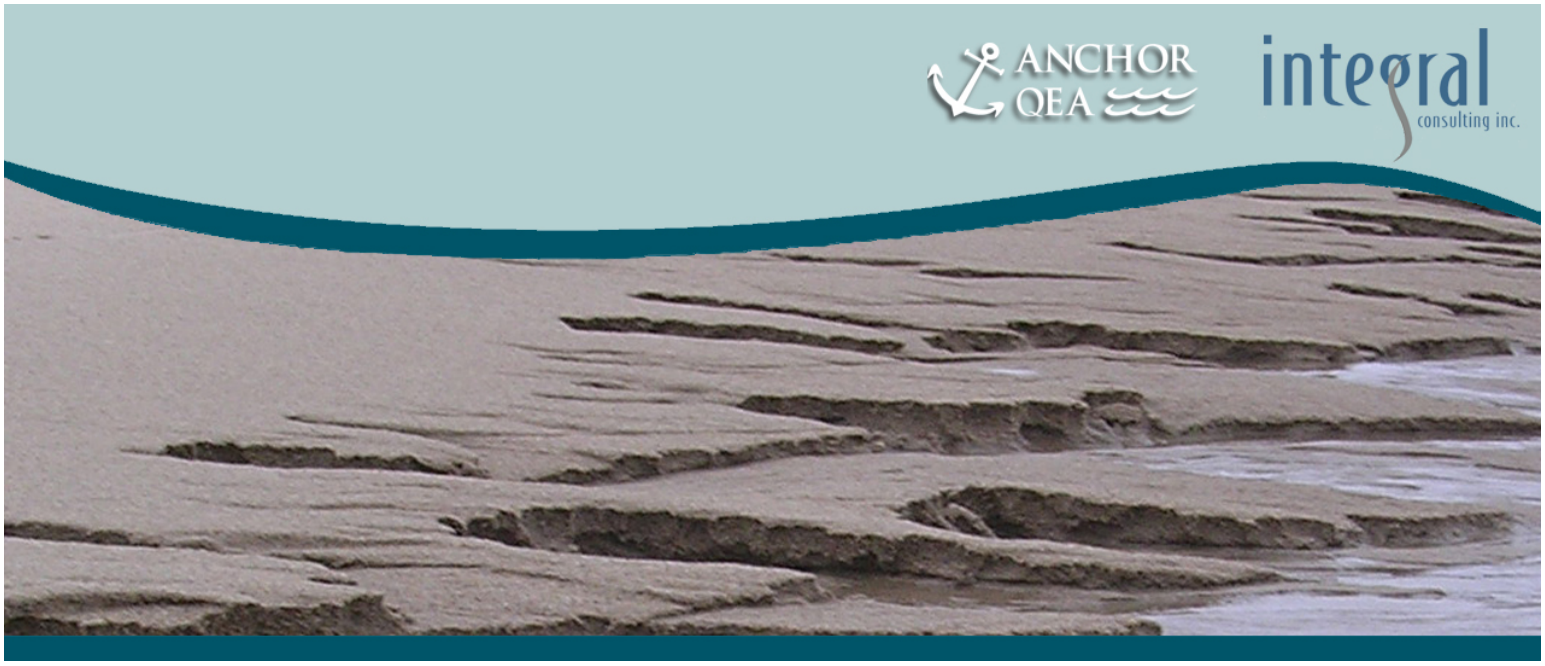

PRELIMINARY SITE CHARACTERIZATION REPORT
SAN JACINTO RIVER WASTE PITS SUPERFUND SITE

VOLUME II OF II

Prepared for

McGinnes Industrial Maintenance Corporation
International Paper Company
U.S. Environmental Protection Agency, Region 6

Prepared by

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Anchor QEA, LLC
614 Magnolia Avenue
Ocean Springs, Mississippi 39564

February 2012

9843856

APPENDIX A
CHEMISTRY DATA VALIDATION REPORTS

CHEMISTRY DATA VALIDATION REPORTS FOR SOIL

EcoChem, INC.
Environmental Data Quality

DATA VALIDATION REPORT

SAN JACINTO RIVER WASTE PITS
Soil Study

Prepared for:

Integral Consulting, Inc.
1205 West Bay Dr. NW
Olympia, Washington 98502

Prepared by:

EcoChem, Inc.
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EcoChem Project: C22130-8

April 22, 2011

Approved for Release

Melissa Swanson

Basis for Data Validation

This report summarizes the results of the validation (Stage 2A, Stage 2B, and Stage 3/4) performed on soil and quality control (QC) sample data for the San Jacinto River Soil Study. A complete list of samples is provided in the **Sample Index**. Laboratory batch ID numbers and associated level of validation are provided at the beginning of each technical section

Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington and Columbia Analytical Services, Inc., Houston, Texas. The analytical methods and EcoChem project chemists are listed below.

Analysis	Method of Analysis	Primary Review	Secondary Review
Volatile Organic Compounds	SW8260C	G. Esler	M. Swanson
Semivolatile Organic Compounds	SW8270C		
Polychlorinated Biphenyls (Aroclors)	SW8082A		
Dioxin & Furan Compounds	EPA1613B	M. Swanson	C. Ransom
Metals	SW6010C, SW6020A, SW7470A/SW7471B	J. Maute	C. Mott
Total Organic Carbon	SW9060M		
Particle Size	PSEP		
Total Solids	EPA 160.3M		

The data were reviewed using guidance and quality control criteria documented in the analytical methods; the *Sampling and Analysis Plan: Soil Study San Jacinto River Waste Pits Superfund Site* (Integral, December 2010); *USEPA National Functional Guidelines for Chlorinated Dioxin/Furan Data Review* (USEPA, September 2005); *National Functional Guidelines for Organic Data Review* (USEPA 1999, 2008); and *USEPA National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004).

EcoChem's goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned an R, the data are to be rejected and should not be used for any site evaluation purposes. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Data qualifier definitions, reason codes, and validation criteria are included as **Appendix A**. The qualified data summary table is included as **Appendix B.** Data Validation Worksheets and the associated communication records will be kept on file at EcoChem, Inc. A qualified laboratory electronic data deliverable (EDD) was also submitted with this report.

Sample Index
San Jacinto River Waste Pits - Soil Study
CAS Kelso

SDG	Sample ID	Laboratory ID	Matrix	VOC	SVOC	BEHP	PCB	Metal	TOC	Grain Size	Total Solids
K1101209	SL0001	K1101209-001	Soil			✓		✓	✓	✓	✓
K1101209	SL0002	K1101209-002	Soil			✓		✓	✓	✓	✓
K1101209	SL0003	K1101209-003	Soil			✓		✓	✓	✓	✓
K1101209	SL0004	K1101209-004	Soil			✓		✓	✓	✓	✓
K1101209	SL0005	K1101209-005	Soil			✓		✓	✓	✓	✓
K1101209	SL0006	K1101209-006	Soil			✓		✓	✓	✓	✓
K1101209	SL0007	K1101209-007	Soil			✓		✓	✓	✓	✓
K1101209	SL0008	K1101209-008	Soil			✓		✓	✓	✓	✓
K1101209	SL0009	K1101209-009	Soil			✓		✓	✓	✓	✓
K1101209	SL0010	K1101209-010	Soil			✓		✓	✓	✓	✓
K1101209	SL0011	K1101209-011	Soil			✓		✓	✓	✓	✓
K1101209	SL0012	K1101209-012	Soil			✓		✓	✓	✓	✓
K1101209	SL0013	K1101209-013	Soil			✓		✓	✓	✓	✓
K1101209	SL0014	K1101209-014	Soil			✓		✓	✓	✓	✓
K1101209	SL0015	K1101209-015	Soil			✓		✓	✓	✓	✓
K1101209	SL0016	K1101209-016	Soil			✓		✓	✓	✓	✓
K1101209	SL0017	K1101209-017	Soil			✓		✓	✓	✓	✓
K1101209	SL0018	K1101209-018	Soil			✓		✓	✓	✓	✓
K1101209	SL0019	K1101209-019	Soil			✓		✓	✓	✓	✓
K1101209	SL0020	K1101209-020	Soil			✓		✓	✓	✓	✓
K1101209	SL0021	K1101209-021	Soil			✓		✓	✓	✓	✓
K1101209	SL0022	K1101209-022	Soil			✓		✓	✓	✓	✓
K1101209	SL0023	K1101209-023	Soil			✓		✓	✓	✓	✓
K1101209	SL0024	K1101209-024	Soil			✓		✓	✓	✓	✓
K1101209	SL0025	K1101209-025	Soil			✓		✓	✓	✓	✓
K1101209	SL0026	K1101209-026	Soil			✓		✓	✓	✓	✓
K1101209	SL0027	K1101209-027	Soil			✓		✓	✓	✓	✓
K1101209	SL0028	K1101209-028	Soil			✓		✓	✓	✓	✓
K1101209	SL0029	K1101209-029	Soil			✓		✓	✓	✓	✓
K1101209	SL0030	K1101209-030	Soil			✓		✓	✓	✓	✓
K1101209	SL0031	K1101209-031	Soil			✓		✓	✓	✓	✓
K1101209	FW0032	K1101209-032	Wipe		✓	✓		✓			
K1101209	FW0033	K1101209-033	Wipe		✓	✓		✓			
K1101209	FW0034	K1101209-034	Wipe		✓	✓		✓			
K1101209	FB0035	K1101209-035	Wipe		✓	✓		✓			
K1101236	SL0060	K1101236-001	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0061	K1101236-002	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0062	K1101236-003	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0063	K1101236-004	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0064	K1101236-005	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0065	K1101236-006	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0066	K1101236-007	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0067	K1101236-008	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0068	K1101236-009	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0069	K1101236-010	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0070	K1101236-011	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0071	K1101236-012	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0072	K1101236-013	Soil	✓	✓	✓	✓	✓	✓	✓	✓

Sample Index
San Jacinto River Waste Pits - Soil Study
CAS Kelso

SDG	Sample ID	Laboratory ID	Matrix	VOC	SVOC	BEHP	PCB	Metal	TOC	Grain Size	Total Solids
K1101236	SL0073	K1101236-014	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0074	K1101236-015	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0075	K1101236-016	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0076	K1101236-017	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0077	K1101236-018	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0078	K1101236-019	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0079	K1101236-020	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	SL0080	K1101236-021	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101236	FW0081	K1101236-022	Wipe		✓	✓		✓			
K1101236	FB0090	K1101236-023	Wipe		✓	✓		✓			
K1101241	SL0091	K1101241-001	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0092	K1101241-002	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0093	K1101241-003	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0094	K1101241-004	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0095	K1101241-005	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0096	K1101241-006	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0097	K1101241-007	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0098	K1101241-008	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0099	K1101241-009	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0100	K1101241-010	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0101	K1101241-011	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0102	K1101241-012	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0103	K1101241-013	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0104	K1101241-014	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0105	K1101241-015	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0106	K1101241-016	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0107	K1101241-017	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	FW0108	K1101241-018	Wipe		✓	✓		✓			
K1101241	SL0109	K1101241-019	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0110	K1101241-020	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0111	K1101241-021	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101241	SL0112	K1101241-022	Soil	✓	✓	✓	✓	✓	✓	✓	✓
K1101244	SL0036	K1101244-001	Soil			✓		✓	✓	✓	✓
K1101244	SL0037	K1101244-002	Soil			✓		✓	✓	✓	✓
K1101244	SL0038	K1101244-003	Soil			✓		✓	✓	✓	✓
K1101244	SL0039	K1101244-004	Soil			✓		✓	✓	✓	✓
K1101244	SL0040	K1101244-005	Soil			✓		✓	✓	✓	✓
K1101244	SL0041	K1101244-006	Soil			✓		✓	✓	✓	✓
K1101244	SL0042	K1101244-007	Soil			✓		✓	✓	✓	✓
K1101244	SL0043	K1101244-008	Soil			✓		✓	✓	✓	✓
K1101244	SL0044	K1101244-009	Soil			✓		✓	✓	✓	✓
K1101244	SL0045	K1101244-010	Soil			✓		✓	✓	✓	✓
K1101244	SL0046	K1101244-011	Soil			✓		✓	✓	✓	✓
K1101244	SL0047	K1101244-012	Soil			✓		✓	✓	✓	✓
K1101244	SL0048	K1101244-013	Soil			✓		✓	✓	✓	✓
K1101244	SL0049	K1101244-014	Soil			✓		✓	✓	✓	✓
K1101244	SL0050	K1101244-015	Soil			✓		✓	✓	✓	✓
K1101244	SL0051	K1101244-016	Soil			✓		✓	✓	✓	✓

Sample Index
San Jacinto Waste Pits - Soil Study
CAS Houston

SDG	Sample ID	Laboratory ID	Matrix	Dioxin
E1100143	SL0001	E1100143-001	Soil	✓
E1100143	SL0002	E1100143-002	Soil	✓
E1100143	SL0003	E1100143-003	Soil	✓
E1100143	SL0004	E1100143-004	Soil	✓
E1100143	SL0005	E1100143-005	Soil	✓
E1100143	SL0006	E1100143-006	Soil	✓
E1100143	SL0007	E1100143-007	Soil	✓
E1100143	SL0008	E1100143-008	Soil	✓
E1100143	SL0009	E1100143-009	Soil	✓
E1100143	SL0010	E1100143-010	Soil	✓
E1100143	SL0011	E1100143-011	Soil	✓
E1100143	SL0012	E1100143-012	Soil	✓
E1100143	SL0013	E1100143-013	Soil	✓
E1100143	SL0014	E1100143-014	Soil	✓
E1100143	SL0015	E1100143-015	Soil	✓
E1100143	SL0016	E1100143-016	Soil	✓
E1100143	SL0017	E1100143-017	Soil	✓
E1100143	SL0018	E1100143-018	Soil	✓
E1100143	SL0019	E1100143-019	Soil	✓
E1100143	SL0020	E1100143-020	Soil	✓
E1100143	SL0021	E1100143-021	Soil	✓
E1100143	SL0022	E1100143-022	Soil	✓
E1100143	SL0023	E1100143-023	Soil	✓
E1100143	SL0024	E1100143-024	Soil	✓
E1100143	SL0025	E1100143-025	Soil	✓
E1100143	SL0026	E1100143-026	Soil	✓
E1100143	SL0027	E1100143-027	Soil	✓
E1100143	SL0028	E1100143-028	Soil	✓
E1100143	SL0029	E1100143-029	Soil	✓
E1100143	SL0030	E1100143-030	Soil	✓
E1100143	SL0031	E1100143-031	Soil	✓
E1100143	FW0032	E1100143-032	Wipe	✓
E1100143	FW0033	E1100143-033	Wipe	✓
E1100143	FW0034	E1100143-034	Wipe	✓
E1100143	FB0035	E1100143-035	Wipe	✓
E1100145	SL0036	E1100145-001	Soil	✓
E1100145	SL0037	E1100145-002	Soil	✓
E1100145	SL0038	E1100145-003	Soil	✓
E1100145	SL0039	E1100145-004	Soil	✓
E1100145	SL0040	E1100145-005	Soil	✓
E1100145	SL0041	E1100145-006	Soil	✓
E1100145	SL0042	E1100145-007	Soil	✓
E1100145	SL0043	E1100145-008	Soil	✓
E1100145	SL0044	E1100145-009	Soil	✓
E1100145	SL0045	E1100145-010	Soil	✓
E1100145	SL0046	E1100145-011	Soil	✓
E1100145	SL0047	E1100145-012	Soil	✓
E1100145	SL0048	E1100145-013	Soil	✓
E1100145	SL0049	E1100145-014	Soil	✓

Sample Index
San Jacinto Waste Pits - Soil Study
CAS Houston

SDG	Sample ID	Laboratory ID	Matrix	Dioxin
E1100145	SL0050	E1100145-015	Soil	✓
E1100145	SL0051	E1100145-016	Soil	✓
E1100145	SL0052	E1100145-017	Soil	✓
E1100146	SL0060	E1100146-001	Soil	✓
E1100146	SL0061	E1100146-002	Soil	✓
E1100146	SL0062	E1100146-003	Soil	✓
E1100146	SL0063	E1100146-004	Soil	✓
E1100146	SL0064	E1100146-005	Soil	✓
E1100146	SL0065	E1100146-006	Soil	✓
E1100146	SL0066	E1100146-007	Soil	✓
E1100146	SL0067	E1100146-008	Soil	✓
E1100146	SL0068	E1100146-009	Soil	✓
E1100146	SL0069	E1100146-010	Soil	✓
E1100146	SL0070	E1100146-011	Soil	✓
E1100146	SL0071	E1100146-012	Soil	✓
E1100146	SL0072	E1100146-013	Soil	✓
E1100146	SL0073	E1100146-014	Soil	✓
E1100146	SL0074	E1100146-015	Soil	✓
E1100146	SL0075	E1100146-016	Soil	✓
E1100146	SL0076	E1100146-017	Soil	✓
E1100146	SL0077	E1100146-018	Soil	✓
E1100146	SL0078	E1100146-019	Soil	✓
E1100146	SL0079	E1100146-020	Soil	✓
E1100146	SL0080	E1100146-021	Soil	✓
E1100146	SL0091	E1100146-022	Soil	✓
E1100146	SL0092	E1100146-023	Soil	✓
E1100146	SL0093	E1100146-024	Soil	✓
E1100146	SL0094	E1100146-025	Soil	✓
E1100146	SL0095	E1100146-026	Soil	✓
E1100146	SL0096	E1100146-027	Soil	✓
E1100146	SL0097	E1100146-028	Soil	✓
E1100146	SL0098	E1100146-029	Soil	✓
E1100146	SL0099	E1100146-030	Soil	✓
E1100146	SL0100	E1100146-031	Soil	✓
E1100146	SL0101	E1100146-032	Soil	✓
E1100146	SL0103	E1100146-033	Soil	✓
E1100146	SL0104	E1100146-034	Soil	✓
E1100146	SL0105	E1100146-035	Soil	✓
E1100146	SL0106	E1100146-036	Soil	✓
E1100146	SL0107	E1100146-037	Soil	✓
E1100146	SL0109	E1100146-038	Soil	✓
E1100146	SL0110	E1100146-039	Soil	✓
E1100146	SL0111	E1100146-040	Soil	✓
E1100146	SL0112	E1100146-041	Soil	✓
E1100146	FW0081	E1100146-043	Wipe	✓
E1100146	FB0090	E1100146-044	Wipe	✓
E1100146	FW0108	E1100146-045	Wipe	✓
E1100146	SL0102	E1100146-046	Soil	✓

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Soil Study
Volatile Organic Compounds by Method SW8260C

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples

SDG	Number of Samples	Validation Level
K1101236	21 Soil	Stage 4
K1101241	21 Soil	Stage 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory electronic data deliverable (EDD) were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The quality control (QC) requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times		Laboratory Control Samples (LCS/LCSD)
	GC/MS Instrument Performance Check	1	Field Replicates
1	Initial Calibration (ICAL)		Internal Standards
2	Continuing Calibration (CCAL)		Reporting Limits
2	Laboratory Blanks		Reported Results
	Field (Trip) Blanks		Compound Identification (Full validation only)
	Surrogate Compounds	1	Calculation Verification (Full validation only)
	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)		

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

The validation guidance documents state that sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample

coolers with temperatures less than the lower limit, the lowest at -0.6°C. These outliers did not impact data quality; no data were qualified.

Initial Calibration

SDGs K1101236 & K1101241: In the initial calibration (ICAL) all percent relative standard deviation (%RSD) values were within the ±40% control limit as stated in National Functional Guidelines (NFG, 2008). And all relative response factor (RRF) values were greater than the NFG, 1999 0.05 minimum control limit, except acrolein. However, the acrolein RRF value was greater than the NFG, 2008 minimum control limit of 0.01. No data were qualified.

Continuing Calibration

SDG K1101236: In the continuing calibration (CCAL) all percent difference (%D) values were within the ±25% control limit as set by NFG (1999 & 2008) except acrolein in the CCAL from 2/24/11 and 2/25/11. Reporting limits for acrolein in the six samples associated with these CCAL were estimated (UJ-5B).

SDG K1101241: In the CCAL all %RSD values were within the ±25% control limit as set by NFG (1999 & 2008) except acrolein in the CCAL from 2/24/11 and 2/25/11. Reporting limits for acrolein in all samples were estimated (UJ-5B).

Laboratory Blanks

To assess the impact of each blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration detected in the blank (10x for common laboratory contaminants). If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-7) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level or for non-detected results.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets.

SDG K1101236: The result for toluene in Sample SL0078 was qualified as not detected (U-7). All results for methylene chloride were qualified as not detected (U-7).

SDG K1101241: All results for methylene chloride and seven results for toluene were qualified not detected (U-7).

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 50% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1101236: One pair of field replicates was submitted, Samples SL0062 & SL0063. Field precision was acceptable.

SDG K1101241: One pair of field replicates was submitted, Samples SL0093 & SL0095. Field precision was acceptable.

Calculation Verification

SDG K1101236: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable as demonstrated by the surrogate, matrix spike/matrix spike duplicate (MS/MSD), and laboratory control sample/laboratory control sample duplicate (LCS/LCSD) percent recovery values. Precision was also acceptable as demonstrated by the MS/MSD, LCS/LCSD, and field replicate RPD values.

Data were qualified due to method blank contamination. Data were estimated due to CCAL %D outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Soil Study
Semivolatile Organic Compounds by Method SW8270C

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples Full List SVOC	Number of BEHP Only Samples	Validation Level
K1101209	4 Filter Wipes	31 Soil	Stage 2A/2B
K1101236	21 Soil & 2 Filter Wipes	--	Stage 2A/4
K1101241	21 Soil & 1 Filter Wipe	--	Stage 2A/28
K1101244		16 Soil	Stage 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative**.**

SDG K1101209: Sample FB0035 was noted as FW0035 by the laboratory. The EDD was corrected by the client prior to receipt by EcoChem. Other than noting this discrepancy, no further action was taken.

SDGs K1101209, K1101236, & K1101241: Results for the analyte 2,3,4,6-tetrachlorophenol were not included in these SDG. The laboratory resubmitted the data package and EDD including this analyte. No further action was taken.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Receipt, Preservation, and Holding Times	1	Laboratory Control Samples (LCS/LCSD)
	GC/MS Instrument Performance Check	1	Field Replicates
	Initial Calibration (ICAL)		Internal Standards
	Continuing Calibration (CCAL)		Target Analyte List
2	Laboratory Blanks	1	Reporting Limits
1	Field Blanks		Compound Identification
1	Surrogate Compounds		Reported Results
1	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)	1	Calculation Verification (Full validation only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

The validation guidance documents state that sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.6°C. These outliers did not impact data quality; no data were qualified.

Laboratory Blanks

To assess the impact of each blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration detected in the blank (10x for phthalates). If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-7) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however only the following analytes required qualification in one or more samples.

SDG K1101236: Eighteen results for phenol were qualified as not detected (U-7).

Field Blanks

To evaluate the effect on the sample data, action levels of 5x (10x for phthalates) the blank concentrations were established. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-6) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

The field blanks for this project are filter wipe samples. Laboratory blanks are used to evaluate all associated field blanks. The contamination in the filter wipe blanks was further evaluated based on Samples FB0035 and FB0090 (the master filter wipe blanks). No target analytes were detected in any filter wipe samples.

SDG K1101209: Four filter wipe blanks, FW0032, FW0033, FW0034, and FB0035 were submitted with this SDG.

SDG K1101236: Two filter wipe blanks, FW0081 and FB0090, were submitted with this SDG.

SDG K1101241: One filter wipe blank, FW0108, was submitted with this SDG.

Surrogate Compounds

SDG K1101209: The percent recovery (%R) value for terphenyl-d14 in Sample SL0011 was greater than the upper control limit. This sample was analyzed at dilution (25x); no data were qualified.

SDG K1101236: The %R value for nitrobenzene-d5 was less than the lower control limit in Sample SL0069. No data were qualified for this single base-neutral outlier.

The %R values for 2,4,6-tribromophenol and terphenyl-d14 were greater than the upper control limits in Sample SL0079. This sample was analyzed at dilution (50x & 5000x); no data were qualified.

SDG K1101244: The surrogate terphenyl-d14 in Sample SL0037 was not recovered. This sample was analyzed at dilution (25x); no data were qualified.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) samples were analyzed at the appropriate frequency. No action is taken unless both the MS and MSD %R values are outside the control limits for MS/MSD %R outliers. Precision is indicated by the relative percent difference (RPD) between the MS and MSD values. RPD values outside the control limits indicate uncertainty in the measured results for the sample. Qualifiers were only issued to the parent sample.

When the MS/MSD %R values indicate a potential low bias, associated results are estimated (J/UJ-8). Only the associated positive results are estimated (J-8) if the %R values indicate a potential high bias. Associated positive results are estimated (J-9) if the RPD values indicate uncertainty.

SDGs K1101209, K1101236, & 1101241: No MS/MSD analyses were performed for batches associated with filter wipe samples. Precision and accuracy were evaluated using the laboratory control sample/laboratory control sample duplicate (LCS/LCSD).

SDG K1101236: The MS/MSD analysis was performed using Sample SL0080. The MS %R value for phenol was greater than the upper control limit, the MSD %R value was acceptable. The %R values for acenaphthene were greater than the upper control limit. Pentachlorophenol was not recovered in the MS/MSD. The RPD values for naphthalene, acenaphthalene, fluorene, carbazole, phenanthrene, and bis(2-ethylhexyl)phthalate (BEHP) were greater than the control limit. Due to the high levels of non-target background interferences accuracy and precision could not be evaluated.

SDG K1101241: The MS/MSD analysis was performed using Sample SL0091. The MSD %R values for naphthalene, acenaphthalene, fluorene, carbazole, and phenanthrene were greater than the upper control limit, as were the RPD values. The MSD %R values were acceptable. Pentachlorophenol was not recovered in the MS/MSD. Due to the high levels of non-target background interferences accuracy and precision could not be evaluated.

SDG K1101244: The MS/MSD analysis was performed using Sample SL0036. The MS %R value for BEHP was less than 10%. However, the parent concentration was greater than four times the spiking concentration; no data were qualified.

Laboratory Control Samples

The LCS/LCSD samples were analyzed at the appropriate frequency. No action is taken unless both the LCS and LCSD %R values are outside the control limits for LCS/LCSD %R outliers. Qualifiers are issued to all samples in the same preparation batch.

When the LCS/LCSD %R values indicate a potential low bias, associated results are estimated (J/UJ-10). If the %R values indicate a potential high bias only the associated positive results are estimated (J-10).

SDGs K1101209, K1101236, & K1101241: The LCS %R value for 2,4-dichlorophenol was greater than the upper control limit, the LCSD %R value was within control limits. No data were qualified for this single outlier.

Field Replicates

The following acceptance criteria were used to evaluate precision: the RPD control limit is 50% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1101209: Two pair of field replicates were submitted, Samples SL0003 & SL0004 and SL0024 & SL0025. BEHP was not detected in any of these samples; field precision was acceptable.

SDG K1101236: One pair of field replicates was submitted, Sample SL0062 & SL0063. Field precision was acceptable.

SDG K1101241: One pair of field replicates was submitted, Sample SL0093 & SL0095. Field precision was acceptable.

SDG K1101244: One pair of field replicates was submitted, Sample SL0040 & SL0041. Field precision was acceptable.

Reporting Limits

Due to matrix interferences some samples were analyzed at dilution, therefore, reporting limits were elevated.

SDG K1101209: Fifteen of 31 samples were analyzed at dilution (5, 10, or 25x).

SDG K1101236: Samples SL0079 and SL0080 were analyzed at dilution (25, 50, and/or 5000x).

SDG K1101241: Samples SL0091 and SL0092 were analyzed at dilution (25x).

SDG K1101244: Fourteen of 16 samples were analyzed at dilution (5, 10, or 25x).

Calculation Verification

SDG K1101236: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by the surrogate, MS/MSD, and LCS/LCSD % R values. With the exceptions noted above, precision was acceptable as demonstrated by the MS/MSD, LCS/LCSD, and field replicate RPD values.

Data were qualified as not detected due to method blank contamination.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Soil Study
PCB Aroclors by Method SW8082A

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1101236	21 Soil	Stage2B
K1101241	21 Soil	Stage 4

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table

1	Sample Receipt, Preservation, and Holding Times		Matrix Spikes/Matrix Spike Duplicate (MS/MSD)
	Initial Calibration (ICAL)	1	Field Replicates
	Continuing Calibration (CCAL)	1	Reporting Limits
	Laboratory Blanks		Compound Identification
	Surrogate Compounds		Reported Results
	Laboratory Control Samples (LCS)		Calculation Verification (Full Validation only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

The validation guidance documents state that sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.6°C. These outliers did not impact data quality; no data were qualified.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 50% for results greater than five times (5x) the reporting limit (RL). For results less than 5x the RL, the absolute difference between the sample and replicate must be less than 2x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1101236: One set of field replicates, Samples SL0062 & SL0063, was submitted. No target analytes were detected in either sample; field precision was acceptable.

SDG K1101241: One set of field replicates, Samples SL00093 & SL0095, was submitted. No target analytes were detected in either sample; field precision was acceptable.

Reporting Limits

SDG K1101236: In Sample SL0073 the reporting limits for Aroclor 1242, Aroclor 1248, and Aroclor 1254 were elevated due to matrix interferences.

Calculation Verification

SDG K1101241: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable as demonstrated by the surrogate, matrix spike/matrix spike duplicate (MS/MSD), and laboratory control sample (LCS) percent recovery values. Precision was also acceptable as demonstrated by the MS/MSD and field replicate RPD values.

All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Soil Study
Dioxin/Furan Compounds by EPA 1613B

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory and field quality control (QC) samples. Columbia Analytical Services, Houston, Texas, analyzed the samples. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
E1100143	31 Soil 4 Filter Wipes	Stage 4 Stage 2A
E1100145	17 Soil	Stage 2B
E1100146	42 Soil 3 Filter Wipes	Stage 2B Stage 2A

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG E1100143: Sample FB0035 was noted as FW0035 by the laboratory. The EDD was corrected by the client prior to receipt by EcoChem. Other than noting this discrepancy, no further action was taken.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times	1	Matrix Spike/Matrix Spike Duplicate (MS/MSD)
	GC/MS Instrument Performance Check	2	Laboratory Control Samples (LCS/LCSD)
	Initial Calibration (ICAL)	1	Field Replicates
	Calibration Verification (CVER)		Target Analyte List
	Isomer Specificity		Reported Results
2	Laboratory Blanks	2	Compound Identification
1	Field Blanks	1	Calculation Verification (Stage 4 only)
	Labeled Compound Recovery		

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at 0°C. These outliers did not impact data quality; no data were qualified.

Laboratory Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-7). No action is taken if the sample result is greater than the action level, or for non-detected results. The laboratory assigned K-flags to values when a peak was detected but did not meet identification criteria. These values cannot be considered as positive identifications, but are "estimated maximum possible concentrations". When these occurred in the method blank the results were considered as false positives. No action levels were established for these analytes.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however only the following analytes required qualification in one or more samples:

SDG E1100143: OCDD (3 wipe results)

SDG E1100145: OCDF (1 soil result)

SDG E1100146: 1,2,3,7,8,9-HxCDD (9 soil results), OCDD (3 wipe results), OCDF (5 soil results)

Field Blanks

To evaluate the effect on the sample data, action levels of 5x the blank concentrations were established. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-6) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

The field blanks for this project are filter wipe samples. Laboratory blanks are used to evaluate all associated field blanks. The contamination in the filter wipe blanks was further evaluated based on Samples FB0035 and FB0090 (the master filter wipe blanks). After qualifiers were issued based on method and master filter wipe blanks, no positive results for target analytes remained in filter wipe samples.

