909-02

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-10

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-90	0.57	C H H3 B	0.15	0.0018	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-91	0.041	J H C88 H3	0.098	0.0022	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-92	0.076	H H3	0.049	0.0022	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-93	0.0056	J C H H3 q	0.098	0.0022	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-94	ND	H H3	0.049	0.0024	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-95	0.37	H H3 B	0.049	0.0022	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-96	ND	H H3	0.049	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-97	0.30	H H3 B C8	0.29	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-98	0.010	J C H H3 q	0.098	0.0019	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-99	0.35	H C83 H3 B	0.098	0.0020	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-100	0.0056	J H H3 C93 q	0.098	0.0022	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-101	0.57	H H3 B C9	0.15	0.0018	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-102	0.010	J C98 H H3 q	0.098	0.0019	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-103	0.0038	J H H3 q	0.049	0.0020	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-104	ND	H H3	0.049	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-105	0.23	H H3 B	0.049	0.0039	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-106	ND	H H3	0.049	0.0035	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-107	0.042	J H H3	0.049	0.0034	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-108	0.020	J C H H3	0.098	0.0038	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-109	0.30	H H3 B C8	0.29	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-110	0.39	C H H3 B	0.098	0.0013	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-111	0.0015	J H H3 q	0.049	0.0014	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-112	0.0017	J H H3 q	0.049	0.0013	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-113	0.57	H H3 B C9	0.15	0.0018	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-114	0.017	J H H3	0.049	0.0037	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-115	0.39	H H3 B C110	0.098	0.0013	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-116	0.088	J H H3 C85	0.15	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-117	0.088	J H H3 C85	0.15	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-118	1.2	H H3 B	0.049	0.0036	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-119	0.30	H H3 B C8	0.29	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-120	0.0045	J H H3 q	0.049	0.0012	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-121	ND	H H3	0.049	0.0013	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-122	ND	H H3	0.049	0.0046	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-123	0.027	J H H3	0.049	0.0040	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-124	0.020	J H H3 C108	0.098	0.0038	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-125	0.30	H H3 B C8	0.29	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-126	ND	H H3	0.049	0.0036	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-127	ND	H H3	0.049	0.0035	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-128	0.083	J C H H3 B	0.098	0.0014	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-129	1.1	C H H3 B	0.20	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-130	0.047	J H H3	0.049	0.0021	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-131	0.0047	J H H3 q	0.049	0.0019	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-132	0.074	H H3 B	0.049	0.0018	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-133	0.0097	J H H3	0.049	0.0016	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-134	0.026	J C H H3	0.098	0.0019	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-135	0.17	C H H3 B	0.098	0.00083	ng/g		01/14/22 12:40	02/09/22 07:15	1

Client Sample ID: 21L0909-02

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-10

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-136	0.033	J H H3 B	0.049	0.00062	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-137	0.036	J H H3	0.049	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-138	1.1	H H3 B C129	0.20	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-139	0.011	J C H H3	0.098	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-140	0.011	J H H3 C139	0.098	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-141	0.032	J H H3 B	0.049	0.0017	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-142	ND	H H3	0.049	0.0018	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-143	0.026	J H C134 H3	0.098	0.0019	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-144	0.019	J H H3	0.049	0.00083	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-145	ND	H H3	0.049	0.00056	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-146	0.15	H H3	0.049	0.0014	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-147	0.49	C H H3 B	0.098	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-148	0.0017	J H H3 q	0.049	0.00080	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-149	0.49	H H3 B C147	0.098	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-150	0.00084	J H H3 B q	0.049	0.00060	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-151	0.17	H C135 H3 B	0.098	0.00083	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-152	ND	H H3	0.049	0.00053	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-153	1.6	C H H3 B	0.098	0.0013	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-154	0.010	J H H3 q	0.049	0.00073	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-155	0.0012	J H H3 q	0.049	0.00065	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-156	0.11	C H H3 B	0.098	0.0016	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-157	0.11	H C156 H3 B	0.098	0.0016	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-158	0.073	H H3 B	0.049	0.0012	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-159	ND	H H3	0.049	0.0010	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-160	1.1	H H3 B C129	0.20	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-161	ND	H H3	0.049	0.0012	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-162	0.0027	J H H3	0.049	0.0012	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-163	1.1	H H3 B C129	0.20	0.0015	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-164	0.024	J H H3	0.049	0.0012	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-165	ND	H H3	0.049	0.0014	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-166	0.083	J C128 H H3 B	0.098	0.0014	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-167	0.077	H H3 B	0.049	0.00096	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-168	1.6	H H3 B C153	0.098	0.0013	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-169	ND	H H3	0.049	0.0010	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-170	0.032	J H H3 B	0.049	0.0010	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-171	0.032	J C H H3 B	0.098	0.00096	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-172	0.0032	J H H3 q	0.049	0.00094	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-173	0.032	J H C171 H3 B	0.098	0.00096	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-174	0.023	J H H3 B	0.049	0.00086	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-175	0.0054	J H H3 B	0.049	0.00095	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-176	0.015	J H H3 B	0.049	0.00071	ng/g		01/14/22 12:40	02/09/22 07:15	1

Client Sample ID: 21L0909-02

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-10

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-177	0.074	H H3 B	0.049	0.00086	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-178	0.040	J H H3 B	0.049	0.00094	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-179	0.047	J H H3 B	0.049	0.00060	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-180	0.21	C H H3 B	0.098	0.00076	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-181	0.0017	J H H3 q	0.049	0.00083	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-182	0.0027	J H H3	0.049	0.00078	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-183	0.10	C H H3 B	0.098	0.00090	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-184	0.00078	J H H3 q	0.049	0.00065	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-185	0.10	H H3 B C183	0.098	0.00090	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-186	ND	H H3	0.049	0.00058	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-187	0.23	H H3 B	0.049	0.00076	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-188	ND	H H3	0.049	0.00063	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-189	0.0022	J H H3	0.049	0.0011	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-190	0.033	J H H3	0.049	0.00073	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-191	0.0039	J H H3 q	0.049	0.00070	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-192	ND	H H3	0.049	0.00063	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-193	0.21	C180 H H3 B	0.098	0.00076	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-194	0.0077	J H H3	0.049	0.00041	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-195	0.014	J H H3 B	0.049	0.00046	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-196	0.0098	J H H3 B	0.049	0.00059	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-197	0.0026	J H H3 q	0.049	0.00042	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-198	0.015	J C H H3 B	0.098	0.00052	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-199	0.015	J H C198 H3 B	0.098	0.00052	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-200	0.0023	J H H3 q	0.049	0.00044	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-201	0.011	J H H3	0.049	0.00046	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-202	0.026	J H H3	0.049	0.00043	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-203	0.040	J H H3	0.049	0.00046	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-204	ND	H H3	0.049	0.00040	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-205	0.0026	J H H3 q	0.049	0.00036	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-206	0.014	J H H3 q	0.049	0.0029	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-207	ND	H H3	0.049	0.0023	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-208	ND	H H3	0.049	0.0022	ng/g		01/14/22 12:40	02/09/22 07:15	1
PCB-209	0.028	J H H3 B	0.049	0.00020	ng/g		01/14/22 12:40	02/09/22 07:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*59*		*30 - 140*	*01/14/22 12:40*	*02/09/22 07:15*	*1*
PCB-3L	*56*		*30 - 140*	*01/14/22 12:40*	*02/09/22 07:15*	*1*
PCB-4L	*79*		*30 - 140*	*01/14/22 12:40*	*02/09/22 07:15*	*1*
PCB-15L	*86*		*30 - 140*	*01/14/22 12:40*	*02/09/22 07:15*	*1*
PCB-19L	*81*		*30 - 140*	*01/14/22 12:40*	*02/09/22 07:15*	*1*
PCB-37L	*89*		*30 - 140*	*01/14/22 12:40*	*02/09/22 07:15*	*1*
PCB-54L	*114*		*30 - 140*	*01/14/22 12:40*	*02/09/22 07:15*	*1*
PCB-77L	*90*		*30 - 140*	*01/14/22 12:40*	*02/09/22 07:15*	*1*
PCB-81L	*89*		*30 - 140*	*01/14/22 12:40*	*02/09/22 07:15*	*1*
PCB-104L	*88*		*30 - 140*	*01/14/22 12:40*	*02/09/22 07:15*	*1*
PCB-105L	*90*		*30 - 140*	*01/14/22 12:40*	*02/09/22 07:15*	*1*
PCB-114L	*89*		*30 - 140*	*01/14/22 12:40*	*02/09/22 07:15*	*1*
PCB-118L	*89*		*30 - 140*	*01/14/22 12:40*	*02/09/22 07:15*	*1*

Client Sample ID: 21L0909-02

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-10

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	89		30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-126L	91		30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-155L	98		30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-156L	91	C	30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-157L	91	C156	30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-167L	91		30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-169L	86		30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-170L	91		30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-188L	88		30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-189L	113		30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-202L	108		30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-205L	91		30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-206L	86		30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-208L	106		30 - 140	01/14/22 12:40	02/09/22 07:15	1
PCB-209L	83		30 - 140	01/14/22 12:40	02/09/22 07:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	81		40 - 125	01/14/22 12:40	02/09/22 07:15	1
PCB-111L	102		40 - 125	01/14/22 12:40	02/09/22 07:15	1
PCB-178L	100		40 - 125	01/14/22 12:40	02/09/22 07:15	1

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L1002-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-11

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND	H H3	0.050	0.00060	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-2	ND	H H3	0.050	0.00071	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-3	ND	H H3	0.050	0.00083	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-4	ND	H H3	0.10	0.00086	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-5	ND	H H3	0.050	0.00081	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-6	ND	H H3	0.050	0.00065	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-7	ND	H H3	0.050	0.00076	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-8	**0.0021**	**J H H3 B q**	0.10	0.00061	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-9	ND	H H3	0.050	0.00070	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-10	ND	H H3	0.050	0.00080	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-11	**0.019**	**J H H3 B**	0.10	0.00069	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-12	ND	C H H3	0.10	0.00075	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-13	ND	H H3 C12	0.10	0.00075	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-14	ND	H H3	0.050	0.00076	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-15	**0.011**	**J H H3 B q**	0.050	0.00077	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-16	ND	H H3	0.050	0.00037	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-17	**0.0018**	**J H H3 q**	0.050	0.00038	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-18	**0.0029**	**J C H H3 B**	0.10	0.00026	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-19	ND	H H3	0.050	0.00035	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-20	**0.055**	**J C H H3 B q**	0.10	0.00088	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-21	**0.0024**	**J C H H3 B**	0.10	0.00089	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-22	ND	H H3	0.050	0.00084	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-23	ND	H H3	0.050	0.00096	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-24	ND	H H3	0.050	0.00026	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-25	ND	H H3	0.050	0.00076	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-26	ND	C H H3	0.10	0.00094	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-27	ND	H H3	0.050	0.00026	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-28	**0.055**	**J H H3 B C20 q**	0.10	0.00088	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-29	ND	C26 H H3	0.10	0.00094	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-30	**0.0029**	**J H C18 H3 B**	0.10	0.00026	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-31	**0.0024**	**J H H3 B q**	0.10	0.00080	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-32	**0.0013**	**J H H3 B q**	0.050	0.00023	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-33	**0.0024**	**J H H3 B C21**	0.10	0.00089	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-34	ND	H H3	0.050	0.00099	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-35	ND	H H3	0.050	0.00092	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-36	ND	H H3	0.050	0.00079	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-37	**0.014**	**J H H3 B q**	0.050	0.00090	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-38	ND	H H3	0.050	0.00086	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-39	**0.0017**	**J H H3 q**	0.050	0.00088	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-40	ND	C H H3	0.15	0.0036	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-41	ND	H H3 C40	0.15	0.0036	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-42	ND	H H3	0.050	0.0039	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-43	ND	C H H3	0.10	0.0030	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-44	**0.020**	**J C H H3 B**	0.15	0.0031	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-45	ND	C H H3	0.10	0.0039	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-46	ND	H H3	0.050	0.0046	ng/g		01/14/22 12:40	02/09/22 08:17	5

Client Sample ID: 21L1002-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-11

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-47	**0.020**	**J H H3 B C44**	0.15	0.0031	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-48	ND	H H3	0.050	0.0037	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-49	**0.0099**	**J C H H3 q**	0.10	0.0031	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-50	ND	C H H3	0.10	0.0035	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-51	ND	H H3 C45	0.10	0.0039	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-52	**0.024**	**J H H3 B**	0.050	0.0033	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-53	ND	H C50 H3	0.10	0.0035	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-54	ND	H H3	0.050	0.00015	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-55	**0.036**	**J H H3**	0.050	0.0023	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-56	ND	H H3	0.050	0.0024	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-57	ND	H H3	0.050	0.0026	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-58	ND	H H3	0.050	0.0023	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-59	ND	C H H3	0.15	0.0027	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-60	**0.096**	**H H3**	0.050	0.0029	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-61	**1.8**	**C H H3 B**	0.20	0.0024	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-62	ND	H H3 C59	0.15	0.0027	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-63	**0.20**	**H H3**	0.050	0.0027	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-64	ND	H H3	0.050	0.0027	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-65	**0.020**	**J H H3 B C44**	0.15	0.0031	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-66	**1.6**	**H H3**	0.050	0.0023	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-67	ND	H H3	0.050	0.0022	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-68	**0.031**	**J H H3**	0.050	0.0025	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-69	**0.0099**	**J H H3 C49 q**	0.10	0.0031	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-70	**1.8**	**H C61 H3 B**	0.20	0.0024	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-71	ND	H H3 C40	0.15	0.0036	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-72	ND	H H3	0.050	0.0024	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-73	ND	H C43 H3	0.10	0.0030	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-74	**1.8**	**H C61 H3 B**	0.20	0.0024	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-75	ND	H H3 C59	0.15	0.0027	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-76	**1.8**	**H C61 H3 B**	0.20	0.0024	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-77	**0.061**	**H H3**	0.050	0.0027	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-78	ND	H H3	0.050	0.0024	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-79	**0.0050**	**J H H3**	0.050	0.0020	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-80	ND	H H3	0.050	0.0025	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-81	**0.0051**	**J H H3 q**	0.050	0.0030	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-82	**0.0073**	**J H H3 q**	0.050	0.0013	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-83	**3.7**	**C H H3 B**	0.10	0.0013	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-84	ND	H H3	0.050	0.0016	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-85	**0.89**	**C H H3**	0.15	0.0011	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-86	**0.14**	**J C H H3 B**	0.30	0.0011	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-87	**0.14**	**J H H3 B C86**	0.30	0.0011	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-88	ND	C H H3	0.10	0.0014	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-89	ND	H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-90	**0.72**	**C H H3 B**	0.15	0.0012	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-91	ND	H C88 H3	0.10	0.0014	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-92	**0.031**	**J H H3**	0.050	0.0014	ng/g		01/14/22 12:40	02/09/22 08:17	5

Client Sample ID: 21L1002-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-11

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-93	ND	C H H3	0.10	0.0014	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-94	ND	H H3	0.050	0.0016	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-95	**0.038**	**J H H3 B**	0.050	0.0014	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-96	ND	H H3	0.050	0.00095	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-97	**0.14**	**J H H3 B C86**	0.30	0.0011	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-98	ND	C H H3	0.10	0.0012	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-99	**3.7**	**H C83 H3 E**	0.10	0.0013	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-100	ND	H H3 C93	0.10	0.0014	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-101	**0.72**	**H H3 B C9**	0.15	0.0012	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-102	ND	C98 H H3	0.10	0.0012	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-103	ND	H H3	0.050	0.0013	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-104	ND	H H3	0.050	0.0011	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-105	**3.5**	**H H3 B**	0.050	0.039	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-106	ND	H H3	0.050	0.035	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-107	**2.3**	**H H3**	0.050	0.034	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-108	ND	C H H3	0.10	0.038	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-109	**0.14**	**J H H3 B C86**	0.30	0.0011	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-110	**0.060**	**J C H H3 B**	0.10	0.00085	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-111	ND	H H3	0.050	0.00092	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-112	**0.030**	**J H H3**	0.050	0.00082	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-113	**0.72**	**H H3 B C9**	0.15	0.0012	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-114	**1.5**	**H H3**	0.050	0.037	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-115	**0.060**	**J H H3 B C110**	0.10	0.00085	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-116	**0.89**	**H H3 C85**	0.15	0.0011	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-117	**0.89**	**H H3 C85**	0.15	0.0011	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-118	**30**	**H H3 B**	0.050	0.037	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-119	**0.14**	**J H H3 B C86**	0.30	0.0011	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-120	**0.013**	**J H H3 q**	0.050	0.00077	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-121	ND	H H3	0.050	0.00086	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-122	**0.15**	**H H3**	0.050	0.046	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-123	**0.97**	**H H3**	0.050	0.043	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-124	ND	H H3 C108	0.10	0.038	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-125	**0.14**	**J H H3 B C86**	0.30	0.0011	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-126	ND	H H3	0.050	0.039	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-127	**0.098**	**H H3**	0.050	0.035	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-128	**0.46**	**C H H3 B**	0.10	0.0036	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-129	**8.9**	**C H H3 B**	0.20	0.0038	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-130	**0.34**	**H H3**	0.050	0.0052	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-131	ND	H H3	0.050	0.0047	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-132	**0.011**	**J H H3 B**	0.050	0.0045	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-133	**0.20**	**H H3**	0.050	0.0040	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-134	**0.0058**	**J C H H3 q**	0.10	0.0047	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-135	**0.094**	**J C H H3 B**	0.10	0.00037	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-136	**0.013**	**J H H3 B**	0.050	0.00028	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-137	**3.7**	**H H3**	0.050	0.0044	ng/g		01/14/22 12:40	02/09/22 08:17	5