SDG E1100143: Four filter wipe blanks were submitted with this SDG: FB0035, FW0032, FW0033, and FW0034. A positive result for 1,2,3,4,6,7,8-HpCDD was reported in master wipe blank FB0035. There were no positive results or this analyte in the associated filter wipes; no data were qualified. No positive results remained in the filter wipe blanks after qualification for ion ratio outliers and method blank contamination.

SDG E1100146: Three filter wipe blanks, FB0090, FW0081, and FW0108, were submitted with this SDG. No positive results remained in the filter wipe blanks after qualification for ion ratio outliers and method blank contamination.

Matrix Spike/Matrix Spike Duplicate

Matrix spike/matrix spike duplicate (MS/MSD) samples were not analyzed. Accuracy and precision were evaluated using the laboratory control sample/laboratory control sample duplicate (LCS/LCSD).

Laboratory Control Sample

SDGs E1100143 & E1100145: For preparation batch 128786, the laboratory control sample (LCS) recovery value for 1,2,3,4,6,7,8-HpCDF was greater than the upper control limit. A laboratory control sample duplicate was not prepared for this batch. The positive results for 1,2,3,4,6,7,8-HpCDF in the associated samples were estimated (J-10) to indicate a potential high bias.

Because a laboratory control sample duplicate was not prepared for batch 128786, laboratory precision could not be assessed.

SDGs E1100145 & E1100146: The LCSD sample for preparation batch 128828 was lost during the extraction process. There was no measure of precision for this analytical batch.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 50% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Users of the data should consider the impact of field precision outliers on the reported results.

SDG E1100143: Two sets of field replicates, SL0003 & SL0004 and SL0024 & SL0025, were submitted. In set SL0003 & SL0004, the RPD values for OCDD, total TCDF, total PeCDF, and total HxCDF were greater than the control limit.

In set SL0024 & SL0025, the RPD values for 1,2,3,4,6,7,8-HpCDD, OCDD, OCDF, 1,2,3,4,6,7,8-HpCDF, total HpCDD, total HxCDF, and total HpCDF were greater than the control limit.

SDG E1100145: One set of field replicates, SL0040 & SL0041, was submitted. The RPD value for OCDD was greater than the control limit.

SDG E1100146: Two sets of field replicates, SL0062 & SL0063 and SL0093 & SL0095, were submitted. In set SL0062 & SL0063, the RPD values for 1,2,3,4,6,7,8-HpCDD, OCDD, and total HpCDD were greater than the control limit.

In set SL0093 & SL0095, the RPD values for 1,2,3,4,6,7,8-HpCDD and OCDD were greater than the control limit.

Compound Identification

In several samples the reported concentrations for OCDD were greater than the calibrated linear range of the instrument; the laboratory qualified these results with an "E". Affected sample extracts were diluted and re-analyzed; both sets of data were reported and reviewed. The results for OCDD which were greater than the calibration range were qualified as do-not-report (DNR-20). The results for all other analytes in the dilutions were qualified (DNR-11); the results from the original analyses should be used. Affected samples are listed below.

The laboratory assigned K-flags to results when a peak was detected but did not meet ion ratio quantitation criteria. The reported values cannot be considered as positive identification for these analytes. These results were considered potential false positives or estimated maximum possible concentrations (EMPC) and were qualified as not detected (U-22) at the reported values. Laboratory blank values flagged "K" were considered as non-detects.

All positive results for 2,3,7,8-TCDF were confirmed on a DB-225 column as required by the method. The 2,3,7,8-TCDF results from the DB-5 column were qualified do-not-report (DNR-11) in favor of the results from the DB-225 column.

SDG E1100143: The results for OCDD in Samples SL0006, SL0016, SL0027, and SL0028 exceeded the calibration range. These samples were diluted (10x or 50x) and re-analyzed.

SDG E1100145: The 1,2,3,7,8-PeCDF and 2,3,4,7,8-PeCDF results in Sample SL0045 and the 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, and 1,2,3,4,7,8-HxCDF results in Sample SL0052 were "P" flagged by the laboratory to indicate the presence of diphenyl ether interference. These results were estimated (J-14) to indicate a potential high bias.

The results for OCDD in Samples SL0044 and SL0045 exceeded the calibration range. These samples were diluted (10x) and re-analyzed.

SDG E1100146: The results for OCDD in Samples SL0071, SL0076, and SL0109 exceeded the calibration range. These samples were diluted (10x or 20x) and re-analyzed.

Calculation Verification

SDG E110014: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by labeled compound and LCS/LCSD %R values. With the exceptions noted above, precision was also acceptable as demonstrated by the LCS/LCSD and field duplicate RPD values.

Data were qualified as not detected due to method blank contamination and ion ratio criteria outliers. Data were estimated based on LCS/LCSD recovery outliers and due to diphenyl ether interference.

Data were flagged do-not-report (DNR) to indicate which result (from multiple reported analyses) should not be used. Data that has been flagged DNR should not be used for any purpose.

All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Soil Study
Metals by Methods SW6010C, SW6020A, SW7470A, and SW7471B

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory quality control (QC) samples. Columbia Analytical Services, Kelso, Washington, analyzed the samples. Refer to the Sample Index for a complete list of samples.

SDG	Number of Samples	Validation Level
K1101209	31 Soil & 4 Filter Wipes	Stage 2B Stage 2A
K1101236	21 Soil & 2 Filter Wipes	Stage 3 Stage 2A
K1101241	21 Soil & 1 Filter Wipe	Stage 2B Stage 2A
K1101244	16 Soil	Stage 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables, with the following exceptions as noted. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG K1101209: Sample FB0035 was noted as FW0035 by the laboratory. The EDD was corrected by the client prior to receipt by EcoChem. Other than noting this discrepancy, no further action was taken.

SDG K1101241: Sample FW0108 was noted as FB0108 by the laboratory. The EDD was corrected by the client prior to receipt by EcoChem. Other than noting this discrepancy, no further action was taken.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Receipt, Preservation, and Holding Times	2	Matrix Spike Samples
	Initial Calibration	2	Laboratory Duplicates
	Continuing Calibration Verification	1	Field Replicates
2	ICP-MS Tune		Interference Check Samples
	CRDL Standards	2	Serial Dilutions
2	Laboratory Blanks		ICP-MS Internal Standards
2	Field Blanks	1	Reporting Limits
	Laboratory Control Samples (LCS/LCSD)	1	Reported Results
	Reference Materials	1	Calculation Verification (Stage 3 only)

[1] ***Quality control results are discussed below, but no data were qualified***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.7°C. These outliers did not impact data quality; no data were qualified.

ICP-MS Tune

SDG K1101241: The mass calibration value was greater than the control limit of (+/- 0.1) amu for mass tune mass at 118.903 amu. Antimony was analyzed using the isotope at 123 amu. All associated antimony results were estimated (J/UJ-5A).

Laboratory Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-7). No action is taken if the sample result is greater than the action level, or for non-detected results.

In addition, some analytes were found at levels less than the MDL in some instrument blanks. For negative blanks, action levels of 5x the absolute value of the blank concentrations were established. Results less than the action levels in the associated samples were estimated (J/UJ-7) to indicate a potential low bias.

Laboratory blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however only the following analytes required qualification in one or more samples:

SDG K1101209: soil: cadmium – not detected (U-7), mercury – low bias (J-7)

filter wipes: cadmium, thallium – not detected (U-7)

SDG K1101236: soil: antimony – not detected (U-7)

filter wipes: cadmium, iron – not detected (U-7)

SDG K1101241: soil: antimony, cadmium, cobalt, silver, thallium – not detected (U-7),

beryllium– low bias (J/UJ-7)

filter wipe: cadmium – not detected (U-7)

SDG K1101244: soil: mercury, thallium – not detected (U-7)

Field Blanks

To evaluate the effect on the sample data, action levels of 5x the blank concentrations were established. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-6) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

The field blanks for this project are filter wipe samples. Laboratory blanks are used to evaluate all associated field blanks. The contamination in the filter wipe blanks was further evaluated based on Samples FB0035 and FB0090 (the master filter wipe blanks). After qualifiers were issued based on method and master filter wipe blanks, positive results for several target analytes remained in filter wipe samples. No field sample results were qualified based on filter wipe blank contamination; the associated results were detected at concentrations greater than the action levels.

SDG K1101209: Four filter wipe blanks, FW0032, FW0033, FW0034, and FB0035, were submitted with this SDG. Based on contamination reported in the master filter wipe arsenic, chromium, copper, magnesium, manganese, and zinc were qualified as not detected (U-6) in Samples FW0032, FW0033, and FW0034; barium was qualified as not detected (U-6) in Sample FW0032; and nickel was qualified as not detected (U-6) in Sample FW0034.

SDG K1101236: Two filter wipe blanks, FW0081 and FB0090, were submitted with this SDG. Based on contamination reported in the master filter wipe aluminum, antimony, arsenic, calcium, chromium, copper, magnesium, manganese, nickel, potassium, sodium, and zinc were qualified as not detected (U-6) in filter wipe Sample FW0081.

SDG K1101241: One filter wipe blank, FW0108, was submitted with this SDG. Based on contamination reported in the master filter wipe aluminum, antimony, arsenic, calcium, chromium, copper, magnesium, manganese, nickel, potassium, sodium, and zinc were qualified as not detected (U-6) in Sample FW0108.

Matrix Spikes

Matrix spike samples (MS) were analyzed at the proper frequency of one per 20 samples or one per batch for soil samples. If the MS percent recovery (%R) value indicates a potential low bias, associated results are estimated (J/UJ-8). If the %R value indicates a potential high bias, only the associated positive results are estimated (J-8). For %R values less than 30%, indicating an extreme low bias, the results for the post digestion spike were also evaluated. If the post spike %R values were acceptable, then associated results were estimated (J/UJ-8). If the post spike %R value was also outside of the control limits of 75%-125%, then positive results were estimated (J-8) and non-detects were rejected (R-8).

The following analytes were qualified in one or more samples based on %R value outliers.

SDG K1101209: SL0020: zinc (low bias)

SDG K1101236: SL0060: antimony (low bias); manganese (high bias), SL0079: antimony (low bias)

SDG K1101241: SL0091: antimony, magnesium (low bias); aluminum (high bias), SL0110: antimony, calcium (low bias)

SDG K1101244: SL0036: chromium, copper, lead, nickel, vanadium, zinc (low bias)

Laboratory Duplicates

SDG K1101209, K1101236, & K1101241: There was insufficient sample to analyze duplicates for the wipe samples; the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) relative percent difference (RPD) values were used to evaluate laboratory precision.

Laboratory duplicates were analyzed at the proper frequency of one per 20 samples or one per batch for the soil samples. The following acceptance criteria were used to evaluate precision. The RPD control limit is 20% for all analytes except mercury, which is 30%. The RPD control limits apply to results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL.

For RPD or difference values greater than the control limits, associated positive results and non-detects were estimated (J/UJ-9). The following outliers were noted:

SDG K1101209: SL0020: aluminum (24.6%), barium (53.1%), magnesium (38.2%), manganese (33.3%), zinc (difference > 2x the RL)

SDG K1101236: SL0079: manganese (72.8%), vanadium (37.1%), zinc (327%); SL0080: cadmium (47.7%), thallium (22.8%)

SDG K1101241: SL0091: chromium (35%), magnesium (167.5%), zinc (26.8%)

SDG K1101244: SL0036: cadmium (42.4%), chromium (54.3%), vanadium (23.8%)

Field Replicates

The following acceptance criteria were used to evaluate precision: the RPD control limit is 50% for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the absolute difference between the sample and replicate must be less than 2x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1101209: Two pair of field replicates were submitted, Samples SL0003 & SL0004 and SL0024 & SL0025. In set SL0024 & SL0025, the calculated difference for cobalt was greater than the control limit.

SDG K1101236: One pair of field replicates was submitted, Sample SL0062 & SL0063. The RPD values for arsenic, cadmium, cobalt, and manganese were greater than the control limit.

SDG K1101241: One pair of field replicates was submitted, Sample SL0093 & SL0095. Field precision was acceptable.

SDG K1101244: One pair of field replicates was submitted, Sample SL0040 & SL0041. The RPD values for cadmium, thallium, and mercury were greater than the control limit. The calculated difference for arsenic and nickel were greater than the control limit.

ICP Serial Dilution

Serial dilutions were analyzed at the proper frequency of one per 20 samples or one per batch; whichever was more frequent. The percent difference (%D) values were less than the control limit of 10% for results greater than 50 times the MDL, except as noted below. For %D outliers, all associated results were estimated (J/UJ-16). The sample used for the serial dilution analysis and the analytes with %D outliers are noted below:

SDG K1101209: SL0001: chromium, magnesium, and vanadium

SDG K1101236: SL0079: beryllium and zinc

SDG K1101241: SL0091: magnesium

Reporting Limits

SDG K1101209: Reported concentrations for several compounds were greater than the calibrated linear range of the instrument in soil samples. Affected sample extracts were diluted (10x or 20x) and re-analyzed. Only the most appropriate result was reported in the EDD and hardcopy data package. Reporting limits were elevated accordingly.

SDG K1101241: The RL for zinc was greater than the advisory RL of two mg/kg.

SDG K1101244: Reported concentrations for several compounds were greater than the calibrated linear range of the instrument in soil samples. Affected sample extracts were diluted (10x, 20x, or 50X) and re-analyzed. Only the most appropriate result was reported in the EDD and hardcopy data package. Reporting limits were elevated accordingly.

Reported Results

SDGs K1101236 & K1101241: Additional analytes were analyzed for these SDGs. Antimony, beryllium, calcium, iron, potassium, selenium, silver, and sodium were added to the target analyte list in order to complete a background evaluation for these soils.

Calculation Verification

SDG K1011236: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. With the exceptions noted above, accuracy was acceptable as demonstrated by the LCS/LCSD and MS %R values. With the exceptions noted above, precision was also acceptable as demonstrated by the laboratory duplicate, field replicate, and LCS/LCSD RPD values.

Data were estimated and/or qualified not detected based on laboratory and field blank outliers. Data were also estimated based on ICP-MS tune outliers, MS recovery outliers, serial dilution %D outliers, and laboratory duplicate RPD outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Soil Study
Conventional Parameters

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1101209	31 Soil	Stage 2B
K1101236	21 Soil	Stage 3
K1101241	21 Soil	Stage 2B
K1101244	16 Soil	Stage 2B

The analytical tests that were performed are summarized below.

Parameter	Method
Total Organic Carbon (TOC)	SW9060M
Particle Size	PSEP
Total Solids	EPA 160.3M

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times		Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
	Initial Calibration		Laboratory Duplicates
1	Calibration Verification	1	Field Replicates
	Laboratory Blanks		Reporting Limits
	Laboratory Control Samples (LCS)	1	Calculation Verification

[1] ***Quality control results are discussed below, but no data were qualified.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.7°C. These outliers did not impact data quality; no data were qualified.

Calibration Verification

SDG K1101241: One continuing calibration verification (CCV) standard was greater than the upper control limit of 110% for the TOC analysis. The bracketed samples were reanalyzed and the associated CCV standards were within control limits. The results from the reanalysis were reported. No further action was necessary.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 50% for results greater than five times (5x) the reporting limit (RL). For results less than 5x the RL, the absolute difference between the sample and replicate must be less than 2x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1101209: Two pair of field replicates, Samples SL0003 & SL0004 and SL0024 & SL0025, were submitted. Field precision was acceptable.

SDG K1101236: One set of field replicates, SL0062 and SL0063, was submitted. Field precision was acceptable.

SDG K1101241: One set of field replicates, SL0093 and SL0095, was submitted. Field precision was acceptable.

SDG K1101244: One set of field replicates, SL0040 and SL0041, was submitted. Field precision was acceptable.

Calculation Verification

SDG K1011236: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the matrix spike/matrix spike duplicate (MS/MSD) and laboratory control sample (LCS) percent recovery values. Precision was also acceptable as demonstrated by the MS/MSD sample, laboratory duplicate, and field replicate RPD values.

All data, as reported, are acceptable for use.

EcoChem, INC.
Environmental Data Quality

APPENDIX A

DATA QUALIFIER DEFINITIONS, REASON CODES, AND CRITERIA TABLES

DATA VALIDATION QUALIFIER CODES
Based on National Functional Guidelines

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.

DATA QUALIFIER REASON CODES

1	Holding Time/Sample Preservation
2	Chromatographic pattern in sample does not match pattern of calibration standard.
3	Compound Confirmation
4	Tentatively Identified Compound (TIC) (associated with NJ only)
5A	Calibration (initial)
5B	Calibration (continuing)
6	Field Blank Contamination
7	Lab Blank Contamination (e.g., method blank, instrument, etc.)
8	Matrix Spike(MS & MSD) Recoveries
9	Precision (all replicates)
10	Laboratory Control Sample Recoveries
11	A more appropriate result is reported (associated with “R” and “DNR” only)
12	Reference Material
13	Surrogate Spike Recoveries (a.k.a., labeled compounds & recovery standards)
14	Other (define in validation report)
15	GFAA Post Digestion Spike Recoveries
16	ICP Serial Dilution % Difference
17	ICP Interference Check Standard Recovery
18	Trip Blank Contamination
19	Internal Standard Performance (e.g., area, retention time, recovery)
20	Linear Range Exceeded
21	Potential False Positives
22	Elevated Detection Limit Due to Interference (i.e., laboratory, chemical and/or matrix)

EcoChem Validation Guidelines for Volatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C±2°C Water: HCl to pH < 2	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Hold Time	Waters: 14 days preserved 7 Days: unpreserved (for aromatics) Solids: 14 Days	J(+)/UJ(-) if hold times exceeded If exceeded by > 3X HT: J(+)/R(-) (EcoChem PJ)	1
Tuning	BFB Beginning of each 12 hour period Method acceptance criteria	R(+/-) all analytes in all samples associated with the tune	5A
Initial Calibration (Minimum 5 stds.)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5A
	%RSD < 30%	(EcoChem PJ, see TM-06) J(+) if %RSD > 30%	5A
Continuing Calibration (Prior to each 12 hr. shift)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5B
	%D <25%	(EcoChem PJ, see TM-06) If > +/-90%: J+/R- If -90% to -26%: J+ (high bias) If 26% to 90%: J+/UJ- (low bias)	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample (+) result is less than CRQL and less than appropriate 5X or 10X rule (raise sample value to CRQL)	7
		U(+) if sample (+) result is greater than or equal to CRQL and less than appropriate 5X and 10X rule (at reported sample value)	7
	No TICs present	R(+) TICs using 10X rule	7
Storage Blank	One per SDG <CRQL	U(+) the specific analyte(s) results in all assoc.samples using the 5x or 10x rule	7
Trip Blank	Frequency as per project QAPP	Same as method blank for positive results remaining in trip blank after method blank qualifiers are assigned	18
Field Blanks (if required in QAPP)	No results > CRQL	Apply 5X/10X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Volatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One per matrix per batch Use method acceptance criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One per matrix per batch Use method acceptance criteria	J(+) in parent sample if RPD > CL	9
LCS *low conc. H2O VOA*	One per lab batch Within method control limits	J(+) assoc. cmpd if > UCL J(+)/R(-) assoc. cmpd if < LCL J(+)/R(-) all cmpds if half are < LCL	10
LCS *regular VOA (H2O & solid)*	One per lab batch Lab or method control limits	J(+) if %R > UCL J(+)/UJ(-) if %R <LCL J(+)/R(-) if %R < 10% (EcoChem PJ)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	Added to all samples Within method control limits	J(+) if %R >UCL J(+)/UJ(-) if %R <LCL but >10% (see PJ[1]) J(+)/R(-) if <10%	13
Internal Standard (IS)	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	J(+) if > 200% J(+)/UJ(-) if < 50% J(+)/R(-) if < 25% RT>30 seconds, narrate and Notify PM	19
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
TICs	Major ions (>10%) in reference must be present in sample; intensities agree within 20%; check identification	NJ the TIC unless: R(+) common laboratory contaminants See Technical Director for ID issues	4
Quantitation/ Identification	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	See Technical Director if outliers	14 21 (false +)

PJ[1] No action if there are 4+ surrogates and only 1 outlier.

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EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C ±2°	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Holding Time	Water: 7 days from collection Soil: 14 days from collection Analysis: 40 days from extraction	Water: J(+)/UJ(-) if ext. > 7 and < 21 days J(+)/R(-) if ext > 21 days (EcoChem PJ) Solids/Wastes: J(+)/UJ(-) if ext. > 14 and < 42 days J(+)/R(-) if ext. > 42 days (EcoChem PJ) J(+)/UJ(-) if analysis >40 days	1
Tuning	DFTPP Beginning of each 12 hour period Method acceptance criteria	R(+/-) all analytes in all samples associated with the tune	5A
Initial Calibration (Minimum 5 stds.)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5A
	%RSD < 30%	(EcoChem PJ, see TM-06) J(+) if %RSD > 30%	5A
Continuing Calibration (Prior to each 12 hr. shift)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5B
	%D <25%	(EcoChem PJ, see TM-06) If > +/-90%: J+/R- If -90% to -26%: J+ (high bias) If 26% to 90%: J+/UJ- (low bias)	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample (+) result is less than CRQL and less than appropriate 5X or 10X rule (raise sample value to CRQL)	7
		U(+) if sample (+) result is greater than or equal to CRQL and less than appropriate 5X and 10X rule (at reported sample value)	7
	No TICs present	R(+) TICs using 10X rule	7
Field Blanks (Not Required)	No results > CRQL	Apply 5X/10X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One per matrix per batch Use method acceptance criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One per matrix per batch Use method acceptance criteria	J(+) in parent sample if RPD > CL	9
LCS low conc. H2O SVOA	One per lab batch Within method control limits	J(+) assoc. cmpd if > UCL J(+)/R(-) assoc. cmpd if < LCL J(+)/R(-) all cmpds if half are < LCL	10
LCS regular SVOA (H2O & solid)	One per lab batch Lab or method control limits	J(+) if %R > UCL J(+)/UJ(-) if %R <LCL J(+)/R(-) if %R < 10% (EcoChem PJ)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	Minimum of 3 acid and 3 base/neutral compounds Use method acceptance criteria	Do not qualify if only 1 acid and/or 1 B/N surrogate is out unless <10% J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) if %R < 10%	13
Internal Standards	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	J(+) if > 200% J(+)/UJ(-) if < 50% J(+)/R(-) if < 25% RT>30 seconds, narrate and Notify PM	19
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
TICs	Major ions (>10%) in reference must be present in sample; intensities agree within 20%; check identification	NJ the TIC unless: R(+) common laboratory contaminants See Technical Director for ID issues	4
Quantitation/ Identification	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	See Technical Director if outliers	14 21 (false +)

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EcoChem Validation Guidelines for Pesticides, PCBs, Herbicides, and Phenol by GC/ECD (Based on Organic NFG 1999 & EPA SW-846 Methods 8081/8082/8041/8151)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C ±2°	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Holding Time	Water: 7 days from collection Soil: 14 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext/analyzed > HT J(+)/R(-) if ext/analyzed > 3X HT (EcoChem PJ)	1
Resolution Check	Beginning of ICAL Sequence Within RTW Resolution >90%	Narrate (Use Professional Judgement to qualify)	14
Instrument Performance (Breakdown)	DDT Breakdown: < 20% Endrin Breakdown: <20% Combined Breakdown: <30% Compounds within RTW	J(+) DDT NJ(+) DDD and/or DDE R(-) DDT - If (+) for either DDE or DDD J(+) Endrin NJ(+) EK and/or EA R(-) Endrin - If (+) for either EK or EA	5A
Retention Times	Surrogates: TCX (+/- 0.05); DCB (+/- 0.10) Target compounds: elute before heptachlor epoxide (+/- 0.05) elute after heptachlor epoxide (+/- 0.07)	NJ(+)/R(-) results for analytes with RT shifts For full DV, use PJ based on examination of raw data	5B
Initial Calibration	Pesticides: Low=CRQL, Mid=4X, High=16X Multiresponse - one point Calibration %RSD<20% %RSD<30% for surr; two comp. may exceed if <30% Resolution in Mix A and Mix B >90%	J(+)/UJ(-)	5A
Continuing Calibration	Alternating PEM standard and INDA/INDB standards every 12 hours (each preceeded by an inst. Blank) %D < 25% Resolution >90% in IND mixes; 100% for PEM	J(+)/UJ(-) J(+)R(-) if %D > 90% PJ for resolution	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample result is < CRQL and < 5X rule (raise sample value to CRQL) U(+) if sample result is > or equal to CRQL and < 5X rule (at reported sample value)	7
Instrument Blanks	Analyzed at the beginning of every 12 hour sequence No analyte > 1/2 CRQL	Same as Method Blank	7
Field Blanks	Not addressed by NFG No results > CRQL	Apply 5X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Pesticides, PCBs, Herbicides, and Phenol by GC/ECD (Based on Organic NFG 1999 & EPA SW-846 Methods 8081/8082/8041/8151)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One set per matrix per batch Method Acceptance Criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One set per matrix per batch Method Acceptance Criteria	J(+) in parent sample if RPD > CL	9
LCS	One per SDG Method Acceptance Criteria	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	TCX and DCB added to every sample %R = 30-150%	J(+)/UJ(-) if both %R = 10 - 60% J(+) if both >150% J(+)/R(-) if any %R <10%	13
Quantitation/ Identification	Quantitated using ICAL calibration factor (CF) RPD between columns <40%	J(+) if RPD = 40 - 60% NJ(+) if RPD >60% EcoChem PJ - See TM-08	3
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used to avoid reporting two results for one sample	11
Sample Clean-up	GPC required for soil samples Florisil required for all samples Sulfur is optional Clean-up standard check %R within CLP limits	J(+)/UJ(-) if %R < LCL J(+) if %R > UCL	14
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate (Qualifiy if required by project QAPP)	9

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler/Storage Temperature	Waters/Solids < 4°C Tissues <-10°C	EcoChem PJ, see TM-05	1
Holding Time	Extraction - Water: 30 days from collection *Note:* Under CWA, SDWA, and RCRA the HT for H2O is 7 days* Extraction - Soil: 30 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext > 30 days J(+)/UJ(-) if analysis > 40 Days EcoChem PJ, see TM-05	1
Mass Resolution	>=10,000 resolving power at m/z 304.9824 Exact mass of m/z 380.9760 w/in 5 ppm of theoretical value (380.97410 to 380.97790) . Analyzed prior to ICAL and at the start and end of each 12 hr. shift	R(+/-) if not met	14
Window Defining Mix and Column Performance Mix	Window defining mixture/Isomer specificity std run before ICAL and CCAL Valley < 25% (valley = (x/y)*100%) x = ht. of TCDD y = baseline to bottom of valley For all isomers eluting near 2378-TCDD/TCDF isomers (TCDD only for 8290)	J(+) if valley > 25%	5A (ICAL) 5B (CCAL
Initial Calibration	Minimum of five standards %RSD < 20% for native compounds %RSD <30% for labeled compounds (%RSD <35% for labeled compounds under 1613b)	J(+) natives if %RSD > 20%	5A
	Abs. RT of $^{13}C_{12}$-1234-TCDD >25 min on DB5 >15 min on DB-225	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10 for all native and labeled compounds in CS1 std.	If <10, elevate Det. Limit or R(-)	

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Continuing Calibration	Analyzed at the start and end of each 12 hour shift. %D+/-20% for native compounds %D +/-30% for labeled compounds (Must meet limits in Table 6, Method 1613B) (If %Ds in the closing CCAL are w/in 25%/35% the avg RF from the two CCAL may be used to calculate samples per Method 8290, Section 8.3.2.4)	Do not qualify labeled compounds. Narrate in report for labeled compound %D outliers. For native compound %D outliers: 8290: J(+)/UJ(-) if %D = 20% - 75% J(+)/R(-) if %D > 75% 1613: J(+)/UJ(-) if %D is outside Table 6 limits J(+)/R(-) if %D is +/- 75% of Table 6 limit	5B
	Abs. RT of $^{13}C_{12}$-1234-TCDD and $^{13}C12$-123789-HxCDD +/- 15 sec of ICAL.	EcoChem PJ, see ICAL section of TM-05	
	RRT of all other compounds must meet Table 2 of 1613B.	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10	If <10, elevate Det. Limit or R(-)	
Method Blank	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	7
Field Blanks (Not Required)	No positive results	If sample result <5X action level, qualify U at reported value.	6
LCS / OPR	Concentrations must meet limits in Table 6, Method 1613B or lab limits.	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
MS/MSD (recovery)	May not analyze MS/MSD %R should meet lab limits.	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	May not analyze MS/MSD RPD < 20%	J(+) in parent sample if RPD > CL	9

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Lab Duplicate	RPD <25% if present.	J(+)/UJ(-) if outside limts	9
Labeled Compounds / Internal Standards	*Method 8290:* %R = 40% - 135% in all samples *Method 1613B:* %R must meet limits specified in Table 7, Method 1613	J(+)/UJ(-) if %R = 10% to LCL J(+) if %R > UCL J(+)/R(-) if %R < 10%	13
Quantitation/ Identification	Ions for analyte, IS, and rec. std. must max w/in 2 sec. S/N >2.5 IA ratios meet limits in Table 9 of 1613B or Table 8 of 8290 RRTs w/in limits in Table 2 of 1613B	If RT criteria not met, use PJ (see TM-05) If S/N criteria not met, J(+). if unlabelled ion abundance not met, change to EMPC If labelled ion abundance not met, J(+).	21
EMPC (estimated maximum possible concentration)	If quantitation idenfication criteria are not met, laboratory should report an EMPC value.	If laboratory correctly reported an EMPC value, qualify with U to indicate that the value is a detection limit.	14
Interferences	PCDF interferences from PCDPE	If both detected, change PCDF result to EMPC	14
Second Column Confirmation	All 2378-TCDF hits must be confirmed on a DB-225 (or equiv) column. All QC specs in this table must be met for the confirmation analysis.	Report lower of the two values. If not performed use PJ (see TM-05).	3
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used	11

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EcoChem Validation Guidelines for Metals Analysis by ICP (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration Tissues: Frozen	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, r > 0.995	J(+)/UJ(-) if r < 0.995 (multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±10% of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within ±10% of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B

Initial and Continuing Calibration Blank (ICB/CCB)	After each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		(Refer to TM-02 for additional information)
			7

Reporting Limit Standard	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Sb, Pb, Tl)	R(-)/J(+) < 2x RL if %R <50% (< 30% Sb, Pb, Tl) J(+) < 2x RL, UJ(-) if %R 50-69% (30-49% Sb, Pb,Tl) J(+) < 2x RL if %R 130-180% (150-200% Sb, Pb, Tl) R(+) < 2x RL if %R > 180% (200% Sb, Pb, Tl)	14
Interference Check Samples (ICSA/ICSAB)	ICSAB %R 80 - 120% for all spiked elements | ICSA | < MDL for all unspiked elements except: K, Na	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R >120% J(+)/UJ(-) if %R= 50 to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	

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EcoChem Validation Guidelines for Metals Analysis by ICP
(Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Matrix Spikes	One per matrix per batch 75-125% for samples less than 4x spike level	J(+) if %R > 125% J(+)/UJ(-) if %R < 75% J(+)/R(-) if %R < 30% or J(+)/UJ(-) if Post Spike %R 75-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, spike at twice the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples >RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL (2x RL for solids) qualify all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample conc. > 50x MDL	J(+)/UJ(-) if %D >10% qualify all samples in batch	16
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