Client Sample ID: 21L1002-01

Date Collected: 09/09/20 12:00
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Lab Sample ID: 140-25783-11

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-138	8.9	H H3 B C129	0.20	0.0038	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-139	0.10	C H H3	0.10	0.0039	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-140	0.10	H H3 C139	0.10	0.0039	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-141	0.14	H H3 B	0.050	0.0042	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-142	ND	H H3	0.050	0.0046	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-143	0.0058	J H C134 H3 q	0.10	0.0047	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-144	0.0080	J H H3	0.050	0.00037	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-145	ND	H H3	0.050	0.00025	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-146	3.3	H H3	0.050	0.0035	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-147	0.24	C H H3 B	0.10	0.0037	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-148	ND	H H3	0.050	0.00036	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-149	0.24	H H3 B C147	0.10	0.0037	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-150	ND	H H3	0.050	0.00027	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-151	0.094	J H C135 H3 B	0.10	0.00037	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-152	ND	H H3	0.050	0.00024	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-153	17	C H H3 B	0.10	0.0032	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-154	0.013	J H H3	0.050	0.00033	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-155	0.00031	J H H3 q	0.050	0.00029	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-156	7.1	C H H3 B	0.10	0.0040	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-157	7.1	H C156 H3 B	0.10	0.0040	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-158	0.25	H H3 B	0.050	0.0030	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-159	ND	H H3	0.050	0.0026	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-160	8.9	H H3 B C129	0.20	0.0038	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-161	0.032	J H H3	0.050	0.0029	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-162	0.17	H H3	0.050	0.0029	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-163	8.9	H H3 B C129	0.20	0.0038	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-164	0.039	J H H3	0.050	0.0030	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-165	0.0043	J H H3	0.050	0.0035	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-166	0.46	C128 H H3 B	0.10	0.0036	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-167	2.2	H H3 B	0.050	0.0024	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-168	17	H H3 B C153	0.10	0.0032	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-169	ND	H H3	0.050	0.0025	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-170	1.3	H H3 B	0.050	0.00074	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-171	0.12	C H H3 B	0.10	0.00070	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-172	0.076	H H3	0.050	0.00068	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-173	0.12	H C171 H3 B	0.10	0.00070	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-174	0.027	J H H3 B	0.050	0.00063	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-175	0.027	J H H3 B	0.050	0.00069	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-176	0.0020	J H H3 B q	0.050	0.00052	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-177	0.090	H H3 B	0.050	0.00063	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-178	0.084	H H3 B	0.050	0.00068	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-179	0.0025	J H H3 B	0.050	0.00044	ng/g		01/14/22 12:40	02/09/22 08:17	5

Client Sample ID: 21L1002-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-11

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-180	**4.5**	**C H H3 B**	0.10	0.00055	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-181	**0.080**	**H H3**	0.050	0.00060	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-182	**0.0090**	**J H H3**	0.050	0.00057	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-183	**0.51**	**C H H3 B**	0.10	0.00066	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-184	ND	H H3	0.050	0.00048	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-185	**0.51**	**H H3 B C183**	0.10	0.00066	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-186	ND	H H3	0.050	0.00042	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-187	**1.3**	**H H3 B**	0.050	0.00055	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-188	**0.0021**	**J H H3 q**	0.050	0.00046	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-189	**0.20**	**H H3**	0.050	0.0019	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-190	**0.27**	**H H3**	0.050	0.00053	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-191	**0.12**	**H H3**	0.050	0.00051	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-192	ND	H H3	0.050	0.00046	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-193	**4.5**	**C180 H H3 B**	0.10	0.00055	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-194	**0.21**	**H H3**	0.050	0.0018	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-195	**0.085**	**H H3 B**	0.050	0.0020	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-196	**0.12**	**H H3 B**	0.050	0.00069	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-197	**0.0054**	**J H H3 q**	0.050	0.00050	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-198	**0.11**	**C H H3 B**	0.10	0.00061	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-199	**0.11**	**H C198 H3 B**	0.10	0.00061	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-200	ND	H H3	0.050	0.00052	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-201	**0.019**	**J H H3**	0.050	0.00055	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-202	**0.011**	**J H H3**	0.050	0.00051	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-203	**0.045**	**J H H3**	0.050	0.00055	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-204	ND	H H3	0.050	0.00048	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-205	**0.0044**	**J H H3 q**	0.050	0.0016	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-206	**0.025**	**J H H3**	0.050	0.0029	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-207	**0.0099**	**J H H3 q**	0.050	0.0024	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-208	ND	H H3	0.050	0.0023	ng/g		01/14/22 12:40	02/09/22 08:17	5
PCB-209	**0.021**	**J H H3 B**	0.050	0.00023	ng/g		01/14/22 12:40	02/09/22 08:17	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*53*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-3L	*49*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-4L	*75*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-15L	*80*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-19L	*76*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-37L	*82*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-54L	*108*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-77L	*86*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-81L	*81*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-104L	*82*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-105L	*89*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-114L	*87*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-118L	*87*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-123L	*83*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-126L	*87*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*
PCB-155L	*91*		*30 - 140*	*01/14/22 12:40*	*02/09/22 08:17*	*5*

Client Sample ID: 21L1002-01

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-11

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-156L	88	C	30 - 140	01/14/22 12:40	02/09/22 08:17	5
PCB-157L	88	C156	30 - 140	01/14/22 12:40	02/09/22 08:17	5
PCB-167L	87		30 - 140	01/14/22 12:40	02/09/22 08:17	5
PCB-169L	84		30 - 140	01/14/22 12:40	02/09/22 08:17	5
PCB-170L	88		30 - 140	01/14/22 12:40	02/09/22 08:17	5
PCB-188L	83		30 - 140	01/14/22 12:40	02/09/22 08:17	5
PCB-189L	100		30 - 140	01/14/22 12:40	02/09/22 08:17	5
PCB-202L	105		30 - 140	01/14/22 12:40	02/09/22 08:17	5
PCB-205L	84		30 - 140	01/14/22 12:40	02/09/22 08:17	5
PCB-206L	79		30 - 140	01/14/22 12:40	02/09/22 08:17	5
PCB-208L	95		30 - 140	01/14/22 12:40	02/09/22 08:17	5
PCB-209L	75		30 - 140	01/14/22 12:40	02/09/22 08:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	86		40 - 125	01/14/22 12:40	02/09/22 08:17	5
PCB-111L	95		40 - 125	01/14/22 12:40	02/09/22 08:17	5
PCB-178L	97		40 - 125	01/14/22 12:40	02/09/22 08:17	5

Client Sample Results

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L1002-02

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-12

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND	H H3	0.013	0.00021	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-2	ND	H H3	0.013	0.00023	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-3	ND	H H3	0.013	0.00024	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-4	**0.0011**	**J H H3 B**	0.025	0.00029	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-5	ND	H H3	0.013	0.00026	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-6	ND	H H3	0.013	0.00021	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-7	ND	H H3	0.013	0.00025	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-8	**0.0011**	**J H H3 B**	0.025	0.00020	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-9	ND	H H3	0.013	0.00023	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-10	ND	H H3	0.013	0.00026	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-11	**0.015**	**J H H3 B**	0.025	0.00022	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-12	ND	C H H3	0.025	0.00024	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-13	ND	H H3 C12	0.025	0.00024	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-14	ND	H H3	0.013	0.00025	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-15	**0.0036**	**J H H3 B**	0.013	0.00024	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-16	ND	H H3	0.013	0.00023	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-17	**0.0011**	**J H H3 q**	0.013	0.00023	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-18	**0.0010**	**J C H H3 B**	0.025	0.00016	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-19	ND	H H3	0.013	0.00022	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-20	**0.0023**	**J C H H3 B q**	0.025	0.00035	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-21	ND	C H H3	0.025	0.00036	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-22	**0.00048**	**J H H3 B q**	0.013	0.00034	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-23	ND	H H3	0.013	0.00039	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-24	ND	H H3	0.013	0.00016	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-25	ND	H H3	0.013	0.00030	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-26	**0.00090**	**J C H H3**	0.025	0.00038	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-27	**0.00034**	**J H H3 q**	0.013	0.00016	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-28	**0.0023**	**J H H3 B C20 q**	0.025	0.00035	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-29	**0.00090**	**J C26 H H3**	0.025	0.00038	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-30	**0.0010**	**J H C18 H3 B**	0.025	0.00016	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-31	**0.0013**	**J H H3 B q**	0.025	0.00032	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-32	**0.0011**	**J H H3 B**	0.013	0.00014	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-33	ND	H H3 C21	0.025	0.00036	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-34	ND	H H3	0.013	0.00040	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-35	ND	H H3	0.013	0.00037	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-36	ND	H H3	0.013	0.00032	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-37	**0.013**	**H H3 B q**	0.013	0.00036	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-38	ND	H H3	0.013	0.00035	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-39	ND	H H3	0.013	0.00035	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-40	ND	C H H3	0.038	0.0013	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-41	ND	H H3 C40	0.038	0.0013	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-42	ND	H H3	0.013	0.0014	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-43	ND	C H H3	0.025	0.0010	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-44	**0.0031**	**J C H H3 B**	0.038	0.0011	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-45	ND	C H H3	0.025	0.0014	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-46	ND	H H3	0.013	0.0016	ng/g		01/14/22 12:40	02/09/22 09:19	1

Client Sample ID: 21L1002-02

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-12

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-47	**0.0031**	**J H H3 B C44**	0.038	0.0011	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-48	ND	H H3	0.013	0.0013	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-49	**0.0019**	**J C H H3**	0.025	0.0011	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-50	ND	C H H3	0.025	0.0012	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-51	ND	H H3 C45	0.025	0.0014	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-52	**0.0040**	**J H H3 B**	0.013	0.0011	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-53	ND	H C50 H3	0.025	0.0012	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-54	ND	H H3	0.013	0.00010	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-55	**0.0052**	**J H H3**	0.013	0.00080	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-56	ND	H H3	0.013	0.00082	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-57	ND	H H3	0.013	0.00088	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-58	ND	H H3	0.013	0.00080	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-59	ND	C H H3	0.038	0.00094	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-60	ND	H H3	0.013	0.00099	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-61	**0.34**	**C H H3 B**	0.050	0.00082	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-62	ND	H H3 C59	0.038	0.00094	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-63	**0.13**	**H H3**	0.013	0.00094	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-64	ND	H H3	0.013	0.00092	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-65	**0.0031**	**J H H3 B C44**	0.038	0.0011	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-66	**0.33**	**H H3**	0.013	0.00081	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-67	**0.0020**	**J H H3 q**	0.013	0.00075	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-68	**0.015**	**H H3**	0.013	0.00087	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-69	**0.0019**	**J H H3 C49**	0.025	0.0011	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-70	**0.34**	**H C61 H3 B**	0.050	0.00082	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-71	ND	H H3 C40	0.038	0.0013	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-72	ND	H H3	0.013	0.00083	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-73	ND	H C43 H3	0.025	0.0010	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-74	**0.34**	**H C61 H3 B**	0.050	0.00082	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-75	ND	H H3 C59	0.038	0.00094	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-76	**0.34**	**H C61 H3 B**	0.050	0.00082	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-77	**0.057**	**H H3**	0.013	0.00091	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-78	**0.0067**	**J H H3**	0.013	0.00083	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-79	**0.0012**	**J H H3**	0.013	0.00070	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-80	ND	H H3	0.013	0.00085	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-81	**0.0030**	**J H H3**	0.013	0.0010	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-82	**0.0025**	**J H H3 q**	0.013	0.00061	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-83	**0.27**	**C H H3 B**	0.025	0.00060	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-84	**0.0011**	**J H H3 q**	0.013	0.00076	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-85	**0.69**	**C H H3**	0.038	0.00054	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-86	**0.0093**	**J C H H3 B q**	0.075	0.00051	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-87	**0.0093**	**J H H3 B C86 q**	0.075	0.00051	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-88	**0.0018**	**J C H H3 q**	0.025	0.00067	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-89	ND	H H3	0.013	0.00062	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-90	**0.40**	**C H H3 B**	0.038	0.00056	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-91	**0.0018**	**J H C88 H3 q**	0.025	0.00067	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-92	**0.0042**	**J H H3**	0.013	0.00069	ng/g		01/14/22 12:40	02/09/22 09:19	1

Client Sample ID: 21L1002-02

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-12

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-93	ND	C H H3	0.025	0.00068	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-94	ND	H H3	0.013	0.00075	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-95	**0.0093**	**J H H3 B**	0.013	0.00067	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-96	ND	H H3	0.013	0.00045	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-97	**0.0093**	**J H H3 B C86 q**	0.075	0.00051	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-98	ND	C H H3	0.025	0.00057	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-99	**0.27**	**H C83 H3 E**	0.025	0.00060	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-100	ND	H H3 C93	0.025	0.00068	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-101	**0.40**	**H H3 B C9**	0.038	0.00056	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-102	ND	C98 H H3	0.025	0.00057	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-103	**0.00077**	**J H H3 q**	0.013	0.00062	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-104	ND	H H3	0.013	0.00051	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-105	**0.43**	**H H3 B G**	0.034	0.034	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-106	ND	H H3 G	0.030	0.030	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-107	**1.9**	**H H3 G**	0.029	0.029	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-108	ND	C H H3 G	0.033	0.033	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-109	**0.0093**	**J H H3 B C86 q**	0.075	0.00051	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-110	**0.017**	**J C H H3 B**	0.025	0.00041	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-111	**0.0038**	**J H H3**	0.013	0.00044	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-112	**0.0016**	**J H H3 q**	0.013	0.00039	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-113	**0.40**	**H H3 B C9**	0.038	0.00056	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-114	**1.3**	**H H3 G**	0.033	0.033	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-115	**0.017**	**J H H3 B C110**	0.025	0.00041	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-116	**0.69**	**H H3 C85**	0.038	0.00054	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-117	**0.69**	**H H3 C85**	0.038	0.00054	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-118	**24**	**H H3 B G**	0.030	0.030	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-119	**0.0093**	**J H H3 B C86 q**	0.075	0.00051	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-120	**0.012**	**J H H3**	0.013	0.00037	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-121	ND	H H3	0.013	0.00041	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-122	**0.063**	**H H3 G**	0.039	0.039	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-123	**0.88**	**H H3 G**	0.035	0.035	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-124	ND	H H3 C108 G	0.033	0.033	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-125	**0.0093**	**J H H3 B C86 q**	0.075	0.00051	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-126	ND	H H3 G	0.031	0.031	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-127	**0.079**	**H H3 G**	0.030	0.030	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-128	**0.29**	**C H H3 B**	0.025	0.0021	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-129	**6.0**	**C H H3 B**	0.050	0.0022	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-130	**0.20**	**H H3**	0.013	0.0030	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-131	ND	H H3	0.013	0.0027	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-132	**0.0030**	**J H H3 B q**	0.013	0.0026	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-133	**0.11**	**H H3**	0.013	0.0023	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-134	ND	C H H3	0.025	0.0027	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-135	**0.0050**	**J C H H3 B q**	0.025	0.000080	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-136	**0.0022**	**J H H3 B q**	0.013	0.000060	ng/g		01/14/22 12:40	02/09/22 09:19	1