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EcoChem Validation Guidelines for Metals Analysis by ICP-MS (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Tune	Prior to ICAL monitoring compounds analyzed 5 times wih Std Dev. ≤ 5% mass calibration <0.1 amu from True Value Resolution < 0.9 AMU @ 10% peak height or <0.75 amu @ 5% peak height	Use Professional Judgment to evaluate tune J(+)/UJ(-) if tune criteria not met	5A
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, r>0.995	J(+)/UJ(-) if r<0.995 (for multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±10% of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run ±10% of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B

Initial and Continuing Calibration Blanks (ICB/CCB)	After each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Reporting Limit Standard (CRI)	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Co,Mn, Zn)	R(-),(+) < 2x RL if %R < 50% (< 30% Co,Mn, Zn) J(+) < 2x RL, UJ(-) if %R 50-69% (30%-49% Co,Mn, Zn) J(+) < 2x RL if %R 130%-180% (150%-200% Co,Mn, Zn) R(+) < 2x RL if %R > 180% (200% Co, Mn, Zn)	14
Interference Check Samples (ICSA/ICSAB)	Required by SW 6020, but not 200.8 ICSAB %R 80% - 120% for all spiked elements | ICSA | < IDL (MDL) for all unspiked elements	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R >120% J(+)/UJ(-) if %R = 50% to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7

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EcoChem Validation Guidelines for Metals Analysis by ICP-MS
(Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Laboratory Control Sample (LCS)	One per matrix per batch Blank Spike: %R within 80%-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spike/ Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 75-125% for samples where results do not exceed 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R <75% J(+)/R(-) if %R<30% or J(+)/UJ(-) if Post Spike %R 75%-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, Spike parent sample at 2x the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5 x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample values > 50x MDL	J(+)/UJ(-) if %D >10% All samples in batch	16
Internal Standards	Every sample SW6020: 60%-125% of cal blank IS 200.8: 30%-120% of cal blank IS	J (+)/UJ (-) all analytes associated with IS outlier	19
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < AL in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	28 days from date sampled Frozen tissues: HT extended to 6 months	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + 4 standards, one at RL r > 0.995	J(+)/UJ(-) if r<0.995	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5B

Initial and Continuing Calibration Blanks (ICB/CCB)	after each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Reporting Limit Standard (CRA)	conc at RL - analyzed beginning of run %R = 70-130%	R(-),(+)<2xRL if %R <50% J(+)<2x RL, UJ(-) if %R 50-69% J(+) <2x RL if %R 130-180% R(+)<2x RL if %R>180%	14
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch		10
	Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 5% frequency 75-125% for samples less than 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R <75% J(+)/R(-) if %R<30% all samples in batch	8
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9

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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5x RL: Water: Diff<RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must be less than 110% of high standard	J values over range	20

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EcoChem Validation Guidelines for Conventional Chemistry Analysis (Based on EPA Standard Methods)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler Temperature 4°C ±2°C Preservation: Method Specific	Use Professional Judgment to qualify based to qualify for coole temp outliers J(+)/UJ(-) if preservation requirements not met	1
Holding Time	Method Specific	Professional Judgment J(+)/UJ(-) if holding time exceeded J(+)/R(-) if HT exceeded by > 3X	1
Initial Calibration	Method specific r>0.995	Use professional judgment J(+)/UJ(-) for r < 0.995	5A
Initial Calibration Verification (ICV)	Where applicable to method Independent source analyzed immediately after calibration %R method specific, usually 90% - 110%	R(+/-) if %R significantly < LCL J(+)/UJ(-) if %R < LCL J(+) if %R > UCL R(+) if %R significantly > UCL	5A
Continuing Cal Verification (CCV)	Where applicable to method Every ten samples, immed. following ICV/ICB and end of run %R method specific, usually 90% - 110%	R(+/-) if %R significantly < LCL J(+)/UJ(-) if %R < LCL J(+) if %R > UCL R(+) if %R significantly > UCL	5B

Initial and Continuing Cal Blanks (ICB/CCB)	Where applicable to method
	After each ICV and CCV every ten samples and end of run
	| blank| < MDL
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Method Blank	One per matrix per batch
	(not to exceed 20 samples)
	blank < MDL
		Action level is 5x absolute value of blank conc.
		For (+) blk value, U(+) results < action level
		For (-) blk value, J(+)/UJ(-) results < action level
			7

Laboratory Control Sample	Waters: One per matrix per batch %R (80-120%)	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	Soils: One per matrix per batch Result within manufacturer's certified acceptance range	J(+)/UJ(-) if < LCL, J(+) if > UCL	10
Matrix Spike	One per matrix per batch; 5% frequency 75-125% for samples less than 4 x spike level	J(+) if %R > 125% or < 75% UJ(-) if %R = 30-74% R(+/-) results < IDL if %R < 30%	8
Laboratory Duplicate	One per matrix per batch RPD <20% for samples > 5x RL Diff <RL for samples >RL and <5 x RL (may use RPD < 35%, Diff < 2X RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9

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EcoChem Validation Guidelines for Conventional Chemistry Analysis (Based on EPA Standard Methods)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Field Blank	blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5X RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff<RL Solid: Diff < 2X RL	J(+)/UJ(-) in parent samples only	9

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EcoChem, INC.
Environmental Data Quality

APPENDIX B
QUALIFIED DATA SUMMARY TABLE

Qualified Data Summary Table
San Jacinto River Waste Pits - Soil Study

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
E1100143	SL0001	E1100143-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.399	ng/kg	JK	U	22
E1100143	SL0001	E1100143-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.318	ng/kg	CJ	DNR	11
E1100143	SL0002	E1100143-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.07	ng/kg	C	DNR	11
E1100143	SL0003	E1100143-003	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.127	ng/kg	JK	U	22
E1100143	SL0003	E1100143-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.596	ng/kg	JK	U	22
E1100143	SL0003	E1100143-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.292	ng/kg	JK	U	22
E1100143	SL0003	E1100143-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	6.4	ng/kg	C	DNR	11
E1100143	SL0004	E1100143-004	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.24	ng/kg	JK	U	22
E1100143	SL0004	E1100143-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	10	ng/kg	C	DNR	11
E1100143	SL0005	E1100143-005	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.129	ng/kg	JK	U	22
E1100143	SL0005	E1100143-005	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.512	ng/kg	JK	U	22
E1100143	SL0005	E1100143-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.232	ng/kg	JK	U	22
E1100143	SL0005	E1100143-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	5.25	ng/kg	C	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	75.7	ng/kg	B,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	3.11	ng/kg	JK,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.909	ng/kg	U,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.218	ng/kg	JK	U	22
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.861	ng/kg	U,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.384	ng/kg	JK	U	22
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.23	ng/kg	U,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.45	ng/kg	U,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.13	ng/kg	U,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.149	ng/kg	JK	U	22
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.06	ng/kg	U,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.24	ng/kg	U,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.36	ng/kg	U,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.33	ng/kg	U,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.27	ng/kg	U,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.157	ng/kg	JK	U	22
E1100143	SL0006	E1100143-006	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.345	ng/kg	U,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.43	ng/kg	U,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.6	ng/kg	U,D	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.311	ng/kg	CJ	DNR	11
E1100143	SL0006	E1100143-006	EPA1613B	Octachlorodibenzo-p-dioxin	5850	ng/kg	BE	DNR	20
E1100143	SL0006	E1100143-006	EPA1613B	Octachlorodibenzo-p-furan	9.01	ng/kg	J,D	DNR	11

Qualified Data Summary Table
San Jacinto River Waste Pits - Soil Study

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
E1100143	SL0007	E1100143-007	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.0982	ng/kg	JK	U	22
E1100143	SL0007	E1100143-007	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.208	ng/kg	JK	U	22
E1100143	SL0007	E1100143-007	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.471	ng/kg	JK	U	22
E1100143	SL0007	E1100143-007	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0743	ng/kg	JK	U	22
E1100143	SL0008	E1100143-008	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.525	ng/kg	JK	U	22
E1100143	SL0008	E1100143-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.635	ng/kg	JK	U	22
E1100143	SL0008	E1100143-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	8.14	ng/kg	C	DNR	11
E1100143	SL0009	E1100143-009	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.164	ng/kg	JK	U	22
E1100143	SL0009	E1100143-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.172	ng/kg	JK	U	22
E1100143	SL0009	E1100143-009	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.199	ng/kg	JK	U	22
E1100143	SL0009	E1100143-009	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.13	ng/kg	JK	U	22
E1100143	SL0009	E1100143-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.283	ng/kg	JK	U	22
E1100143	SL0009	E1100143-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.03	ng/kg	CJ	DNR	11
E1100143	SL0010	E1100143-010	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.101	ng/kg	JK	U	22
E1100143	SL0010	E1100143-010	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.237	ng/kg	JK	U	22
E1100143	SL0010	E1100143-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.319	ng/kg	CJK	DNR	11
E1100143	SL0011	E1100143-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	12.5	ng/kg	C	DNR	11
E1100143	SL0012	E1100143-012	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.0696	ng/kg	JK	U	22
E1100143	SL0012	E1100143-012	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.183	ng/kg	JK	U	22
E1100143	SL0012	E1100143-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	27.7	ng/kg	C	DNR	11
E1100143	SL0013	E1100143-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	87.9	ng/kg	C	DNR	11
E1100143	SL0014	E1100143-014	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.28	ng/kg	JK	U	22
E1100143	SL0014	E1100143-014	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.175	ng/kg	JK	U	22
E1100143	SL0014	E1100143-014	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.975	ng/kg	JK	U	22
E1100143	SL0014	E1100143-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	520	ng/kg	CE	DNR	11
E1100143	SL0015	E1100143-015	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.144	ng/kg	JK	U	22
E1100143	SL0015	E1100143-015	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.106	ng/kg	JK	U	22
E1100143	SL0015	E1100143-015	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.124	ng/kg	JK	U	22
E1100143	SL0015	E1100143-015	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0852	ng/kg	JK	U	22
E1100143	SL0015	E1100143-015	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.127	ng/kg	JK	U	22
E1100143	SL0015	E1100143-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.363	ng/kg	JK	U	22
E1100143	SL0015	E1100143-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.51	ng/kg	C	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	165	ng/kg	BJ,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	3.99	ng/kg	U,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	5.16	ng/kg	U,D	DNR	11

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
E1100143	SL0016	E1100143-016	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	3.33	ng/kg	U,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	4.11	ng/kg	U,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	5.24	ng/kg	U,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	3.69	ng/kg	U,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.134	ng/kg	JK	U	22
E1100143	SL0016	E1100143-016	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	3.95	ng/kg	U,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.0651	ng/kg	JK	U	22
E1100143	SL0016	E1100143-016	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	3.73	ng/kg	U,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	5.52	ng/kg	U,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	3.03	ng/kg	U,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	4.02	ng/kg	U,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	2.88	ng/kg	U,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.278	ng/kg	JK	U	22
E1100143	SL0016	E1100143-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	4.86	ng/kg	U,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	6.78	ng/kg	U,D	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.922	ng/kg	CJ	DNR	11
E1100143	SL0016	E1100143-016	EPA1613B	Octachlorodibenzo-p-dioxin	18700	ng/kg	BE	DNR	20
E1100143	SL0016	E1100143-016	EPA1613B	Octachlorodibenzo-p-furan	13.6	ng/kg	JK,D	DNR	11
E1100143	SL0017	E1100143-017	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.101	ng/kg	JK	U	22
E1100143	SL0017	E1100143-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	13.5	ng/kg	C	DNR	11
E1100143	SL0018	E1100143-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.1	ng/kg	CJ	DNR	11
E1100143	SL0019	E1100143-019	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.111	ng/kg	JK	U	22
E1100143	SL0019	E1100143-019	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.131	ng/kg	JK	U	22
E1100143	SL0019	E1100143-019	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	12.3	ng/kg	C	DNR	11
E1100143	SL0020	E1100143-020	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.909	ng/kg	J	J	10
E1100143	SL0020	E1100143-020	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.35	ng/kg	JK	U	22
E1100143	SL0020	E1100143-020	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0787	ng/kg	BJK	U	22
E1100143	SL0020	E1100143-020	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	11.9	ng/kg	C	DNR	11
E1100143	SL0021	E1100143-021	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.41	ng/kg	JK	U	22
E1100143	SL0021	E1100143-021	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.194	ng/kg	JK	U	22
E1100143	SL0021	E1100143-021	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	10.2	ng/kg	C	DNR	11
E1100143	SL0022	E1100143-022	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.27	ng/kg	J	J	10
E1100143	SL0022	E1100143-022	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.584	ng/kg	JK	U	22
E1100143	SL0022	E1100143-022	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.677	ng/kg	JK	U	22
E1100143	SL0022	E1100143-022	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	7.35	ng/kg	C	DNR	11

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E1100143	SL0023	E1100143-023	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	31.1	ng/kg		J	10
E1100143	SL0023	E1100143-023	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.05	ng/kg	JK	U	22
E1100143	SL0023	E1100143-023	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.346	ng/kg	JK	U	22
E1100143	SL0023	E1100143-023	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.92	ng/kg	BJK	U	22
E1100143	SL0024	E1100143-024	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	10.1	ng/kg		J	10
E1100143	SL0024	E1100143-024	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.425	ng/kg	JK	U	22
E1100143	SL0024	E1100143-024	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.622	ng/kg	BJK	U	22
E1100143	SL0025	E1100143-025	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	27.9	ng/kg		J	10
E1100143	SL0026	E1100143-026	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	20.4	ng/kg		J	10
E1100143	SL0026	E1100143-026	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.669	ng/kg	CJ	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	154	ng/kg	B,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	14.7	ng/kg	J,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	19.2	ng/kg		J	10
E1100143	SL0027	E1100143-027	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.879	ng/kg	U,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.604	ng/kg	U,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.79	ng/kg	U,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	5.17	ng/kg	JK,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.758	ng/kg	U,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.27	ng/kg	JK,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.647	ng/kg	U,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.927	ng/kg	U,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.824	ng/kg	U,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.319	ng/kg	JK	U	22
E1100143	SL0027	E1100143-027	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.875	ng/kg	U,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.922	ng/kg	U,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.35	ng/kg	U,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.35	ng/kg	U,D	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.451	ng/kg	JK	U	22
E1100143	SL0027	E1100143-027	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.02	ng/kg	CJ	DNR	11
E1100143	SL0027	E1100143-027	EPA1613B	Octachlorodibenzo-p-dioxin	4720	ng/kg	BE	DNR	20
E1100143	SL0027	E1100143-027	EPA1613B	Octachlorodibenzo-p-furan	69.5	ng/kg	BJ,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	223	ng/kg	B,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	15.5	ng/kg	J,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	17.1	ng/kg		J	10
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.01	ng/kg	U,D	DNR	11

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E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1	ng/kg	JK	U	22
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.812	ng/kg	U,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.1	ng/kg	JK	U	22
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.1	ng/kg	U,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	4.97	ng/kg	JK,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.05	ng/kg	U,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.482	ng/kg	JK	U	22
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	3.14	ng/kg	J,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.889	ng/kg	U,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.43	ng/kg	U,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.842	ng/kg	U,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.127	ng/kg	JK	U	22
E1100143	SL0028	E1100143-028	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.397	ng/kg	BJK	U	22
E1100143	SL0028	E1100143-028	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.2	ng/kg	U,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.949	ng/kg	U,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.15	ng/kg	U,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.66	ng/kg	U,D	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.571	ng/kg	CJK	DNR	11
E1100143	SL0028	E1100143-028	EPA1613B	Octachlorodibenzo-p-dioxin	7490	ng/kg	BE	DNR	20
E1100143	SL0028	E1100143-028	EPA1613B	Octachlorodibenzo-p-furan	102	ng/kg	BJ,D	DNR	11
E1100143	SL0029	E1100143-029	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.18	ng/kg	J	J	10
E1100143	SL0029	E1100143-029	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.79	ng/kg	JK	U	22
E1100143	SL0029	E1100143-029	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.292	ng/kg	CJK	DNR	11
E1100143	SL0030	E1100143-030	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.618	ng/kg	JK	U	22
E1100143	SL0030	E1100143-030	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.285	ng/kg	JK	U	22
E1100143	SL0030	E1100143-030	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.472	ng/kg	JK	U	22
E1100143	SL0030	E1100143-030	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.781	ng/kg	JK	U	22
E1100143	SL0030	E1100143-030	EPA1613B	Octachlorodibenzo-p-furan	1.73	ng/kg	BJK	U	22
E1100143	SL0031	E1100143-031	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.673	ng/kg	J	J	10
E1100143	SL0031	E1100143-031	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.541	ng/kg	JK	U	22
E1100143	SL0031	E1100143-031	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.394	ng/kg	CJ	DNR	11
E1100143	SL0031	E1100143-031	EPA1613B	Octachlorodibenzo-p-furan	1.62	ng/kg	BJK	U	22
E1100143	FW0032	E1100143-032	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.12	pg	BJK	U	22
E1100143	FW0032	E1100143-032	EPA1613B	Octachlorodibenzo-p-dioxin	14	pg	BJ	U	7
E1100143	FW0032	E1100143-032	EPA1613B	Octachlorodibenzo-p-furan	1.45	pg	JK	U	22

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E1100143	FW0033	E1100143-033	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.657	pg	BJK	U	22
E1100143	FW0033	E1100143-033	EPA1613B	Octachlorodibenzo-p-dioxin	6.59	pg	BJ	U	7
E1100143	FW0034	E1100143-034	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.11	pg	BJK	U	22
E1100143	FW0034	E1100143-034	EPA1613B	Octachlorodibenzo-p-dioxin	15.4	pg	BJ	U	7
E1100143	FB0035	E1100143-035	EPA1613B	Octachlorodibenzo-p-dioxin	2.9	pg	BJK	U	22
E1100145	SL0036	E1100145-001	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	93.2	ng/kg		J	10
E1100145	SL0036	E1100145-001	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.36	ng/kg	JK	U	22
E1100145	SL0036	E1100145-001	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	6.05	ng/kg	JK	U	22
E1100145	SL0036	E1100145-001	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	5.2	ng/kg	BJK	U	22
E1100145	SL0036	E1100145-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	30.9	ng/kg	C	DNR	11
E1100145	SL0037	E1100145-002	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.04	ng/kg	JK	U	22
E1100145	SL0037	E1100145-002	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.581	ng/kg	JK	U	22
E1100145	SL0037	E1100145-002	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	6.24	ng/kg	JK	U	22
E1100145	SL0037	E1100145-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.23	ng/kg	JK	U	22
E1100145	SL0037	E1100145-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	53.6	ng/kg	C	DNR	11
E1100145	SL0038	E1100145-003	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	13.5	ng/kg		J	10
E1100145	SL0038	E1100145-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.28	ng/kg	JK	U	22
E1100145	SL0038	E1100145-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.223	ng/kg	JK	U	22
E1100145	SL0038	E1100145-003	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.307	ng/kg	BJK	U	22
E1100145	SL0038	E1100145-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.175	ng/kg	JK	U	22
E1100145	SL0038	E1100145-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.852	ng/kg	CJ	DNR	11
E1100145	SL0039	E1100145-004	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	17.2	ng/kg		J	10
E1100145	SL0039	E1100145-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.15	ng/kg	CK	DNR	11
E1100145	SL0040	E1100145-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.283	ng/kg	JK	U	22
E1100145	SL0040	E1100145-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.07	ng/kg	C	DNR	11
E1100145	SL0041	E1100145-006	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.28	ng/kg	JK	U	22
E1100145	SL0041	E1100145-006	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	9.02	ng/kg	JK	U	22
E1100145	SL0041	E1100145-006	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.74	ng/kg	JK	U	22
E1100145	SL0041	E1100145-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	3.6	ng/kg	C	DNR	11
E1100145	SL0042	E1100145-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	15.7	ng/kg	C	DNR	11
E1100145	SL0043	E1100145-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	10.6	ng/kg	C	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	233	ng/kg	B,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	28.3	ng/kg	BJ,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.45	ng/kg	U,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.53	ng/kg	J,D	DNR	11

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
E1100145	SL0044	E1100145-009	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	5.84	ng/kg	J,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	6.04	ng/kg	J,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.06	ng/kg	U,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	4.73	ng/kg	J,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.07	ng/kg	U,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.0708	ng/kg	JK	U	22
E1100145	SL0044	E1100145-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.62	ng/kg	U,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.16	ng/kg	U,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.27	ng/kg	U,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.28	ng/kg	U,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.198	ng/kg	JK	U	22
E1100145	SL0044	E1100145-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.31	ng/kg	U,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	4.04	ng/kg	CJ,D	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.68	ng/kg	C	DNR	11
E1100145	SL0044	E1100145-009	EPA1613B	Octachlorodibenzo-p-dioxin	4510	ng/kg	BE	DNR	20
E1100145	SL0044	E1100145-009	EPA1613B	Octachlorodibenzo-p-furan	181	ng/kg	B,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	888	ng/kg	B,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	56.1	ng/kg	B,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	5.47	ng/kg	JK,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.11	ng/kg	JK,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	17.8	ng/kg	JK,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	18.8	ng/kg	J,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	5.98	ng/kg	JK,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	11.4	ng/kg	J,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.734	ng/kg	U,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.84	ng/kg	U,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.92	ng/kg	JP	J	14
E1100145	SL0045	E1100145-010	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	3.46	ng/kg	J,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	8.06	ng/kg	J,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	7	ng/kg	J,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	5.04	ng/kg	P	J	14
E1100145	SL0045	E1100145-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.405	ng/kg	JK	U	22
E1100145	SL0045	E1100145-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.22	ng/kg	U,D	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	11	ng/kg	C	DNR	11
E1100145	SL0045	E1100145-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	13.8	ng/kg	C,D	DNR	11

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
E1100145	SL0045	E1100145-010	EPA1613B	Octachlorodibenzo-p-dioxin	9260	ng/kg	BE	DNR	20
E1100145	SL0045	E1100145-010	EPA1613B	Octachlorodibenzo-p-furan	296	ng/kg	B,D	DNR	11
E1100145	SL0046	E1100145-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	10.8	ng/kg	C	DNR	11
E1100145	SL0047	E1100145-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.279	ng/kg	JK	U	22
E1100145	SL0047	E1100145-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.351	ng/kg	JK	U	22
E1100145	SL0047	E1100145-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.61	ng/kg	C	DNR	11
E1100145	SL0048	E1100145-013	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.231	ng/kg	JK	U	22
E1100145	SL0048	E1100145-013	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.126	ng/kg	JK	U	22
E1100145	SL0048	E1100145-013	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.151	ng/kg	JK	U	22
E1100145	SL0048	E1100145-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.251	ng/kg	JK	U	22
E1100145	SL0048	E1100145-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.03	ng/kg	C	DNR	11
E1100145	SL0049	E1100145-014	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.757	ng/kg	JK	U	22
E1100145	SL0049	E1100145-014	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.794	ng/kg	JK	U	22
E1100145	SL0049	E1100145-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	4.88	ng/kg	C	DNR	11
E1100145	SL0050	E1100145-015	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.114	ng/kg	JK	U	22
E1100145	SL0050	E1100145-015	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.222	ng/kg	JK	U	22
E1100145	SL0050	E1100145-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.42	ng/kg	CJ	DNR	11
E1100145	SL0051	E1100145-016	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.13	ng/kg	BJK	U	22
E1100145	SL0051	E1100145-016	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.191	ng/kg	JK	U	22
E1100145	SL0051	E1100145-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.133	ng/kg	JK	U	22
E1100145	SL0051	E1100145-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.259	ng/kg	CJK	DNR	11
E1100145	SL0051	E1100145-016	EPA1613B	Octachlorodibenzo-p-furan	6.22	ng/kg	BJ	U	7
E1100145	SL0052	E1100145-017	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	206	ng/kg	P	J	14
E1100145	SL0052	E1100145-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	39.6	ng/kg	P	J	14
E1100145	SL0052	E1100145-017	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	36.1	ng/kg	P	J	14
E1100145	SL0052	E1100145-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	154	ng/kg	C	DNR	11
E1100146	SL0060	E1100146-001	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.299	ng/kg	JK	U	22
E1100146	SL0060	E1100146-001	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.112	ng/kg	JK	U	22
E1100146	SL0060	E1100146-001	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.306	ng/kg	JK	U	22
E1100146	SL0060	E1100146-001	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.103	ng/kg	JK	U	22
E1100146	SL0060	E1100146-001	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0979	ng/kg	JK	U	22
E1100146	SL0060	E1100146-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.145	ng/kg	CJK	DNR	11
E1100146	SL0060	E1100146-001	EPA1613B	Octachlorodibenzo-p-furan	3.12	ng/kg	BJ	U	7
E1100146	SL0061	E1100146-002	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.395	ng/kg	JK	U	22
E1100146	SL0061	E1100146-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.103	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
E1100146	SL0061	E1100146-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0851	ng/kg	JK	U	22
E1100146	SL0061	E1100146-002	EPA1613B	Octachlorodibenzo-p-furan	2.19	ng/kg	BJ	U	7
E1100146	SL0062	E1100146-003	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.14	ng/kg	JK	U	22
E1100146	SL0062	E1100146-003	EPA1613B	Octachlorodibenzo-p-furan	0.922	ng/kg	BJ	U	7
E1100146	SL0063	E1100146-004	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0732	ng/kg	JK	U	22
E1100146	SL0063	E1100146-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.22	ng/kg	JK	U	22
E1100146	SL0063	E1100146-004	EPA1613B	Octachlorodibenzo-p-furan	3.73	ng/kg	BJ	U	7
E1100146	SL0065	E1100146-006	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.373	ng/kg	JK	U	22
E1100146	SL0065	E1100146-006	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.187	ng/kg	JK	U	22
E1100146	SL0065	E1100146-006	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.199	ng/kg	JK	U	22
E1100146	SL0065	E1100146-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.316	ng/kg	CJ	DNR	11
E1100146	SL0066	E1100146-007	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.109	ng/kg	JK	U	22
E1100146	SL0066	E1100146-007	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.104	ng/kg	JK	U	22
E1100146	SL0066	E1100146-007	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0354	ng/kg	JK	U	22
E1100146	SL0066	E1100146-007	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.365	ng/kg	JK	U	22
E1100146	SL0066	E1100146-007	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.204	ng/kg	JK	U	22
E1100146	SL0066	E1100146-007	EPA1613B	Octachlorodibenzo-p-furan	1.85	ng/kg	BJ	U	7
E1100146	SL0067	E1100146-008	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.6	ng/kg	JK	U	22
E1100146	SL0068	E1100146-009	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.549	ng/kg	JK	U	22
E1100146	SL0069	E1100146-010	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.118	ng/kg	JK	U	22
E1100146	SL0069	E1100146-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.256	ng/kg	JK	U	22
E1100146	SL0069	E1100146-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.287	ng/kg	CJ	DNR	11
E1100146	SL0070	E1100146-011	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.111	ng/kg	JK	U	22
E1100146	SL0070	E1100146-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.412	ng/kg	CJ	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	79.2	ng/kg	B,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	8.72	ng/kg	BJ,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	3.93	ng/kg	J,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.595	ng/kg	JK	U	22
E1100146	SL0071	E1100146-012	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.8	ng/kg	U,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.68	ng/kg	U,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.421	ng/kg	JK	U	22
E1100146	SL0071	E1100146-012	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.77	ng/kg	U,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.47	ng/kg	U,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.29	ng/kg	U,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.65	ng/kg	U,D	DNR	11

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E1100146	SL0071	E1100146-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.12	ng/kg	U,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.82	ng/kg	U,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.58	ng/kg	U,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.93	ng/kg	U,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.54	ng/kg	U,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.99	ng/kg	U,D	DNR	11
E1100146	SL0071	E1100146-012	EPA1613B	Octachlorodibenzo-p-dioxin	6570	ng/kg	BE	DNR	20
E1100146	SL0071	E1100146-012	EPA1613B	Octachlorodibenzo-p-furan	31.7	ng/kg	J,D	DNR	11
E1100146	SL0072	E1100146-013	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.157	ng/kg	JK	U	22
E1100146	SL0073	E1100146-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	3.16	ng/kg	C	DNR	11
E1100146	SL0074	E1100146-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.533	ng/kg	CJ	DNR	11
E1100146	SL0075	E1100146-016	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.224	ng/kg	JK	U	22
E1100146	SL0075	E1100146-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.072	ng/kg	JK	U	22
E1100146	SL0075	E1100146-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.499	ng/kg	CJ	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	58.2	ng/kg	B,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	5.89	ng/kg	BJK,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.453	ng/kg	JK	U	22
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	2.36	ng/kg	J,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.77	ng/kg	U,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.81	ng/kg	U,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.19	ng/kg	U,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.6	ng/kg	U,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.983	ng/kg	U,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.99	ng/kg	U,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.28	ng/kg	JK	U	22
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.21	ng/kg	U,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.178	ng/kg	JK	U	22
E1100146	SL0076	E1100146-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.65	ng/kg	U,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.394	ng/kg	JK	U	22
E1100146	SL0076	E1100146-017	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.76	ng/kg	U,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.193	ng/kg	JK	U	22
E1100146	SL0076	E1100146-017	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.79	ng/kg	U,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.38	ng/kg	U,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.658	ng/kg	CJ	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.443	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
E1100146	SL0076	E1100146-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.22	ng/kg	U,D	DNR	11
E1100146	SL0076	E1100146-017	EPA1613B	Octachlorodibenzo-p-dioxin	4420	ng/kg	BE	DNR	20
E1100146	SL0076	E1100146-017	EPA1613B	Octachlorodibenzo-p-furan	112	ng/kg	D	DNR	11
E1100146	SL0077	E1100146-018	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.194	ng/kg	JK	U	22
E1100146	SL0077	E1100146-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.356	ng/kg	CJ	DNR	11
E1100146	SL0078	E1100146-019	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.413	ng/kg	JK	U	22
E1100146	SL0078	E1100146-019	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.11	ng/kg	JK	U	22
E1100146	SL0078	E1100146-019	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.383	ng/kg	JK	U	22
E1100146	SL0078	E1100146-019	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.467	ng/kg	CJ	DNR	11
E1100146	SL0079	E1100146-020	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	3.14	ng/kg	JK	U	22
E1100146	SL0079	E1100146-020	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.897	ng/kg	JK	U	22
E1100146	SL0079	E1100146-020	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.49	ng/kg	K	U	22
E1100146	SL0079	E1100146-020	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.96	ng/kg	C	DNR	11
E1100146	SL0080	E1100146-021	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.17	ng/kg	JK	U	22
E1100146	SL0080	E1100146-021	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.558	ng/kg	JK	U	22
E1100146	SL0080	E1100146-021	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.566	ng/kg	JK	U	22
E1100146	SL0080	E1100146-021	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.246	ng/kg	JK	U	22
E1100146	SL0091	E1100146-022	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.568	ng/kg	JK	U	22
E1100146	SL0091	E1100146-022	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.733	ng/kg	JK	U	22
E1100146	SL0091	E1100146-022	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.74	ng/kg	CJ	DNR	11
E1100146	SL0092	E1100146-023	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.166	ng/kg	JK	U	22
E1100146	SL0092	E1100146-023	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.576	ng/kg	JK	U	22
E1100146	SL0092	E1100146-023	EPA1613B	Octachlorodibenzo-p-furan	4.29	ng/kg	JK	U	22
E1100146	SL0093	E1100146-024	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.155	ng/kg	JK	U	22
E1100146	SL0093	E1100146-024	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.453	ng/kg	JK	U	22
E1100146	SL0093	E1100146-024	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.46	ng/kg	JK	U	22
E1100146	SL0093	E1100146-024	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.305	ng/kg	CJK	DNR	11
E1100146	SL0093	E1100146-024	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.371	ng/kg	JK	U	22
E1100146	SL0094	E1100146-025	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.186	ng/kg	JK	U	22
E1100146	SL0094	E1100146-025	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.326	ng/kg	JK	U	22
E1100146	SL0095	E1100146-026	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.311	ng/kg	JK	U	22
E1100146	SL0095	E1100146-026	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.213	ng/kg	JK	U	22
E1100146	SL0095	E1100146-026	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.614	ng/kg	CJK	DNR	11
E1100146	SL0097	E1100146-028	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.199	ng/kg	JK	U	22
E1100146	SL0097	E1100146-028	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.705	ng/kg	BJ	U	7