Client Sample ID: 21L1002-02

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-12

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-137	3.1	H H3	0.013	0.0025	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-138	6.0	H H3 B C129	0.050	0.0022	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-139	0.012	J C H H3	0.025	0.0022	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-140	0.012	J H H3 C139	0.025	0.0022	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-141	0.055	H H3 B q	0.013	0.0024	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-142	ND	H H3	0.013	0.0026	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-143	ND	H C134 H3	0.025	0.0027	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-144	0.0014	J H H3	0.013	0.000080	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-145	ND	H H3	0.013	0.000054	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-146	3.0	H H3	0.013	0.0020	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-147	0.17	C H H3 B	0.025	0.0021	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-148	0.00028	J H H3	0.013	0.000078	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-149	0.17	H H3 B C147	0.025	0.0021	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-150	0.00034	J H H3 B q	0.013	0.000058	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-151	0.0050	J H C135 H3 B q	0.025	0.000080	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-152	ND	H H3	0.013	0.000051	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-153	12	C H H3 B	0.025	0.0018	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-154	0.00078	J H H3 q	0.013	0.000070	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-155	0.0029	J H H3	0.013	0.000063	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-156	6.1	C H H3 B	0.025	0.0022	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-157	6.1	H C156 H3 B	0.025	0.0022	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-158	ND	H H3	0.013	0.0017	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-159	ND	H H3	0.013	0.0015	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-160	6.0	H H3 B C129	0.050	0.0022	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-161	0.0060	J H H3 q	0.013	0.0017	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-162	0.16	H H3	0.013	0.0017	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-163	6.0	H H3 B C129	0.050	0.0022	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-164	0.022	H H3	0.013	0.0017	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-165	0.0029	J H H3	0.013	0.0020	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-166	0.29	C128 H H3 B	0.025	0.0021	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-167	2.3	H H3 B	0.013	0.0014	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-168	12	H H3 B C153	0.025	0.0018	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-169	ND	H H3	0.013	0.0016	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-170	0.58	H H3 B	0.013	0.00032	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-171	0.014	J C H H3 B	0.025	0.00030	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-172	0.065	H H3	0.013	0.00029	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-173	0.014	J H C171 H3 B	0.025	0.00030	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-174	0.0050	J H H3 B	0.013	0.00027	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-175	0.015	H H3 B	0.013	0.00029	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-176	ND	H H3	0.013	0.00022	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-177	0.082	H H3 B	0.013	0.00027	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-178	0.0087	J H H3 B	0.013	0.00029	ng/g		01/14/22 12:40	02/09/22 09:19	1

Client Sample ID: 21L1002-02

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-12

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-179	0.00085	J H H3 B q	0.013	0.00019	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-180	4.3	C H H3 B	0.025	0.00024	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-181	0.067	H H3	0.013	0.00026	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-182	0.0053	J H H3 q	0.013	0.00024	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-183	0.13	C H H3 B	0.025	0.00028	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-184	0.0042	J H H3	0.013	0.00020	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-185	0.13	H H3 B C183	0.025	0.00028	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-186	ND	H H3	0.013	0.00018	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-187	1.6	H H3 B	0.013	0.00024	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-188	0.0018	J H H3	0.013	0.00019	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-189	0.18	H H3	0.013	0.00086	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-190	0.19	H H3	0.013	0.00023	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-191	0.082	H H3	0.013	0.00022	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-192	ND	H H3	0.013	0.00019	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-193	4.3	C180 H H3 B	0.025	0.00024	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-194	0.17	H H3	0.013	0.00064	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-195	0.058	H H3 B	0.013	0.00072	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-196	0.079	H H3 B	0.013	0.00032	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-197	0.0013	J H H3 q	0.013	0.00023	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-198	0.10	C H H3 B	0.025	0.00029	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-199	0.10	H C198 H3 B	0.025	0.00029	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-200	0.00032	J H H3 q	0.013	0.00024	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-201	0.022	H H3	0.013	0.00025	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-202	0.0010	J H H3 q	0.013	0.00024	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-203	0.032	H H3	0.013	0.00025	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-204	ND	H H3	0.013	0.00022	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-205	0.0038	J H H3	0.013	0.00056	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-206	0.023	H H3	0.013	0.0020	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-207	0.0099	J H H3	0.013	0.0016	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-208	0.0088	J H H3	0.013	0.0015	ng/g		01/14/22 12:40	02/09/22 09:19	1
PCB-209	0.018	H H3 B	0.013	0.000063	ng/g		01/14/22 12:40	02/09/22 09:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*57*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-3L	*55*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-4L	*78*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-15L	*83*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-19L	*79*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-37L	*87*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-54L	*111*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-77L	*89*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-81L	*89*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-104L	*83*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-105L	*87*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-114L	*86*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-118L	*88*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-123L	*86*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*
PCB-126L	*86*		*30 - 140*	*01/14/22 12:40*	*02/09/22 09:19*	*1*

Client Sample ID: 21L1002-02

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00

Lab Sample ID: 140-25783-12

Matrix: Tissue

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-155L	91		30 - 140	01/14/22 12:40	02/09/22 09:19	1
PCB-156L	89	C	30 - 140	01/14/22 12:40	02/09/22 09:19	1
PCB-157L	89	C156	30 - 140	01/14/22 12:40	02/09/22 09:19	1
PCB-167L	88		30 - 140	01/14/22 12:40	02/09/22 09:19	1
PCB-169L	75		30 - 140	01/14/22 12:40	02/09/22 09:19	1
PCB-170L	85		30 - 140	01/14/22 12:40	02/09/22 09:19	1
PCB-188L	85		30 - 140	01/14/22 12:40	02/09/22 09:19	1
PCB-189L	109		30 - 140	01/14/22 12:40	02/09/22 09:19	1
PCB-202L	105		30 - 140	01/14/22 12:40	02/09/22 09:19	1
PCB-205L	86		30 - 140	01/14/22 12:40	02/09/22 09:19	1
PCB-206L	80		30 - 140	01/14/22 12:40	02/09/22 09:19	1
PCB-208L	100		30 - 140	01/14/22 12:40	02/09/22 09:19	1
PCB-209L	81		30 - 140	01/14/22 12:40	02/09/22 09:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	82		40 - 125	01/14/22 12:40	02/09/22 09:19	1
PCB-111L	97		40 - 125	01/14/22 12:40	02/09/22 09:19	1
PCB-178L	99		40 - 125	01/14/22 12:40	02/09/22 09:19	1

Default Detection Limits

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Prep: HRMS-Sox

Analyte	RL		Units
PCB-1	0.010		ng/g
PCB-10	0.010		ng/g
PCB-100	0.020		ng/g
PCB-101	0.030		ng/g
PCB-102	0.020		ng/g
PCB-103	0.010		ng/g
PCB-104	0.010		ng/g
PCB-105	0.010		ng/g
PCB-106	0.010		ng/g
PCB-107	0.010		ng/g
PCB-108	0.020		ng/g
PCB-109	0.060		ng/g
PCB-11	0.020		ng/g
PCB-110	0.020		ng/g
PCB-111	0.010		ng/g
PCB-112	0.010		ng/g
PCB-113	0.030		ng/g
PCB-114	0.010		ng/g
PCB-115	0.020		ng/g
PCB-116	0.030		ng/g
PCB-117	0.030		ng/g
PCB-118	0.010		ng/g
PCB-119	0.060		ng/g
PCB-12	0.020		ng/g
PCB-120	0.010		ng/g
PCB-121	0.010		ng/g
PCB-122	0.010		ng/g
PCB-123	0.010		ng/g
PCB-124	0.020		ng/g
PCB-125	0.060		ng/g
PCB-126	0.010		ng/g
PCB-127	0.010		ng/g
PCB-128	0.020		ng/g
PCB-129	0.040		ng/g
PCB-13	0.020		ng/g
PCB-130	0.010		ng/g
PCB-131	0.010		ng/g
PCB-132	0.010		ng/g
PCB-133	0.010		ng/g
PCB-134	0.020		ng/g
PCB-135	0.020		ng/g
PCB-136	0.010		ng/g
PCB-137	0.010		ng/g
PCB-138	0.040		ng/g
PCB-139	0.020		ng/g
PCB-14	0.010		ng/g
PCB-140	0.020		ng/g
PCB-141	0.010		ng/g
PCB-142	0.010		ng/g
PCB-143	0.020		ng/g
PCB-144	0.010		ng/g
PCB-145	0.010		ng/g

Default Detection Limits

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Prep: HRMS-Sox

Analyte	RL		Units
PCB-146	0.010		ng/g
PCB-147	0.020		ng/g
PCB-148	0.010		ng/g
PCB-149	0.020		ng/g
PCB-15	0.010		ng/g
PCB-150	0.010		ng/g
PCB-151	0.020		ng/g
PCB-152	0.010		ng/g
PCB-153	0.020		ng/g
PCB-154	0.010		ng/g
PCB-155	0.010		ng/g
PCB-156	0.020		ng/g
PCB-157	0.020		ng/g
PCB-158	0.010		ng/g
PCB-159	0.010		ng/g
PCB-16	0.010		ng/g
PCB-160	0.040		ng/g
PCB-161	0.010		ng/g
PCB-162	0.010		ng/g
PCB-163	0.040		ng/g
PCB-164	0.010		ng/g
PCB-165	0.010		ng/g
PCB-166	0.020		ng/g
PCB-167	0.010		ng/g
PCB-168	0.020		ng/g
PCB-169	0.010		ng/g
PCB-17	0.010		ng/g
PCB-170	0.010		ng/g
PCB-171	0.020		ng/g
PCB-172	0.010		ng/g
PCB-173	0.020		ng/g
PCB-174	0.010		ng/g
PCB-175	0.010		ng/g
PCB-176	0.010		ng/g
PCB-177	0.010		ng/g
PCB-178	0.010		ng/g
PCB-179	0.010		ng/g
PCB-18	0.020		ng/g
PCB-180	0.020		ng/g
PCB-181	0.010		ng/g
PCB-182	0.010		ng/g
PCB-183	0.020		ng/g
PCB-184	0.010		ng/g
PCB-185	0.020		ng/g
PCB-186	0.010		ng/g
PCB-187	0.010		ng/g
PCB-188	0.010		ng/g
PCB-189	0.010		ng/g
PCB-19	0.010		ng/g
PCB-190	0.010		ng/g
PCB-191	0.010		ng/g
PCB-192	0.010		ng/g

Default Detection Limits

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Prep: HRMS-Sox

Analyte	RL		Units
PCB-193	0.020		ng/g
PCB-194	0.010		ng/g
PCB-195	0.010		ng/g
PCB-196	0.010		ng/g
PCB-197	0.010		ng/g
PCB-198	0.020		ng/g
PCB-199	0.020		ng/g
PCB-2	0.010		ng/g
PCB-20	0.020		ng/g
PCB-200	0.010		ng/g
PCB-201	0.010		ng/g
PCB-202	0.010		ng/g
PCB-203	0.010		ng/g
PCB-204	0.010		ng/g
PCB-205	0.010		ng/g
PCB-206	0.010		ng/g
PCB-207	0.010		ng/g
PCB-208	0.010		ng/g
PCB-209	0.010		ng/g
PCB-21	0.020		ng/g
PCB-22	0.010		ng/g
PCB-23	0.010		ng/g
PCB-24	0.010		ng/g
PCB-25	0.010		ng/g
PCB-26	0.020		ng/g
PCB-27	0.010		ng/g
PCB-28	0.020		ng/g
PCB-29	0.020		ng/g
PCB-3	0.010		ng/g
PCB-30	0.020		ng/g
PCB-31	0.020		ng/g
PCB-32	0.010		ng/g
PCB-33	0.020		ng/g
PCB-34	0.010		ng/g
PCB-35	0.010		ng/g
PCB-36	0.010		ng/g
PCB-37	0.010		ng/g
PCB-38	0.010		ng/g
PCB-39	0.010		ng/g
PCB-4	0.020		ng/g
PCB-40	0.030		ng/g
PCB-41	0.030		ng/g
PCB-42	0.010		ng/g
PCB-43	0.020		ng/g
PCB-44	0.030		ng/g
PCB-45	0.020		ng/g
PCB-46	0.010		ng/g
PCB-47	0.030		ng/g
PCB-48	0.010		ng/g
PCB-49	0.020		ng/g
PCB-5	0.010		ng/g
PCB-50	0.020		ng/g

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Prep: HRMS-Sox

Analyte	RL		Units
PCB-51	0.020		ng/g
PCB-52	0.010		ng/g
PCB-53	0.020		ng/g
PCB-54	0.010		ng/g
PCB-55	0.010		ng/g
PCB-56	0.010		ng/g
PCB-57	0.010		ng/g
PCB-58	0.010		ng/g
PCB-59	0.030		ng/g
PCB-6	0.010		ng/g
PCB-60	0.010		ng/g
PCB-61	0.040		ng/g
PCB-62	0.030		ng/g
PCB-63	0.010		ng/g
PCB-64	0.010		ng/g
PCB-65	0.030		ng/g
PCB-66	0.010		ng/g
PCB-67	0.010		ng/g
PCB-68	0.010		ng/g
PCB-69	0.020		ng/g
PCB-7	0.010		ng/g
PCB-70	0.040		ng/g
PCB-71	0.030		ng/g
PCB-72	0.010		ng/g
PCB-73	0.020		ng/g
PCB-74	0.040		ng/g
PCB-75	0.030		ng/g
PCB-76	0.040		ng/g
PCB-77	0.010		ng/g
PCB-78	0.010		ng/g
PCB-79	0.010		ng/g
PCB-8	0.020		ng/g
PCB-80	0.010		ng/g
PCB-81	0.010		ng/g
PCB-82	0.010		ng/g
PCB-83	0.020		ng/g
PCB-84	0.010		ng/g
PCB-85	0.030		ng/g
PCB-86	0.060		ng/g
PCB-87	0.060		ng/g
PCB-88	0.020		ng/g
PCB-89	0.010		ng/g
PCB-9	0.010		ng/g
PCB-90	0.030		ng/g
PCB-91	0.020		ng/g
PCB-92	0.010		ng/g
PCB-93	0.020		ng/g
PCB-94	0.010		ng/g
PCB-95	0.010		ng/g
PCB-96	0.010		ng/g
PCB-97	0.060		ng/g
PCB-98	0.020		ng/g

Default Detection Limits

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Prep: HRMS-Sox

Analyte	RL		Units
PCB-99	0.020		ng/g

Surrogate Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Tissue **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	**Client Sample ID**	**PCB28L (40-125)**	**PCB111L (40-125)**	**PCB178L (40-125)**
140-25783-1	21L0905-01	66	97	96
140-25783-2	21L0905-02	68	97	94
140-25783-3	21L0907-01	78	97	98
140-25783-4	21L0907-02	77	98	100
140-25783-5	21L0908-01	23 S1-	25 S1-	25 S1-
140-25783-6	21L0908-02	78	97	99
140-25783-7	21L1001-01	83	93	93
140-25783-8	21L1001-02	81	95	94
140-25783-9	21L0909-01	75	98	100
140-25783-10	21L0909-02	81	102	100
140-25783-11	21L1002-01	86	95	97
140-25783-12	21L1002-02	82	97	99
LCS 140-57903/18-B	Lab Control Sample	90	102	104
MB 140-57903/17-B	Method Blank	86	98	99

Surrogate Legend

PCB28L = PCB-28L
PCB111L = PCB-111L
PCB178L = PCB-178L

Isotope Dilution Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Tissue **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB1L (30-140)	PCB3L (30-140)	PCB4L (30-140)	PCB15L (30-140)	PCB19L (30-140)	PCB37L (30-140)	PCB54L (30-140)	PCB77L (30-140)
140-25783-1	21L0905-01	57	57	76	85	77	90	107	90
140-25783-2	21L0905-02	59	59	78	87	79	89	108	89
140-25783-3	21L0907-01	59	58	79	86	84	87	114	86
140-25783-4	21L0907-02	58	57	80	84	80	89	111	89
140-25783-5	21L0908-01	15 *5-	15 *5-	20 *5-	21 *5-	20 *5-	22 *5-	27 *5-	23 *5-
140-25783-6	21L0908-02	58	53	78	82	79	85	108	86
140-25783-7	21L1001-01	55	54	75	77	71	79	101	81
140-25783-8	21L1001-02	55	53	76	81	79	81	112	85
140-25783-9	21L0909-01	56	59	75	84	79	90	112	85
140-25783-10	21L0909-02	59	56	79	86	81	89	114	90
140-25783-11	21L1002-01	53	49	75	80	76	82	108	86
140-25783-12	21L1002-02	57	55	78	83	79	87	111	89
LCS 140-57903/18-B	Lab Control Sample	61	67	77	85	78	86	106	89
MB 140-57903/17-B	Method Blank	61	64	76	82	73	83	97	88

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB81L (30-140)	PCB104L (30-140)	PCB105L (30-140)	P114L (30-140)	PCB118L (30-140)	PCB123L (30-140)	PCB126L (30-140)	PCB155L (30-140)
140-25783-1	21L0905-01	89	83	88	86	87	87	87	98
140-25783-2	21L0905-02	88	84	91	89	91	89	89	98
140-25783-3	21L0907-01	87	83	90	87	90	88	88	93
140-25783-4	21L0907-02	89	87	92	89	90	90	91	97
140-25783-5	21L0908-01	22 *5-	21 *5-	22 *5-	22 *5-	22 *5-	22 *5-	22 *5-	24 *5-
140-25783-6	21L0908-02	87	83	87	85	87	85	87	93
140-25783-7	21L1001-01	80	78	83	83	82	84	83	88
140-25783-8	21L1001-02	84	81	88	80	85	83	83	88
140-25783-9	21L0909-01	86	88	89	87	89	88	90	99
140-25783-10	21L0909-02	89	88	90	89	89	89	91	98
140-25783-11	21L1002-01	81	82	89	87	87	83	87	91
140-25783-12	21L1002-02	89	83	87	86	88	86	86	91
LCS 140-57903/18-B	Lab Control Sample	87	85	91	88	89	90	89	93
MB 140-57903/17-B	Method Blank	85	80	89	83	86	85	87	90

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB156L (30-140)	PCB157L (30-140)	PCB167L (30-140)	PCB169L (30-140)	PCB170L (30-140)	PCB188L (30-140)	PCB189L (30-140)	PCB202L (30-140)
140-25783-1	21L0905-01	89 C	89 C156	90	84	89	86	116	109
140-25783-2	21L0905-02	90 C	90 C156	90	83	90	86	113	106
140-25783-3	21L0907-01	87 C	87 C156	87	83	87	85	110	107
140-25783-4	21L0907-02	91 C	91 C156	90	82	90	87	112	111
140-25783-5	21L0908-01	22 C *5-	22 C156 *5-	22 *5-	22 *5-	24 *5-	22 *5-	25 *5-	28 *5-
140-25783-6	21L0908-02	87 C	87 C156	86	80	89	84	109	108
140-25783-7	21L1001-01	81 C	81 C156	82	78	86	78	94	98
140-25783-8	21L1001-02	84 C	84 C156	83	85	82	80	97	100
140-25783-9	21L0909-01	89 C	89 C156	89	78	87	88	113	110
140-25783-10	21L0909-02	91 C	91 C156	91	86	91	88	113	108
140-25783-11	21L1002-01	88 C	88 C156	87	84	88	83	100	105
140-25783-12	21L1002-02	89 C	89 C156	88	75	85	85	109	105
LCS 140-57903/18-B	Lab Control Sample	89 C	89 C156	90	88	90	85	99	109
MB 140-57903/17-B	Method Blank	89 C	89 C156	90	87	90	83	99	110

Isotope Dilution Summary

Client: U.S. Army Corps of Engineers
Job ID: 140-25783-1
Project/Site: USACE ERDC PCB Congeners

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Matrix: Tissue **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	PCB205L (30-140)	PCB206L (30-140)	PCB208L (30-140)	PCB209L (30-140)
140-25783-1	21L0905-01	86	85	106	91
140-25783-2	21L0905-02	86	84	103	88
140-25783-3	21L0907-01	86	83	100	83
140-25783-4	21L0907-02	88	86	102	84
140-25783-5	21L0908-01	22 *5-	21 *5-	23 *5-	19 *5-
140-25783-6	21L0908-02	88	82	102	83
140-25783-7	21L1001-01	79	73	86	70
140-25783-8	21L1001-02	81	77	91	78
140-25783-9	21L0909-01	87	83	103	87
140-25783-10	21L0909-02	91	86	106	83
140-25783-11	21L1002-01	84	79	95	75
140-25783-12	21L1002-02	86	80	100	81
LCS 140-57903/18-B	Lab Control Sample	87	83	91	84
MB 140-57903/17-B	Method Blank	88	84	91	83

Surrogate Legend

PCB1L = PCB-1L
PCB3L = PCB-3L
PCB4L = PCB-4L
PCB15L = PCB-15L
PCB19L = PCB-19L
PCB37L = PCB-37L
PCB54L = PCB-54L
PCB77L = PCB-77L
PCB81L = PCB-81L
PCB104L = PCB-104L
PCB105L = PCB-105L
P114L = PCB-114L
PCB118L = PCB-118L
PCB123L = PCB-123L
PCB126L = PCB-126L
PCB155L = PCB-155L
PCB156L = PCB-156L
PCB157L = PCB-157L
PCB167L = PCB-167L
PCB169L = PCB-169L
PCB170L = PCB-170L
PCB188L = PCB-188L
PCB189L = PCB-189L
PCB202L = PCB-202L
PCB205L = PCB-205L
PCB206L = PCB-206L
PCB208L = PCB-208L
PCB209L = PCB-209L

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 140-57903/17-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57903

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	0.000557	J q	0.010	0.00011	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-2	ND		0.010	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-3	ND		0.010	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-4	0.000607	J q	0.020	0.00019	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-5	ND		0.010	0.00017	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-6	ND		0.010	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-7	ND		0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-8	0.000963	J	0.020	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-9	ND		0.010	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-10	ND		0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-11	0.00493	J	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-12	ND	C	0.020	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-13	ND	C12	0.020	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-14	ND		0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-15	0.000621	J	0.010	0.00015	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-16	0.000374	J q	0.010	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-17	ND		0.010	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-18	0.000813	J q C	0.020	0.000093	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-19	0.000361	J q	0.010	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-20	0.00122	J C	0.020	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-21	0.000901	J C	0.020	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-22	0.000532	J	0.010	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-23	ND		0.010	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-24	ND		0.010	0.000093	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-25	ND		0.010	0.00011	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-26	ND	C	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-27	ND		0.010	0.000096	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-28	0.00122	J C20	0.020	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-29	ND	C26	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-30	0.000813	J q C18	0.020	0.000093	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-31	0.000715	J q	0.020	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-32	0.000584	J q	0.010	0.000084	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-33	0.000901	J C21	0.020	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-34	ND		0.010	0.00015	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-35	0.000288	J q	0.010	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-36	ND		0.010	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-37	0.000590	J	0.010	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-38	ND		0.010	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-39	ND		0.010	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-40	ND	C	0.030	0.00053	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-41	ND	C40	0.030	0.00053	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-42	ND		0.010	0.00057	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-43	ND	C	0.020	0.00044	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-44	0.00161	J C	0.030	0.00045	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-45	ND	C	0.020	0.00057	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-46	ND		0.010	0.00066	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-47	0.00161	J C44	0.030	0.00045	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-48	ND		0.010	0.00054	ng/g		01/14/22 12:40	02/07/22 03:51	1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57903/17-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57903

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-49	ND	C	0.020	0.00045	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-50	ND	C	0.020	0.00050	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-51	ND	C45	0.020	0.00057	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-52	0.000806	J q	0.010	0.00048	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-53	ND	C50	0.020	0.00050	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-54	ND		0.010	0.00010	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-55	ND		0.010	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-56	ND		0.010	0.00035	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-57	ND		0.010	0.00037	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-58	ND		0.010	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-59	ND	C	0.030	0.00040	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-60	ND		0.010	0.00042	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-61	0.00124	J q C	0.040	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-62	ND	C59	0.030	0.00040	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-63	ND		0.010	0.00039	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-64	0.000460	J q	0.010	0.00039	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-65	0.00161	J C44	0.030	0.00045	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-66	ND		0.010	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-67	ND		0.010	0.00032	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-68	ND		0.010	0.00037	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-69	ND	C49	0.020	0.00045	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-70	0.00124	J q C61	0.040	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-71	ND	C40	0.030	0.00053	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-72	ND		0.010	0.00035	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-73	ND	C43	0.020	0.00044	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-74	0.00124	J q C61	0.040	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-75	ND	C59	0.030	0.00040	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-76	0.00124	J q C61	0.040	0.00034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-77	ND		0.010	0.00038	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-78	ND		0.010	0.00035	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-79	ND		0.010	0.00029	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-80	ND		0.010	0.00036	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-81	ND		0.010	0.00043	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-82	ND		0.010	0.00015	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-83	0.000535	J q C	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-84	ND		0.010	0.00018	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-85	ND	C	0.030	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-86	0.000667	J q C	0.060	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-87	0.000667	J q C86	0.060	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-88	ND	C	0.020	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-89	0.000287	J q	0.010	0.00015	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-90	0.000918	J q C	0.030	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-91	ND	C88	0.020	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-92	ND		0.010	0.00017	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-93	ND	C	0.020	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-94	ND		0.010	0.00018	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-95	0.000892	J	0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-96	ND		0.010	0.00011	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-97	0.000667	J q C86	0.060	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57903/17-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57903

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-98	ND	C	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-99	0.000535	J q C83	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-100	ND	C93	0.020	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-101	0.000918	J q C90	0.030	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-102	ND	C98	0.020	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-103	ND		0.010	0.00015	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-104	ND		0.010	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-105	0.000780	J	0.010	0.00017	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-106	ND		0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-107	ND		0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-108	ND	C	0.020	0.00018	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-109	0.000667	J q C86	0.060	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-110	0.00104	J q C	0.020	0.000098	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-111	ND		0.010	0.00011	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-112	ND		0.010	0.000094	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-113	0.000918	J q C90	0.030	0.00014	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-114	ND		0.010	0.00018	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-115	0.00104	J q C110	0.020	0.000098	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-116	ND	C85	0.030	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-117	ND	C85	0.030	0.00013	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-118	0.00150	J	0.010	0.00017	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-119	0.000667	J q C86	0.060	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-120	ND		0.010	0.000088	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-121	ND		0.010	0.000099	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-122	ND		0.010	0.00021	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-123	ND		0.010	0.00019	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-124	ND	C108	0.020	0.00018	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-125	0.000667	J q C86	0.060	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-126	ND		0.010	0.00017	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-127	ND		0.010	0.00016	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-128	0.000303	J q C	0.020	0.000077	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-129	0.00155	J C	0.040	0.000081	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-130	ND		0.010	0.00011	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-131	ND		0.010	0.00010	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-132	0.000471	J	0.010	0.000096	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-133	ND		0.010	0.000086	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-134	ND	C	0.020	0.00010	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-135	0.000628	J C	0.020	0.000041	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-136	0.000213	J q	0.010	0.000031	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-137	ND		0.010	0.000093	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-138	0.00155	J C129	0.040	0.000081	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-139	ND	C	0.020	0.000083	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-140	ND	C139	0.020	0.000083	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-141	0.000272	J q	0.010	0.000090	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-142	ND		0.010	0.000098	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-143	ND	C134	0.020	0.00010	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-144	ND		0.010	0.000041	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-145	ND		0.010	0.000028	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-146	ND		0.010	0.000074	ng/g		01/14/22 12:40	02/07/22 03:51	1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57903/17-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57903

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-147	0.000802	J q C	0.020	0.000079	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-148	ND		0.010	0.000040	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-149	0.000802	J q C147	0.020	0.000079	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-150	0.0000752	J q	0.010	0.000030	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-151	0.000628	J C135	0.020	0.000041	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-152	ND		0.010	0.000026	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-153	0.00121	J C	0.020	0.000069	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-154	ND		0.010	0.000036	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-155	ND		0.010	0.000032	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-156	0.000308	J q C	0.020	0.000088	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-157	0.000308	J q C156	0.020	0.000088	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-158	0.000150	J	0.010	0.000065	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-159	ND		0.010	0.000056	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-160	0.00155	J C129	0.040	0.000081	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-161	ND		0.010	0.000062	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-162	ND		0.010	0.000062	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-163	0.00155	J C129	0.040	0.000081	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-164	ND		0.010	0.000065	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-165	ND		0.010	0.000075	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-166	0.000303	J q C128	0.020	0.000077	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-167	0.000194	J	0.010	0.000053	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-168	0.00121	J C153	0.020	0.000069	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-169	ND		0.010	0.000051	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-170	0.000688	J	0.010	0.000049	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-171	0.000328	J C	0.020	0.000049	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-172	ND		0.010	0.000048	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-173	0.000328	J C171	0.020	0.000049	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-174	0.000680	J	0.010	0.000044	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-175	0.0000669	J q	0.010	0.000048	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-176	0.000193	J q	0.010	0.000036	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-177	0.000350	J q	0.010	0.000044	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-178	0.000167	J q	0.010	0.000048	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-179	0.000148	J q	0.010	0.000031	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-180	0.00135	J C	0.020	0.000039	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-181	ND		0.010	0.000042	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-182	ND		0.010	0.000040	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-183	0.00108	J C	0.020	0.000046	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-184	ND		0.010	0.000033	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-185	0.00108	J C183	0.020	0.000046	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-186	0.0000518	J	0.010	0.000030	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-187	0.000621	J q	0.010	0.000039	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-188	ND		0.010	0.000034	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-189	ND		0.010	0.00012	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-190	ND		0.010	0.000037	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-191	ND		0.010	0.000036	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-192	0.0000789	J q	0.010	0.000032	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-193	0.00135	J C180	0.020	0.000039	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-194	ND		0.010	0.000081	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-195	0.000258	J q	0.010	0.000091	ng/g		01/14/22 12:40	02/07/22 03:51	1

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57903/17-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57903

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-196	0.000424	J	0.010	0.000035	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-197	ND		0.010	0.000025	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-198	0.000309	J C	0.020	0.000031	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-199	0.000309	J C198	0.020	0.000031	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-200	ND		0.010	0.000027	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-201	ND		0.010	0.000028	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-202	ND		0.010	0.000026	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-203	ND		0.010	0.000028	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-204	0.0000702	J q	0.010	0.000024	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-205	ND		0.010	0.000072	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-206	ND		0.010	0.00064	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-207	ND		0.010	0.00055	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-208	ND		0.010	0.00054	ng/g		01/14/22 12:40	02/07/22 03:51	1
PCB-209	0.00141	J q	0.010	0.000055	ng/g		01/14/22 12:40	02/07/22 03:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*61*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-3L	*64*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-4L	*76*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-15L	*82*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-19L	*73*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-37L	*83*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-54L	*97*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-77L	*88*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-81L	*85*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-104L	*80*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-105L	*89*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-114L	*83*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-118L	*86*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-123L	*85*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-126L	*87*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-155L	*90*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-156L	*89*	*C*	*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-157L	*89*	*C156*	*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-167L	*90*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-169L	*87*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-170L	*90*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-188L	*83*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-189L	*99*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-202L	*110*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-205L	*88*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-206L	*84*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-208L	*91*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-209L	*83*		*30 - 140*	*01/14/22 12:40*	*02/07/22 03:51*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*86*		*40 - 125*	*01/14/22 12:40*	*02/07/22 03:51*	*1*
PCB-111L	*98*		*40 - 125*	*01/14/22 12:40*	*02/07/22 03:51*	*1*

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 140-57903/17-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57903

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-178L	99		40 - 125	01/14/22 12:40	02/07/22 03:51	1

Lab Sample ID: LCS 140-57903/18-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	0.500	0.521		ng/g		104	48 - 136
PCB-3	0.500	0.502		ng/g		100	58 - 137
PCB-4	0.500	0.473		ng/g		95	57 - 140
PCB-15	0.500	0.476		ng/g		95	64 - 148
PCB-19	0.500	0.548		ng/g		110	74 - 125
PCB-37	0.500	0.533		ng/g		107	61 - 148
PCB-54	0.500	0.491		ng/g		98	67 - 124
PCB-77	0.500	0.487		ng/g		97	75 - 118
PCB-81	0.500	0.513		ng/g		103	78 - 124
PCB-104	0.500	0.473		ng/g		95	81 - 118
PCB-105	0.500	0.528		ng/g		106	84 - 127
PCB-114	0.500	0.518		ng/g		104	87 - 124
PCB-118	0.500	0.530		ng/g		106	79 - 137
PCB-123	0.500	0.550		ng/g		110	81 - 134
PCB-126	0.500	0.529		ng/g		106	79 - 123
PCB-155	0.500	0.526		ng/g		105	76 - 121
PCB-156	1.00	1.02	C	ng/g		102	84 - 125
PCB-157	1.00	1.02	C156	ng/g		102	
PCB-167	0.500	0.498		ng/g		100	82 - 132
PCB-169	0.500	0.502		ng/g		100	77 - 121
PCB-188	0.500	0.495		ng/g		99	78 - 117
PCB-189	0.500	0.544		ng/g		109	85 - 119
PCB-202	0.500	0.491		ng/g		98	76 - 118
PCB-205	0.500	0.530		ng/g		106	72 - 128
PCB-206	0.500	0.491		ng/g		98	74 - 121
PCB-208	0.500	0.504		ng/g		101	80 - 120
PCB-209	0.500	0.487		ng/g		97	83 - 133