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E1100146	SL0098	E1100146-029	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.46	ng/kg	JK	U	22
E1100146	SL0098	E1100146-029	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.193	ng/kg	JK	U	22
E1100146	SL0099	E1100146-030	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.202	ng/kg	JK	U	22
E1100146	SL0099	E1100146-030	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.345	ng/kg	JK	U	22
E1100146	SL0099	E1100146-030	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0937	ng/kg	JK	U	22
E1100146	SL0099	E1100146-030	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.364	ng/kg	BJ	U	7
E1100146	SL0099	E1100146-030	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.196	ng/kg	JK	U	22
E1100146	SL0100	E1100146-031	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.544	ng/kg	JK	U	22
E1100146	SL0100	E1100146-031	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.131	ng/kg	JK	U	22
E1100146	SL0100	E1100146-031	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0593	ng/kg	JK	U	22
E1100146	SL0100	E1100146-031	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.18	ng/kg	BJ	U	7
E1100146	SL0100	E1100146-031	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.177	ng/kg	CJK	DNR	11
E1100146	SL0101	E1100146-032	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.569	ng/kg	BJ	U	7
E1100146	SL0101	E1100146-032	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.0578	ng/kg	JK	U	22
E1100146	SL0104	E1100146-034	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.339	ng/kg	JK	U	22
E1100146	SL0104	E1100146-034	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.421	ng/kg	BJK	U	22
E1100146	SL0104	E1100146-034	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0743	ng/kg	JK	U	22
E1100146	SL0104	E1100146-034	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.194	ng/kg	CJ	DNR	11
E1100146	SL0105	E1100146-035	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.117	ng/kg	JK	U	22
E1100146	SL0105	E1100146-035	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.364	ng/kg	BJ	U	7
E1100146	SL0105	E1100146-035	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.141	ng/kg	CJK	DNR	11
E1100146	SL0106	E1100146-036	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.144	ng/kg	JK	U	22
E1100146	SL0106	E1100146-036	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.176	ng/kg	JK	U	22
E1100146	SL0106	E1100146-036	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.303	ng/kg	JK	U	22
E1100146	SL0106	E1100146-036	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.225	ng/kg	JK	U	22
E1100146	SL0106	E1100146-036	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.487	ng/kg	BJK	U	22
E1100146	SL0107	E1100146-037	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.378	ng/kg	JK	U	22
E1100146	SL0107	E1100146-037	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.414	ng/kg	BJ	U	7
E1100146	SL0109	E1100146-038	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	243	ng/kg	B,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	3.52	ng/kg	J,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.25	ng/kg	U,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.23	ng/kg	U,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.99	ng/kg	U,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.21	ng/kg	U,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.92	ng/kg	U,D	DNR	11

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E1100146	SL0109	E1100146-038	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.54	ng/kg	U,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.749	ng/kg	BJ	U	7
E1100146	SL0109	E1100146-038	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.93	ng/kg	U,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	2.33	ng/kg	U,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.408	ng/kg	U,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	2.13	ng/kg	U,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.413	ng/kg	U,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2.06	ng/kg	U,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.63	ng/kg	U,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	Octachlorodibenzo-p-dioxin	72300	ng/kg	B,D	DNR	11
E1100146	SL0109	E1100146-038	EPA1613B	Octachlorodibenzo-p-dioxin	31200	ng/kg	BE	DNR	20
E1100146	SL0109	E1100146-038	EPA1613B	Octachlorodibenzo-p-furan	27	ng/kg	J,D	DNR	11
E1100146	SL0110	E1100146-039	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	11.7	ng/kg	BK	U	22
E1100146	SL0110	E1100146-039	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.684	ng/kg	JK	U	22
E1100146	SL0110	E1100146-039	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.383	ng/kg	BJK	U	22
E1100146	SL0111	E1100146-040	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.53	ng/kg	JK	U	22
E1100146	SL0111	E1100146-040	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.215	ng/kg	JK	U	22
E1100146	SL0111	E1100146-040	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.385	ng/kg	BJ	U	7
E1100146	SL0112	E1100146-041	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.395	ng/kg	BJ	U	7
E1100146	SL0112	E1100146-041	EPA1613B	Octachlorodibenzo-p-furan	1.91	ng/kg	JK	U	22
E1100146	FW0081	E1100146-043	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.639	pg	BJK	U	22
E1100146	FW0081	E1100146-043	EPA1613B	Octachlorodibenzo-p-dioxin	3.36	pg	BJ	U	7
E1100146	FB0090	E1100146-044	EPA1613B	Octachlorodibenzo-p-dioxin	5.02	pg	BJ	U	7
E1100146	FW0108	E1100146-045	EPA1613B	Octachlorodibenzo-p-dioxin	2.76	pg	BJ	U	7
E1100146	SL0102	E1100146-046	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.435	ng/kg	BJK	U	22
K1101209	SL0001	K1101209-001	SW6020A	Chromium	9.4	mg/kg		J	16
K1101209	SL0001	K1101209-001	SW6010C	Magnesium	2290	mg/kg		J	16
K1101209	SL0001	K1101209-001	SW6010C	Vanadium	28.1	mg/kg		J	16
K1101209	SL0002	K1101209-002	SW6020A	Chromium	6.3	mg/kg		J	16
K1101209	SL0002	K1101209-002	SW6010C	Magnesium	893	mg/kg		J	16
K1101209	SL0002	K1101209-002	SW6010C	Vanadium	13.2	mg/kg		J	16
K1101209	SL0003	K1101209-003	SW6020A	Chromium	3.05	mg/kg		J	16
K1101209	SL0003	K1101209-003	SW6010C	Magnesium	14000	mg/kg		J	16
K1101209	SL0003	K1101209-003	SW7471B	Mercury	0.006	mg/kg	J	J	7
K1101209	SL0003	K1101209-003	SW6010C	Vanadium	8.4	mg/kg		J	16

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K1101209	SL0004	K1101209-004	SW6020A	Chromium	3.38	mg/kg		J	16
K1101209	SL0004	K1101209-004	SW6010C	Magnesium	10000	mg/kg		J	16
K1101209	SL0004	K1101209-004	SW7471B	Mercury	0.006	mg/kg	J	J	7
K1101209	SL0004	K1101209-004	SW6010C	Vanadium	7.2	mg/kg		J	16
K1101209	SL0005	K1101209-005	SW6020A	Chromium	4.42	mg/kg		J	16
K1101209	SL0005	K1101209-005	SW6010C	Magnesium	12200	mg/kg		J	16
K1101209	SL0005	K1101209-005	SW6010C	Vanadium	9.3	mg/kg		J	16
K1101209	SL0006	K1101209-006	SW6020A	Chromium	8.52	mg/kg		J	16
K1101209	SL0006	K1101209-006	SW6010C	Magnesium	1340	mg/kg		J	16
K1101209	SL0006	K1101209-006	SW6010C	Vanadium	26.2	mg/kg		J	16
K1101209	SL0007	K1101209-007	SW6020A	Chromium	9.22	mg/kg		J	16
K1101209	SL0007	K1101209-007	SW6010C	Magnesium	1400	mg/kg		J	16
K1101209	SL0007	K1101209-007	SW6010C	Vanadium	24	mg/kg		J	16
K1101209	SL0008	K1101209-008	SW6020A	Chromium	6.77	mg/kg		J	16
K1101209	SL0008	K1101209-008	SW6010C	Magnesium	1120	mg/kg		J	16
K1101209	SL0008	K1101209-008	SW6010C	Vanadium	11.3	mg/kg		J	16
K1101209	SL0009	K1101209-009	SW6020A	Chromium	6.61	mg/kg		J	16
K1101209	SL0009	K1101209-009	SW6010C	Magnesium	1150	mg/kg		J	16
K1101209	SL0009	K1101209-009	SW6010C	Vanadium	13	mg/kg		J	16
K1101209	SL0010	K1101209-010	SW6020A	Chromium	3.29	mg/kg		J	16
K1101209	SL0010	K1101209-010	SW6010C	Magnesium	2410	mg/kg		J	16
K1101209	SL0010	K1101209-010	SW6010C	Vanadium	19.5	mg/kg		J	16
K1101209	SL0011	K1101209-011	SW6020A	Chromium	2	mg/kg		J	16
K1101209	SL0011	K1101209-011	SW6010C	Magnesium	463	mg/kg		J	16
K1101209	SL0011	K1101209-011	SW6010C	Vanadium	5.6	mg/kg		J	16
K1101209	SL0012	K1101209-012	SW6020A	Cadmium	0.021	mg/kg		U	7
K1101209	SL0012	K1101209-012	SW6020A	Chromium	1.89	mg/kg		J	16
K1101209	SL0012	K1101209-012	SW6010C	Magnesium	597	mg/kg		J	16
K1101209	SL0012	K1101209-012	SW6010C	Vanadium	4.9	mg/kg		J	16
K1101209	SL0013	K1101209-013	SW6020A	Cadmium	0.019	mg/kg	J	U	7
K1101209	SL0013	K1101209-013	SW6020A	Chromium	1.77	mg/kg		J	16
K1101209	SL0013	K1101209-013	SW6010C	Magnesium	525	mg/kg		J	16
K1101209	SL0013	K1101209-013	SW7471B	Mercury	0.005	mg/kg	J	J	7
K1101209	SL0013	K1101209-013	SW6010C	Vanadium	3.7	mg/kg		J	16
K1101209	SL0014	K1101209-014	SW6020A	Cadmium	0.027	mg/kg		U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101209	SL0014	K1101209-014	SW6020A	Chromium	2.24	mg/kg		J	16
K1101209	SL0014	K1101209-014	SW6010C	Magnesium	683	mg/kg		J	16
K1101209	SL0014	K1101209-014	SW6010C	Vanadium	4.8	mg/kg		J	16
K1101209	SL0015	K1101209-015	SW6020A	Chromium	12.7	mg/kg		J	16
K1101209	SL0015	K1101209-015	SW6010C	Magnesium	2780	mg/kg		J	16
K1101209	SL0015	K1101209-015	SW6010C	Vanadium	34.6	mg/kg		J	16
K1101209	SL0016	K1101209-016	SW6020A	Chromium	11.3	mg/kg		J	16
K1101209	SL0016	K1101209-016	SW6010C	Magnesium	1770	mg/kg		J	16
K1101209	SL0016	K1101209-016	SW6010C	Vanadium	32.6	mg/kg		J	16
K1101209	SL0017	K1101209-017	SW6010C	Aluminum	3550	mg/kg	N*	J	9
K1101209	SL0017	K1101209-017	SW6010C	Barium	47.9	mg/kg	*	J	9
K1101209	SL0017	K1101209-017	SW6010C	Magnesium	837	mg/kg	*	J	9
K1101209	SL0017	K1101209-017	SW6010C	Manganese	87.2	mg/kg	*	J	9
K1101209	SL0017	K1101209-017	SW6010C	Zinc	21.2	mg/kg	N	J	8,9
K1101209	SL0018	K1101209-018	SW6010C	Aluminum	426	mg/kg	N*	J	9
K1101209	SL0018	K1101209-018	SW6010C	Barium	6.5	mg/kg	*	J	9
K1101209	SL0018	K1101209-018	SW6020A	Cadmium	0.008	mg/kg	J	U	7
K1101209	SL0018	K1101209-018	SW6010C	Magnesium	94.3	mg/kg	*	J	9
K1101209	SL0018	K1101209-018	SW6010C	Manganese	1.96	mg/kg	J,*	J	9
K1101209	SL0018	K1101209-018	SW6010C	Zinc	0.7	mg/kg	J,N	J	8,9
K1101209	SL0019	K1101209-019	SW6010C	Aluminum	663	mg/kg	N*	J	9
K1101209	SL0019	K1101209-019	SW6010C	Barium	13.5	mg/kg	*	J	9
K1101209	SL0019	K1101209-019	SW6020A	Cadmium	0.027	mg/kg		U	7
K1101209	SL0019	K1101209-019	SW6010C	Magnesium	241	mg/kg	*	J	9
K1101209	SL0019	K1101209-019	SW6010C	Manganese	5.19	mg/kg	*	J	9
K1101209	SL0019	K1101209-019	SW6010C	Zinc	1.5	mg/kg	J,N	J	8,9
K1101209	SL0020	K1101209-020	SW6010C	Aluminum	1040	mg/kg	N*	J	9
K1101209	SL0020	K1101209-020	SW6010C	Barium	19.3	mg/kg	*	J	9
K1101209	SL0020	K1101209-020	SW6020A	Cadmium	0.021	mg/kg		U	7
K1101209	SL0020	K1101209-020	SW6010C	Magnesium	259	mg/kg	*	J	9
K1101209	SL0020	K1101209-020	SW6010C	Manganese	38.2	mg/kg	*	J	9
K1101209	SL0020	K1101209-020	SW6010C	Zinc	111	mg/kg	N	J	8,9
K1101209	SL0021	K1101209-021	SW6020A	Cadmium	0.018	mg/kg	J	U	7
K1101209	SL0022	K1101209-022	SW6010C	Aluminum	1810	mg/kg	N*	J	9
K1101209	SL0022	K1101209-022	SW6010C	Barium	30.9	mg/kg	*	J	9

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101209	SL0022	K1101209-022	SW6010C	Magnesium	2260	mg/kg		J	9
K1101209	SL0022	K1101209-022	SW6010C	Manganese	168	mg/kg	*	J	9
K1101209	SL0022	K1101209-022	SW6010C	Zinc	6	mg/kg	N	J	8,9
K1101209	SL0023	K1101209-023	SW6010C	Aluminum	7880	mg/kg	N*	J	9
K1101209	SL0023	K1101209-023	SW6010C	Barium	113	mg/kg	*	J	9
K1101209	SL0023	K1101209-023	SW6010C	Magnesium	1530	mg/kg	*	J	9
K1101209	SL0023	K1101209-023	SW6010C	Manganese	220	mg/kg	*	J	9
K1101209	SL0023	K1101209-023	SW6010C	Zinc	32.9	mg/kg	N	J	8,9
K1101209	SL0024	K1101209-024	SW6010C	Aluminum	10100	mg/kg	N*	J	9
K1101209	SL0024	K1101209-024	SW6010C	Barium	129	mg/kg	*	J	9
K1101209	SL0024	K1101209-024	SW6010C	Magnesium	2160	mg/kg		J	9
K1101209	SL0024	K1101209-024	SW6010C	Manganese	368	mg/kg	*	J	9
K1101209	SL0024	K1101209-024	SW6010C	Zinc	32	mg/kg	N	J	8,9
K1101209	SL0025	K1101209-025	SW6010C	Aluminum	10700	mg/kg	N*	J	9
K1101209	SL0025	K1101209-025	SW6010C	Barium	164	mg/kg	*	J	9
K1101209	SL0025	K1101209-025	SW6010C	Magnesium	1930	mg/kg		J	9
K1101209	SL0025	K1101209-025	SW6010C	Manganese	578	mg/kg	*	J	9
K1101209	SL0025	K1101209-025	SW6010C	Zinc	29.5	mg/kg	N	J	8,9
K1101209	SL0026	K1101209-026	SW6010C	Aluminum	5750	mg/kg	N*	J	9
K1101209	SL0026	K1101209-026	SW6010C	Barium	93	mg/kg	*	J	9
K1101209	SL0026	K1101209-026	SW6010C	Magnesium	1200	mg/kg	*	J	9
K1101209	SL0026	K1101209-026	SW6010C	Manganese	154	mg/kg	*	J	9
K1101209	SL0026	K1101209-026	SW6010C	Zinc	39.3	mg/kg	N	J	8,9
K1101209	SL0027	K1101209-027	SW6010C	Aluminum	4870	mg/kg	N*	J	9
K1101209	SL0027	K1101209-027	SW6010C	Barium	74.5	mg/kg	*	J	9
K1101209	SL0027	K1101209-027	SW6010C	Magnesium	1090	mg/kg	*	J	9
K1101209	SL0027	K1101209-027	SW6010C	Manganese	112	mg/kg	*	J	9
K1101209	SL0027	K1101209-027	SW6010C	Zinc	22.6	mg/kg	N	J	8,9
K1101209	SL0028	K1101209-028	SW6010C	Aluminum	5660	mg/kg	N*	J	9
K1101209	SL0028	K1101209-028	SW6010C	Barium	85.4	mg/kg	*	J	9
K1101209	SL0028	K1101209-028	SW6010C	Magnesium	2110	mg/kg		J	9
K1101209	SL0028	K1101209-028	SW6010C	Manganese	159	mg/kg	*	J	9
K1101209	SL0028	K1101209-028	SW6010C	Zinc	23.7	mg/kg	N	J	8,9
K1101209	SL0029	K1101209-029	SW6010C	Aluminum	10000	mg/kg	N*	J	9
K1101209	SL0029	K1101209-029	SW6010C	Barium	87.4	mg/kg	*	J	9

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101209	SL0029	K1101209-029	SW6010C	Magnesium	2150	mg/kg		J	9
K1101209	SL0029	K1101209-029	SW6010C	Manganese	281	mg/kg	*	J	9
K1101209	SL0029	K1101209-029	SW6010C	Zinc	32	mg/kg	N	J	8,9
K1101209	SL0030	K1101209-030	SW6010C	Aluminum	12200	mg/kg	N*	J	9
K1101209	SL0030	K1101209-030	SW6010C	Barium	156	mg/kg	*	J	9
K1101209	SL0030	K1101209-030	SW6010C	Magnesium	2890	mg/kg		J	9
K1101209	SL0030	K1101209-030	SW6010C	Manganese	510	mg/kg	*	J	9
K1101209	SL0030	K1101209-030	SW6010C	Zinc	43	mg/kg	N	J	8,9
K1101209	SL0031	K1101209-031	SW6010C	Aluminum	11000	mg/kg	N*	J	9
K1101209	SL0031	K1101209-031	SW6010C	Barium	101	mg/kg	*	J	9
K1101209	SL0031	K1101209-031	SW6010C	Magnesium	2200	mg/kg		J	9
K1101209	SL0031	K1101209-031	SW6010C	Manganese	306	mg/kg	*	J	9
K1101209	SL0031	K1101209-031	SW6010C	Zinc	36.7	mg/kg	N	J	8,9
K1101209	FW0032	K1101209-032	SW6020A	Arsenic	0.12	ug	J	U	6
K1101209	FW0032	K1101209-032	SW6010C	Barium	0.4	ug	J	U	6
K1101209	FW0032	K1101209-032	SW6020A	Cadmium	0.006	ug	J	U	7
K1101209	FW0032	K1101209-032	SW6020A	Chromium	0.75	ug		U	6
K1101209	FW0032	K1101209-032	SW6010C	Copper	3.6	ug		U	6
K1101209	FW0032	K1101209-032	SW6010C	Magnesium	154	ug		U	6
K1101209	FW0032	K1101209-032	SW6010C	Manganese	0.64	ug	J	U	6
K1101209	FW0032	K1101209-032	SW6020A	Thallium	0.004	ug	J	U	7
K1101209	FW0032	K1101209-032	SW6010C	Zinc	80.9	ug		U	6
K1101209	FW0033	K1101209-033	SW6020A	Arsenic	0.11	ug	J	U	6
K1101209	FW0033	K1101209-033	SW6020A	Cadmium	0.008	ug	J	U	7
K1101209	FW0033	K1101209-033	SW6020A	Chromium	1.28	ug		U	6
K1101209	FW0033	K1101209-033	SW6010C	Copper	1.8	ug	J	U	6
K1101209	FW0033	K1101209-033	SW6010C	Magnesium	151	ug		U	6
K1101209	FW0033	K1101209-033	SW6010C	Manganese	0.94	ug	J	U	6
K1101209	FW0033	K1101209-033	SW6020A	Thallium	0.001	ug	J	U	7
K1101209	FW0033	K1101209-033	SW6010C	Zinc	73	ug		U	6
K1101209	FW0034	K1101209-034	SW6020A	Arsenic	0.13	ug	J	U	6
K1101209	FW0034	K1101209-034	SW6020A	Cadmium	0.006	ug	J	U	7
K1101209	FW0034	K1101209-034	SW6020A	Chromium	0.77	ug		U	6
K1101209	FW0034	K1101209-034	SW6010C	Copper	2.5	ug		U	6
K1101209	FW0034	K1101209-034	SW6010C	Magnesium	150	ug		U	6

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101209	FW0034	K1101209-034	SW6010C	Manganese	0.62	ug	J	U	6
K1101209	FW0034	K1101209-034	SW6010C	Nickel	0.4	ug	J	U	6
K1101209	FW0034	K1101209-034	SW6010C	Zinc	77.7	ug		U	6
K1101209	FB0035	K1101209-035	SW6020A	Cadmium	0.006	ug	J	U	7
K1101236	SL0060	K1101236-001	SW6020A	Antimony	0.027	mg/kg	J,N	UJ	7,8
K1101236	SL0060	K1101236-001	SW6010C	Manganese	224	mg/kg	N	J	8
K1101236	SL0061	K1101236-002	SW6020A	Antimony	0.077	mg/kg	N	UJ	7,8
K1101236	SL0061	K1101236-002	SW6010C	Manganese	986	mg/kg	N	J	8
K1101236	SL0062	K1101236-003	SW6020A	Antimony	0.088	mg/kg	N	UJ	7,8
K1101236	SL0062	K1101236-003	SW6010C	Manganese	475	mg/kg	N	J	8
K1101236	SL0063	K1101236-004	SW6020A	Antimony	0.114	mg/kg	N	UJ	7,8
K1101236	SL0063	K1101236-004	SW6010C	Manganese	1320	mg/kg	N	J	8
K1101236	SL0064	K1101236-005	SW6020A	Antimony	0.072	mg/kg	N	UJ	7,8
K1101236	SL0064	K1101236-005	SW6010C	Manganese	1270	mg/kg	N	J	8
K1101236	SL0065	K1101236-006	SW6020A	Antimony	0.057	mg/kg	N	UJ	7,8
K1101236	SL0065	K1101236-006	SW6010C	Manganese	233	mg/kg	N	J	8
K1101236	SL0066	K1101236-007	SW6020A	Antimony	0.04	mg/kg	J,N	UJ	7,8
K1101236	SL0066	K1101236-007	SW6010C	Manganese	235	mg/kg	N	J	8
K1101236	SL0067	K1101236-008	SW6020A	Antimony	0.178	mg/kg	N	J	8
K1101236	SL0067	K1101236-008	SW6010C	Manganese	1270	mg/kg	N	J	8
K1101236	SL0068	K1101236-009	SW6020A	Antimony	0.052	mg/kg	N	UJ	7,8
K1101236	SL0068	K1101236-009	SW6010C	Manganese	503	mg/kg	N	J	8
K1101236	SL0069	K1101236-010	SW6020A	Antimony	0.065	mg/kg	N	UJ	7,8
K1101236	SL0069	K1101236-010	SW6010C	Manganese	378	mg/kg	N	J	8
K1101236	SL0070	K1101236-011	SW6020A	Antimony	0.061	mg/kg	N	UJ	7,8
K1101236	SL0070	K1101236-011	SW6010C	Manganese	694	mg/kg	N	J	8
K1101236	SL0071	K1101236-012	SW6020A	Antimony	0.026	mg/kg	J,N	UJ	7,8
K1101236	SL0071	K1101236-012	SW6010C	Manganese	104	mg/kg	N	J	8
K1101236	SL0072	K1101236-013	SW6020A	Antimony	0.008	mg/kg	U,N	UJ	8
K1101236	SL0072	K1101236-013	SW6010C	Manganese	605	mg/kg	N	J	8
K1101236	SL0073	K1101236-014	SW6020A	Antimony	0.26	mg/kg	N	J	8
K1101236	SL0073	K1101236-014	SW6010C	Manganese	233	mg/kg	N	J	8
K1101236	SL0074	K1101236-015	SW6020A	Antimony	0.062	mg/kg	N	UJ	7,8
K1101236	SL0074	K1101236-015	SW6010C	Manganese	326	mg/kg	N	J	8
K1101236	SL0075	K1101236-016	SW6020A	Antimony	0.4	mg/kg	N	J	8

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101236	SL0075	K1101236-016	SW6010C	Manganese	203	mg/kg	N	J	8
K1101236	SL0076	K1101236-017	SW6020A	Antimony	0.279	mg/kg	N	J	8
K1101236	SL0076	K1101236-017	SW6010C	Manganese	135	mg/kg	N	J	8
K1101236	SL0077	K1101236-018	SW6020A	Antimony	0.136	mg/kg	N	UJ	7,8
K1101236	SL0077	K1101236-018	SW6010C	Manganese	505	mg/kg	N	J	8
K1101236	SL0078	K1101236-019	SW6020A	Antimony	0.094	mg/kg	N	UJ	7,8
K1101236	SL0078	K1101236-019	SW6010C	Manganese	528	mg/kg	N	J	8
K1101236	SL0079	K1101236-020	SW6020A	Antimony	0.162	mg/kg	N	UJ	7,8
K1101236	SL0079	K1101236-020	SW6010C	Beryllium	0.5	mg/kg	J	J	16
K1101236	SL0079	K1101236-020	SW6010C	Manganese	802	mg/kg	*	J	9
K1101236	SL0079	K1101236-020	SW6010C	Vanadium	26.2	mg/kg	*	J	9
K1101236	SL0079	K1101236-020	SW6010C	Zinc	224	mg/kg	*	J	9,16
K1101236	SL0080	K1101236-021	SW6020A	Antimony	0.051	mg/kg	N	UJ	7,8
K1101236	SL0080	K1101236-021	SW6010C	Beryllium	0.34	mg/kg	J	J	16
K1101236	SL0080	K1101236-021	SW6020A	Cadmium	0.147	mg/kg	*	J	9
K1101236	SL0080	K1101236-021	SW6010C	Manganese	76.3	mg/kg	*	J	9
K1101236	SL0080	K1101236-021	SW6020A	Thallium	0.471	mg/kg	*	J	9
K1101236	SL0080	K1101236-021	SW6010C	Vanadium	18.8	mg/kg	*	J	9
K1101236	SL0080	K1101236-021	SW6010C	Zinc	47.7	mg/kg	*	J	9,16
K1101236	FW0081	K1101236-022	SW6010C	Aluminum	6.3	ug	J	U	6
K1101236	FW0081	K1101236-022	SW6020A	Antimony	0.14	ug		U	6
K1101236	FW0081	K1101236-022	SW6020A	Arsenic	0.12	ug	J	U	6
K1101236	FW0081	K1101236-022	SW6020A	Cadmium	0.006	ug	J	U	7
K1101236	FW0081	K1101236-022	SW6010C	Calcium	47.5	ug		U	6
K1101236	FW0081	K1101236-022	SW6020A	Chromium	0.93	ug		U	6
K1101236	FW0081	K1101236-022	SW6010C	Copper	1.8	ug	J	U	6
K1101236	FW0081	K1101236-022	SW6010C	Magnesium	149	ug		U	6
K1101236	FW0081	K1101236-022	SW6010C	Manganese	0.46	ug	J	U	6
K1101236	FW0081	K1101236-022	SW6010C	Nickel	0.5	ug	J	U	6
K1101236	FW0081	K1101236-022	SW6010C	Potassium	148	ug		U	6
K1101236	FW0081	K1101236-022	SW6010C	Sodium	283	ug		U	6
K1101236	FW0081	K1101236-022	SW6010C	Zinc	72.5	ug		U	6
K1101236	FB0090	K1101236-023	SW6020A	Cadmium	0.007	ug	J	U	7
K1101236	FB0090	K1101236-023	SW6010C	Iron	3.4	ug	J	U	7
K1101241	SL0091	K1101241-001	SW6010C	Aluminum	1460	mg/kg	N	J	8

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101241	SL0091	K1101241-001	SW6020A	Antimony	0.053	mg/kg	N	UJ	5A,7,8
K1101241	SL0091	K1101241-001	SW6010C	Beryllium	0.15	mg/kg	J	J	7
K1101241	SL0091	K1101241-001	SW6020A	Chromium	2.46	mg/kg	*	J	9
K1101241	SL0091	K1101241-001	SW6010C	Cobalt	1	mg/kg	J	U	7
K1101241	SL0091	K1101241-001	SW6010C	Magnesium	2200	mg/kg	N*	J	8,9,16
K1101241	SL0091	K1101241-001	SW6020A	Thallium	0.027	mg/kg		U	7
K1101241	SL0091	K1101241-001	SW6010C	Zinc	18.2	mg/kg	*	J	9
K1101241	SL0092	K1101241-002	SW6010C	Aluminum	693	mg/kg	N	J	8
K1101241	SL0092	K1101241-002	SW6020A	Antimony	0.008	mg/kg	U,N	UJ	5A,8
K1101241	SL0092	K1101241-002	SW6010C	Beryllium	0.08	mg/kg	J	J	7
K1101241	SL0092	K1101241-002	SW6020A	Chromium	2.62	mg/kg	*	J	9
K1101241	SL0092	K1101241-002	SW6010C	Cobalt	0.9	mg/kg	J	U	7
K1101241	SL0092	K1101241-002	SW6010C	Magnesium	491	mg/kg	N*	J	8,9,16
K1101241	SL0092	K1101241-002	SW6020A	Thallium	0.034	mg/kg		U	7
K1101241	SL0092	K1101241-002	SW6010C	Zinc	9.9	mg/kg	*	J	9
K1101241	SL0093	K1101241-003	SW6010C	Aluminum	9940	mg/kg	N	J	8
K1101241	SL0093	K1101241-003	SW6020A	Antimony	0.141	mg/kg	N	UJ	5A,7,8
K1101241	SL0093	K1101241-003	SW6010C	Beryllium	0.74	mg/kg	J	J	7
K1101241	SL0093	K1101241-003	SW6020A	Chromium	8.95	mg/kg	*	J	9
K1101241	SL0093	K1101241-003	SW6010C	Magnesium	867	mg/kg	N*	J	8,9,16
K1101241	SL0093	K1101241-003	SW6010C	Zinc	21.1	mg/kg	*	J	9
K1101241	SL0094	K1101241-004	SW6010C	Aluminum	9420	mg/kg	N	J	8
K1101241	SL0094	K1101241-004	SW6020A	Antimony	0.044	mg/kg	J,N	UJ	5A,7,8
K1101241	SL0094	K1101241-004	SW6010C	Beryllium	0.61	mg/kg	J	J	7
K1101241	SL0094	K1101241-004	SW6020A	Cadmium	0.025	mg/kg		U	7
K1101241	SL0094	K1101241-004	SW6020A	Chromium	9.78	mg/kg	*	J	9
K1101241	SL0094	K1101241-004	SW6010C	Magnesium	727	mg/kg	N*	J	8,9,16
K1101241	SL0094	K1101241-004	SW6010C	Zinc	12.9	mg/kg	*	J	9
K1101241	SL0095	K1101241-005	SW6010C	Aluminum	9160	mg/kg	N	J	8
K1101241	SL0095	K1101241-005	SW6020A	Antimony	0.184	mg/kg	N	J	5A,8
K1101241	SL0095	K1101241-005	SW6010C	Beryllium	0.76	mg/kg	J	J	7
K1101241	SL0095	K1101241-005	SW6020A	Chromium	9.95	mg/kg	*	J	9
K1101241	SL0095	K1101241-005	SW6010C	Magnesium	797	mg/kg	N*	J	8,9,16
K1101241	SL0095	K1101241-005	SW6010C	Zinc	19.8	mg/kg	*	J	9
K1101241	SL0096	K1101241-006	SW6010C	Aluminum	4480	mg/kg	N	J	8