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-1L	61		30 - 140
PCB-3L	67		30 - 140
PCB-4L	77		30 - 140
PCB-15L	85		30 - 140
PCB-19L	78		30 - 140
PCB-37L	86		30 - 140
PCB-54L	106		30 - 140
PCB-77L	89		30 - 140
PCB-81L	87		30 - 140
PCB-104L	85		30 - 140
PCB-105L	91		30 - 140
PCB-114L	88		30 - 140

Method: 1668A - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 140-57903/18-B
Matrix: Tissue
Analysis Batch: 58634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57903

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-118L	89		30 - 140
PCB-123L	90		30 - 140
PCB-126L	89		30 - 140
PCB-155L	93		30 - 140
PCB-156L	89	C	30 - 140
PCB-157L	89	C156	30 - 140
PCB-167L	90		30 - 140
PCB-169L	88		30 - 140
PCB-170L	90		30 - 140
PCB-188L	85		30 - 140
PCB-189L	99		30 - 140
PCB-202L	109		30 - 140
PCB-205L	87		30 - 140
PCB-206L	83		30 - 140
PCB-208L	91		30 - 140
PCB-209L	84		30 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
PCB-28L	90		40 - 125
PCB-111L	102		40 - 125
PCB-178L	104		40 - 125

QC Association Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Specialty Organics

Prep Batch: 57903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25783-1	21L0905-01	Total/NA	Tissue	HRMS-Sox	
140-25783-2	21L0905-02	Total/NA	Tissue	HRMS-Sox	
140-25783-3	21L0907-01	Total/NA	Tissue	HRMS-Sox	
140-25783-4	21L0907-02	Total/NA	Tissue	HRMS-Sox	
140-25783-5	21L0908-01	Total/NA	Tissue	HRMS-Sox	
140-25783-6	21L0908-02	Total/NA	Tissue	HRMS-Sox	
140-25783-7	21L1001-01	Total/NA	Tissue	HRMS-Sox	
140-25783-8	21L1001-02	Total/NA	Tissue	HRMS-Sox	
140-25783-9	21L0909-01	Total/NA	Tissue	HRMS-Sox	
140-25783-10	21L0909-02	Total/NA	Tissue	HRMS-Sox	
140-25783-11	21L1002-01	Total/NA	Tissue	HRMS-Sox	
140-25783-12	21L1002-02	Total/NA	Tissue	HRMS-Sox	
MB 140-57903/17-B	Method Blank	Total/NA	Tissue	HRMS-Sox	
LCS 140-57903/18-B	Lab Control Sample	Total/NA	Tissue	HRMS-Sox	

Cleanup Batch: 58125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25783-1	21L0905-01	Total/NA	Tissue	Split	57903
140-25783-2	21L0905-02	Total/NA	Tissue	Split	57903
140-25783-3	21L0907-01	Total/NA	Tissue	Split	57903
140-25783-4	21L0907-02	Total/NA	Tissue	Split	57903
140-25783-5	21L0908-01	Total/NA	Tissue	Split	57903
140-25783-6	21L0908-02	Total/NA	Tissue	Split	57903
140-25783-7	21L1001-01	Total/NA	Tissue	Split	57903
140-25783-8	21L1001-02	Total/NA	Tissue	Split	57903
140-25783-9	21L0909-01	Total/NA	Tissue	Split	57903
140-25783-10	21L0909-02	Total/NA	Tissue	Split	57903
140-25783-11	21L1002-01	Total/NA	Tissue	Split	57903
140-25783-12	21L1002-02	Total/NA	Tissue	Split	57903
MB 140-57903/17-B	Method Blank	Total/NA	Tissue	Split	57903
LCS 140-57903/18-B	Lab Control Sample	Total/NA	Tissue	Split	57903

Analysis Batch: 58634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 140-57903/17-B	Method Blank	Total/NA	Tissue	1668A	58125
LCS 140-57903/18-B	Lab Control Sample	Total/NA	Tissue	1668A	58125

Analysis Batch: 58643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25783-1	21L0905-01	Total/NA	Tissue	1668A	58125

Analysis Batch: 58660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25783-2	21L0905-02	Total/NA	Tissue	1668A	58125
140-25783-3	21L0907-01	Total/NA	Tissue	1668A	58125
140-25783-4	21L0907-02	Total/NA	Tissue	1668A	58125
140-25783-5	21L0908-01	Total/NA	Tissue	1668A	58125
140-25783-6	21L0908-02	Total/NA	Tissue	1668A	58125

QC Association Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Specialty Organics

Analysis Batch: 58670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25783-7	21L1001-01	Total/NA	Tissue	1668A	58125
140-25783-9	21L0909-01	Total/NA	Tissue	1668A	58125

Analysis Batch: 58698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-25783-8	21L1001-02	Total/NA	Tissue	1668A	58125
140-25783-10	21L0909-02	Total/NA	Tissue	1668A	58125
140-25783-11	21L1002-01	Total/NA	Tissue	1668A	58125
140-25783-12	21L1002-02	Total/NA	Tissue	1668A	58125

Lab Chronicle

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L0905-01 — Lab Sample ID: 140-25783-1

Date Collected: 08/24/20 10:51 — **Matrix: Tissue**
Date Received: 12/16/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			2.02 g	10 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	100 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		1			58643	02/07/22 14:00	KBL	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0905-02 — Lab Sample ID: 140-25783-2

Date Collected: 08/24/20 14:00 — **Matrix: Tissue**
Date Received: 12/16/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			2.07 g	10 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	100 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		1			58660	02/08/22 01:21	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0907-01 — Lab Sample ID: 140-25783-3

Date Collected: 11/12/20 12:00 — **Matrix: Tissue**
Date Received: 12/16/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			2.00 g	10 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	100 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		1			58660	02/08/22 02:23	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0907-02 — Lab Sample ID: 140-25783-4

Date Collected: 09/25/20 12:00 — **Matrix: Tissue**
Date Received: 12/16/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			2.02 g	10 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	100 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		1			58660	02/08/22 03:26	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0908-01 — Lab Sample ID: 140-25783-5

Date Collected: 11/10/20 12:00 — **Matrix: Tissue**
Date Received: 12/16/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			2.02 g	10 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	100 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		1			58660	02/08/22 04:28	PMP	TAL KNX
	Instrument ID:	D4D								

Lab Chronicle

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L0908-02 — Lab Sample ID: 140-25783-6

Date Collected: 11/10/20 12:00
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			2.00 g	10 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	100 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		1			58660	02/08/22 05:30	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L1001-01 — Lab Sample ID: 140-25783-7

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.06 g	20 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	50 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		5			58670	02/08/22 13:11	KBL	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L1001-02 — Lab Sample ID: 140-25783-8

Date Collected: 09/09/20 12:00
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.00 g	20 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	50 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		5			58698	02/09/22 06:12	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0909-01 — Lab Sample ID: 140-25783-9

Date Collected: 11/16/20 12:00
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			3.79 g	20 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	50 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		1			58670	02/08/22 15:16	KBL	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L0909-02 — Lab Sample ID: 140-25783-10

Date Collected: 09/25/20 12:00
Date Received: 12/16/21 10:00
Matrix: Tissue

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			2.05 g	10 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	100 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		1			58698	02/09/22 07:15	PMP	TAL KNX
	Instrument ID:	D4D								

Lab Chronicle

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Client Sample ID: 21L1002-01

Lab Sample ID: 140-25783-11
Date Collected: 09/09/20 12:00
Matrix: Tissue
Date Received: 12/16/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.03 g	20 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	50 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		5			58698	02/09/22 08:17	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: 21L1002-02

Lab Sample ID: 140-25783-12
Date Collected: 09/09/20 12:00
Matrix: Tissue
Date Received: 12/16/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			7.96 g	20 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	50 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		1			58698	02/09/22 09:19	PMP	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: Method Blank

Lab Sample ID: MB 140-57903/17-B
Date Collected: N/A
Matrix: Tissue
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10 g	20 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	50 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		1			58634	02/07/22 03:51	LKM	TAL KNX
	Instrument ID:	D4D								

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 140-57903/18-B
Date Collected: N/A
Matrix: Tissue
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10 g	20 mL	57903	01/14/22 12:40	CLI	TAL KNX
Total/NA	Cleanup	Split			10 mL	50 uL	58125	01/22/22 10:43	CAC	TAL KNX
Total/NA	Analysis	1668A		1			58634	02/07/22 00:46	LKM	TAL KNX
	Instrument ID:	D4D								

Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Laboratory: Eurofins Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-25
ANAB	Dept. of Energy	L2311.01	02-13-25
ANAB	ISO/IEC 17025	L2311	02-13-25
Arkansas DEQ	State	88-0688	06-17-22
California	State	2423	06-30-22
Colorado	State	TN00009	02-28-22
Connecticut	State	PH-0223	09-30-23
Florida	NELAP	E87177	06-30-22
Georgia (DW)	State	906	12-11-22
Hawaii	State	NA	12-11-22
Kansas	NELAP	E-10349	10-31-22
Kentucky (DW)	State	90101	12-31-22
Louisiana	NELAP	83979	06-30-22
Louisiana (DW)	State	LA019	12-31-22
Maryland	State	277	03-31-22
Michigan	State	9933	12-11-22
Nevada	State	TN00009	07-31-22
New Hampshire	NELAP	299919	01-17-23
New Jersey	NELAP	TN001	06-30-22
New York	NELAP	10781	03-31-22
North Carolina (DW)	State	21705	07-31-22
North Carolina (WW/SW)	State	64	12-31-22
Ohio VAP	State	CL0059	06-02-23
Oklahoma	State	9415	08-31-22
Oregon	NELAP	TNI0189	12-31-22
Pennsylvania	NELAP	68-00576	12-31-22
Tennessee	State	02014	12-11-22
Texas	NELAP	T104704380-18-12	08-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-19-00236	08-20-22
Utah	NELAP	TN00009	07-31-22
Virginia	NELAP	460176	09-14-22
Washington	State	C593	01-19-23
West Virginia (DW)	State	9955C	12-31-22
West Virginia DEP	State	345	04-30-22
Wisconsin	State	998044300	08-31-22

Method Summary

Client: U.S. Army Corps of Engineers
Project/Site: USACE ERDC PCB Congeners

Job ID: 140-25783-1

Method	Method Description	Protocol	Laboratory
1668A	Chlorinated Biphenyl Congeners (HRGC/HRMS)	EPA	TAL KNX
HRMS-Sox	Soxhlet Extraction	EPA	TAL KNX
Split	Split Factor Determination	None	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

SUBCONTRACT ORDER

ERDC-EL-EP-C

21L0905-02-Quote:14006513. Please bill Paul Henige at APPL

SENDING LABORATORY:

ERDC-EL-EP-C
3909 Halls Ferry Road , Building 3299
Vicksburg, MS 39180
Phone: 601-634-7431
Fax: 601-619-5138
Project Manager: Jenifer Milam Netchaev

RECEIVING LABORATORY:

Eurofins TestAmerica Knoxville--APPL
5815 Middlebrook Pike
Knoxville, TN 37921
Phone :(865) 291-3000
Fax:

* Samples have been Homogenized *

Bill UFC Delivery Order ID: Quote:14006513. Please bill

Analysis		Due	Expires	Comments
Sample Name: SB1017				
Sample ID: 21L0905-01	**Tissue**	**Sampled:**	**24-Aug-2020 10:51**	
PCB 209 Congeners		07-Jan-2022 00:00	03-Oct-2020 10:51	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:				
Sample Name: SB2003				
Sample ID: 21L0905-02	**Tissue**	**Sampled:**	**24-Aug-2020 14:00**	
PCB 209 Congeners		07-Jan-2022 00:00	03-Oct-2020 14:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:				

140-25783 Chain of Custody

Released By	Date	Received By	Date
Summer Nash	12/15/2021		
	12/13/2021	[illegible] ETA KNX	12-16-21 10:00

Released By	Date	Received By	Date

Page 1 of 1

SUBCONTRACT ORDER

ERDC-EL-EP-C

21L0907-02-Quote:14006513. Please bill Paul Henige at APPL

SENDING LABORATORY:

ERDC-EL-EP-C
3909 Halls Ferry Road , Building 3299
Vicksburg, MS 39180
Phone: 601-634-7431
Fax: 601-619-5138
Project Manager: Jenifer Milam Netchaev

RECEIVING LABORATORY:

Eurofins TestAmerica Knoxville--APPL
5815 Middlebrook Pike
Knoxville, TN 37921
Phone :(865) 291-3000
Fax:

* Samples have been Homogenized *

Bill UFC Delivery Order ID: Quote:14006513. Please bill

Analysis		Due	Expires	Comments
Sample Name: B1-12NOV2020-F-1				
Sample ID: 21L0907-01	**Tissue**	**Sampled:**	**12-Nov-2020 12:00**	
PCB 209 Congeners		07-Jan-2022 00:00	22-Dec-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:				
Sample Name: BI-25SEP20-DU10-4				
Sample ID: 21L0907-02	**Tissue**	**Sampled:**	**25-Sep-2020 12:00**	
PCB 209 Congeners		07-Jan-2022 00:00	04-Nov-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:				

Released By	Date	Received By	Date
Summer Nash	12/15/2021 ~~12/13/2021~~	[illegible] ETA-KNX	12-16-21 10:00

Page 1 of 1

SUBCONTRACT ORDER

ERDC-EL-EP-C

21L0908-02-Quote:14006513. Please bill Paul Henige at APPL

SENDING LABORATORY:

ERDC-EL-EP-C
3909 Halls Ferry Road , Building 3299
Vicksburg, MS 39180
Phone: 601-634-7431
Fax: 601-619-5138
Project Manager: Jenifer Milam Netchaev

RECEIVING LABORATORY:

Eurofins TestAmerica Knoxville--APPL
5815 Middlebrook Pike
Knoxville, TN 37921
Phone :(865) 291-3000
Fax:

* Samples have been Homogenized *

Bill UFC Delivery Order ID: Quote:14006513. Please bill

Analysis		Due	Expires	Comments
Sample Name: B1-10NOV2020-E-3				
Sample ID: 21L0908-01	**Tissue**	**Sampled:**	**10-Nov-2020 12:00**	
PCB 209 Congeners		07-Jan-2022 00:00	20-Dec-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:				
Sample Name: B1-10NOV2020-E-2				
Sample ID: 21L0908-02	**Tissue**	**Sampled:**	**10-Nov-2020 12:00**	
PCB 209 Congeners		07-Jan-2022 00:00	20-Dec-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:				

Released By	Date	Received By	Date
Summer Nash	12/15/2021 ~~12/13/2021~~	[illegible] ETA KNX	12-16-21 10:00

Page 1 of 1

SUBCONTRACT ORDER

ERDC-EL-EP-C

21L1001-02-Quote:14006513. Please bill Paul Henige at APPL

SENDING LABORATORY:

ERDC-EL-EP-C
3909 Halls Ferry Road , Building 3299
Vicksburg, MS 39180
Phone: 601-634-7431
Fax: 601-619-5138
Project Manager: Jenifer Milam Netchaev

RECEIVING LABORATORY:

Eurofins TestAmerica Knoxville--APPL
5815 Middlebrook Pike
Knoxville, TN 37921
Phone :(865) 291-3000
Fax:

Samples have been Homogenized

Bill UFC Delivery Order ID: Quote:14006513. Please bill

Analysis	Due	Expires	Comments
Sample Name: CF Comp 22			
Sample ID: 21L1001-01 Tissue	**Sampled:**	**09-Sep-2020 12:00**	
PCB 209 Congeners	10-Jan-2022 00:00	19-Oct-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			
Sample Name: CF Comp 28			
Sample ID: 21L1001-02 Tissue	**Sampled:**	**09-Sep-2020 12:00**	
PCB 209 Congeners	10-Jan-2022 00:00	19-Oct-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			

Summer Nash 12/15/2021 ~~12/13/2021~~ [signature] EUA KNX 12-16-21 10:00

Released By Date Received By Date

Released By Date Received By Date

Page 1 of 1

SUBCONTRACT ORDER

ERDC-EL-EP-C

21L0909-02-Quote:14006513. Please bill Paul Henige at APPL

SENDING LABORATORY:

ERDC-EL-EP-C
3909 Halls Ferry Road , Building 3299
Vicksburg, MS 39180
Phone: 601-634-7431
Fax: 601-619-5138
Project Manager: Jenifer Milam Netchaev

RECEIVING LABORATORY:

Eurofins TestAmerica Knoxville--APPL
5815 Middlebrook Pike
Knoxville, TN 37921
Phone :(865) 291-3000
Fax:

* Samples have been Homogenized *

Bill UFC Delivery Order ID: Quote:14006513. Please bill

Analysis	Due	Expires	Comments
Sample Name: REF-16NOV2020-WA3-2			
Sample ID: 21L0909-01 Tissue	Sampled:	16-Nov-2020 12:00	
PCB 209 Congeners	07-Jan-2022 00:00	26-Dec-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			
Sample Name: BI-25SEP20-REF2-4			
Sample ID: 21L0909-02 Tissue	Sampled:	25-Sep-2020 12:00	
PCB 209 Congeners	07-Jan-2022 00:00	04-Nov-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			

Released By	Date	Received By	Date
Summer Nash	12/15/2021 ~~12/13/2021~~	[illegible] ETA KNX	12-16-21 10:00

Page 1 of 1

SUBCONTRACT ORDER

ERDC-EL-EP-C

21L1002-02-Quote:14006513. Please bill Paul Henige at APPL

SENDING LABORATORY:

ERDC-EL-EP-C
3909 Halls Ferry Road , Building 3299
Vicksburg, MS 39180
Phone: 601-634-7431
Fax: 601-619-5138
Project Manager: Jenifer Milam Netchaev

RECEIVING LABORATORY:

Eurofins TestAmerica Knoxville--APPL
5815 Middlebrook Pike
Knoxville, TN 37921
Phone :(865) 291-3000
Fax:

Samples have been Homogenized

Bill UFC Delivery Order ID: Quote:14006513. Please bill

Analysis	Due	Expires	Comments
Sample Name: CF Comp 23			
Sample ID: 21L1002-01 **Tissue**	**Sampled:**	**09-Sep-2020 12:00**	
PCB 209 Congeners	10-Jan-2022 00:00	19-Oct-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			
Sample Name: CF Comp 21			
Sample ID: 21L1002-02 **Tissue**	**Sampled:**	**09-Sep-2020 12:00**	
PCB 209 Congeners	10-Jan-2022 00:00	19-Oct-2020 12:00	Quote:14006513. Please bill Paul Henige at APPL
Containers Supplied:			

Summer Nash 12/15/2021 ~~12/13/2021~~ [signature] EPA KNX 12-16-21 10:00

Released By Date Received By Date

Released By Date Received By Date

Page 1 of 1

Loc: 140
25783

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?
1. Are the shipping containers intact?	✓			☐ Containers, Broken
2. Were ambient air containers received intact?			✓	☐ Checked in lab
3. The coolers/containers custody seal if present, is it intact?			✓	☐ Yes ☐ NA
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : SC71 Correction factor: -0.1°c	✓			☐ Cooler Out of Temp, Client Contacted, Proceed/Cancel ☐ Cooler Out of Temp, Same Day Receipt
5. Were all of the sample containers received intact?	✓			☐ Containers, Broken
6. Were samples received in appropriate containers? bxd 12/16/21	✗	✓		☑ Containers, Improper; Client Contacted; Proceed/Cancel
7. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ COC & Samples Do Not Match ☐ COC Incorrect/Incomplete ☐ COC Not Received
8. Were all of the samples listed on the COC received?	✓			☐ Sample Received, Not on COC ☐ Sample on COC, Not Received
9. Is the date/time of sample collection noted?	✓			☐ COC; No Date/Time; Client Contacted
10. Was the sampler identified on the COC?			✓	☐ Sampler Not Listed on COC
11. Is the client and project name/# identified?	✓			☐ COC Incorrect/Incomplete
12. Are tests/parameters listed for each sample?	✓			☐ COC No tests on COC
13. Is the matrix of the samples noted?	✓			☐ COC Incorrect/Incomplete
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ COC Incorrect/Incomplete
15. Were samples received within holding time?	✓			☐ Holding Time - Receipt
16. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ pH Adjusted, pH Included (See box 16A) ☐ Incorrect Preservative
17. Were VOA samples received without headspace?			✓	☐ Headspace (VOA only)
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:			✓	☐ Residual Chlorine
19. For 1613B water samples is pH<9?			✓	☐ If no, notify lab to adjust
20. For rad samples was sample activity info. Provided?			✓	☐ Project missing info

Comments/Actions Taken

NO CUSTODY SEALS
RECEIVED AT RT 1.8, 2.3 / CT 1.7, 2.2°C
BXD 12-16-21
2 COOLERS FEDX# 7755066630000m PO

6, RECEIVED IN CLEAR GLASS, SHOULD BE AMBER

Labeling Verified by: **Date:**

pH test strip lot number:

Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative:	
Lot Number:	
Exp Date:	
Analyst:	
Date:	
Time:	

Project #: 14006544 PM Instructions:

Sample Receiving Associate: [signature] Date: 12-14-21

QA026R32.doc, 062719

Appendix J:

Level 4 Data Reports for subset of samples analyzed for 209 PCB Congeners

(available as separate files)

Appendix K:

Data Validation Reports for subset of samples analyzed for 209 PCB Congeners

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

USACE Seattle District
4735 East Marginal Way South
Seattle, WA 98134
ATTN: Ms. Kristen Kerns
Kristen.Kerns@usace.army.mil

July 1, 2022

SUBJECT: Bradford Island - Data Validation

Dear Ms. Kerns,

Enclosed are the final validation reports for the fractions listed below. This SDG was received on April 15, 2022. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #54002:

SDG #	**Fraction**
140-25780-1	Polychlorinated Biphenyls as Congeners
140-25783-1	

The data validation was performed under Stage 2A guidelines. The analysis were validated using the following documents, as applicable to each method:

- U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.3 (2019)

Please feel free to contact us if you have any questions.

Sincerely,

Kevin Kha
kkha@lab-data.com
Project Manager/Senior Chemist

243 pages-ADV

Attachment 1

Stage 2A EDD

LDC# 54002 (USACE Seattle District - Seattle, WA / Bradford Island)

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCB Cong. (1668A)																																			
Matrix:	Water/Soil/Tissue			W	T	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	140-25780-1	04/15/22	05/06/22	0	12																																		
B	140-25783-1	04/15/22	05/06/22	0	12																																		
Total	T/KK			0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24

Shaded cells indicate Stage 4 validation (all other cells are Stage 2A validation). These sample counts do not include MS/MSD, DUPs, and field QC (TB, EB, FD)

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Bradford Island

LDC Report Date: June 27, 2022

Parameters: Polychlorinated Biphenyls as Congeners

Validation Level: Stage 2A

Laboratory: Eurofins, Knoxville, TN

Sample Delivery Group (SDG): 140-25780-1

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
SB2007	21L0901-01/140-25780-1	Tissue	08/26/20
SB3001	21L0901-02/140-25780-2	Tissue	08/24/20
SB3024	21L0902-01/140-25780-3	Tissue	09/02/20
SB3029	21L0902-02/140-25780-4	Tissue	09/09/20
CF Comp 25	21L1003-01/140-25780-5	Tissue	09/09/20
B1-11NOV2020-D-2	21L1003-02/140-25780-6	Tissue	11/11/20
SB3015	21L0903-01/140-25780-7	Tissue	08/26/20
SB3025	21L0903-02/140-25780-8	Tissue	09/02/20
SB3034	21L0904-01/140-25780-9	Tissue	09/11/20
SB1004	21L0904-02/140-25780-10	Tissue	08/24/20
BI-25SEP20-DU10-3	21L0906-01/140-25780-11	Tissue	09/25/20
B1-12NOV2020-F-3	21L0906-02/140-25780-12	Tissue	11/12/20
SB2007MS	21L0901-01MS/140-25780-1MS	Tissue	08/26/20
SB2007MSD	21L0901-01MSD/140-25780-1MSD	Tissue	08/26/20
SB2007DUP	21L0901-01DUP/140-25780-1DUP	Tissue	08/26/20
SB3024MS	21L0902-01MS/140-25780-3MS	Tissue	09/02/20
SB3024MSD	21L0902-01MSD/140-25780-3MSD	Tissue	09/02/20
SB3024DUP	21L0902-01DUP/140-25780-3DUP	Tissue	09/02/20

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.3 (2019). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Polychlorinated Biphenyls (PCBs) as Congeners by Environmental Protection Agency (EPA) Method 1668A

All sample results were subjected to Stage 2A data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

X (Exclusion of data recommended): The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Exclusion of the data is recommended.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

The laboratory indicated that samples were received in improper containers; clear glass instead of amber glass.

Cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. HRGC/HRMS Instrument Performance Check

Instrument performance check data were not reviewed for Stage 2A validation.

III. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Stage 2A validation.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Stage 2A validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Extraction Date	Analyte	Concentration	Associated Samples
MB 140-57903/17-B	01/14/22	PCB-1	0.000557 ng/g	SB3024
		PCB-4	0.000607 ng/g	
		PCB-8	0.000963 ng/g	
		PCB-11	0.00493 ng/g	
		PCB-15	0.000621 ng/g	
		PCB-16	0.000374 ng/g	
		PCB-18	0.000813 ng/g	
		PCB-19	0.000361 ng/g	
		PCB-20	0.00122 ng/g	
		PCB-21	0.000901 ng/g	
		PCB-22	0.000532 ng/g	
		PCB-28	0.00122 ng/g	
		PCB-30	0.000813 ng/g	
		PCB-31	0.000715 ng/g	
		PCB-32	0.000584 ng/g	
		PCB-33	0.000901 ng/g	
		PCB-35	0.000288 ng/g	
		PCB-37	0.000590 ng/g	
		PCB-44	0.00161 ng/g	
		PCB-47	0.00161 ng/g	
		PCB-52	0.000806 ng/g	
		PCB-61	0.00124 ng/g	
		PCB-64	0.000460 ng/g	
		PCB-65	0.00161 ng/g	
		PCB-70	0.00124 ng/g	
		PCB-74	0.00124 ng/g	
		PCB-76	0.00124 ng/g	

Blank ID	Extraction Date	Analyte	Concentration	Associated Samples
MB 140-57903/17-B (continued)	01/14/22	PCB-83	0.000535 ng/g	SB3024
		PCB-86	0.000667 ng/g	
		PCB-87	0.000667 ng/g	
		PCB-89	0.000287 ng/g	
		PCB-90	0.000918 ng/g	
		PCB-95	0.000892 ng/g	
		PCB-97	0.000667 ng/g	
		PCB-99	0.000535 ng/g	
		PCB-101	0.000918 ng/g	
		PCB-105	0.000780 ng/g	
		PCB-109	0.000667 ng/g	
		PCB-110	0.00104 ng/g	
		PCB-113	0.000918 ng/g	
		PCB-115	0.00104 ng/g	
		PCB-118	0.00150 ng/g	
		PCB-119	0.000667 ng/g	
		PCB-125	0.000667 ng/g	
		PCB-128	0.000303 ng/g	
		PCB-129	0.00155 ng/g	
		PCB-132	0.000471 ng/g	
		PCB-135	0.000628 ng/g	
		PCB-136	0.000213 ng/g	
		PCB-138	0.00155 ng/g	
		PCB-141	0.000272 ng/g	
		PCB-147	0.000802 ng/g	
		PCB-149	0.000802 ng/g	
		PCB-150	0.0000752 ng/g	
		PCB-151	0.000628 ng/g	
		PCB-153	0.00121 ng/g	
		PCB-156	0.000308 ng/g	
		PCB-157	0.000308 ng/g	
		PCB-158	0.000150 ng/g	
		PCB-160	0.00155 ng/g	
		PCB-163	0.00155 ng/g	
		PCB-166	0.000303 ng/g	
		PCB-167	0.000194 ng/g	
		PCB-168	0.00121 ng/g	
		PCB-170	0.000688 ng/g	
		PCB-171	0.000328 ng/g	
		PCB-173	0.000328 ng/g	
		PCB-174	0.000680 ng/g	
		PCB-175	0.0000669 ng/g	
		PCB-176	0.000193 ng/g	
		PCB-177	0.000350 ng/g	
		PCB-178	0.000167 ng/g	
		PCB-179	0.000148 ng/g	
		PCB-180	0.00135 ng/g	
		PCB-183	0.00108 ng/g	
		PCB-185	0.00108 ng/g	
		PCB-186	0.0000518 ng/g	
		PCB-187	0.000621 ng/g	
		PCB-192	0.0000789 ng/g	
		PCB-193	0.00135 ng/g	
		PCB-195	0.000258 ng/g	
		PCB-196	0.000424 ng/g	
		PCB-198	0.000309 ng/g	
		PCB-199	0.000309 ng/g	
		PCB-204	0.0000702 ng/g	
		PCB-209	0.00141 ng/g	

Blank ID	Extraction Date	Analyte	Concentration	Associated Samples
MB 140-57963/16-B	01/17/22	PCB-11	0.00922 ng/g	SB3001
		PCB-18	0.00390 ng/g	SB3029
		PCB-20	0.00267 ng/g	CF Comp 25
		PCB-28	0.00267 ng/g	B1-11NOV2020-D-2
		PCB-30	0.00390 ng/g	SB3015
		PCB-31	0.00279 ng/g	SB3025
		PCB-32	0.00155 ng/g	SB3034
		PCB-44	0.00463 ng/g	SB1004
		PCB-47	0.00463 ng/g	BI-25SEP20-DU10-3
		PCB-65	0.00463 ng/g	B1-12NOV2020-F-3
		PCB-84	0.00223 ng/g	
		PCB-118	0.00320 ng/g	
		PCB-129	0.00266 ng/g	
		PCB-135	0.00110 ng/g	
		PCB-136	0.000420 ng/g	
		PCB-138	0.00266 ng/g	
		PCB-147	0.00129 ng/g	
		PCB-149	0.00129 ng/g	
		PCB-151	0.00110 ng/g	
		PCB-152	0.000478 ng/g	
		PCB-153	0.00220 ng/g	
		PCB-156	0.000906 ng/g	
		PCB-157	0.000906 ng/g	
		PCB-160	0.00266 ng/g	
		PCB-163	0.00266 ng/g	
		PCB-168	0.00220 ng/g	
		PCB-169	0.000482 ng/g	
		PCB-172	0.000802 ng/g	
		PCB-177	0.000652 ng/g	
		PCB-179	0.000472 ng/g	
		PCB-180	0.000517 ng/g	
		PCB-181	0.000480 ng/g	
		PCB-183	0.000559 ng/g	
		PCB-185	0.000559 ng/g	
		PCB-189	0.000405 ng/g	
		PCB-193	0.000517 ng/g	
		PCB-203	0.000557 ng/g	

Sample concentrations were compared to concentrations detected in the laboratory blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
CF Comp 25	PCB-11	0.020 ng/g	0.020U ng/g
	PCB-18	0.0014 ng/g	0.0014U ng/g
	PCB-20	0.013 ng/g	0.013U ng/g
	PCB-28	0.013 ng/g	0.013U ng/g
	PCB-30	0.0014 ng/g	0.0014U ng/g
	PCB-31	0.0040 ng/g	0.0040U ng/g
	PCB-32	0.0010 ng/g	0.0010U ng/g
	PCB-44	0.016 ng/g	0.016U ng/g
	PCB-47	0.016 ng/g	0.016U ng/g
	PCB-65	0.016 ng/g	0.016U ng/g
	PCB-84	0.0034 ng/g	0.0034U ng/g
	PCB-179	0.0010 ng/g	0.0010U ng/g

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Matrix Spike/Matrix Spike Duplicates/Duplicate Sample Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	Flag	A or P
SB3024MS/MSD (SB3024)	PCB-189	-	129 (85-119)	J (all detects)	A

Additional percent recoveries (%R) were not within the QC limits for SB3024MS/MSD and SB2007MS/MSD. No data were qualified since the parent sample results were greater than 4X the spiked concentration. Relative percent differences (RPD) were within QC limits.

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Labeled Compounds

Labeled compounds data were not reviewed for Stage 2A validation.

XI. Target Analyte Quantitation

All target analyte quantitations were within validation criteria with the following exceptions:

Sample	Analyte	Flag	A or P
All samples in SDG 140-25780-1	Results flagged "q" by the laboratory as estimated maximum possible concentration (EMPC).	J (all detects)	A

Raw data were not reviewed for Stage 2A validation.

XII. Target Analyte Identification

Raw data were not reviewed for Stage 2A validation.

XIII. System Performance

Raw data were not reviewed for Stage 2A validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to MS/MSD %R and results reported by the laboratory as EMPCs, data were qualified as estimated in twelve samples.

Due to laboratory blank contamination, data were qualified as not detected in one sample.