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101241	SL0096	K1101241-006	SW6020A	Antimony	0.03	mg/kg	J,N	UJ	5A,7,8
K1101241	SL0096	K1101241-006	SW6010C	Beryllium	0.36	mg/kg	J	J	7
K1101241	SL0096	K1101241-006	SW6020A	Chromium	4.14	mg/kg	*	J	9
K1101241	SL0096	K1101241-006	SW6010C	Magnesium	478	mg/kg	N*	J	8,9,16
K1101241	SL0096	K1101241-006	SW6010C	Zinc	18.6	mg/kg	*	J	9
K1101241	SL0097	K1101241-007	SW6010C	Aluminum	4080	mg/kg	N	J	8
K1101241	SL0097	K1101241-007	SW6020A	Antimony	0.026	mg/kg	J,N	UJ	5A,7,8
K1101241	SL0097	K1101241-007	SW6010C	Beryllium	0.33	mg/kg	J	J	7
K1101241	SL0097	K1101241-007	SW6020A	Cadmium	0.036	mg/kg		U	7
K1101241	SL0097	K1101241-007	SW6020A	Chromium	4.62	mg/kg	*	J	9
K1101241	SL0097	K1101241-007	SW6010C	Cobalt	1.6	mg/kg	J	U	7
K1101241	SL0097	K1101241-007	SW6010C	Magnesium	345	mg/kg	N*	J	8,9,16
K1101241	SL0097	K1101241-007	SW6010C	Zinc	7.8	mg/kg	*	J	9
K1101241	SL0098	K1101241-008	SW6010C	Aluminum	3950	mg/kg	N	J	8
K1101241	SL0098	K1101241-008	SW6020A	Antimony	0.055	mg/kg	N	UJ	5A,7,8
K1101241	SL0098	K1101241-008	SW6010C	Beryllium	0.31	mg/kg	J	J	7
K1101241	SL0098	K1101241-008	SW6020A	Chromium	4.47	mg/kg	*	J	9
K1101241	SL0098	K1101241-008	SW6010C	Magnesium	428	mg/kg	N*	J	8,9,16
K1101241	SL0098	K1101241-008	SW6010C	Zinc	16.1	mg/kg	*	J	9
K1101241	SL0099	K1101241-009	SW6010C	Aluminum	7040	mg/kg	N	J	8
K1101241	SL0099	K1101241-009	SW6020A	Antimony	0.12	mg/kg	N	UJ	5A,7,8
K1101241	SL0099	K1101241-009	SW6010C	Beryllium	0.57	mg/kg	J	J	7
K1101241	SL0099	K1101241-009	SW6020A	Cadmium	0.034	mg/kg		U	7
K1101241	SL0099	K1101241-009	SW6020A	Chromium	7.19	mg/kg	*	J	9
K1101241	SL0099	K1101241-009	SW6010C	Magnesium	530	mg/kg	N*	J	8,9,16
K1101241	SL0099	K1101241-009	SW6010C	Zinc	9.8	mg/kg	*	J	9
K1101241	SL0100	K1101241-010	SW6010C	Aluminum	6890	mg/kg	N	J	8
K1101241	SL0100	K1101241-010	SW6020A	Antimony	0.022	mg/kg	J,N	UJ	5A,7,8
K1101241	SL0100	K1101241-010	SW6010C	Beryllium	0.42	mg/kg	J	J	7
K1101241	SL0100	K1101241-010	SW6020A	Cadmium	0.029	mg/kg		U	7
K1101241	SL0100	K1101241-010	SW6020A	Chromium	5.45	mg/kg	*	J	9
K1101241	SL0100	K1101241-010	SW6010C	Magnesium	528	mg/kg	N*	J	8,9,16
K1101241	SL0100	K1101241-010	SW6010C	Zinc	8.2	mg/kg	*	J	9
K1101241	SL0101	K1101241-011	SW6010C	Aluminum	10200	mg/kg	N	J	8
K1101241	SL0101	K1101241-011	SW6020A	Antimony	0.027	mg/kg	J,N	UJ	5A,7,8

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101241	SL0101	K1101241-011	SW6010C	Beryllium	0.51	mg/kg	J	J	7
K1101241	SL0101	K1101241-011	SW6020A	Cadmium	0.019	mg/kg		U	7
K1101241	SL0101	K1101241-011	SW6020A	Chromium	9.75	mg/kg	*	J	9
K1101241	SL0101	K1101241-011	SW6010C	Magnesium	770	mg/kg	N*	J	8,9,16
K1101241	SL0101	K1101241-011	SW6010C	Zinc	11.8	mg/kg	*	J	9
K1101241	SL0102	K1101241-012	SW6010C	Aluminum	3240	mg/kg	N	J	8
K1101241	SL0102	K1101241-012	SW6020A	Antimony	0.031	mg/kg	J,N	UJ	5A,7,8
K1101241	SL0102	K1101241-012	SW6010C	Beryllium	0.29	mg/kg	J	J	7
K1101241	SL0102	K1101241-012	SW6020A	Cadmium	0.037	mg/kg		U	7
K1101241	SL0102	K1101241-012	SW6020A	Chromium	3.54	mg/kg	*	J	9
K1101241	SL0102	K1101241-012	SW6010C	Magnesium	312	mg/kg	N*	J	8,9,16
K1101241	SL0102	K1101241-012	SW6010C	Zinc	10.1	mg/kg	*	J	9
K1101241	SL0103	K1101241-013	SW6010C	Aluminum	8210	mg/kg	N	J	8
K1101241	SL0103	K1101241-013	SW6020A	Antimony	0.056	mg/kg	N	UJ	5A,7,8
K1101241	SL0103	K1101241-013	SW6010C	Beryllium	0.71	mg/kg	J	J	7
K1101241	SL0103	K1101241-013	SW6020A	Chromium	8.55	mg/kg	*	J	9
K1101241	SL0103	K1101241-013	SW6010C	Magnesium	741	mg/kg	N*	J	8,9,16
K1101241	SL0103	K1101241-013	SW6010C	Zinc	11.8	mg/kg	*	J	9
K1101241	SL0104	K1101241-014	SW6010C	Aluminum	3570	mg/kg	N	J	8
K1101241	SL0104	K1101241-014	SW6020A	Antimony	0.027	mg/kg	J,N	UJ	5A,7,8
K1101241	SL0104	K1101241-014	SW6010C	Beryllium	0.26	mg/kg	J	J	7
K1101241	SL0104	K1101241-014	SW6020A	Cadmium	0.034	mg/kg		U	7
K1101241	SL0104	K1101241-014	SW6020A	Chromium	2.89	mg/kg	*	J	9
K1101241	SL0104	K1101241-014	SW6010C	Magnesium	328	mg/kg	N*	J	8,9,16
K1101241	SL0104	K1101241-014	SW6010C	Zinc	7.1	mg/kg	*	J	9
K1101241	SL0105	K1101241-015	SW6010C	Aluminum	4130	mg/kg	N	J	8
K1101241	SL0105	K1101241-015	SW6020A	Antimony	0.059	mg/kg	N	UJ	5A,7,8
K1101241	SL0105	K1101241-015	SW6010C	Beryllium	0.34	mg/kg	J	J	7
K1101241	SL0105	K1101241-015	SW6020A	Chromium	5.45	mg/kg	*	J	9
K1101241	SL0105	K1101241-015	SW6010C	Magnesium	310	mg/kg	N*	J	8,9,16
K1101241	SL0105	K1101241-015	SW6010C	Zinc	9.1	mg/kg	*	J	9
K1101241	SL0106	K1101241-016	SW6010C	Aluminum	4110	mg/kg	N	J	8
K1101241	SL0106	K1101241-016	SW6020A	Antimony	0.069	mg/kg	N	UJ	5A,7,8
K1101241	SL0106	K1101241-016	SW6010C	Beryllium	0.32	mg/kg	J	J	7
K1101241	SL0106	K1101241-016	SW6020A	Chromium	4.82	mg/kg	*	J	9

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101241	SL0106	K1101241-016	SW6010C	Magnesium	444	mg/kg	N*	J	8,9,16
K1101241	SL0106	K1101241-016	SW6010C	Zinc	20.7	mg/kg	*	J	9
K1101241	SL0107	K1101241-017	SW6010C	Aluminum	6420	mg/kg	N	J	8
K1101241	SL0107	K1101241-017	SW6020A	Antimony	0.021	mg/kg	J,N	UJ	5A,7,8
K1101241	SL0107	K1101241-017	SW6010C	Beryllium	0.46	mg/kg	J	J	7
K1101241	SL0107	K1101241-017	SW6020A	Chromium	6.23	mg/kg	*	J	9
K1101241	SL0107	K1101241-017	SW6010C	Magnesium	606	mg/kg	N*	J	8,9,16
K1101241	SL0107	K1101241-017	SW6010C	Zinc	12.4	mg/kg	*	J	9
K1101241	FW0108	K1101241-018	SW6010C	Aluminum	4.7	ug	J	U	6
K1101241	FW0108	K1101241-018	SW6020A	Antimony	0.13	ug		U	6
K1101241	FW0108	K1101241-018	SW6020A	Arsenic	0.09	ug	J	U	6
K1101241	FW0108	K1101241-018	SW6020A	Cadmium	0.005	ug	J	U	7
K1101241	FW0108	K1101241-018	SW6010C	Calcium	38.5	ug		U	6
K1101241	FW0108	K1101241-018	SW6020A	Chromium	0.62	ug		U	6
K1101241	FW0108	K1101241-018	SW6010C	Copper	1.5	ug	J	U	6
K1101241	FW0108	K1101241-018	SW6010C	Magnesium	146	ug		U	6
K1101241	FW0108	K1101241-018	SW6010C	Manganese	0.4	ug	J	U	6
K1101241	FW0108	K1101241-018	SW6010C	Nickel	0.4	ug	J	U	6
K1101241	FW0108	K1101241-018	SW6010C	Potassium	134	ug		U	6
K1101241	FW0108	K1101241-018	SW6010C	Sodium	244	ug		U	6
K1101241	FW0108	K1101241-018	SW6010C	Zinc	66.9	ug		U	6
K1101241	SL0109	K1101241-019	SW6010C	Aluminum	11600	mg/kg	N	J	8
K1101241	SL0109	K1101241-019	SW6020A	Antimony	0.138	mg/kg	N	UJ	5A,7,8
K1101241	SL0109	K1101241-019	SW6010C	Beryllium	0.93	mg/kg	J	J	7
K1101241	SL0109	K1101241-019	SW6020A	Chromium	15.1	mg/kg	*	J	9
K1101241	SL0109	K1101241-019	SW6010C	Magnesium	996	mg/kg	N*	J	8,9,16
K1101241	SL0110	K1101241-020	SW6020A	Antimony	0.015	mg/kg	J,N	UJ	5A,7,8
K1101241	SL0110	K1101241-020	SW6020A	Cadmium	0.043	mg/kg		U	7
K1101241	SL0110	K1101241-020	SW6010C	Calcium	2550	mg/kg	N	J	8
K1101241	SL0110	K1101241-020	SW6020A	Chromium	8.14	mg/kg	*	J	9
K1101241	SL0111	K1101241-021	SW6020A	Antimony	0.089	mg/kg	N	UJ	5A,7,8
K1101241	SL0111	K1101241-021	SW6010C	Calcium	3270	mg/kg	N	J	8
K1101241	SL0112	K1101241-022	SW6020A	Antimony	0.018	mg/kg	J,N	UJ	5A,7,8
K1101241	SL0112	K1101241-022	SW6020A	Cadmium	0.042	mg/kg		U	7
K1101241	SL0112	K1101241-022	SW6010C	Calcium	2700	mg/kg	N	J	8

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101241	SL0112	K1101241-022	SW6020A	Silver	0.039	mg/kg		U	7
K1101244	SL0036	K1101244-001	SW6020A	Cadmium	1.63	mg/kg	*	J	9
K1101244	SL0036	K1101244-001	SW6020A	Chromium	58.3	mg/kg	N*	J	8,9
K1101244	SL0036	K1101244-001	SW6010C	Copper	124	mg/kg	N	J	8
K1101244	SL0036	K1101244-001	SW6010C	Lead	100	mg/kg	N	J	8
K1101244	SL0036	K1101244-001	SW6010C	Nickel	106	mg/kg	N	J	8
K1101244	SL0036	K1101244-001	SW6010C	Vanadium	127	mg/kg	N*	J	8,9
K1101244	SL0036	K1101244-001	SW6010C	Zinc	345	mg/kg	N	J	8
K1101244	SL0037	K1101244-002	SW6020A	Cadmium	0.981	mg/kg	*	J	9
K1101244	SL0037	K1101244-002	SW6020A	Chromium	30.4	mg/kg	N*	J	8,9
K1101244	SL0037	K1101244-002	SW6010C	Copper	78.4	mg/kg	N	J	8
K1101244	SL0037	K1101244-002	SW6010C	Lead	89.4	mg/kg	N	J	8
K1101244	SL0037	K1101244-002	SW6010C	Nickel	33.9	mg/kg	N	J	8
K1101244	SL0037	K1101244-002	SW6010C	Vanadium	68.5	mg/kg	N*	J	8,9
K1101244	SL0037	K1101244-002	SW6010C	Zinc	311	mg/kg	N	J	8
K1101244	SL0038	K1101244-003	SW6020A	Cadmium	0.153	mg/kg	*	J	9
K1101244	SL0038	K1101244-003	SW6020A	Chromium	11.3	mg/kg	N*	J	8,9
K1101244	SL0038	K1101244-003	SW6010C	Copper	10.5	mg/kg	N	J	8
K1101244	SL0038	K1101244-003	SW6010C	Lead	20	mg/kg	N	J	8
K1101244	SL0038	K1101244-003	SW6010C	Nickel	11.2	mg/kg	N	J	8
K1101244	SL0038	K1101244-003	SW6010C	Vanadium	28	mg/kg	N*	J	8,9
K1101244	SL0038	K1101244-003	SW6010C	Zinc	59.6	mg/kg	N	J	8
K1101244	SL0039	K1101244-004	SW6020A	Cadmium	0.309	mg/kg	*	J	9
K1101244	SL0039	K1101244-004	SW6020A	Chromium	13.7	mg/kg	N*	J	8,9
K1101244	SL0039	K1101244-004	SW6010C	Copper	13.5	mg/kg	N	J	8
K1101244	SL0039	K1101244-004	SW6010C	Lead	23.7	mg/kg	N	J	8
K1101244	SL0039	K1101244-004	SW6010C	Nickel	7.7	mg/kg	N	J	8
K1101244	SL0039	K1101244-004	SW6010C	Vanadium	27.4	mg/kg	N*	J	8,9
K1101244	SL0039	K1101244-004	SW6010C	Zinc	123	mg/kg	N	J	8
K1101244	SL0040	K1101244-005	SW6020A	Cadmium	0.582	mg/kg	*	J	9
K1101244	SL0040	K1101244-005	SW6020A	Chromium	15	mg/kg	N*	J	8,9
K1101244	SL0040	K1101244-005	SW6010C	Copper	50.8	mg/kg	N	J	8
K1101244	SL0040	K1101244-005	SW6010C	Lead	75.1	mg/kg	N	J	8
K1101244	SL0040	K1101244-005	SW6010C	Nickel	33.3	mg/kg	N	J	8
K1101244	SL0040	K1101244-005	SW6010C	Vanadium	31.7	mg/kg	N*	J	8,9

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101244	SL0040	K1101244-005	SW6010C	Zinc	156	mg/kg	N	J	8
K1101244	SL0041	K1101244-006	SW6020A	Cadmium	0.286	mg/kg	*	J	9
K1101244	SL0041	K1101244-006	SW6020A	Chromium	11.6	mg/kg	N*	J	8,9
K1101244	SL0041	K1101244-006	SW6010C	Copper	45.9	mg/kg	N	J	8
K1101244	SL0041	K1101244-006	SW6010C	Lead	59.7	mg/kg	N	J	8
K1101244	SL0041	K1101244-006	SW6010C	Nickel	15.8	mg/kg	N	J	8
K1101244	SL0041	K1101244-006	SW6010C	Vanadium	28.6	mg/kg	N*	J	8,9
K1101244	SL0041	K1101244-006	SW6010C	Zinc	150	mg/kg	N	J	8
K1101244	SL0042	K1101244-007	SW6020A	Cadmium	1.73	mg/kg	*	J	9
K1101244	SL0042	K1101244-007	SW6020A	Chromium	27.5	mg/kg	N*	J	8,9
K1101244	SL0042	K1101244-007	SW6010C	Copper	121	mg/kg	N	J	8
K1101244	SL0042	K1101244-007	SW6010C	Lead	98.7	mg/kg	N	J	8
K1101244	SL0042	K1101244-007	SW6010C	Nickel	61.3	mg/kg	N	J	8
K1101244	SL0042	K1101244-007	SW6010C	Vanadium	52.5	mg/kg	N*	J	8,9
K1101244	SL0042	K1101244-007	SW6010C	Zinc	323	mg/kg	N	J	8
K1101244	SL0043	K1101244-008	SW6020A	Cadmium	1.1	mg/kg	*	J	9
K1101244	SL0043	K1101244-008	SW6020A	Chromium	30.8	mg/kg	N*	J	8,9
K1101244	SL0043	K1101244-008	SW6010C	Copper	117	mg/kg	N	J	8
K1101244	SL0043	K1101244-008	SW6010C	Lead	121	mg/kg	N	J	8
K1101244	SL0043	K1101244-008	SW6010C	Nickel	29.1	mg/kg	N	J	8
K1101244	SL0043	K1101244-008	SW6010C	Vanadium	52	mg/kg	N*	J	8,9
K1101244	SL0043	K1101244-008	SW6010C	Zinc	339	mg/kg	N	J	8
K1101244	SL0044	K1101244-009	SW6020A	Cadmium	0.578	mg/kg	*	J	9
K1101244	SL0044	K1101244-009	SW6020A	Chromium	13.7	mg/kg	N*	J	8,9
K1101244	SL0044	K1101244-009	SW6010C	Copper	17.4	mg/kg	N	J	8
K1101244	SL0044	K1101244-009	SW6010C	Lead	78.5	mg/kg	N	J	8
K1101244	SL0044	K1101244-009	SW6010C	Nickel	8.1	mg/kg	N	J	8
K1101244	SL0044	K1101244-009	SW6010C	Vanadium	17.9	mg/kg	N*	J	8,9
K1101244	SL0044	K1101244-009	SW6010C	Zinc	246	mg/kg	N	J	8
K1101244	SL0045	K1101244-010	SW6020A	Cadmium	1.01	mg/kg	*	J	9
K1101244	SL0045	K1101244-010	SW6020A	Chromium	19.7	mg/kg	N*	J	8,9
K1101244	SL0045	K1101244-010	SW6010C	Copper	36.9	mg/kg	N	J	8
K1101244	SL0045	K1101244-010	SW6010C	Lead	354	mg/kg	N	J	8
K1101244	SL0045	K1101244-010	SW6010C	Nickel	20.9	mg/kg	N	J	8
K1101244	SL0045	K1101244-010	SW6010C	Vanadium	36.7	mg/kg	N*	J	8,9

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101244	SL0045	K1101244-010	SW6010C	Zinc	340	mg/kg	N	J	8
K1101244	SL0046	K1101244-011	SW6020A	Cadmium	0.414	mg/kg	*	J	9
K1101244	SL0046	K1101244-011	SW6020A	Chromium	16.9	mg/kg	N*	J	8,9
K1101244	SL0046	K1101244-011	SW6010C	Copper	29	mg/kg	N	J	8
K1101244	SL0046	K1101244-011	SW6010C	Lead	119	mg/kg	N	J	8
K1101244	SL0046	K1101244-011	SW6010C	Nickel	10.9	mg/kg	N	J	8
K1101244	SL0046	K1101244-011	SW6010C	Vanadium	23.1	mg/kg	N*	J	8,9
K1101244	SL0046	K1101244-011	SW6010C	Zinc	157	mg/kg	N	J	8
K1101244	SL0047	K1101244-012	SW6020A	Cadmium	0.294	mg/kg	*	J	9
K1101244	SL0047	K1101244-012	SW6020A	Chromium	13.9	mg/kg	N*	J	8,9
K1101244	SL0047	K1101244-012	SW6010C	Copper	20.4	mg/kg	N	J	8
K1101244	SL0047	K1101244-012	SW6010C	Lead	127	mg/kg	N	J	8
K1101244	SL0047	K1101244-012	SW6010C	Nickel	9.8	mg/kg	N	J	8
K1101244	SL0047	K1101244-012	SW6010C	Vanadium	16.7	mg/kg	N*	J	8,9
K1101244	SL0047	K1101244-012	SW6010C	Zinc	110	mg/kg	N	J	8
K1101244	SL0048	K1101244-013	SW6020A	Cadmium	0.165	mg/kg	*	J	9
K1101244	SL0048	K1101244-013	SW6020A	Chromium	11.7	mg/kg	N*	J	8,9
K1101244	SL0048	K1101244-013	SW6010C	Copper	15.1	mg/kg	N	J	8
K1101244	SL0048	K1101244-013	SW6010C	Lead	40.9	mg/kg	N	J	8
K1101244	SL0048	K1101244-013	SW6010C	Nickel	5.9	mg/kg	N	J	8
K1101244	SL0048	K1101244-013	SW6020A	Thallium	0.052	mg/kg		U	7
K1101244	SL0048	K1101244-013	SW6010C	Vanadium	17.3	mg/kg	N*	J	8,9
K1101244	SL0048	K1101244-013	SW6010C	Zinc	110	mg/kg	N	J	8
K1101244	SL0049	K1101244-014	SW6020A	Cadmium	0.201	mg/kg	*	J	9
K1101244	SL0049	K1101244-014	SW6020A	Chromium	13.7	mg/kg	N*	J	8,9
K1101244	SL0049	K1101244-014	SW6010C	Copper	12.4	mg/kg	N	J	8
K1101244	SL0049	K1101244-014	SW6010C	Lead	52.1	mg/kg	N	J	8
K1101244	SL0049	K1101244-014	SW7471B	Mercury	0.057	mg/kg		U	7
K1101244	SL0049	K1101244-014	SW6010C	Nickel	7.9	mg/kg	N	J	8
K1101244	SL0049	K1101244-014	SW6010C	Vanadium	18.5	mg/kg	N*	J	8,9
K1101244	SL0049	K1101244-014	SW6010C	Zinc	71.1	mg/kg	N	J	8
K1101244	SL0050	K1101244-015	SW6020A	Cadmium	0.168	mg/kg	*	J	9
K1101244	SL0050	K1101244-015	SW6020A	Chromium	8.87	mg/kg	N*	J	8,9
K1101244	SL0050	K1101244-015	SW6010C	Copper	8.7	mg/kg	N	J	8
K1101244	SL0050	K1101244-015	SW6010C	Lead	59.1	mg/kg	N	J	8

Qualified Data Summary Table
San Jacinto River Waste Pits - Soil Study

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101244	SL0050	K1101244-015	SW7471B	Mercury	0.048	mg/kg		U	7
K1101244	SL0050	K1101244-015	SW6010C	Nickel	5.9	mg/kg	N	J	8
K1101244	SL0050	K1101244-015	SW6020A	Thallium	0.056	mg/kg		U	7
K1101244	SL0050	K1101244-015	SW6010C	Vanadium	13.2	mg/kg	N*	J	8,9
K1101244	SL0050	K1101244-015	SW6010C	Zinc	63.2	mg/kg	N	J	8
K1101244	SL0051	K1101244-016	SW6020A	Cadmium	0.084	mg/kg	*	J	9
K1101244	SL0051	K1101244-016	SW6020A	Chromium	2.33	mg/kg	N*	J	8,9
K1101244	SL0051	K1101244-016	SW6010C	Copper	2.9	mg/kg	N	J	8
K1101244	SL0051	K1101244-016	SW6010C	Lead	13.9	mg/kg	J,N	J	8
K1101244	SL0051	K1101244-016	SW7471B	Mercury	0.013	mg/kg	J	U	7
K1101244	SL0051	K1101244-016	SW6010C	Nickel	1.6	mg/kg	J,N	J	8
K1101244	SL0051	K1101244-016	SW6020A	Thallium	0.031	mg/kg		U	7
K1101244	SL0051	K1101244-016	SW6010C	Vanadium	5.2	mg/kg	N*	J	8,9
K1101244	SL0051	K1101244-016	SW6010C	Zinc	16.2	mg/kg	N	J	8
K1101236	SL0060	K1101236-001	SW8270C	Phenol	6.1	ug/kg	J	U	7
K1101236	SL0061	K1101236-002	SW8270C	Phenol	2.8	ug/kg	J	U	7
K1101236	SL0062	K1101236-003	SW8270C	Phenol	4.6	ug/kg	J	U	7
K1101236	SL0063	K1101236-004	SW8270C	Phenol	6.1	ug/kg	J	U	7
K1101236	SL0064	K1101236-005	SW8270C	Phenol	3.3	ug/kg	J	U	7
K1101236	SL0065	K1101236-006	SW8270C	Phenol	7.2	ug/kg	J	U	7
K1101236	SL0066	K1101236-007	SW8270C	Phenol	4.5	ug/kg	J	U	7
K1101236	SL0067	K1101236-008	SW8270C	Phenol	3	ug/kg	J	U	7
K1101236	SL0068	K1101236-009	SW8270C	Phenol	5.7	ug/kg	J	U	7
K1101236	SL0069	K1101236-010	SW8270C	Phenol	3.1	ug/kg	J	U	7
K1101236	SL0070	K1101236-011	SW8270C	Phenol	4.6	ug/kg	J	U	7
K1101236	SL0071	K1101236-012	SW8270C	Phenol	6.2	ug/kg	J	U	7
K1101236	SL0072	K1101236-013	SW8270C	Phenol	5.8	ug/kg	J	U	7
K1101236	SL0073	K1101236-014	SW8270C	Phenol	6.7	ug/kg	J	U	7
K1101236	SL0074	K1101236-015	SW8270C	Phenol	7.9	ug/kg	J	U	7
K1101236	SL0075	K1101236-016	SW8270C	Phenol	4.9	ug/kg	J	U	7
K1101236	SL0076	K1101236-017	SW8270C	Phenol	4.4	ug/kg	J	U	7
K1101236	SL0080	K1101236-021	SW8270C	Phenol	72	ug/kg	JD	U	7
K1101236	SL0060	K1101236-001	SW8260C	Methylene Chloride	1.2	ug/kg	J	U	7
K1101236	SL0061	K1101236-002	SW8260C	Methylene Chloride	1.4	ug/kg	J	U	7
K1101236	SL0062	K1101236-003	SW8260C	Methylene Chloride	1.9	ug/kg	J	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Soil Study

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101236	SL0063	K1101236-004	SW8260C	Methylene Chloride	2.4	ug/kg	J	U	7
K1101236	SL0064	K1101236-005	SW8260C	Methylene Chloride	2	ug/kg	J	U	7
K1101236	SL0065	K1101236-006	SW8260C	Methylene Chloride	1.5	ug/kg	J	U	7
K1101236	SL0066	K1101236-007	SW8260C	Methylene Chloride	1.9	ug/kg	J	U	7
K1101236	SL0067	K1101236-008	SW8260C	Methylene Chloride	2.8	ug/kg	J	U	7
K1101236	SL0068	K1101236-009	SW8260C	Methylene Chloride	2.5	ug/kg	J	U	7
K1101236	SL0069	K1101236-010	SW8260C	Methylene Chloride	1.6	ug/kg	J	U	7
K1101236	SL0070	K1101236-011	SW8260C	Methylene Chloride	1.6	ug/kg	J	U	7
K1101236	SL0071	K1101236-012	SW8260C	Methylene Chloride	1.4	ug/kg	J	U	7
K1101236	SL0072	K1101236-013	SW8260C	Methylene Chloride	2.8	ug/kg	J	U	7
K1101236	SL0073	K1101236-014	SW8260C	Methylene Chloride	1.6	ug/kg	J	U	7
K1101236	SL0074	K1101236-015	SW8260C	Methylene Chloride	2	ug/kg	J	U	7
K1101236	SL0075	K1101236-016	SW8260C	Acrolein	2.2	ug/kg	U	UJ	5B
K1101236	SL0075	K1101236-016	SW8260C	Methylene Chloride	4	ug/kg	J	U	7
K1101236	SL0076	K1101236-017	SW8260C	Acrolein	2.2	ug/kg	U	UJ	5B
K1101236	SL0076	K1101236-017	SW8260C	Methylene Chloride	2.4	ug/kg	J	U	7
K1101236	SL0077	K1101236-018	SW8260C	Acrolein	2.3	ug/kg	U	UJ	5B
K1101236	SL0077	K1101236-018	SW8260C	Methylene Chloride	2.8	ug/kg	J	U	7
K1101236	SL0078	K1101236-019	SW8260C	Acrolein	2.4	ug/kg	U	UJ	5B
K1101236	SL0078	K1101236-019	SW8260C	Methylene Chloride	2.3	ug/kg	J	U	7
K1101236	SL0078	K1101236-019	SW8260C	Toluene	0.32	ug/kg	J	U	7
K1101236	SL0079	K1101236-020	SW8260C	Acrolein	2.2	ug/kg	U	UJ	5B
K1101236	SL0079	K1101236-020	SW8260C	Methylene Chloride	2.6	ug/kg	J	U	7
K1101236	SL0080	K1101236-021	SW8260C	Acrolein	2.3	ug/kg	U	UJ	5B
K1101236	SL0080	K1101236-021	SW8260C	Methylene Chloride	3	ug/kg	J	U	7
K1101241	SL0091	K1101241-001	SW8260C	Acrolein	2	ug/kg	U	UJ	5B
K1101241	SL0091	K1101241-001	SW8260C	Methylene Chloride	2.7	ug/kg	J	U	7
K1101241	SL0092	K1101241-002	SW8260C	Acrolein	2.1	ug/kg	U	UJ	5B
K1101241	SL0092	K1101241-002	SW8260C	Methylene Chloride	3.7	ug/kg	J	U	7
K1101241	SL0093	K1101241-003	SW8260C	Acrolein	2.2	ug/kg	U	UJ	5B
K1101241	SL0093	K1101241-003	SW8260C	Methylene Chloride	1.6	ug/kg	J	U	7
K1101241	SL0094	K1101241-004	SW8260C	Acrolein	2.1	ug/kg	U	UJ	5B
K1101241	SL0094	K1101241-004	SW8260C	Methylene Chloride	1.8	ug/kg	J	U	7
K1101241	SL0095	K1101241-005	SW8260C	Acrolein	2.2	ug/kg	U	UJ	5B
K1101241	SL0095	K1101241-005	SW8260C	Methylene Chloride	1.8	ug/kg	J	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Soil Study

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101241	SL0096	K1101241-006	SW8260C	Acrolein	2.1	ug/kg	U	UJ	5B
K1101241	SL0096	K1101241-006	SW8260C	Methylene Chloride	2.3	ug/kg	J	U	7
K1101241	SL0097	K1101241-007	SW8260C	Acrolein	2	ug/kg	U	UJ	5B
K1101241	SL0097	K1101241-007	SW8260C	Methylene Chloride	3.8	ug/kg	J	U	7
K1101241	SL0098	K1101241-008	SW8260C	Acrolein	2.2	ug/kg	U	UJ	5B
K1101241	SL0098	K1101241-008	SW8260C	Methylene Chloride	1.9	ug/kg	J	U	7
K1101241	SL0099	K1101241-009	SW8260C	Acrolein	2.1	ug/kg	U	UJ	5B
K1101241	SL0099	K1101241-009	SW8260C	Methylene Chloride	2.1	ug/kg	J	U	7
K1101241	SL0100	K1101241-010	SW8260C	Acrolein	2	ug/kg	U	UJ	5B
K1101241	SL0100	K1101241-010	SW8260C	Methylene Chloride	2.4	ug/kg	J	U	7
K1101241	SL0101	K1101241-011	SW8260C	Acrolein	2	ug/kg	U	UJ	5B
K1101241	SL0101	K1101241-011	SW8260C	Methylene Chloride	2.7	ug/kg	J	U	7
K1101241	SL0102	K1101241-012	SW8260C	Acrolein	2.2	ug/kg	U	UJ	5B
K1101241	SL0102	K1101241-012	SW8260C	Methylene Chloride	3	ug/kg	J	U	7
K1101241	SL0103	K1101241-013	SW8260C	Acrolein	2.4	ug/kg	U	UJ	5B
K1101241	SL0103	K1101241-013	SW8260C	Methylene Chloride	3.6	ug/kg	J	U	7
K1101241	SL0104	K1101241-014	SW8260C	Acrolein	2.1	ug/kg	U	UJ	5B
K1101241	SL0104	K1101241-014	SW8260C	Methylene Chloride	2.8	ug/kg	J	U	7
K1101241	SL0105	K1101241-015	SW8260C	Acrolein	1.9	ug/kg	U	UJ	5B
K1101241	SL0105	K1101241-015	SW8260C	Methylene Chloride	3	ug/kg	J	U	7
K1101241	SL0105	K1101241-015	SW8260C	Toluene	0.35	ug/kg	J	U	7
K1101241	SL0106	K1101241-016	SW8260C	Acrolein	2.1	ug/kg	U	UJ	5B
K1101241	SL0106	K1101241-016	SW8260C	Methylene Chloride	2.1	ug/kg	J	U	7
K1101241	SL0106	K1101241-016	SW8260C	Toluene	0.39	ug/kg	J	U	7
K1101241	SL0107	K1101241-017	SW8260C	Acrolein	2.1	ug/kg	U	UJ	5B
K1101241	SL0107	K1101241-017	SW8260C	Methylene Chloride	2.2	ug/kg	J	U	7
K1101241	SL0107	K1101241-017	SW8260C	Toluene	0.38	ug/kg	J	U	7
K1101241	SL0109	K1101241-019	SW8260C	Acrolein	4.5	ug/kg	U	UJ	5B
K1101241	SL0109	K1101241-019	SW8260C	Methylene Chloride	3.1	ug/kg	J	U	7
K1101241	SL0109	K1101241-019	SW8260C	Toluene	0.55	ug/kg	J	U	7
K1101241	SL0110	K1101241-020	SW8260C	Acrolein	2.2	ug/kg	U	UJ	5B
K1101241	SL0110	K1101241-020	SW8260C	Methylene Chloride	1.5	ug/kg	J	U	7
K1101241	SL0110	K1101241-020	SW8260C	Toluene	0.3	ug/kg	J	U	7
K1101241	SL0111	K1101241-021	SW8260C	Acrolein	2.2	ug/kg	U	UJ	5B
K1101241	SL0111	K1101241-021	SW8260C	Methylene Chloride	1.3	ug/kg	J	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Soil Study

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1101241	SL0111	K1101241-021	SW8260C	Toluene	0.28	ug/kg	J	U	7
K1101241	SL0112	K1101241-022	SW8260C	Acrolein	2.4	ug/kg	U	UJ	5B
K1101241	SL0112	K1101241-022	SW8260C	Methylene Chloride	2.6	ug/kg	J	U	7
K1101241	SL0112	K1101241-022	SW8260C	Toluene	0.8	ug/kg	J	U	7

EcoChem, INC.
Environmental Data Quality

DATA VALIDATION REPORT

SAN JACINTO RIVER WASTE PITS
Southern Impoundments Study

Prepared for:

Integral Consulting, Inc.
1205 West Bay Dr. NW
Olympia, Washington 98502

Prepared by:

EcoChem, Inc.
710 Second Avenue, Suite 660
Seattle, Washington 98104

EcoChem Project: C22130-9

May 25, 2011

Approved for Release

Melissa Swanson

Basis for Data Validation

This report summarizes the results of the validation (Stage 2A, Stage 2B, and Stage 3/4) performed on soil and quality control (QC) sample data for the San Jacinto River Southern Impoundments Study. A complete list of samples is provided in the **Sample Index**. Laboratory batch ID numbers and associated level of validation are provided at the beginning of each technical section.

Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington and Columbia Analytical Services, Inc., Houston, Texas. The analytical methods and EcoChem project chemists are listed below.

<table>
<tr><th>Analysis</th><th>Method of Analysis</th><th>Primary Review</th><th>Secondary Review</th></tr>
<tr><td>Volatile Organic Compounds</td><td>SW8260C</td><td>D. Kerlin</td><td rowspan="9">C. Mott</td></tr>
<tr><td>Semivolatile Organic Compounds</td><td>SW8270C</td><td rowspan="2">G. Esler</td></tr>
<tr><td>Polychlorinated Biphenyls (Aroclors)</td><td>SW8082A</td></tr>
<tr><td>Dioxin & Furan Compounds</td><td>EPA1613B</td><td>M. Swanson</td></tr>
<tr><td>Metals</td><td>SW6010C, SW6020A, SW7470A/SW7471B</td><td rowspan="4">J. Maute</td></tr>
<tr><td>Total Organic Carbon</td><td>SW9060M</td></tr>
<tr><td>Particle Size</td><td>PSEP</td></tr>
<tr><td>Total Solids</td><td>EPA 160.3M</td></tr>
</table>

The data were reviewed using guidance and quality control criteria documented in the analytical methods; the *Sampling and Analysis Plan: Soil Study, Addendum 1 San Jacinto River Waste Pits Superfund Site* (Integral, March 2011); *USEPA National Functional Guidelines for Chlorinated Dioxin/Furan Data Review* (USEPA, September 2005); *National Functional Guidelines for Organic Data Review* (USEPA 1999, 2008); and *USEPA National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004).

EcoChem's goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned an R, the data are to be rejected and should not be used for any site evaluation purposes. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Data qualifier definitions, reason codes, and validation criteria are included as **Appendix A**. The qualified data summary table is included as **Appendix B.** Data Validation Worksheets and the associated communication records will be kept on file at EcoChem, Inc. A qualified laboratory electronic data deliverable (EDD) was also submitted with this report.

Sample Index
San Jacinto River Waste Pits
Southern Impoundment Study
Columbia Analytical Services - Kelso

SDG	Sample ID	Laboratory ID	Matrix	VOC	SVOC	PCB	Metals	Conventionals
K1102241	SL0120	K1102241-001	Soil	✓	✓	✓	✓	✓
K1102241	SL0121	K1102241-002	Soil	✓	✓	✓	✓	✓
K1102241	SL0122	K1102241-003	Soil	✓	✓	✓	✓	✓
K1102241	SL0225	K1102241-004	Soil					✓
K1102241	SL0226	K1102241-005	Soil					✓
K1102241	SL0227	K1102241-006	Soil					✓
K1102241	SL0228	K1102241-007	Soil					✓
K1102241	SL0229	K1102241-008	Soil					✓
K1102241	SL0230	K1102241-009	Soil					✓
K1102241	SL0231	K1102241-010	Soil					✓
K1102241	SL0232	K1102241-011	Soil					✓
K1102241	SL0123	K1102241-012	Soil	✓	✓	✓	✓	✓
K1102241	SL0124	K1102241-013	Soil	✓	✓	✓	✓	✓
K1102241	SL0177	K1102241-014	Soil	✓	✓	✓	✓	✓
K1102241	SL0178	K1102241-015	Soil	✓	✓	✓	✓	✓
K1102241	SL0180	K1102241-016	Soil	✓	✓	✓	✓	✓
K1102241	SL0181	K1102241-017	Soil	✓	✓	✓	✓	✓
K1102241	SL0175	K1102241-018	Soil	✓	✓	✓	✓	✓
K1102241	SL0176	K1102241-019	Soil	✓	✓	✓	✓	✓
K1102241	SL0131	K1102241-020	Soil	✓	✓	✓	✓	✓
K1102241	SL0132	K1102241-021	Soil	✓	✓	✓	✓	✓
K1102241	SL0182	K1102241-022	Soil	✓	✓	✓	✓	✓
K1102241	SL0183	K1102241-023	Soil	✓	✓	✓	✓	✓
K1102241	SL0184	K1102241-024	Soil	✓	✓	✓	✓	✓
K1102241	SL0185	K1102241-025	Soil	✓	✓	✓	✓	✓
K1102241	SL0197	K1102241-026	Soil	✓	✓	✓	✓	✓
K1102241	SL0198	K1102241-027	Soil	✓	✓	✓	✓	✓
K1102241	SL0142	K1102241-028	Soil	✓	✓	✓	✓	✓
K1102241	SL0143	K1102241-029	Soil	✓	✓	✓	✓	✓
K1102241	SL0125	K1102241-030	Soil	✓	✓	✓	✓	✓
K1102241	SL0126	K1102241-031	Soil	✓	✓	✓	✓	✓
K1102241	SL0127	K1102241-032	Soil	✓	✓	✓	✓	✓
K1102241	SL0153	K1102241-033	Soil	✓	✓	✓	✓	✓
K1102241	SL0154	K1102241-034	Soil	✓	✓	✓	✓	✓
K1102241	FW0163	K1102241-035	Wipe		✓	✓	✓	
K1102241	SL0179	K1102241-036	Soil	✓	✓	✓	✓	✓
K1102242	SL0162	K1102242-001	Soil	✓	✓	✓	✓	✓
K1102242	SL0167	K1102242-002	Soil	✓	✓	✓	✓	✓
K1102242	SL0168	K1102242-003	Soil	✓	✓	✓	✓	✓
K1102242	SL0169	K1102242-004	Soil	✓	✓	✓	✓	✓
K1102242	SL0170	K1102242-005	Soil	✓	✓	✓	✓	✓
K1102242	SL0171	K1102242-006	Soil	✓	✓	✓	✓	✓
K1102242	SL0172	K1102242-007	Soil	✓	✓	✓	✓	✓
K1102242	SL0173	K1102242-008	Soil	✓	✓	✓	✓	✓
K1102242	SL0174	K1102242-009	Soil	✓	✓	✓	✓	✓
K1102242	SL0238	K1102242-010	Soil					✓
K1102242	SL0189	K1102242-011	Soil	✓	✓	✓	✓	✓
K1102242	SL0190	K1102242-012	Soil	✓	✓	✓	✓	✓
K1102242	SL0191	K1102242-013	Soil	✓	✓	✓	✓	✓

Sample Index
San Jacinto River Waste Pits
Southern Impoundment Study
Columbia Analytical Services - Kelso

SDG	Sample ID	Laboratory ID	Matrix	VOC	SVOC	PCB	Metals	Conventionals
K1102242	SL0192	K1102242-014	Soil	✓	✓	✓	✓	✓
K1102242	SL0195	K1102242-015	Soil	✓	✓	✓	✓	✓
K1102242	SL0196	K1102242-016	Soil	✓	✓	✓	✓	✓
K1102242	SL0240	K1102242-017	Soil	✓	✓	✓	✓	✓
K1102242	SL0239	K1102242-018	Soil	✓	✓	✓	✓	✓
K1102242	SL0203	K1102242-019	Soil	✓	✓	✓	✓	✓
K1102242	SL0208	K1102242-020	Soil					✓
K1102242	SL0209	K1102242-021	Soil					✓
K1102242	SL0210	K1102242-022	Soil					✓
K1102242	SL0211	K1102242-023	Soil					✓
K1102242	SL0212	K1102242-024	Soil					✓
K1102242	SL0213	K1102242-025	Soil					✓
K1102242	SL0214	K1102242-026	Soil					✓
K1102242	SL0215	K1102242-027	Soil					✓
K1102242	SL0216	K1102242-028	Soil					✓
K1102242	SL0217	K1102242-029	Soil					✓
K1102242	SL0218	K1102242-030	Soil					✓
K1102242	SL0219	K1102242-031	Soil					✓
K1102242	SL0220	K1102242-032	Soil					✓
K1102242	SL0221	K1102242-033	Soil					✓
K1102242	SL0222	K1102242-034	Soil					✓
K1102242	SL0224	K1102242-035	Soil					✓
K1102244	SL0187	K1102244-001	Soil	✓	✓	✓	✓	✓
K1102244	SL0188	K1102244-002	Soil	✓	✓	✓	✓	✓
K1102244	SL0164	K1102244-003	Soil	✓	✓	✓	✓	✓
K1102244	SL0165	K1102244-004	Soil	✓	✓	✓	✓	✓
K1102244	SL0166	K1102244-005	Soil	✓	✓	✓	✓	✓
K1102244	FW0128	K1102244-006	Wipe		✓	✓	✓	
K1102244	SL0133	K1102244-007	Soil	✓	✓	✓	✓	✓
K1102244	SL0134	K1102244-008	Soil	✓	✓	✓	✓	✓
K1102244	SL0135	K1102244-009	Soil	✓	✓	✓	✓	✓
K1102244	SL0136	K1102244-010	Soil	✓	✓	✓	✓	✓
K1102244	SL0137	K1102244-011	Soil	✓	✓	✓	✓	✓
K1102244	SL0138	K1102244-012	Soil	✓	✓	✓	✓	✓
K1102244	SL0139	K1102244-013	Soil	✓	✓	✓	✓	✓
K1102244	SL0140	K1102244-014	Soil	✓	✓	✓	✓	✓
K1102244	SL0141	K1102244-015	Soil	✓	✓	✓	✓	✓
K1102244	SL0144	K1102244-018	Soil	✓	✓	✓	✓	✓
K1102244	SL0145	K1102244-019	Soil	✓	✓	✓	✓	✓
K1102244	SL0146	K1102244-020	Soil	✓	✓	✓	✓	✓
K1102244	SL0147	K1102244-021	Soil	✓	✓	✓	✓	✓
K1102244	SL0148	K1102244-022	Soil	✓	✓	✓	✓	✓
K1102244	SL0149	K1102244-023	Soil	✓	✓	✓	✓	✓
K1102244	SL0150	K1102244-024	Soil	✓	✓	✓	✓	✓
K1102244	SL0151	K1102244-025	Soil	✓	✓	✓	✓	✓
K1102244	FW0152	K1102244-026	Wipe		✓	✓	✓	
K1102244	SL0199	K1102244-027	Soil	✓	✓	✓	✓	✓
K1102244	SL0200	K1102244-028	Soil	✓	✓	✓	✓	✓
K1102244	SL0201	K1102244-029	Soil	✓	✓	✓	✓	✓

Sample Index
San Jacinto River Waste Pits
Southern Impoundment Study
Columbia Analytical Services - Kelso

SDG	Sample ID	Laboratory ID	Matrix	VOC	SVOC	PCB	Metals	Conventionals
K1102244	SL0202	K1102244-030	Soil	✓	✓	✓	✓	✓
K1102244	SL0155	K1102244-031	Soil	✓	✓	✓	✓	✓
K1102244	SL0156	K1102244-032	Soil	✓	✓	✓	✓	✓
K1102244	SL0158	K1102244-033	Soil	✓	✓	✓	✓	✓
K1102244	SL0159	K1102244-034	Soil	✓	✓	✓	✓	✓
K1102244	SL0160	K1102244-035	Soil	✓	✓	✓	✓	✓
K1102244	SL0161	K1102244-036	Soil	✓	✓	✓	✓	✓
K1102263	FW0186	K1102263-001	Wipe		✓	✓	✓	
K1102263	FW0241	K1102263-002	Wipe		✓	✓	✓	
K1102263	FW0129	K1102263-003	Wipe		✓	✓	✓	
K1102263	FB0130	K1102263-004	Wipe		✓	✓	✓	
K1102263	FW0234	K1102263-005	Wipe		✓	✓	✓	
K1102263	FW0207	K1102263-006	Wipe		✓	✓	✓	

Sample Index
San Jacinto River Waste Pits
Southern Impoundment Study
Columbia Analytical Services - Houston

SDG	Sample ID	Laboratory ID	Matrix	Dioxins
E1100240	SL0120	E1100240-001	Soil	✓
E1100240	SL0121	E1100240-002	Soil	✓
E1100240	SL0122	E1100240-003	Soil	✓
E1100240	SL0225	E1100240-004	Soil	✓
E1100240	SL0226	E1100240-005	Soil	✓
E1100240	SL0227	E1100240-006	Soil	✓
E1100240	SL0228	E1100240-007	Soil	✓
E1100240	SL0229	E1100240-008	Soil	✓
E1100240	SL0230	E1100240-009	Soil	✓
E1100240	SL0231	E1100240-010	Soil	✓
E1100240	SL0232	E1100240-011	Soil	✓
E1100240	SL0123	E1100240-012	Soil	✓
E1100240	SL0124	E1100240-013	Soil	✓
E1100240	SL0177	E1100240-014	Soil	✓
E1100240	SL0178	E1100240-015	Soil	✓
E1100240	SL0179	E1100240-016	Soil	✓
E1100240	SL0180	E1100240-017	Soil	✓
E1100240	SL0181	E1100240-018	Soil	✓
E1100241	SL0175	E1100241-001	Soil	✓
E1100241	SL0176	E1100241-002	Soil	✓
E1100241	SL0131	E1100241-003	Soil	✓
E1100241	SL0132	E1100241-004	Soil	✓
E1100241	SL0182	E1100241-005	Soil	✓
E1100241	SL0183	E1100241-006	Soil	✓
E1100241	SL0184	E1100241-007	Soil	✓
E1100241	SL0185	E1100241-008	Soil	✓
E1100242	SL0197	E1100242-001	Soil	✓
E1100242	SL0198	E1100242-002	Soil	✓
E1100242	SL0142	E1100242-003	Soil	✓
E1100242	SL0143	E1100242-004	Soil	✓
E1100242	SL0125	E1100242-005	Soil	✓
E1100242	SL0126	E1100242-006	Soil	✓
E1100242	SL0127	E1100242-007	Soil	✓
E1100242	SL0153	E1100242-008	Soil	✓
E1100242	SL0154	E1100242-009	Soil	✓
E1100242	SL0187	E1100242-011	Soil	✓
E1100242	SL0188	E1100242-012	Soil	✓
E1100242	SL0164	E1100242-013	Soil	✓
E1100242	SL0165	E1100242-014	Soil	✓
E1100242	SL0166	E1100242-015	Soil	✓
E1100242	SL0133	E1100242-017	Soil	✓
E1100242	SL0134	E1100242-018	Soil	✓
E1100242	FW0163	E1100242-019	Wipe	✓
E1100242	FW0128	E1100242-020	Wipe	✓
E1100243	SL0135	E1100243-001	Soil	✓
E1100243	SL0136	E1100243-002	Soil	✓
E1100243	SL0137	E1100243-003	Soil	✓
E1100243	SL0138	E1100243-004	Soil	✓
E1100243	SL0139	E1100243-005	Soil	✓

Sample Index
San Jacinto River Waste Pits
Southern Impoundment Study
Columbia Analytical Services - Houston

SDG	Sample ID	Laboratory ID	Matrix	Dioxins
E1100243	SL0140	E1100243-006	Soil	✓
E1100243	SL0141	E1100243-007	Soil	✓
E1100243	SL0144	E1100243-008	Soil	✓
E1100243	SL0145	E1100243-009	Soil	✓
E1100243	SL0146	E1100243-010	Soil	✓
E1100243	SL0147	E1100243-011	Soil	✓
E1100243	SL0148	E1100243-012	Soil	✓
E1100243	SL0149	E1100243-013	Soil	✓
E1100243	SL0150	E1100243-014	Soil	✓
E1100243	SL0151	E1100243-015	Soil	✓
E1100243	SL0199	E1100243-017	Soil	✓
E1100243	SL0200	E1100243-018	Soil	✓
E1100243	FW0152	E1100243-019	Wipe	✓
E1100244	SL0201	E1100244-001	Soil	✓
E1100244	SL0202	E1100244-002	Soil	✓
E1100244	SL0155	E1100244-003	Soil	✓
E1100244	SL0156	E1100244-004	Soil	✓
E1100244	SL0158	E1100244-005	Soil	✓
E1100244	SL0159	E1100244-006	Soil	✓
E1100244	SL0160	E1100244-007	Soil	✓
E1100244	SL0161	E1100244-008	Soil	✓
E1100244	SL0162	E1100244-009	Soil	✓
E1100244	SL0167	E1100244-010	Soil	✓
E1100244	SL0168	E1100244-011	Soil	✓
E1100244	SL0169	E1100244-012	Soil	✓
E1100244	SL0170	E1100244-013	Soil	✓
E1100244	SL0171	E1100244-014	Soil	✓
E1100244	SL0172	E1100244-015	Soil	✓
E1100244	SL0173	E1100244-016	Soil	✓
E1100244	SL0174	E1100244-017	Soil	✓
E1100244	SL0189	E1100244-018	Soil	✓
E1100245	SL0190	E1100245-001	Soil	✓
E1100245	SL0191	E1100245-002	Soil	✓
E1100245	SL0192	E1100245-003	Soil	✓
E1100245	SL0195	E1100245-004	Soil	✓
E1100245	SL0196	E1100245-005	Soil	✓
E1100255	SL0208	E1100255-001	Soil	✓
E1100255	SL0209	E1100255-002	Soil	✓
E1100255	SL0210	E1100255-003	Soil	✓
E1100255	SL0211	E1100255-004	Soil	✓
E1100255	SL0212	E1100255-005	Soil	✓
E1100255	SL0213	E1100255-006	Soil	✓
E1100255	SL0214	E1100255-007	Soil	✓
E1100255	SL0215	E1100255-008	Soil	✓
E1100255	SL0216	E1100255-009	Soil	✓
E1100255	SL0217	E1100255-010	Soil	✓
E1100255	SL0218	E1100255-011	Soil	✓
E1100255	SL0219	E1100255-012	Soil	✓
E1100255	SL0220	E1100255-013	Soil	✓

Sample Index
San Jacinto River Waste Pits
Southern Impoundment Study
Columbia Analytical Services - Houston

SDG	Sample ID	Laboratory ID	Matrix	Dioxins
E1100255	SL0221	E1100255-014	Soil	✓
E1100255	SL0222	E1100255-015	Soil	✓
E1100255	SL0224	E1100255-016	Soil	✓
E1100255	SL0239	E1100255-017	Soil	✓
E1100255	SL0240	E1100255-018	Soil	✓
E1100255	SL0203	E1100255-019	Soil	✓
E1100255	SL0235	E1100255-020	Soil	✓
E1100256	FW0186	E1100256-001	Wipe	✓
E1100256	FW0241	E1100256-002	Wipe	✓
E1100256	FW0129	E1100256-003	Wipe	✓
E1100256	FB0130	E1100256-004	Wipe	✓
E1100256	FW0234	E1100256-005	Wipe	✓

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Southern Impoundment Study
Volatile Organic Compounds by Method SW8260C

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples

SDG	Number of Samples	Validation Level
K1102241	27 Soil	Stage 2B
K1102242	18 Soil	Stage 4
K1102244	32 Soil	Stage 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG K1102241: One of the chain of custody (COC) forms included with this SDG did not have a relinquishing signature. The laboratory personnel did sign receipt of the samples as required. The other COC forms had all required relinquishing and receiving signatures.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory electronic data deliverable (EDD) were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The quality control (QC) requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times		Laboratory Control Samples (LCS/LCSD)
	GC/MS Instrument Performance Check	1	Field Replicates
	Initial Calibration (ICAL)		Internal Standards
	Continuing Calibration (CCAL)	1	Reporting Limits
	Laboratory Blanks		Reported Results
1	Field (Trip) Blanks		Compound Identification (Full validation only)
	Surrogate Compounds	1	Calculation Verification (Full validation only)
	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)		

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

The validation guidance documents state that sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received all sample coolers with temperatures less than the lower limit, with the lowest at -0.6°C. These outliers did not impact data quality; no qualifiers were assigned.

Field Blanks

No field blanks were submitted with this analytical fraction.

Field Replicates

SDG K1102241: Three sets of field replicates were submitted, Samples SL0120 & SL0121, SL0126 & SL0127 and SL0178 & SL0179. No target analytes were detected, field precision was acceptable.

SDG K1102244: Two sets of field replicates were submitted, Samples SL0165 & SL0166 and SL0133 & SL 0134. No target analytes were detected, field precision was acceptable.

Reported Limits

A smaller sample volume was extracted for some of the samples resulting in elevated detection limits. Due to matrix interferences, the detection limits were elevated for several analytes in the following samples:

SDG K1102241: Samples SL0183, SL0184, and SL0185.

SDG K1102242: Samples SL0173, SL0174, and SL0239.

SDG K1102244: Samples SL0138, SL0139, SL0140, and SL0141.

Calculation Verification

SDG K1102242: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD and MS/MSD percent recovery (%R) values. Precision was also acceptable as demonstrated by the LCS/LCSD, MS/MSD and field replicate RPD values.

No data were qualified for any reason.

All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River
Southern Impoundment Study
Semivolatile Organic Compounds by Method SW8270C

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1102241	27 Soil 1 Wipe	Stage 2B Stage 2A
K1102242	18 Soil	Stage 4
K1102244	32 Soil 2 Wipe	Stage 2B Stage 2A
K1102263	6 Wipe	Stage 2A
K1104320	5 Soil	Stage 2B

In the initial analyses of Samples SL0123 and SL0182 (SDG K1102241), SL0174 (K1102242), and SL0140 and SL0147 (K1102244), the acid fraction surrogate percent recovery (%R) values were less than 10% or the surrogates were not recovered. Aliquots of these samples were taken from frozen archive, re-extracted and re-analyzed for the acid fraction analytes. The results of the re-extraction/re-analysis are reported as SDG K1104320.

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

SDG K1102241: One of the chain of custody (COC) forms included with this SDG did not have a relinquishing signature. The laboratory personnel did sign receipt of the samples as required. The other COC forms had all required relinquishing and receiving signatures.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Receipt, Preservation, and Holding Times		Laboratory Control Samples (LCS/LCSD)
	GC/MS Instrument Performance Check	1	Field Replicates
	Initial Calibration (ICAL)	2	Internal Standards
	Continuing Calibration (CCAL)		Target Analyte List
2	Laboratory Blanks	1	Reporting Limits
1	Field Blanks		Compound Identification
2	Surrogate Compounds		Reported Results
2	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)	1	Calculation Verification (Full validation only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

The validation guidance documents state that sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, at -0.6°C. These outliers did not impact data quality; no qualifiers were assigned.

Laboratory Blanks

Laboratory (method) blanks were analyzed at the appropriate frequency. To assess the impact of each blank contaminant on the reported sample results, an action level was established at five times (5x; 10x for phthalates) the concentration detected in the blank. If the concentration in the associated field samples were less than the action level, the results were qualified as not detected (U-7) at the reported concentration. No action was taken if the sample results were greater than the action level or for non-detected results.

The following analytes were qualified as not-detected in one or more samples based on method blank contamination:

SDG K1102241: phenol (2 soil results)

SDG K1104320: phenol (2 soil results)

Field Blanks

To evaluate the effect on the sample data, action levels of 5x (10x for phthalates) the blank concentrations were established. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-6) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

The field blanks for this project are filter wipe samples. Laboratory blanks are used to evaluate all associated field blanks. The contamination in the filter wipe blanks was further evaluated based on Sample FB0130 (the master filter wipe blank). No target analytes were detected in any filter wipe blanks. No data were qualified.

SDG K1102241: One filter wipe blank, FW0163, was submitted with this SDG.

SDG K1102244: Two filter wipe blanks, FW0128 and FW0152, were submitted with this SDG.

SDG K1102263: Six filter wipe blanks, FW0186, FW0241, FW0129, FB0130, FW0234, and FW0207, were submitted with this SDG.

Surrogate Compounds

SDG K1102241: The percent recovery (%R) value for nitrobenzene-d5 was less than the lower control limit in Samples SL0182 and SL0185; no qualifiers were applied for these single outliers.

The %R values for phenol-d6 and 2,4,6-tribromophenol were less than 10% in Samples SL0132 and SL0177. Aliquots of these samples were taken from frozen archive, re-extracted and re-analyzed with acceptable surrogate %R values. The acid fraction results were reported from the re-extracted results. The base/neutral fraction results were reported from the initial extraction. The acid fraction results from the initial extraction and the base/neutral fraction results from the re-extraction were flagged do not report (DNR-11).

The %R value for phenol-d6 was less than the lower control limit and the %R value for 2,4,6-tribromophenol was less than 10% in Samples SL0123 and SL0182. These samples were re-extracted and reanalyzed with acceptable results, as reported in SDG K1104320. All acid fraction results in the original analyses were flagged do-not-report (DNR-11) in favor of the results submitted with SDG K1104320.

SDG K1102242: The %R values for phenol-d6 and nitrobenzene-d5 were greater than the upper control limits in Samples SL0171 and SL0173; no qualifiers were applied for these single outliers, one acid fraction and one base/neutral fraction.

The surrogate 2,4,6-tribromophenol was not recovered in Sample SL0174. This sample was re-extracted and reanalyzed with acceptable results, as reported in SDG K1104320. All acid fraction results in the original analysis were flagged do-not-report (DNR-11) in favor of the results submitted with SDG K1104320.

SDG K1102244: The %R values for nitrobenzene-d5 in Sample SL0139, terphenyl-d14 in Sample SL0148, and 2-fluorobiphenyl in Sample SL0202 were greater than the upper control limits; no qualifiers were applied for these single outliers.

The %R value for terphenyl-d14 in Sample SL0146 and phenol-d6, nitrobenzene-d5, 2,4,6-tribromophenol, and terphenyl-d14 in Sample SL0200 were outside of the control limits. These samples were analyzed at dilution (10x or greater); no data were qualified.

The %R values for phenol-d6 and 2,4,6-tribromophenol were less than 10% in Sample SL0147 and 2,4,6-tribromphenol was not recovered in sample SL0140. These samples were re-extracted and reanalyzed with acceptable results, as reported in SDG K1104320. All acid fraction results in the original analyses were flagged do-not-report (DNR-11) in favor of the results submitted with SDG K1104320.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate samples (MS/MSD) were analyzed at the appropriate frequency. No action is taken unless both the MS and MSD %R values are outside the control limits for MS/MSD %R outliers. Precision is indicated by the relative percent difference (RPD) calculated between the MS and MSD values. Any RPD values outside the control limits indicate uncertainty in the measured results for the sample. Qualifiers were only issued to the parent sample.

If the MS/MSD %R values indicate a potential low bias, associated results are estimated (J/UJ-8). Only the associated positive results are estimated (J-8) if the %R values indicate a potential high bias. Associated positive results are estimated (J-9) if the RPD values indicate uncertainty.

No MS/MSD analyses were performed in batches associated with only filter wipe samples. For these batches, precision and accuracy were evaluated using laboratory control sample/laboratory control sample duplicates (LCS/LCSD).

SDG K1102241: The MS/MSD analyses were performed using Samples SL0122 and SL0126. The RPD value for bis(2-ethylhexyl) phthalate (BEHP) was greater than the control limit for Sample SL0122; this result was estimated (J-9) in the parent sample.

SDG K1102244: The MS/MSD analysis was performed using Sample SL0199. Phenanthrene was not recovered in the MS/MSD. The phenanthrene result was estimated (J-8) in the parent sample. The RPD values for 2,4,6-trichlorophenol, 2,3,4,6-tetrachlorophenol, and pentachlorophenol were greater than the control limit. These analytes were not detected in the sample; no data were qualified.