Bradford Island
Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG 140-25780-1

Sample	Analyte	Flag	A or P	Reason
SB3024	PCB-189	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)
SB2007 SB3001 SB3024 SB3029 CF Comp 25 B1-11NOV2020-D-2 SB3015 SB3025 SB3034 SB1004 BI-25SEP20-DU10-3 B1-12NOV2020-F-3	Results flagged "q" by the laboratory as estimated maximum possible concentration (EMPC).	J (all detects)	A	Target analyte quantitation (EMPC)

Bradford Island
Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG 140-25780-1

Sample	Analyte	Modified Final Concentration	A or P
CF Comp 25	PCB-11 PCB-18 PCB-20 PCB-28 PCB-30 PCB-31 PCB-32 PCB-44 PCB-47 PCB-65 PCB-84 PCB-179	0.020U ng/g 0.0014U ng/g 0.013U ng/g 0.013U ng/g 0.0014U ng/g 0.0040U ng/g 0.0010U ng/g 0.016U ng/g 0.016U ng/g 0.016U ng/g 0.0034U ng/g 0.0010U ng/g	A

Bradford Island
Polychlorinated Biphenyls as Congeners - Field Blank Data Qualification Summary - SDG 140-25780-1

No Sample Data Qualified in this SDG

LDC #: 54002A31 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/21/22
SDG #: 140-25780-1 Stage 2A Page: 1 of 2
Laboratory: Eurofins, Knoxville, TN Reviewer: R
2nd Reviewer: KM

METHOD: HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	SW / A	See notes below
II.	HRGC/HRMS Instrument performance check	N	
III.	Initial calibration/ICV	N/N	
IV.	Continuing calibration	N	
V.	Laboratory Blanks	SW	
VI.	Field blanks	N	
VII.	Matrix spike/Matrix spike duplicates /DUP	SW / A	<5xRL
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Labeled Compounds	N	
XI.	Target analyte quantitation	SW	Result flagged "q" as EMPC - Jdet/A
XII.	Target analyte identification	N	
XIII.	System performance	N	
XIV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	~~Client ID~~ Sample ID	See attached for client ID	Sub Lab ID	Matrix	Date
1	21L0901-01		140-25780-1	Tissue	08/26/20
2	21L0901-02		140-25780-2	Tissue	08/24/20
3	21L0902-01		140-25780-3	Tissue	09/02/20
4	21L0902-02		140-25780-4	Tissue	09/09/20
5	21L0903-01		140-25780-5	Tissue	09/09/20
6	21L0903-02		140-25780-6	Tissue	11/11/20
7	21L0903-01		140-25780-7	Tissue	08/26/20
8	21L0903-02		140-25780-8	Tissue	09/02/20
9	21L0904-01		140-25780-9	Tissue	09/11/20
10	21L0904-02		140-25780-10	Tissue	08/24/20
11	21L0906-01		140-25780-11	Tissue	09/25/20
12	21L0906-02		140-25780-12	Tissue	11/12/20
13	21L0901-01MS		140-25780-1MS	Tissue	08/26/20
14	21L0901-01MSD		140-25780-1MSD	Tissue	08/26/20
15	21L0901-01DUP		140-25780-1DUP	Tissue	08/26/20

LDC #: 54002A31 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/21/22
SDG #: 140-25780-1 Stage 2A Page: 2 of
Laboratory: Eurofins, Knoxville, TN Reviewer: R
2nd Reviewer: JKK

METHOD: HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

	Client ID	Lab ID	Matrix	Date
16	21L0902-01MS	140-25780-3MS	Tissue	09/02/20
17	21L0902-01MSD	140-25780-3MSD	Tissue	09/02/20
18	21L0902-01DUP	140-25780-3DUP	Tissue	09/02/20
19				
20				
21				

Notes: The lab indicated that samples were rec'd in improper containers. Rec'd in clear glass instead of amber glass (text)

1	57903						
2	57963						

Client Sample ID	Lab ID	Sub Lab ID
SB2007	21L0901-01	140-25780-1
SB3001	21L0901-02	140-25780-2
SB3024	21L0902-01	140-25780-3
SB3029	21L0902-02	140-25780-4
CF Comp 25	21L1003-01	140-25780-5
B1-11NOV2020-D-2	21L1003-02	140-25780-6
SB3015	21L0903-01	140-25780-7
SB3025	21L0903-02	140-25780-8
SB3034	21L0904-01	140-25780-9
SB1004	21L0904-02	140-25780-10
BI-25SEP20-DU10-3	21L0906-01	140-25780-11
B1-12NOV2020-F-3	21L0906-02	140-25780-12
SB2007MS	21L0901-01MS	140-25780-1MS
SB2007MSD	21L0901-01MSD	140-25780-1MSD
SB2007DUP	21L0901-01DUP	140-25780-1DUP
SB3024MS	21L0902-01MS	140-25780-3MS
SB3024MSD	21L0902-01MSD	140-25780-3MSD
SB3024DUP	21L0902-01DUP	140-25780-3DUP

LDC#: 54002A31

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: SC

METHOD: HRGC/HRMS PCB (EPA Method 1668A)

Extraction Date: 1/14/22 **Associated samples:** 3 Qualify U

Analyte	Blank ID (ng/g)	Sample Identification				
	MB 140-57903/17-B	Lab qual	5X	3		
PCB-1	0.000557	J q	0.002785			
PCB-4	0.000607	J q	0.003035			
PCB-8	0.000963	J	0.004815			
PCB-11	0.00493	J	0.02465			
PCB-15	0.000621	J	0.003105			
PCB-16	0.000374	J q	0.00187			
PCB-18	0.000813	J q C	0.004065			
PCB-19	0.000361	J q	0.001805			
PCB-20	0.00122	J C	0.0061			
PCB-21	0.000901	J C	0.004505			
PCB-22	0.000532	J	0.00266			
PCB-28	0.00122	J C20	0.0061			
PCB-30	0.000813	J q C18	0.004065			
PCB-31	0.000715	J q	0.003575			
PCB-32	0.000584	J q	0.00292			
PCB-33	0.000901	J C21	0.004505			
PCB-35	0.000288	J q	0.00144			
PCB-37	0.000590	J	0.00295			
PCB-44	0.00161	J C	0.00805			
PCB-47	0.00161	J C44	0.00805			
PCB-52	0.000806	J q	0.00403			
PCB-61	0.00124	J q C	0.0062			
PCB-64	0.000460	J q	0.0023			
PCB-65	0.00161	J C44	0.00805			
PCB-70	0.00124	J q C61	0.0062			
PCB-74	0.00124	J q C61	0.0062			
PCB-76	0.00124	J q C61	0.0062			
PCB-83	0.000535	J q C	0.002675			
PCB-86	0.000667	J q C	0.003335			
PCB-87	0.000667	J q C86	0.003335			
PCB-89	0.000287	J q	0.001435			
PCB-90	0.000918	J q C	0.00459			
PCB-95	0.000892	J	0.00446			
PCB-97	0.000667	J q C86	0.003335			
PCB-99	0.000535	J q C83	0.002675			
PCB-101	0.000918	J q C90	0.00459			
PCB-105	0.000780	J	0.0039			
PCB-109	0.000667	J q C86	0.003335			
PCB-110	0.00104	J q C	0.0052			
PCB-113	0.000918	J q C90	0.00459			
PCB-115	0.00104	J q C110	0.0052			
PCB-118	0.00150	J	0.0075			
PCB-119	0.000667	J q C86	0.003335			
PCB-125	0.000667	J q C86	0.003335			
PCB-128	0.000303	J q C	0.001515			
PCB-129	0.00155	J C	0.00775			
PCB-132	0.000471	J	0.002355			
PCB-135	0.000628	J C	0.00314			
PCB-136	0.000213	J q	0.001065			
PCB-138	0.00155	J C129	0.00775			
PCB-141	0.000272	J q	0.00136			
PCB-147	0.000802	J q C	0.00401			
PCB-149	0.000802	J q C147	0.00401			

LDC#: 54002A31

VALIDATION FINDINGS WORKSHEET

Blanks

Reviewer: SC

METHOD: HRGC/HRMS PCB (EPA Method 1668A)

Extraction Date: 1/14/22 **Associated samples:** 3 Qualify U

Analyte	Blank ID (ng/g)	Sample Identification				
	MB 140-57903/17-B	Lab qual	5X	3		
PCB-150	0.0000752	J q	0.000376			
PCB-151	0.000628	J C135	0.00314			
PCB-153	0.00121	J C	0.00605			
PCB-156	0.000308	J q C	0.00154			
PCB-157	0.000308	J q C156	0.00154			
PCB-158	0.000150	J	0.00075			
PCB-160	0.00155	J C129	0.00775			
PCB-163	0.00155	J C129	0.00775			
PCB-166	0.000303	J q C128	0.001515			
PCB-167	0.000194	J	0.00097			
PCB-168	0.00121	J C153	0.00605			
PCB-170	0.000688	J	0.00344			
PCB-171	0.000328	J C	0.00164			
PCB-173	0.000328	J C171	0.00164			
PCB-174	0.000680	J	0.0034			
PCB-175	0.0000669	J q	0.0003345			
PCB-176	0.000193	J q	0.000965			
PCB-177	0.000350	J q	0.00175			
PCB-178	0.000167	J q	0.000835			
PCB-179	0.000148	J q	0.00074			
PCB-180	0.00135	J C	0.00675			
PCB-183	0.00108	J C	0.0054			
PCB-185	0.00108	J C183	0.0054			
PCB-186	0.0000518	J	0.000259			
PCB-187	0.000621	J q	0.003105			
PCB-192	0.0000789	J q	0.0003945			
PCB-193	0.00135	J C180	0.00675			
PCB-195	0.000258	J q	0.00129			
PCB-196	0.000424	J	0.00212			
PCB-198	0.000309	J C	0.001545			
PCB-199	0.000309	J C198	0.001545			
PCB-204	0.0000702	J q	0.000351			
PCB-209	0.00141	J q	0.00705			

LDC#: 54002A71

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: SC

METHOD: HRGC/HRMS PCB (EPA Method 1668A)

Extraction Date: 1/17/22 **Associated samples:** 1,2,4-12 Qualify U

Analyte	Blank ID (ng/g)	Sample Identification				
	MB 140-57963/16-B	Lab qual	5X	5		
PCB-11	0.00922	J	0.0461	0.020		
PCB-18	0.00390	J C q	0.0195	0.0014		
PCB-20	0.00267	J C q	0.01335	0.013		
PCB-28	0.00267	J C20 q	0.01335	0.013		
PCB-30	0.00390	J C18 q	0.0195	0.0014		
PCB-31	0.00279	J q	0.01395	0.0040		
PCB-32	0.00155	J	0.00775	0.0010		
PCB-44	0.00463	J C q	0.02315	0.016		
PCB-47	0.00463	J C44 q	0.02315	0.016		
PCB-65	0.00463	J C44 q	0.02315	0.016		
PCB-84	0.00223	J q	0.01115	0.0034		
PCB-118	0.00320	J q	0.016			
PCB-129	0.00266	J C	0.0133			
PCB-135	0.00110	J C q	0.0055			
PCB-136	0.000420	J q	0.0021			
PCB-138	0.00266	J C129	0.0133			
PCB-147	0.00129	J C q	0.00645			
PCB-149	0.00129	J C147 q	0.00645			
PCB-151	0.00110	J C135 q	0.0055			
PCB-152	0.000478	J q	0.00239			
PCB-153	0.00220	J C q	0.011			
PCB-156	0.000906	J C	0.00453			
PCB-157	0.000906	J C156	0.00453			
PCB-160	0.00266	J C129	0.0133			
PCB-163	0.00266	J C129	0.0133			
PCB-168	0.00220	J C153 q	0.011			
PCB-169	0.000482	J q	0.00241			
PCB-172	0.000802	J	0.00401			
PCB-177	0.000652	J q	0.00326			
PCB-179	0.000472	J q	0.00236	0.0010		
PCB-180	0.000517	J C q	0.002585			
PCB-181	0.000480	J q	0.0024			
PCB-183	0.000559	J C q	0.002795			
PCB-185	0.000559	J C183 q	0.002795			
PCB-189	0.000405	J q	0.002025			
PCB-193	0.000517	J C180 q	0.002585			
PCB-203	0.000557	J q	0.002785			

LDC #: S4007A31

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: JC

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668A)

MS/MSD percent recoveries (%R) and the relative percent differences (RPD) were within the QC limits with the following exceptions:

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		14/17	PCB-189		129 (85-119)		3 (all)	J all / A
			several PCBs	%Rs out				NQ. >4x
		17/14	PCBs-105	%Rs out			1 (all)	NQ. >4x
			- 118					

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Bradford Island

LDC Report Date: July 1, 2022

Parameters: Polychlorinated Biphenyls as Congeners

Validation Level: Stage 2A

Laboratory: Eurofins, Knoxville, TN

Sample Delivery Group (SDG): 140-25783-1

Sample Identification	Laboratory Sample Identification	Matrix	Collection Date
SB1017	21L0905-01/140-25783-1	Tissue	08/24/20
SB2003	21L0905-02/140-25783-2	Tissue	08/24/20
B1-12NOV2020-F-1	21L0907-01/140-25783-3	Tissue	11/12/20
BI-25SEP20-DU10-4	21L0907-02/140-25783-4	Tissue	09/25/20
B1-10NOV2020-E-3	21L0908-01/140-25783-5	Tissue	11/10/20
B1-10NOV2020-E-2	21L0908-02/140-25783-6	Tissue	11/10/20
CF Comp 22	21L1001-01/140-25783-7	Tissue	09/09/20
CF Comp 28	21L1001-02/140-25783-8	Tissue	09/09/20
REF-16NOV2020-WA3-2	21L0909-01/140-25783-9	Tissue	11/16/20
BI-25SEP20-REF2-4	21L0909-02/140-25783-10	Tissue	09/25/20
CF Comp 23	21L1002-01/140-25783-11	Tissue	09/09/20
CF Comp 21	21L1002-02/140-25783-12	Tissue	09/09/20

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples listed on the cover page. Data validation was performed in accordance with the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.3 (2019). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method:

Polychlorinated Biphenyls (PCBs) as Congeners by Environmental Protection Agency (EPA) Method 1668A

All sample results were subjected to Stage 2A data validation, which comprises an evaluation of quality control (QC) summary results.

The following are definitions of the data qualifiers utilized during data validation:

J (Estimated): The analyte was analyzed for and positively identified by the laboratory; however the reported concentration is estimated due to non-conformances discovered during data validation.

U (Non-detected): The analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The analyte was reported as not detected by the laboratory; however the reported quantitation/detection limit is estimated due to non-conformances discovered during data validation.

X (Exclusion of data recommended): The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Exclusion of the data is recommended.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

I. Sample Receipt and Technical Holding Times

The laboratory indicated that samples were received in improper containers, clear glass instead of amber glass.

Cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

II. HRGC/HRMS Instrument Performance Check

Instrument performance check data were not reviewed for Stage 2A validation.

III. Initial Calibration and Initial Calibration Verification

Initial calibration data were not reviewed for Stage 2A validation.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Stage 2A validation.