SDG K1104320: The MS/MSD analysis was performed using Sample SL0147. The RPD values for 2,3,4,6-tetrachlorophenol and pentachlorophenol were greater than the control limit. These analytes were not detected in the sample; no data were qualified.

Field Replicates

The following acceptance criteria were used to evaluate precision: the RPD control limit is 50% for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the absolute difference between the sample and replicate must be less than 2x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1102241: Three sets of field replicates, samples SL0120 & SL0121, SL0126 & SL0127, and SL0178 & SL0179 were submitted. Field precision was acceptable.

SDG K1102244: Two sets of field replicates, samples SL0133 & SL0134 and SL0164 & SL0165 were submitted. Field precision was acceptable.

Internal Standards

SDG K1102241: The internal standard acenaphthene-d10 was not recovered in the initial analysis of Sample SL0185. The internal standard phenanthrene-d10 recovery value was less than the lower control limit in Sample SL0184. The target analytes associated with the internal standards were reported from reanalyses of these samples, associated with acceptable internal standard recoveries; no data were qualified.

SDG K1102242: The internal standard chrysene-d12 recovery values were less than the lower control limit in the initial and reanalyses of Samples SL0169, SL0173, SL0174, SL0189, SL0192, and SL0195. The BEHP results in these samples were estimated (J/UJ-19).

SDG K1102244: The internal standard chrysene-d12 recovery values were less than the lower control limit in the initial and reanalyses of Samples SL0147 and SL0138. The BEHP results in these samples were estimated (J-19).

Reporting Limits

SDGs K1102241, K1102242, K1102244, & K1104320: The reporting limits were elevated due to matrix interferences and/or dilutions in a many samples.

Calculation Verification

SDG K1102242: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by the surrogate, MS/MSD, and LCS/LCSD %R values. With the exceptions noted above, precision was also acceptable as demonstrated by the MS/MSD, LCS/LCSD, and field replicate RPD values.

Results were qualified as not detected due to laboratory blank contamination. Data were estimated due to surrogate, MS/MSD, and internal standard accuracy outliers; and MS/MSD precision outliers

Data were qualified as do-not-report (DNR) to indicate which result (from multiple reported analyses) should not be used. Data flagged DNR should not be used for any purpose.

All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River
Southern Impoundment Study
PCB Aroclors by Method SW8082A

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc. of Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1102241	27 Soil 1 Wipe	Stage2B Stage2A
K1102242	18 Soil	Stage 4
K1102244	32 Soil 2 Wipe	Stage 2B Stage2A
K1102263	6 Wipe	Stage 2A

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG K1102241: One of the chain of custody (COC) forms included with this SDG did not have a relinquishing signature. The laboratory personnel did sign receipt of the samples as required. The other COC forms had all required relinquishing and receiving signatures.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table

1	Sample Receipt, Preservation, and Holding Times		Laboratory Control Samples (LCS/LCSD)
	Initial Calibration (ICAL)	1	Field Replicates
	Continuing Calibration (CCAL)		Target Analyte List
	Laboratory Blanks	1	Reporting Limits
1	Field Blanks	2	Compound Identification
2	Surrogate Compounds		Reported Results
1	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)	1	Calculation Verification (Full validation only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

The validation guidance documents state that sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.6°C. These outliers did not impact data quality; no qualifiers were assigned.

Field Blanks

To evaluate the effect on the sample data, action levels of five times (5x) the blank concentrations were established. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-6) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

The field blanks for this project are filter wipe samples. Laboratory blanks are used to evaluate all associated field blanks. The contamination in the filter wipe blanks was further evaluated based on Sample FB0130 (the master filter wipe blank). No target analytes were detected in any filter wipe samples.

SDG K1102241: One filter wipe blank, FW0163, was submitted with this SDG.

SDG K1102244: Two filter wipe blanks, FW0128 and FW0152, were submitted with this SDG.

SDG K1102263: Six filter wipe blanks, FW0186, FW0241, FW0129, FB0130, FW0234, and FW0207, were submitted with this SDG.

Surrogate Compounds

SDG K1102241: The percent recovery (%R) values for decachlorobiphenyl (DCB) in Samples SL0184 and SL0185 were greater than the upper control limit. Aroclors were not detected in these samples, no data were qualified.

SDG K1102242: The %R values for DCB in Samples SL0171, SL0172, SL0173, SL0174, and SL0203 were greater than the upper control limit. Aroclors were not detected in Samples SL0171, SL0173, and SL0174; no data were qualified. Results for Aroclor 1260 in Samples SL0172 and SL0203 were estimated (J-13).

SDG K1102244: The %R values for DCB in Samples SL0139, SL0141, and SL0140 were greater than the upper control limit. Aroclors were not detected in Samples SL0139 and SL0141; no data were qualified. The result for Aroclor 1260 Sample SL0140 was estimated (J-13).

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate samples (MS/MSD) were analyzed at the appropriate frequency. No action is taken unless both the MS and MSD %R values are outside the control limits for MS/MSD %R outliers. Precision is indicated by the relative percent difference (RPD) between the MS and MSD values. Any RPD values outside the control limits indicate uncertainty in the measured results for the sample. Qualifiers were only issued to the parent sample.

When the MS/MSD %R values indicate a potential low bias, associated results are estimated (J/UJ-8). Only the associated positive results are estimated (J-8) if the %R values indicate a potential high bias. Associated positive results are estimated (J-9) if the RPD values indicate uncertainty.

SDG K1102244: The MS/MSD analyses were performed using Samples SL0134 and SL0146. The %R values for Aroclor 1260 were greater than the upper control limit in Sample SL0146. This analyte was not detected in the parent sample; no data were qualified.

Field Replicates

The following acceptance criteria were used to evaluate precision: the RPD control limit is 50% for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the absolute difference between the sample and replicate must be less than 2x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1102241: Three sets of field replicates, Samples SL0120 & SL0121, SL0126 & SL0127, and SL0178 & SL0179 were submitted. Field precision was acceptable.

SDG K1102244: Two sets of field replicates, Samples SL0133 & SL0134 and SL0164 & SL0165 were submitted. Field precision was acceptable.

Reporting Limits

SDGs K1102241, K1102242, & K1102244: The reporting limits for several Aroclors in a several samples were elevated due to matrix interference.

Compound Identification

The results from the two analytical columns were compared for agreement. In cases where the RPD value between the two columns was greater than 40%, the reported result was "P" flagged by the laboratory. The elevated RPD value may indicate the presence of an interferent resulting in a high bias. When the RPD value was greater than 40% but less than 60% the reported value was estimated (J-3). If the RPD value was greater than 60%, the result was qualified as a tentative identification (NJ-3).

SDG K1102241: Aroclor 1254 in Sample SL012 was estimated (J-3) and Aroclor 1260 in Samples SL0121 and SL0124 were tentatively identified (NJ-3).

SDG K1102242: Aroclor 1260 in Sample SL0167 was estimated (J-3).

Calculation Verification

SDG K1102242: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by the surrogate, MS/MSD, and LCS/LCSD %R values. Precision was also acceptable as demonstrated by the MS/MSD, LCS/LCSD, and field replicate RPD values.

Data were estimated due to surrogate recovery and column confirmation outliers. Data were estimated and tentatively identified due to column confirmation outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Southern Impoundment Study
Dioxin/Furan Compounds by EPA 1613B

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory and field quality control (QC) samples. Columbia Analytical Services, Houston, Texas, analyzed the samples. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
E1100240	18 Soil	Stage 2B
E1100241	8 Soil	Stage 2B
E1100242	16 Soil 2 Filter Wipe	Stage 4 Stage 2A
E1100243	17 Soil 1 Filter Wipe	Stage 2B Stage 2A
E1100244	18 Soil	Stage 2B
E1100245	5 Soil	Stage 2B
E1100255	20 Soil	Stage 4
E1100256	6 Filter Wipe	Stage 2A

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times	1	Matrix Spike/Matrix Spike Duplicate (MS/MSD)
	GC/MS Instrument Performance Check	2	Laboratory Control Samples (LCS/LCSD)
	Initial Calibration (ICAL)	1	Field Replicates
	Calibration Verification (CVER)		Target Analyte List
	Isomer Specificity		Reported Results
2	Laboratory Blanks	2	Compound Identification
1	Field Blanks	1	Calculation Verification (Stage 4 only)
	Labeled Compound Recovery		

[1] Quality control results are discussed below, but no data were qualified.
[2] Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at 1°C. These outliers did not impact data quality; no data were qualified.

Laboratory Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-7). No action is taken if the sample result is greater than the action level, or for non-detected results. The laboratory assigned K-flags to values when a peak was detected but did not meet identification criteria. These values cannot be considered as positive identifications, but are "estimated maximum possible concentrations". When these occurred in the method blank the results were considered as false positives. No action levels were established for these analytes.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however only the following analytes required qualification in one or more samples:

SDG E1100240: 2,3,4,6,7,8-HxCDF (8 soil results), OCDF (4 soil results)

SDG E1100244: 1,2,3,4,6,7,8-HpCDF (1 soil result), OCDF (1 soil result)

Field Blanks

To evaluate the effect on the sample data, action levels of 5x the blank concentrations were established. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-6) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

The field blanks for this project are filter wipe samples. Laboratory blanks are used to evaluate all associated field blanks. The contamination in the filter wipe blanks was further evaluated based on Sample FB0130 (the master filter wipe blank). After qualifiers were issued based on method and master filter wipe blanks, several positive results for target analytes remained in several filter wipe samples. All field sample results were greater than action levels, only filter wipe data were qualified.

SDG E1100242: Two filter wipe blanks were submitted with this SDG: FW0128 and FW0163. A positive result for OCDD was reported in master wipe blank FB0130. The result for OCDD was qualified as not detected (U-6) in FW0163. A positive result remained for 2,3,7,8-TCDF in FW0128 after qualification for ion ratio outliers, method and field blank contamination.

SDG E1100243: One filter wipe blank was submitted with this SDG: FW0152. Positive results for 1,2,3,4,6,7,8-HpCDD and OCDD were reported in this blank

SDG E1100256: Six filter wipe blanks were submitted with this SDG: FB0130, FW0129, FW0186, FW0207, FW0234, and FW0241. A positive result for OCDD was reported in master wipe blank FB0130. Four results for OCDD were qualified as not detected (U-6) in the associated filter wipes. Positive results for 1,2,3,4,6,7,8-HpCDD remained in two filter wipe blanks after qualification for ion ratio outliers, method and field blank contamination.

Matrix Spike/Matrix Spike Duplicate

Matrix spike/matrix spike duplicate (MS/MSD) samples were not analyzed. Accuracy and precision were evaluated using the laboratory control sample/laboratory control sample duplicate (LCS/LCSD).

Laboratory Control Sample

SDGs E1100242, E1100243, E1100245, E1100255, & E1100256: In one or both LCS/LCSD pairs, the percent recovery (%R) values for 1,2,3,7,8-PeCDF were less than the lower control limit. Results for this analyte in the associated samples were estimated (J/UJ-10) to indicate a potential low bias.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 50% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Users of the data should consider the impact of field precision outliers on the reported results.

SDG E1100240: Three sets of field replicates, SL0120 & SL0121, SL0178 & SL0179, and SL0228 & SL0229, were submitted.

In set SL0120 & SL0121, the RPD values for OCDD and total HpCDD were greater than the control limit.

In set SL0178 & SL0179, the RPD values for total TCDF and total HpCDF were greater than the control limit.

In set SL0228 & SL0229, the RPD values for 2,3,7,8-TCDD, 1,2,3,4,6,7,8-HpCDD, 2,3,7,8-TCDF, OCDF, total TCDD, total HxCDD, total HpCDD, total TCDF, and total PeCDF were greater than the control limit.

SDG E1100242: Three sets of field replicates, SL0126 & SL0127, SL0133 & SL0134, and SL0165 & SL0166, were submitted. In set SL0126 & SL0127 field precision was acceptable.

In set SL0133 & SL0134, the RPD values for 1,2,3,4,6,7,8-HpCDD, OCDD, total HpCDD, and total TCDF were greater than the control limit.

In set SL0165 & SL0166, the RPD values for 1,2,3,4,6,7,8-HpCDD, OCDD, and total HpCDD were greater than the control limit.

SDG E1100255: One set of field replicates, SL0210 & SL0211, was submitted. The RPD values for 2,3,7,8-TCDD, 1,2,3,4,6,7,8-HpCDD, OCDD, 2,3,7,8-TCDF, OCDF, total TCDD, total HpCDD, total TCDF, total HxCDF, and total HpCDF were greater than the control limit.

Compound Identification

In several samples the reported concentrations for 2,3,7,8-TCDF, OCDD, or OCDF were greater than the calibrated linear range of the instrument; the laboratory qualified these results with an "E" flag. Affected sample extracts were diluted and re-analyzed; both sets of data were reported and reviewed. The results which were greater than the calibration range were qualified as do-not-report (DNR-20). The results for all other analytes in the dilutions were qualified (DNR-11); the results from the original analyses should be used. Affected samples are listed below.

The laboratory assigned K-flags to results when a peak was detected but did not meet ion ratio quantitation criteria. The reported values cannot be considered as positive identification for

these analytes. These results were considered potential false positives or estimated maximum possible concentrations (EMPC) and were qualified as not detected (U-22) at the reported values. Laboratory blank values flagged "K" were considered as non-detects.

All positive results for 2,3,7,8-TCDF were confirmed on a DB-225 column as required by the method. The 2,3,7,8-TCDF results from the DB-5 column were qualified do-not-report (DNR-11) in favor of the results from the DB-225 column.

SDG E1100240: The results for OCDD in eight (8) samples exceeded the calibration range. These samples were diluted (10x or 20x) and re-analyzed.

SDG E1100241: The results for OCDD in five (4) samples and OCDF in one (1) sample exceeded the calibration range. These samples were diluted (10x) and re-analyzed.

SDG E1100242: The results for OCDD in five (5) samples exceeded the calibration range. These samples were diluted (10x or 20x) and re-analyzed.

SDG E1100243: The results for OCDD in six (6) samples exceeded the calibration range. These samples were diluted (10x) and re-analyzed.

SDG E1100244: The result for OCDD in Sample SL0173 exceeded the calibration range. This sample was diluted (10x) and re-analyzed.

SDG E1100245: The result for 2,3,7,8-TCDF in Sample SL0192 exceeded the calibration range. This sample was diluted (10x) and re-analyzed.

SDG E1100255: The result for 2,3,7,8-TCDF in four (4) samples exceeded the calibration range. These samples were diluted (5x, 10x, or 20x) and re-analyzed.

The 1,2,3,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, and 2,3,4,6,7,8-HxCDF results in Sample SL0235 were "P" flagged by the laboratory to indicate the presence of diphenyl ether interference. These results were estimated (J-14) to indicate a potential high bias.

Calculation Verification

SDGs E1100242 & E1100255: Calculation verifications were performed for these SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by labeled compound and LCS/LCSD %R values. With the exceptions noted above, precision was also acceptable as demonstrated by the LCS/LCSD and field duplicate RPD values.

Data were qualified as not detected due to method blank contamination and ion ratio criteria outliers. Data were estimated based on LCS/LCSD recovery outliers and due to diphenyl ether interference.

Data were flagged do-not-report (DNR) to indicate which result (from multiple reported analyses) should not be used. Data that has been flagged DNR should not be used for any purpose.

All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Southern Impoundment Study
Metals by Methods SW6010C, SW6020A, SW7470A, and SW7471B

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory quality control (QC) samples. Columbia Analytical Services, Kelso, Washington, analyzed the samples. Refer to the Sample Index for a complete list of samples.

SDG	Number of Samples	Validation Level
K1102241	27 Soil & 1 Filter Wipe	Stage 2B Stage 2A
K1102242	18 Soil	Stage 3
K1102244	32 Soil & 2 Filter Wipe	Stage 2B Stage 2A
K1102263	6 Filter Wipe	Stage 2A

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative**.**

All SDGs: In addition to the analytes listed in the SAP, the following analytes were added to the target analyte list: antimony, beryllium, calcium, iron, potassium, selenium, silver, and sodium.

SDG K1102241: One of the chain of custody (COC) forms included with this SDG did not have a relinquishing signature. The laboratory personnel did sign receipt of the samples as required. The other COC forms had all required relinquishing and receiving signatures.

SDG K1102244: One of the COC forms SDG did not have a relinquishing signature and did not have any analytical tests marked. The laboratory personnel did sign receipt of the samples as required. The other COC forms had all required relinquishing and receiving signatures.

The run log describing the ICP-MS analysis performed 3/25/11 – 3/26/11 contained analysis times that were not representative of the corresponding raw data. The laboratory confirmed this was an isolated incident with the instrumentation.

The summary forms noted a value of zero for the cadmium results in both method blanks. A "J" flag was included with both results. The laboratory was contacted and subsequently resubmitted the method blank summary forms with positive result values and "J" flags. Other than noting this discrepancy no further action was taken.

SDG K1102263: The true value for aluminum in the laboratory control sample (LCS) was noted incorrectly on the summary forms (by a factor of ten). The laboratory was contacted and

corrected forms were resubmitted. Other than noting this discrepancy no further action was taken.

I. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Receipt, Preservation, and Holding Times	2	Matrix Spike Samples
	Initial Calibration	2	Laboratory Duplicates
2	Continuing Calibration Verification	1	Field Replicates
2	ICP-MS Tune		Interference Check Samples
	CRDL Standards	2	Serial Dilutions
2	Laboratory Blanks		ICP-MS Internal Standards
2	Field Blanks		Reporting Limits (MDL and MRL)
	Laboratory Control Samples (LCS/LCSD)		Reported Results
	Reference Materials	1	Calculation Verification (Stage 3 only)

[1] Quality control results are discussed below, but no data were qualified.
[2] Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.6°C. These outliers did not impact data quality; no data were qualified.

Continuing Calibration Verification

Initial and continuing calibration verification (ICV/CCV) standards were analyzed at the proper frequency of one per 10 samples analyzed and at the end of every run. All recoveries were within the control limits of 90% to 110%.

Low level initial and continuing calibration verification (LLICV/LLCCV) standards were analyzed at the proper frequency of one per 10 samples for EPA 6010C and EPA 6020A analyses. If the percent recovery (%R) value indicates a potential low bias, associated results less than two times the reporting limit (RL) and non-detects are estimated (J/UJ-5B). If the %R value indicates a potential high bias, only the associated positive results less than two times the RL are estimated (J-5B). For %R values less than 50%, indicating an extreme low bias, positive results less than two times the RL were estimated (J-5B) and non-detects were rejected (R-5B).

Various LLICV/LLCCV standard recoveries were outside control limits, however only the following analytes required qualification in one or more samples:

SDG K1102241: soils: thallium – low bias (J/UJ-5B)

SDG K1102242: soils: thallium – low bias (J/UJ-5B)

ICP MS Tune

SDG K1102244: Analysis of the tuning solution yielded a mass calibration value (-0.137) amu from the true value of 118.903 amu. The target analyte antimony used the mass 123 amu for analysis. One antimony result was estimated (J-5A).

Laboratory Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-7). No action is taken if the sample result is greater than the action level, or for non-detected results.

In addition, some analytes were found at levels less than the MDL in some instrument blanks. For negative blanks, action levels of 5x the absolute value of the blank concentrations were established. Results less than the action levels in the associated samples were estimated (J/UJ-7) to indicate a potential low bias.

Laboratory blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however only the following analytes required qualification in one or more samples:

SDG K1102241: soil: antimony, thallium – not detected (U-7), mercury, silver, thallium – low bias (J/UJ-7)

SDG K1102242: soil: antimony, cadmium – not detected (U-7), silver – low bias (J/UJ-7)

SDG K1102244: filter wipes: barium – not detected (U-7), soil: antimony, silver, thallium – not detected (U-7), mercury – low bias (J/UJ-7)

SDG K1102263: filter wipes: aluminum, barium, cadmium, iron, manganese – not detected (U-7)

Field Blanks

To evaluate the effect on the sample data, action levels of 5x the blank concentrations were established. If a contaminant is detected in an associated field sample and the concentration is

less than the action level, the result is qualified (U-6) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

The field blanks for this project are filter wipe samples. Laboratory blanks are used to evaluate all associated field blanks. The contamination in the filter wipe blanks was further evaluated based on Sample FB0130 (the master filter wipe blank). After qualifiers were issued based on method and master filter wipe blanks, positive results for several target analytes remained in most filter wipe samples. All field sample results were greater than action levels, only filter wipe data were qualified.

SDG K1102241: One filter wipe blank sample, FW0163, was submitted with this SDG. Based on contamination reported in the master filter wipe FB0130, antimony, arsenic, cadmium, calcium, copper, magnesium, potassium, sodium, and zinc were qualified as not detected (U-6) in this sample.

SDG K1102244: Two filter wipe blanks, FB0128 and FB0152, were submitted with this SDG. Based on contamination reported in the master filter wipe calcium, chromium, copper, magnesium, potassium, sodium, and zinc were qualified as not detected (U-6) in both samples. Antimony and arsenic were qualified as not detected (U-6) in Sample FB0152.

SDG K1102263: Six filter wipe blanks, FB0130, FW0186, FW0241, FW0129, FW0234, and FW0207, were submitted with this SDG. Based on contamination reported in the master filter wipe antimony, arsenic, calcium, chromium, copper, magnesium, potassium, sodium, and zinc were qualified as not detected (U-6) in Samples FW0186, FW0241, FW0129, FW0234, and FW0207. Cadmium was qualified as not detected (U-6) in Samples FW0129 and FW0234.

Matrix Spikes

Matrix spike samples (MS) were analyzed at the proper frequency of one per 20 samples or one per batch for soil samples. If the MS percent recovery (%R) value indicates a potential low bias, associated results are estimated (J/UJ-8). If the %R value indicates a potential high bias, only the associated positive results are estimated (J-8). For %R values less than 30%, indicating an extreme low bias, the results for the post digestion spike were also evaluated. If the post spike %R values were acceptable, then associated results were estimated (J/UJ-8). If the post spike %R value was also outside of the control limits of 75%-125%, then positive results were estimated (J-8) and non-detects were rejected (R-8).

The following analytes were qualified in one or more samples based on %R value outliers.

SDG K1102241: SL0120: antimony (low bias); barium, copper, lead, magnesium, zinc (high bias), SL0143: antimony (low bias)

SDG K1102242: SL0162: antimony (low bias); calcium, magnesium, manganese (high bias)

SDG K1102244: SL0187: antimony, zinc (low bias), Batch QC: antimony (low bias)

Laboratory Duplicates

With the exceptions noted below, laboratory duplicates were analyzed at the proper frequency of one per 20 samples or one per batch for the soil samples. The following acceptance criteria were used to evaluate precision. The RPD control limit is 20% for all analytes except mercury, which is 30%. The RPD control limits apply to results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL.

For RPD or difference values greater than the control limits, associated positive results and non-detects were estimated (J/UJ-9). The following outliers were noted:

SDGs K1102241, K1102244, & K1102263: There was insufficient sample volume to analyze duplicates for the wipe samples; the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) relative percent difference (RPD) values were used to evaluate laboratory precision.

SDG K1102241: SL0120: antimony (35%), arsenic (52%), chromium (29%), copper (22.0%), manganese (66.1%), SL0143: arsenic (41%), cadmium (69.32%), calcium (21.3%)

SDG K1102242: SL0162: arsenic (39.6%), cadmium (difference > 2x the RL), calcium (82.2%), magnesium (21.5%), manganese (40.0%), zinc (44.4%)

SDG K1102244: SL0187: calcium (22.2%), Batch QC: arsenic (40.6%), cadmium (69.3%), calcium (21.3%)

Field Replicates

The following acceptance criteria were used to evaluate precision: the RPD control limit is 50% for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the absolute difference between the sample and replicate must be less than 2x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1102241: Three pair of field replicates were submitted, Samples SL0120 & SL0121, SL0126 & SL0127, and SL0178 & SL0179.

In set SL0120 & SL0121, the RPD values for cobalt, copper, and manganese were greater than the control limit and the calculated difference for arsenic was greater than the control limit.

In set SL0126 & SL0127, the RPD values for calcium, sodium, and zinc were greater than the control limit.

In set SL0178 & SL0179, the RPD value for chromium was greater than the control limit, and the calculated differences for antimony and lead were greater than the control limit.

SDG K1102244: Two pairs of field replicates were submitted, Samples SL0165 & SL0166, and Samples SL0133 & SL0134.

In set SL0165 & SL0166, the RPD value for copper was greater than the control limit, and the calculated difference for antimony was greater than the control limit.

In set SL0133 & SL0134, the RPD values for antimony, arsenic, barium, cadmium, chromium, cobalt, copper, iron, manganese, nickel, vanadium, and zinc were greater than the control limit. The calculated difference for lead was greater than the control limit.

ICP Serial Dilution

Serial dilutions were analyzed at the proper frequency of one per 20 samples or one per batch; whichever was more frequent. The percent difference (%D) values were less than the control limit of 10% for results greater than 50 times the MDL, except as noted below. For %D outliers, all associated results were estimated (J/UJ-16). The sample used for the serial dilution analysis and the analytes with %D outliers are noted below:

SDG K1102241: FW0163 (wipe): chromium and sodium, SL0143 (soil): vanadium

SDG K1102244: Batch QC (wipe): chromium and sodium, Batch QC (soil): vanadium, SL0187 (soil): antimony and vanadium

SDG K1102263: Batch QC (soil): chromium and sodium

Reporting Limits

SDG K1102244: The results for calcium in Sample SL0164 and iron in Sample SL0199 were greater than the calibrated linear range of the instrument. These samples extracts were diluted (100x) and re-analyzed. Only the dilution results were reported, reporting limits were elevated accordingly.

Calculation Verification

SDG K1102242: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. With the exceptions noted above, accuracy was acceptable as demonstrated by the laboratory control sample (LCS) and MS %R values. With the exceptions noted above, precision was also acceptable as demonstrated by the laboratory duplicate, and field replicate RPD values.

Data were estimated and/or qualified as not detected based on laboratory and field blank outliers. Data were estimated based on LLCCV standard and MS recovery outliers, ICP-MS tuning calibration outliers, laboratory duplicate RPD, and serial dilution %D outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Southern Impoundment Study
Conventional Parameters

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1102241	35 Soil	Stage 2B
K1102242	35 Soil	Stage 3
K1102244	32 Soil	Stage 2B

The analytical tests that were performed are summarized below.

Parameter	Method
Total Organic Carbon (TOC)	SW9060M
Particle Size	PSEP
Total Solids	EPA 160.3M

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG K1102241: One of the chain of custody (COC) forms included with this SDG did not have a relinquishing signature. The laboratory personnel did sign receipt of the samples as required. The other COC forms had all required relinquishing and receiving signatures.

SDG K1102244: One of the COC forms SDG did not have a relinquishing signature and did not have any analytical tests marked. The laboratory personnel did sign receipt of the samples as required. The other COC forms had all required relinquishing and receiving signatures.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package.

SDG K1102241: The laboratory triplicate TOC result for Sample SL0198 was 1.03% in the EDD. The raw data and the summary forms in the data package list 0.385%. The laboratory was contacted, and the value in the EDD was corrected to match the result in the data package.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times		Laboratory Replicates
	Initial Calibration	1	Field Replicates
	Calibration Verification		Reported Results
	Laboratory Blanks		Reporting Limits
	Laboratory Control Samples (LCS)	1	Calculation Verification
1	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)		

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.6°C. These outliers did not impact data quality; no data were qualified.

Matrix Spikes

Matrix spike samples (MS) were analyzed at the proper frequency of one per 20 samples or one per batch for soil samples. If the MS percent recovery (%R) value indicates a potential low bias, associated results are estimated (J/UJ-8). If the %R value indicates a potential high bias, only the associated positive results are estimated (J-8). For %R values less than 30%, indicating an extreme low bias, then positive results were estimated (J-8) and non-detects were rejected (R-8). Precision is indicated by the relative percent difference (RPD) between the MS and MSD values. RPD values outside the control limits indicate uncertainty in the measured results for the sample. Control limits for precision have not been established. The laboratory precision control limits were used to evaluate the data.

SDG K1102241: The MS/MSD analysis for TOC was performed using Sample SL0120. The laboratory flagged the RPD value as being greater the control limit. The percent relative standard deviation (%RSD) between the quadruplicate analyses was in control for the parent sample and all samples in this SDG. The RPD value for the MS/MSD was calculated using percent recoveries, however, the true values for the MS and MSD samples were not the same. Using the concentrations to calculate the RPD value yields a result of 20.6% which is within the laboratory control limit. Based on the calculated RPD value using the matrix spike sample results and the RSD values for the replicates being in control, no data were qualified.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 50% for results greater than five times (5x) the reporting limit (RL). For results less than 5x the RL, the absolute difference between the sample and replicate must be less than 2x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1102241: Four pairs of field replicates were submitted, Samples SL0120 & SL0121, SL0126 & SL0127, SL0178 & SL0179, and SL0228 & SL0229.

In set SL0120 & SL0121, the RPD value for TOC (97.2%) was greater than the control limit.

In set SL0126 & SL0127, the RPD value for very coarse sand was greater than the control limit, at 50.1%.

In set SL0178 & SL0179, the RPD for gravel (99.4%) was greater than the control limit.

In set SL0228 & SL0229, the RPD value for fine sand (59.1%) was greater than the control limit.

SDG K1102242: One set of field replicates, Samples SL0210 & SL0211, was submitted. Field precision was acceptable.

SDG K1102244: Two pairs of field replicates were submitted, Samples SL0165 & SL0166, and Samples SL0133 & SL0134.

In set SL0165 & SL0166, the RPD value for fine sand (63.8%) was greater than the control limit.

In set SL0133 & SL0134, the RPD values for gravel and fine sand (58.0% and 58.7%, respectively) were greater than the control limit.

Calculation Verification

SDG K1102242: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. With the exceptions noted above, accuracy was acceptable as demonstrated by the matrix spike/matrix spike duplicate (MS/MSD) and laboratory control sample (LCS) percent recovery values. With the exceptions documented above, precision was acceptable as demonstrated by the MS/MSD samples, laboratory duplicate samples, and field replicate RPD values.

No data were qualified for any reason.

All data, as reported, are acceptable for use.

EcoChem, INC.
Environmental Data Quality

APPENDIX A

DATA QUALIFIER DEFINITIONS, REASON CODES, AND CRITERIA TABLES

DATA VALIDATION QUALIFIER CODES
Based on National Functional Guidelines

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.