V. Laboratory Blanks

Laboratory blanks were analyzed as required by the method. No contaminants were found in the laboratory blanks with the following exceptions:

Blank ID	Extraction Date	Analyte	Concentration	Associated Samples
MB 140-57903/17-B	01/14/22	PCB-1	0.000557 ng/g	All samples in SDG 140-25783-1
		PCB-4	0.000607 ng/g	
		PCB-8	0.000963 ng/g	
		PCB-11	0.00493 ng/g	
		PCB-15	0.000621 ng/g	
		PCB-16	0.000374 ng/g	
		PCB-18	0.000813 ng/g	
		PCB-19	0.000361 ng/g	
		PCB-20	0.00122 ng/g	
		PCB-21	0.000901 ng/g	
		PCB-22	0.000532 ng/g	
		PCB-28	0.00122 ng/g	
		PCB-30	0.000813 ng/g	
		PCB-31	0.000715 ng/g	
		PCB-32	0.000584 ng/g	
		PCB-33	0.000901 ng/g	
		PCB-35	0.000288 ng/g	
		PCB-37	0.000590 ng/g	
		PCB-44	0.00161 ng/g	
		PCB-47	0.00161 ng/g	
		PCB-52	0.000806 ng/g	
		PCB-61	0.00124 ng/g	
		PCB-64	0.000460 ng/g	
		PCB-65	0.00161 ng/g	
		PCB-70	0.00124 ng/g	
		PCB-74	0.00124 ng/g	
		PCB-76	0.00124 ng/g	

Blank ID	Extraction Date	Analyte	Concentration	Associated Samples
MB 140-57903/17-B (continued)	01/14/22	PCB-83	0.000535 ng/g	All samples in SDG 140-25783-1
		PCB-86	0.000667 ng/g	
		PCB-87	0.000667 ng/g	
		PCB-89	0.000287 ng/g	
		PCB-90	0.000918 ng/g	
		PCB-95	0.000892 ng/g	
		PCB-97	0.000667 ng/g	
		PCB-99	0.000535 ng/g	
		PCB-101	0.000918 ng/g	
		PCB-105	0.000780 ng/g	
		PCB-109	0.000667 ng/g	
		PCB-110	0.00104 ng/g	
		PCB-113	0.000918 ng/g	
		PCB-115	0.00104 ng/g	
		PCB-118	0.00150 ng/g	
		PCB-119	0.000667 ng/g	
		PCB-125	0.000667 ng/g	
		PCB-128	0.000303 ng/g	
		PCB-129	0.00155 ng/g	
		PCB-132	0.000471 ng/g	
		PCB-135	0.000628 ng/g	
		PCB-136	0.000213 ng/g	
		PCB-138	0.00155 ng/g	
		PCB-141	0.000272 ng/g	
		PCB-147	0.000802 ng/g	
		PCB-149	0.000802 ng/g	
		PCB-150	0.0000752 ng/g	
		PCB-151	0.000628 ng/g	
		PCB-153	0.00121 ng/g	
		PCB-156	0.000308 ng/g	
		PCB-157	0.000308 ng/g	
		PCB-158	0.000150 ng/g	
		PCB-160	0.00155 ng/g	
		PCB-163	0.00155 ng/g	
		PCB-166	0.000303 ng/g	
		PCB-167	0.000194 ng/g	
		PCB-168	0.00121 ng/g	
		PCB-170	0.000688 ng/g	
		PCB-171	0.000328 ng/g	
		PCB-173	0.000328 ng/g	
		PCB-174	0.000680 ng/g	
		PCB-175	0.0000669 ng/g	
		PCB-176	0.000193 ng/g	
		PCB-177	0.000350 ng/g	
		PCB-178	0.000167 ng/g	
		PCB-179	0.000148 ng/g	
		PCB-180	0.00135 ng/g	
		PCB-183	0.00108 ng/g	
		PCB-185	0.00108 ng/g	
		PCB-186	0.0000518 ng/g	
		PCB-187	0.000621 ng/g	
		PCB-192	0.0000789 ng/g	
		PCB-193	0.00135 ng/g	
		PCB-195	0.000258 ng/g	
		PCB-196	0.000424 ng/g	
		PCB-198	0.000309 ng/g	
		PCB-199	0.000309 ng/g	
		PCB-204	0.0000702 ng/g	
		PCB-209	0.00141 ng/g	

Sample concentrations were compared to concentrations detected in the laboratory blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated laboratory blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
SB2003	PCB-1	0.0020 ng/g	0.0020U ng/g
	PCB-8	0.0047 ng/g	0.0047U ng/g
	PCB-19	0.0016 ng/g	0.0016U ng/g
CF Comp 22	PCB-11	0.024 ng/g	0.024U ng/g
	PCB-18	0.0021 ng/g	0.0021U ng/g
	PCB-30	0.0021 ng/g	0.0021U ng/g
	PCB-32	0.0012 ng/g	0.0012U ng/g
CF Comp 28	PCB-1	0.0014 ng/g	0.0014U ng/g
	PCB-16	0.00099 ng/g	0.00099U ng/g
	PCB-18	0.0027 ng/g	0.0027U ng/g
	PCB-19	0.00078 ng/g	0.00078U ng/g
	PCB-30	0.0027 ng/g	0.0027U ng/g
	PCB-32	0.0015 ng/g	0.0015U ng/g
CF Comp 23	PCB-8	0.0021 ng/g	0.0021U ng/g
	PCB-11	0.019 ng/g	0.019U ng/g
	PCB-18	0.0029 ng/g	0.0029U ng/g
	PCB-21	0.0024 ng/g	0.0024U ng/g
	PCB-30	0.0029 ng/g	0.0029U ng/g
	PCB-31	0.0024 ng/g	0.0024U ng/g
	PCB-32	0.0013 ng/g	0.0013U ng/g
	PCB-33	0.0024 ng/g	0.0024U ng/g
CF Comp 21	PCB-4	0.0011 ng/g	0.0011U ng/g
	PCB-8	0.0011 ng/g	0.0011U ng/g
	PCB-11	0.015 ng/g	0.015U ng/g
	PCB-18	0.0010 ng/g	0.0010U ng/g
	PCB-20	0.0023 ng/g	0.0023U ng/g
	PCB-22	0.00048 ng/g	0.00048U ng/g
	PCB-28	0.0023 ng/g	0.0023U ng/g
	PCB-30	0.0010 ng/g	0.0010U ng/g
	PCB-31	0.0013 ng/g	0.0013U ng/g
	PCB-32	0.0011 ng/g	0.0011U ng/g
	PCB-44	0.0031 ng/g	0.0031U ng/g
	PCB-47	0.0031 ng/g	0.0031U ng/g
	PCB-52	0.0040 ng/g	0.0040U ng/g
	PCB-65	0.0031 ng/g	0.0031U ng/g
	PCB-150	0.00034 ng/g	0.00034U ng/g

VI. Field Blanks

No field blanks were identified in this SDG.

VII. Matrix Spike/Matrix Spike Duplicates/Duplicate Sample Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) were not within QC limits. No data were qualified since there were no associated samples in this SDG. Relative percent differences (RPD) were within QC limits.

Duplicate (DUP) sample analysis was performed on an associated project sample. Results were within QC limits.

VIII. Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Labeled Compounds

Labeled compounds data were not reviewed for Stage 2A validation.

XI. Target Analyte Quantitation

All target analyte quantitations were within validation criteria with the following exceptions:

Sample	Analyte	Flag	A or P
All samples in SDG 140-25783-1	Results flagged "q" by the laboratory as estimated maximum possible concentration (EMPC).	J (all detects)	A

Raw data were not reviewed for Stage 2A validation.

XII. Target Analyte Identification

Raw data were not reviewed for Stage 2A validation.

XIII. System Performance

Raw data were not reviewed for Stage 2A validation.

XIV. Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were rejected in this SDG.

Due to results reported by the laboratory as EMPCs, data were qualified as estimated in twelve samples.

Due to laboratory blank contamination, data were qualified as not detected in five samples.

Bradford Island
Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG 140-25783-1

Sample	Analyte	Flag	A or P	Reason
SB1017 SB2003 B1-12NOV2020-F-1 BI-25SEP20-DU10-4 B1-10NOV2020-E-3 B1-10NOV2020-E-2 CF Comp 22 CF Comp 28 REF-16NOV2020-WA3-2 BI-25SEP20-REF2-4 CF Comp 23 CF Comp 21	Results flagged "q" by the laboratory as estimated maximum possible concentration (EMPC).	J (all detects)	A	Target analyte quantitation (EMPC)

Bradford Island
Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG 140-25783-1

Sample	Analyte	Modified Final Concentration	A or P
SB2003	PCB-1 PCB-8 PCB-19	0.0020U ng/g 0.0047U ng/g 0.0016U ng/g	A
CF Comp 22	PCB-11 PCB-18 PCB-30 PCB-32	0.024U ng/g 0.0021U ng/g 0.0021U ng/g 0.0012U ng/g	A
CF Comp 28	PCB-1 PCB-16 PCB-18 PCB-19 PCB-30 PCB-32	0.0014U ng/g 0.00099U ng/g 0.0027U ng/g 0.00078U ng/g 0.0027U ng/g 0.0015U ng/g	A
CF Comp 23	PCB-8 PCB-11 PCB-18 PCB-21 PCB-30 PCB-31 PCB-32 PCB-33	0.0021U ng/g 0.019U ng/g 0.0029U ng/g 0.0024U ng/g 0.0029U ng/g 0.0024U ng/g 0.0013U ng/g 0.0024U ng/g	A

Sample	Analyte	Modified Final Concentration	A or P
CF Comp 21	PCB-4	0.0011U ng/g	A
	PCB-8	0.0011U ng/g	
	PCB-11	0.015U ng/g	
	PCB-18	0.0010U ng/g	
	PCB-20	0.0023U ng/g	
	PCB-22	0.00048U ng/g	
	PCB-28	0.0023U ng/g	
	PCB-30	0.0010U ng/g	
	PCB-31	0.0013U ng/g	
	PCB-32	0.0011U ng/g	
	PCB-44	0.0031U ng/g	
	PCB-47	0.0031U ng/g	
	PCB-52	0.0040U ng/g	
	PCB-65	0.0031U ng/g	
	PCB-150	0.00034U ng/g	

Bradford Island
Polychlorinated Biphenyls as Congeners - Field Blank Data Qualification Summary - SDG 140-25783-1

No Sample Data Qualified in this SDG

LDC #: 54002B31

SDG #: 140-25783-1

Laboratory: Eurofins, Knoxville, TN

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date: 6/21/22

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	SW / A	see notes
II.	HRGC/HRMS Instrument performance check	N	
III.	Initial calibration/ICV	N/N	
IV.	Continuing calibration	N	
V.	Laboratory Blanks	SW	
VI.	Field blanks	N	
VII.	Matrix spike/Matrix spike duplicates /DUP	SW / A	SB3020f no assoc'd. ND. %RS
VIII.	Laboratory control samples	A	LCS
IX.	Field duplicates	N	
X.	Labeled Compounds	N	
XI.	Target analyte quantitation	SW	Results flagged "q" as EMPC - Tech/A
XII.	Target analyte identification	N	
XIII.	System performance	N	
XIV.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Lab ~~Client~~ ID	See attached for client IDs	Sub Lab ID	Matrix	Date
1	21L0905-01		140-25783-1	Tissue	08/24/20
2	21L0905-02		140-25783-2	Tissue	08/24/20
3	21L0907-01		140-25783-3	Tissue	11/12/20
4	21L0907-02		140-25783-4	Tissue	09/25/20
5	21L0908-01		140-25783-5	Tissue	11/10/20
6	21L0908-02		140-25783-6	Tissue	11/10/20
7	21L1001-01		140-25783-7	Tissue	09/09/20
8	21L1001-02		140-25783-8	Tissue	09/09/20
9	21L0909-01		140-25783-9	Tissue	11/16/20
10	21L0909-02		140-25783-10	Tissue	09/25/20
11	21L1002-01		140-25783-11	Tissue	09/09/20
12	21L1002-02		140-25783-12	Tissue	09/09/20
13					
14					
15	57903				

LDC #: 54002B31

SDG #: 140-25783-1

Laboratory: Eurofins, Knoxville, TN

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date: 6/21/22

Page: 2 of 2

Reviewer:

2nd Reviewer:

METHOD: HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

	Client ID	Lab ID	Matrix	Date
16				

Notes: improper containers; rec'd in clear glass instead of amber (text

Client Sample ID	Lab ID	Sub Lab ID
SB1017	21L0905-01	140-25783-1
SB2003	21L0905-02	140-25783-2
B1-12NOV2020-F-1	21L0907-01	140-25783-3
BI-25SEP20-DU10-4	21L0907-02	140-25783-4
B1-10NOV2020-E-3	21L0908-01	140-25783-5
B1-10NOV2020-E-2	21L0908-02	140-25783-6
REF-16NOV2020-WA3-2	21L0909-01	140-25783-9
BI-25SEP20-REF2-4	21L0909-02	140-25783-10
CF Comp 22	21L1001-01	140-25783-7
CF Comp 28	21L1001-02	140-25783-8
CF Comp 23	21L1002-01	140-25783-11
CF Comp 21	21L1002-02	140-25783-12

LDC#: 54002B31

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: SC

METHOD: HRGC/HRMS PCB (EPA Method 1668A)

Extraction Date: 1/14/22 **Associated samples:** All Qualify U

Analyte	Blank ID (ng/g)	Sample Identification						
	MB 140-57903/17-B	Lab qual	5X	2	7	8	11	12
PCB-1	0.000557	J q	0.002785	0.0020		0.0014		
PCB-4	0.000607	J q	0.003035					0.0011
PCB-8	0.000963	J	0.004815	0.0047			0.0021	0.0011
PCB-11	0.00493	J	0.02465		0.024		0.019	0.015
PCB-15	0.000621	J	0.003105					
PCB-16	0.000374	J q	0.00187			0.00099		
PCB-18	0.000813	J q C	0.004065		0.0021	0.0027	0.0029	0.0010
PCB-19	0.000361	J q	0.001805	0.0016		0.00078		
PCB-20	0.00122	J C	0.0061					0.0023
PCB-21	0.000901	J C	0.004505				0.0024	
PCB-22	0.000532	J	0.00266					0.00048
PCB-28	0.00122	J C20	0.0061					0.0023
PCB-30	0.000813	J q C18	0.004065		0.0021	0.0027	0.0029	0.0010
PCB-31	0.000715	J q	0.003575				0.0024	0.0013
PCB-32	0.000584	J q	0.00292		0.0012	0.0015	0.0013	0.0011
PCB-33	0.000901	J C21	0.004505				0.0024	
PCB-35	0.000288	J q	0.00144					
PCB-37	0.000590	J	0.00295					
PCB-44	0.00161	J C	0.00805					0.0031
PCB-47	0.00161	J C44	0.00805					0.0031
PCB-52	0.000806	J q	0.00403					0.0040
PCB-61	0.00124	J q C	0.0062					
PCB-64	0.000460	J q	0.0023					
PCB-65	0.00161	J C44	0.00805					0.0031
PCB-70	0.00124	J q C61	0.0062					
PCB-74	0.00124	J q C61	0.0062					
PCB-76	0.00124	J q C61	0.0062					
PCB-83	0.000535	J q C	0.002675					
PCB-86	0.000667	J q C	0.003335					
PCB-87	0.000667	J q C86	0.003335					
PCB-89	0.000287	J q	0.001435					
PCB-90	0.000918	J q C	0.00459					
PCB-95	0.000892	J	0.00446					
PCB-97	0.000667	J q C86	0.003335					
PCB-99	0.000535	J q C83	0.002675					
PCB-101	0.000918	J q C90	0.00459					
PCB-105	0.000780	J	0.0039					
PCB-109	0.000667	J q C86	0.003335					
PCB-110	0.00104	J q C	0.0052					
PCB-113	0.000918	J q C90	0.00459					
PCB-115	0.00104	J q C110	0.0052					
PCB-118	0.00150	J	0.0075					
PCB-119	0.000667	J q C86	0.003335					
PCB-125	0.000667	J q C86	0.003335					
PCB-128	0.000303	J q C	0.001515					
PCB-129	0.00155	J C	0.00775					
PCB-132	0.000471	J	0.002355					
PCB-135	0.000628	J C	0.00314					
PCB-136	0.000213	J q	0.001065					
PCB-138	0.00155	J C129	0.00775					
PCB-141	0.000272	J q	0.00136					
PCB-147	0.000802	J q C	0.00401					
PCB-149	0.000802	J q C147	0.00401					

LDC#: 54002B31

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: SC

METHOD: HRGC/HRMS PCB (EPA Method 1668A)

Extraction Date: 1/14/22 **Associated samples:** All Qualify U

Analyte	Blank ID (ng/g)	Sample Identification						
	MB 140-57903/17-B	Lab qual	5X	2	7	8	11	12
PCB-150	0.0000752	J q	0.000376					0.00034
PCB-151	0.000628	J C135	0.00314					
PCB-153	0.00121	J C	0.00605					
PCB-156	0.000308	J q C	0.00154					
PCB-157	0.000308	J q C156	0.00154					
PCB-158	0.000150	J	0.00075					
PCB-160	0.00155	J C129	0.00775					
PCB-163	0.00155	J C129	0.00775					
PCB-166	0.000303	J q C128	0.001515					
PCB-167	0.000194	J	0.00097					
PCB-168	0.00121	J C153	0.00605					
PCB-170	0.000688	J	0.00344					
PCB-171	0.000328	J C	0.00164					
PCB-173	0.000328	J C171	0.00164					
PCB-174	0.000680	J	0.0034					
PCB-175	0.0000669	J q	0.0003345					
PCB-176	0.000193	J q	0.000965					
PCB-177	0.000350	J q	0.00175					
PCB-178	0.000167	J q	0.000835					
PCB-179	0.000148	J q	0.00074					
PCB-180	0.00135	J C	0.00675					
PCB-183	0.00108	J C	0.0054					
PCB-185	0.00108	J C183	0.0054					
PCB-186	0.0000518	J	0.000259					
PCB-187	0.000621	J q	0.003105					
PCB-192	0.0000789	J q	0.0003945					
PCB-193	0.00135	J C180	0.00675					
PCB-195	0.000258	J q	0.00129					
PCB-196	0.000424	J	0.00212					
PCB-198	0.000309	J C	0.001545					
PCB-199	0.000309	J C198	0.001545					
PCB-204	0.0000702	J q	0.000351					
PCB-209	0.00141	J q	0.00705					