DATA QUALIFIER REASON CODES

1	Holding Time/Sample Preservation
2	Chromatographic pattern in sample does not match pattern of calibration standard.
3	Compound Confirmation
4	Tentatively Identified Compound (TIC) (associated with NJ only)
5A	Calibration (initial)
5B	Calibration (continuing)
6	Field Blank Contamination
7	Lab Blank Contamination (e.g., method blank, instrument, etc.)
8	Matrix Spike(MS & MSD) Recoveries
9	Precision (all replicates)
10	Laboratory Control Sample Recoveries
11	A more appropriate result is reported (associated with “R” and “DNR” only)
12	Reference Material
13	Surrogate Spike Recoveries (a.k.a., labeled compounds & recovery standards)
14	Other (define in validation report)
15	GFAA Post Digestion Spike Recoveries
16	ICP Serial Dilution % Difference
17	ICP Interference Check Standard Recovery
18	Trip Blank Contamination
19	Internal Standard Performance (e.g., area, retention time, recovery)
20	Linear Range Exceeded
21	Potential False Positives
22	Elevated Detection Limit Due to Interference (i.e., laboratory, chemical and/or matrix)

EcoChem Validation Guidelines for Volatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C±2°C Water: HCl to pH < 2	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Hold Time	Waters: 14 days preserved 7 Days: unpreserved (for aromatics) Solids: 14 Days	J(+)/UJ(-) if hold times exceeded If exceeded by > 3X HT: J(+)/R(-) (EcoChem PJ)	1
Tuning	BFB Beginning of each 12 hour period Method acceptance criteria	R(+/-) all analytes in all samples associated with the tune	5A
Initial Calibration (Minimum 5 stds.)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5A
	%RSD < 30%	(EcoChem PJ, see TM-06) J(+) if %RSD > 30%	5A
Continuing Calibration (Prior to each 12 hr. shift)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5B
	%D <25%	(EcoChem PJ, see TM-06) If > +/-90%: J+/R- If -90% to -26%: J+ (high bias) If 26% to 90%: J+/UJ- (low bias)	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample (+) result is less than CRQL and less than appropriate 5X or 10X rule (raise sample value to CRQL)	7
		U(+) if sample (+) result is greater than or equal to CRQL and less than appropriate 5X and 10X rule (at reported sample value)	7
	No TICs present	R(+) TICs using 10X rule	7
Storage Blank	One per SDG <CRQL	U(+) the specific analyte(s) results in all assoc.samples using the 5x or 10x rule	7
Trip Blank	Frequency as per project QAPP	Same as method blank for positive results remaining in trip blank after method blank qualifiers are assigned	18
Field Blanks (if required in QAPP)	No results > CRQL	Apply 5X/10X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Volatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One per matrix per batch Use method acceptance criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One per matrix per batch Use method acceptance criteria	J(+) in parent sample if RPD > CL	9
LCS *low conc. H2O VOA*	One per lab batch Within method control limits	J(+) assoc. cmpd if > UCL J(+)/R(-) assoc. cmpd if < LCL J(+)/R(-) all cmpds if half are < LCL	10
LCS *regular VOA (H2O & solid)*	One per lab batch Lab or method control limits	J(+) if %R > UCL J(+)/UJ(-) if %R <LCL J(+)/R(-) if %R < 10% (EcoChem PJ)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	Added to all samples Within method control limits	J(+) if %R >UCL J(+)/UJ(-) if %R <LCL but >10% (see PJ[1]) J(+)/R(-) if <10%	13
Internal Standard (IS)	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	J(+) if > 200% J(+)/UJ(-) if < 50% J(+)/R(-) if < 25% RT>30 seconds, narrate and Notify PM	19
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
TICs	Major ions (>10%) in reference must be present in sample; intensities agree within 20%; check identification	NJ the TIC unless: R(+) common laboratory contaminants See Technical Director for ID issues	4
Quantitation/ Identification	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	See Technical Director if outliers	14 21 (false +)

PJ[1] No action if there are 4+ surrogates and only 1 outlier.

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EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C ±2°	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Holding Time	Water: 7 days from collection Soil: 14 days from collection Analysis: 40 days from extraction	Water: J(+)/UJ(-) if ext. > 7 and < 21 days J(+)/R(-) if ext > 21 days (EcoChem PJ) Solids/Wastes: J(+)/UJ(-) if ext. > 14 and < 42 days J(+)/R(-) if ext. > 42 days (EcoChem PJ) J(+)/UJ(-) if analysis >40 days	1
Tuning	DFTPP Beginning of each 12 hour period Method acceptance criteria	R(+/-) all analytes in all samples associated with the tune	5A
Initial Calibration (Minimum 5 stds.)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5A
	%RSD < 30%	(EcoChem PJ, see TM-06) J(+) if %RSD > 30%	5A
Continuing Calibration (Prior to each 12 hr. shift)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5B
	%D <25%	(EcoChem PJ, see TM-06) If > +/-90%: J+/R- If -90% to -26%: J+ (high bias) If 26% to 90%: J+/UJ- (low bias)	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample (+) result is less than CRQL and less than appropriate 5X or 10X rule (raise sample value to CRQL)	7
		U(+) if sample (+) result is greater than or equal to CRQL and less than appropriate 5X and 10X rule (at reported sample value)	7
	No TICs present	R(+) TICs using 10X rule	7
Field Blanks (Not Required)	No results > CRQL	Apply 5X/10X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One per matrix per batch Use method acceptance criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One per matrix per batch Use method acceptance criteria	J(+) in parent sample if RPD > CL	9
LCS low conc. H2O SVOA	One per lab batch Within method control limits	J(+) assoc. cmpd if > UCL J(+)/R(-) assoc. cmpd if < LCL J(+)/R(-) all cmpds if half are < LCL	10
LCS regular SVOA (H2O & solid)	One per lab batch Lab or method control limits	J(+) if %R > UCL J(+)/UJ(-) if %R <LCL J(+)/R(-) if %R < 10% (EcoChem PJ)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	Minimum of 3 acid and 3 base/neutral compounds Use method acceptance criteria	Do not qualify if only 1 acid and/or 1 B/N surrogate is out unless <10% J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) if %R < 10%	13
Internal Standards	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	J(+) if > 200% J(+)/UJ(-) if < 50% J(+)/R(-) if < 25% RT>30 seconds, narrate and Notify PM	19
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
TICs	Major ions (>10%) in reference must be present in sample; intensities agree within 20%; check identification	NJ the TIC unless: R(+) common laboratory contaminants See Technical Director for ID issues	4
Quantitation/ Identification	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	See Technical Director if outliers	14 21 (false +)

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EcoChem Validation Guidelines for Pesticides, PCBs, Herbicides, and Phenol by GC/ECD (Based on Organic NFG 1999 & EPA SW-846 Methods 8081/8082/8041/8151)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C ±2°	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Holding Time	Water: 7 days from collection Soil: 14 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext/analyzed > HT J(+)/R(-) if ext/analyzed > 3X HT (EcoChem PJ)	1
Resolution Check	Beginning of ICAL Sequence Within RTW Resolution >90%	Narrate (Use Professional Judgement to qualify)	14
Instrument Performance (Breakdown)	DDT Breakdown: < 20% Endrin Breakdown: <20% Combined Breakdown: <30% Compounds within RTW	J(+) DDT NJ(+) DDD and/or DDE R(-) DDT - If (+) for either DDE or DDD J(+) Endrin NJ(+) EK and/or EA R(-) Endrin - If (+) for either EK or EA	5A
Retention Times	Surrogates: TCX (+/- 0.05); DCB (+/- 0.10) Target compounds: elute before heptachlor epoxide (+/- 0.05) elute after heptachlor epoxide (+/- 0.07)	NJ(+)/R(-) results for analytes with RT shifts For full DV, use PJ based on examination of raw data	5B
Initial Calibration	Pesticides: Low=CRQL, Mid=4X, High=16X Multiresponse - one point Calibration %RSD<20% %RSD<30% for surr; two comp. may exceed if <30% Resolution in Mix A and Mix B >90%	J(+)/UJ(-)	5A
Continuing Calibration	Alternating PEM standard and INDA/INDB standards every 12 hours (each preceeded by an inst. Blank) %D < 25% Resolution >90% in IND mixes; 100% for PEM	J(+)/UJ(-) J(+)R(-) if %D > 90% PJ for resolution	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample result is < CRQL and < 5X rule (raise sample value to CRQL) U(+) if sample result is > or equal to CRQL and < 5X rule (at reported sample value)	7
Instrument Blanks	Analyzed at the beginning of every 12 hour sequence No analyte > 1/2 CRQL	Same as Method Blank	7
Field Blanks	Not addressed by NFG No results > CRQL	Apply 5X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Pesticides, PCBs, Herbicides, and Phenol by GC/ECD (Based on Organic NFG 1999 & EPA SW-846 Methods 8081/8082/8041/8151)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One set per matrix per batch Method Acceptance Criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One set per matrix per batch Method Acceptance Criteria	J(+) in parent sample if RPD > CL	9
LCS	One per SDG Method Acceptance Criteria	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	TCX and DCB added to every sample %R = 30-150%	J(+)/UJ(-) if both %R = 10 - 60% J(+) if both >150% J(+)/R(-) if any %R <10%	13
Quantitation/ Identification	Quantitated using ICAL calibration factor (CF) RPD between columns <40%	J(+) if RPD = 40 - 60% NJ(+) if RPD >60% EcoChem PJ - See TM-08	3
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used to avoid reporting two results for one sample	11
Sample Clean-up	GPC required for soil samples Florisil required for all samples Sulfur is optional Clean-up standard check %R within CLP limits	J(+)/UJ(-) if %R < LCL J(+) if %R > UCL	14
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate (Qualifiy if required by project QAPP)	9

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler/Storage Temperature	Waters/Solids < 4°C Tissues <-10°C	EcoChem PJ, see TM-05	1
Holding Time	Extraction - Water: 30 days from collection *Note:* Under CWA, SDWA, and RCRA the HT for H2O is 7 days* Extraction - Soil: 30 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext > 30 days J(+)/UJ(-) if analysis > 40 Days EcoChem PJ, see TM-05	1
Mass Resolution	>=10,000 resolving power at m/z 304.9824 Exact mass of m/z 380.9760 w/in 5 ppm of theoretical value (380.97410 to 380.97790) . Analyzed prior to ICAL and at the start and end of each 12 hr. shift	R(+/-) if not met	14
Window Defining Mix and Column Performance Mix	Window defining mixture/Isomer specificity std run before ICAL and CCAL Valley < 25% (valley = (x/y)*100%) x = ht. of TCDD y = baseline to bottom of valley For all isomers eluting near 2378-TCDD/TCDF isomers (TCDD only for 8290)	J(+) if valley > 25%	5A (ICAL) 5B (CCAL
Initial Calibration	Minimum of five standards %RSD < 20% for native compounds %RSD <30% for labeled compounds (%RSD <35% for labeled compounds under 1613b)	J(+) natives if %RSD > 20%	5A
	Abs. RT of $^{13}C_{12}$-1234-TCDD >25 min on DB5 >15 min on DB-225	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10 for all native and labeled compounds in CS1 std.	If <10, elevate Det. Limit or R(-)	

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Continuing Calibration	Analyzed at the start and end of each 12 hour shift. %D+/-20% for native compounds %D +/-30% for labeled compounds (Must meet limits in Table 6, Method 1613B) (If %Ds in the closing CCAL are w/in 25%/35% the avg RF from the two CCAL may be used to calculate samples per Method 8290, Section 8.3.2.4)	Do not qualify labeled compounds. Narrate in report for labeled compound %D outliers. For native compound %D outliers: 8290: J(+)/UJ(-) if %D = 20% - 75% J(+)/R(-) if %D > 75% 1613: J(+)/UJ(-) if %D is outside Table 6 limits J(+)/R(-) if %D is +/- 75% of Table 6 limit	5B
	Abs. RT of $^{13}C_{12}$-1234-TCDD and $^{13}C12$-123789-HxCDD +/- 15 sec of ICAL.	EcoChem PJ, see ICAL section of TM-05	
	RRT of all other compounds must meet Table 2 of 1613B.	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10	If <10, elevate Det. Limit or R(-)	
Method Blank	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	7
Field Blanks (Not Required)	No positive results	If sample result <5X action level, qualify U at reported value.	6
LCS / OPR	Concentrations must meet limits in Table 6, Method 1613B or lab limits.	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
MS/MSD (recovery)	May not analyze MS/MSD %R should meet lab limits.	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	May not analyze MS/MSD RPD < 20%	J(+) in parent sample if RPD > CL	9

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Lab Duplicate	RPD <25% if present.	J(+)/UJ(-) if outside limts	9
Labeled Compounds / Internal Standards	*Method 8290:* %R = 40% - 135% in all samples *Method 1613B:* %R must meet limits specified in Table 7, Method 1613	J(+)/UJ(-) if %R = 10% to LCL J(+) if %R > UCL J(+)/R(-) if %R < 10%	13
Quantitation/ Identification	Ions for analyte, IS, and rec. std. must max w/in 2 sec. S/N >2.5 IA ratios meet limits in Table 9 of 1613B or Table 8 of 8290 RRTs w/in limits in Table 2 of 1613B	If RT criteria not met, use PJ (see TM-05) If S/N criteria not met, J(+). if unlabelled ion abundance not met, change to EMPC If labelled ion abundance not met, J(+).	21
EMPC (estimated maximum possible concentration)	If quantitation idenfication criteria are not met, laboratory should report an EMPC value.	If laboratory correctly reported an EMPC value, qualify with U to indicate that the value is a detection limit.	14
Interferences	PCDF interferences from PCDPE	If both detected, change PCDF result to EMPC	14
Second Column Confirmation	All 2378-TCDF hits must be confirmed on a DB-225 (or equiv) column. All QC specs in this table must be met for the confirmation analysis.	Report lower of the two values. If not performed use PJ (see TM-05).	3
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used	11

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EcoChem Validation Guidelines for Metals Analysis by ICP (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration Tissues: Frozen	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, r > 0.995	J(+)/UJ(-) if r < 0.995 (multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±10% of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within ±10% of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B

Initial and Continuing Calibration Blank (ICB/CCB)	After each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		(Refer to TM-02 for additional information)
			7

Reporting Limit Standard	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Sb, Pb, Tl)	R(-)/J(+) < 2x RL if %R <50% (< 30% Sb, Pb, Tl) J(+) < 2x RL, UJ(-) if %R 50-69% (30-49% Sb, Pb,Tl) J(+) < 2x RL if %R 130-180% (150-200% Sb, Pb, Tl) R(+) < 2x RL if %R > 180% (200% Sb, Pb, Tl)	14
Interference Check Samples (ICSA/ICSAB)	ICSAB %R 80 - 120% for all spiked elements | ICSA | < MDL for all unspiked elements except: K, Na	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R >120% J(+)/UJ(-) if %R= 50 to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	

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EcoChem Validation Guidelines for Metals Analysis by ICP
(Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Matrix Spikes	One per matrix per batch 75-125% for samples less than 4x spike level	J(+) if %R > 125% J(+)/UJ(-) if %R < 75% J(+)/R(-) if %R < 30% or J(+)/UJ(-) if Post Spike %R 75-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, spike at twice the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples >RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL (2x RL for solids) qualify all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample conc. > 50x MDL	J(+)/UJ(-) if %D >10% qualify all samples in batch	16
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

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EcoChem Validation Guidelines for Metals Analysis by ICP-MS (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Tune	Prior to ICAL monitoring compounds analyzed 5 times wih Std Dev. ≤ 5% mass calibration <0.1 amu from True Value Resolution < 0.9 AMU @ 10% peak height or <0.75 amu @ 5% peak height	Use Professional Judgment to evaluate tune J(+)/UJ(-) if tune criteria not met	5A
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, r>0.995	J(+)/UJ(-) if r<0.995 (for multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±10% of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run ±10% of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B

Initial and Continuing Calibration Blanks (ICB/CCB)	After each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Reporting Limit Standard (CRI)	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Co,Mn, Zn)	R(-),(+) < 2x RL if %R < 50% (< 30% Co,Mn, Zn) J(+) < 2x RL, UJ(-) if %R 50-69% (30%-49% Co,Mn, Zn) J(+) < 2x RL if %R 130%-180% (150%-200% Co,Mn, Zn) R(+) < 2x RL if %R > 180% (200% Co, Mn, Zn)	14
Interference Check Samples (ICSA/ICSAB)	Required by SW 6020, but not 200.8 ICSAB %R 80% - 120% for all spiked elements | ICSA | < IDL (MDL) for all unspiked elements	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R >120% J(+)/UJ(-) if %R = 50% to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7

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EcoChem Validation Guidelines for Metals Analysis by ICP-MS
(Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Laboratory Control Sample (LCS)	One per matrix per batch Blank Spike: %R within 80%-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spike/ Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 75-125% for samples where results do not exceed 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R <75% J(+)/R(-) if %R<30% or J(+)/UJ(-) if Post Spike %R 75%-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, Spike parent sample at 2x the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5 x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample values > 50x MDL	J(+)/UJ(-) if %D >10% All samples in batch	16
Internal Standards	Every sample SW6020: 60%-125% of cal blank IS 200.8: 30%-120% of cal blank IS	J (+)/UJ (-) all analytes associated with IS outlier	19
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < AL in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	28 days from date sampled Frozen tissues: HT extended to 6 months	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + 4 standards, one at RL r > 0.995	J(+)/UJ(-) if r<0.995	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5B

Initial and Continuing Calibration Blanks (ICB/CCB)	after each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Reporting Limit Standard (CRA)	conc at RL - analyzed beginning of run %R = 70-130%	R(-),(+)<2xRL if %R <50% J(+)<2x RL, UJ(-) if %R 50-69% J(+) <2x RL if %R 130-180% R(+)<2x RL if %R>180%	14
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch		10
	Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 5% frequency 75-125% for samples less than 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R <75% J(+)/R(-) if %R<30% all samples in batch	8
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9

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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5x RL: Water: Diff<RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must be less than 110% of high standard	J values over range	20

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EcoChem Validation Guidelines for Conventional Chemistry Analysis (Based on EPA Standard Methods)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler Temperature 4°C ±2°C Preservation: Method Specific	Use Professional Judgment to qualify based to qualify for coole temp outliers J(+)/UJ(-) if preservation requirements not met	1
Holding Time	Method Specific	Professional Judgment J(+)/UJ(-) if holding time exceeded J(+)/R(-) if HT exceeded by > 3X	1
Initial Calibration	Method specific r>0.995	Use professional judgment J(+)/UJ(-) for r < 0.995	5A
Initial Calibration Verification (ICV)	Where applicable to method Independent source analyzed immediately after calibration %R method specific, usually 90% - 110%	R(+/-) if %R significantly < LCL J(+)/UJ(-) if %R < LCL J(+) if %R > UCL R(+) if %R significantly > UCL	5A
Continuing Cal Verification (CCV)	Where applicable to method Every ten samples, immed. following ICV/ICB and end of run %R method specific, usually 90% - 110%	R(+/-) if %R significantly < LCL J(+)/UJ(-) if %R < LCL J(+) if %R > UCL R(+) if %R significantly > UCL	5B

Initial and Continuing Cal Blanks (ICB/CCB)	Where applicable to method
	After each ICV and CCV every ten samples and end of run
	| blank| < MDL
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Method Blank	One per matrix per batch
	(not to exceed 20 samples)
	blank < MDL
		Action level is 5x absolute value of blank conc.
		For (+) blk value, U(+) results < action level
		For (-) blk value, J(+)/UJ(-) results < action level
			7

Laboratory Control Sample	Waters: One per matrix per batch %R (80-120%)	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	Soils: One per matrix per batch Result within manufacturer's certified acceptance range	J(+)/UJ(-) if < LCL, J(+) if > UCL	10
Matrix Spike	One per matrix per batch; 5% frequency 75-125% for samples less than 4 x spike level	J(+) if %R > 125% or < 75% UJ(-) if %R = 30-74% R(+/-) results < IDL if %R < 30%	8
Laboratory Duplicate	One per matrix per batch RPD <20% for samples > 5x RL Diff <RL for samples >RL and <5 x RL (may use RPD < 35%, Diff < 2X RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9

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EcoChem Validation Guidelines for Conventional Chemistry Analysis (Based on EPA Standard Methods)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Field Blank	blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5X RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff<RL Solid: Diff < 2X RL	J(+)/UJ(-) in parent samples only	9

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Environmental Data Quality

APPENDIX B
QUALIFIED DATA SUMMARY TABLE

Qualified Data Summary Table
San Jacinto Waste Pits
Southern Impoundment Study

SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100240	SL0120	E1100240-001	EPA1613B	Octachlorodibenzo-p-furan	1.51	ng/kg	BJ	U	7
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	49.6	ng/kg	J,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.971	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.957	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.158	ng/kg	JK	U	22
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.915	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.705	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.43	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.132	ng/kg	JK	U	22
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.644	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.18	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.646	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.0996	ng/kg	JK	U	22
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.598	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.816	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.663	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.955	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.258	ng/kg	JK	U	22
E1100240	SL0121	E1100240-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.11	ng/kg	U,D	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.459	ng/kg	CJ	DNR	11
E1100240	SL0121	E1100240-002	EPA1613B	Octachlorodibenzo-p-dioxin	5400	ng/kg	BE	DNR	20
E1100240	SL0121	E1100240-002	EPA1613B	Octachlorodibenzo-p-furan	4.79	ng/kg	BJK,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	161	ng/kg	D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	7.97	ng/kg	J,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.72	ng/kg	U,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.82	ng/kg	U,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	2.12	ng/kg	U,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	3.91	ng/kg	U,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.86	ng/kg	U,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	3.42	ng/kg	U,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.96	ng/kg	U,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.29	ng/kg	U,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.19	ng/kg	U,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.851	ng/kg	BJ	U	7
E1100240	SL0122	E1100240-003	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	2.11	ng/kg	U,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.59	ng/kg	U,D	DNR	11

Qualified Data Summary Table
San Jacinto Waste Pits
Southern Impoundment Study

SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100240	SL0122	E1100240-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.688	ng/kg	JK	U	22
E1100240	SL0122	E1100240-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.81	ng/kg	U,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.22	ng/kg	U,D	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	3.21	ng/kg	C	DNR	11
E1100240	SL0122	E1100240-003	EPA1613B	Octachlorodibenzo-p-dioxin	31100	ng/kg	BE	DNR	20
E1100240	SL0122	E1100240-003	EPA1613B	Octachlorodibenzo-p-furan	27	ng/kg	BJ,D	DNR	11
E1100240	SL0225	E1100240-004	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.351	ng/kg	BJK	U	22
E1100240	SL0225	E1100240-004	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.376	ng/kg	JK	U	22
E1100240	SL0225	E1100240-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	4.11	ng/kg	K	U	22
E1100240	SL0225	E1100240-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	4	ng/kg	C	DNR	11
E1100240	SL0227	E1100240-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.268	ng/kg	JK	U	22
E1100240	SL0227	E1100240-006	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.233	ng/kg	JK	U	22
E1100240	SL0227	E1100240-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.604	ng/kg	CJ	DNR	11
E1100240	SL0227	E1100240-006	EPA1613B	Octachlorodibenzo-p-furan	1.27	ng/kg	BJ	U	7
E1100240	SL0228	E1100240-007	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.105	ng/kg	JK	U	22
E1100240	SL0228	E1100240-007	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.409	ng/kg	BJ	U	7
E1100240	SL0228	E1100240-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	106	ng/kg	C	DNR	11
E1100240	SL0229	E1100240-008	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.929	ng/kg	BJ	U	7
E1100240	SL0229	E1100240-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	213	ng/kg	C	DNR	11
E1100240	SL0230	E1100240-009	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.102	ng/kg	JK	U	22
E1100240	SL0230	E1100240-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.667	ng/kg	JK	U	22
E1100240	SL0230	E1100240-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.64	ng/kg	CK	DNR	11
E1100240	SL0230	E1100240-009	EPA1613B	Octachlorodibenzo-p-furan	1.34	ng/kg	BJ	U	7
E1100240	SL0231	E1100240-010	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	2.19	ng/kg	JK	U	22
E1100240	SL0231	E1100240-010	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.203	ng/kg	JK	U	22
E1100240	SL0231	E1100240-010	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	2.33	ng/kg	BJ	U	7
E1100240	SL0231	E1100240-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.528	ng/kg	JK	U	22
E1100240	SL0231	E1100240-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	4.22	ng/kg	C	DNR	11
E1100240	SL0232	E1100240-011	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.148	ng/kg	JK	U	22
E1100240	SL0232	E1100240-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.831	ng/kg	JK	U	22
E1100240	SL0232	E1100240-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.21	ng/kg	C	DNR	11
E1100240	SL0232	E1100240-011	EPA1613B	Octachlorodibenzo-p-furan	1.77	ng/kg	BJ	U	7
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	440	ng/kg	D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	2.69	ng/kg	JK,D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.181	ng/kg	JK	U	22
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.16	ng/kg	U,D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	3.19	ng/kg	JK,D	DNR	11

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.34	ng/kg	U,D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	8.72	ng/kg	J,D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.17	ng/kg	U,D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	12	ng/kg	J,D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.26	ng/kg	U,D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.63	ng/kg	U,D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.56	ng/kg	JK	U	22
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.41	ng/kg	U,D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.167	ng/kg	JK	U	22
E1100240	SL0123	E1100240-012	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.243	ng/kg	BJK	U	22
E1100240	SL0123	E1100240-012	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.27	ng/kg	U,D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.89	ng/kg	U,D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.44	ng/kg	U,D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.8	ng/kg	U,D	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.835	ng/kg	CJ	DNR	11
E1100240	SL0123	E1100240-012	EPA1613B	Octachlorodibenzo-p-dioxin	47800	ng/kg	BE	DNR	20
E1100240	SL0123	E1100240-012	EPA1613B	Octachlorodibenzo-p-furan	13.1	ng/kg	BJK,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	86.8	ng/kg	D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.81	ng/kg	J,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.15	ng/kg	U,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.36	ng/kg	U,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.15	ng/kg	U,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.21	ng/kg	U,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.06	ng/kg	U,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.67	ng/kg	U,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.19	ng/kg	U,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.188	ng/kg	JK	U	22
E1100240	SL0124	E1100240-013	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.44	ng/kg	U,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.961	ng/kg	U,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.11	ng/kg	U,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.16	ng/kg	U,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.132	ng/kg	JK	U	22
E1100240	SL0124	E1100240-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.55	ng/kg	U,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.218	ng/kg	JK	U	22
E1100240	SL0124	E1100240-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.83	ng/kg	U,D	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.515	ng/kg	CJ	DNR	11
E1100240	SL0124	E1100240-013	EPA1613B	Octachlorodibenzo-p-dioxin	20200	ng/kg	BE	DNR	20

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100240	SL0124	E1100240-013	EPA1613B	Octachlorodibenzo-p-furan	8.78	ng/kg	BJK,D	DNR	11
E1100240	SL0177	E1100240-014	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.256	ng/kg	JK	U	22
E1100240	SL0177	E1100240-014	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.589	ng/kg	JK	U	22
E1100240	SL0177	E1100240-014	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.27	ng/kg	JK	U	22
E1100240	SL0177	E1100240-014	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.109	ng/kg	JK	U	22
E1100240	SL0177	E1100240-014	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.3	ng/kg	BJ	U	7
E1100240	SL0177	E1100240-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	5.88	ng/kg	C	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	86	ng/kg	D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	10.3	ng/kg	JK,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.67	ng/kg	U,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.32	ng/kg	U,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	5.04	ng/kg	JK,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.97	ng/kg	U,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.854	ng/kg	U,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.67	ng/kg	U,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.948	ng/kg	U,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.19	ng/kg	U,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.4	ng/kg	U,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.447	ng/kg	BJ	U	7
E1100240	SL0178	E1100240-015	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.931	ng/kg	U,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.76	ng/kg	U,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	7.11	ng/kg	JK,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	40.5	ng/kg	C	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	32.5	ng/kg	C,D	DNR	11
E1100240	SL0178	E1100240-015	EPA1613B	Octachlorodibenzo-p-dioxin	5370	ng/kg	BE	DNR	20
E1100240	SL0178	E1100240-015	EPA1613B	Octachlorodibenzo-p-furan	130	ng/kg	B,D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	116	ng/kg	D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	17.1	ng/kg	J,D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.52	ng/kg	U,D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.09	ng/kg	U,D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	4.46	ng/kg	JK,D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.53	ng/kg	U,D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.34	ng/kg	U,D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.8	ng/kg	U,D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.1	ng/kg	JK	U	22
E1100240	SL0179	E1100240-016	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.43	ng/kg	U,D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.29	ng/kg	U,D	DNR	11

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100240	SL0179	E1100240-016	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.83	ng/kg	U,D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.702	ng/kg	BJ	U	7
E1100240	SL0179	E1100240-016	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.74	ng/kg	U,D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	25.3	ng/kg	D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	60.5	ng/kg	C,D	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	67	ng/kg	C	DNR	11
E1100240	SL0179	E1100240-016	EPA1613B	Octachlorodibenzo-p-dioxin	5450	ng/kg	BE	DNR	20
E1100240	SL0179	E1100240-016	EPA1613B	Octachlorodibenzo-p-furan	196	ng/kg	B,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	70.1	ng/kg	D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	4.56	ng/kg	JK,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.262	ng/kg	JK	U	22
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.28	ng/kg	U,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.342	ng/kg	JK	U	22
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.07	ng/kg	U,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.35	ng/kg	U,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.61	ng/kg	U,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.21	ng/kg	U,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.36	ng/kg	U,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.3	ng/kg	U,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.47	ng/kg	U,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.904	ng/kg	U,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.397	ng/kg	JK	U	22
E1100240	SL0180	E1100240-017	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.24	ng/kg	U,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.179	ng/kg	BJK	U	22
E1100240	SL0180	E1100240-017	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.17	ng/kg	U,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2.13	ng/kg	JK,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	11.4	ng/kg	C	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	6.41	ng/kg	CJK,D	DNR	11
E1100240	SL0180	E1100240-017	EPA1613B	Octachlorodibenzo-p-dioxin	7870	ng/kg	BE	DNR	20
E1100240	SL0180	E1100240-017	EPA1613B	Octachlorodibenzo-p-furan	52.3	ng/kg	BJ,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	94.3	ng/kg	D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	7	ng/kg	JK,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.19	ng/kg	U,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.345	ng/kg	JK	U	22
E1100240	SL0181	E1100240-018	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.11	ng/kg	U,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.549	ng/kg	JK	U	22
E1100240	SL0181	E1100240-018	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.56	ng/kg	U,D	DNR	11

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100240	SL0181	E1100240-018	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.6	ng/kg	U,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.31	ng/kg	U,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.38	ng/kg	U,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.49	ng/kg	U,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.25	ng/kg	U,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.797	ng/kg	U,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.48	ng/kg	U,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.274	ng/kg	BJ	U	7
E1100240	SL0181	E1100240-018	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.18	ng/kg	JK	U	22
E1100240	SL0181	E1100240-018	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.02	ng/kg	U,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.565	ng/kg	JK	U	22
E1100240	SL0181	E1100240-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.46	ng/kg	U,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.02	ng/kg	U,D	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.94	ng/kg	C	DNR	11
E1100240	SL0181	E1100240-018	EPA1613B	Octachlorodibenzo-p-dioxin	11500	ng/kg	BE	DNR	20
E1100240	SL0181	E1100240-018	EPA1613B	Octachlorodibenzo-p-furan	20.3	ng/kg	BJ,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	76.7	ng/kg	D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	6.73	ng/kg	JK,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.39	ng/kg	U,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.375	ng/kg	JK	U	22
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.59	ng/kg	U,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.52	ng/kg	U,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.26	ng/kg	U,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.29	ng/kg	U,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.95	ng/kg	U,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.37	ng/kg	U,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.189	ng/kg	JK	U	22
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.41	ng/kg	U,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.182	ng/kg	JK	U	22
E1100241	SL0175	E1100241-001	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.07	ng/kg	U,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.171	ng/kg	BJK	U	22
E1100241	SL0175	E1100241-001	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.31	ng/kg	U,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.37	ng/kg	U,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.752	ng/kg	JK	U	22
E1100241	SL0175	E1100241-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.5	ng/kg	U,D	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.65	ng/kg	C	DNR	11
E1100241	SL0175	E1100241-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.9	ng/kg	U,D	DNR	11

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100241	SL0175	E1100241-001	EPA1613B	Octachlorodibenzo-p-dioxin	4950	ng/kg	BE	DNR	20
E1100241	SL0175	E1100241-001	EPA1613B	Octachlorodibenzo-p-furan	36	ng/kg	BJ,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	119	ng/kg	D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	6.55	ng/kg	J,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.22	ng/kg	U,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.38	ng/kg	U,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.05	ng/kg	JK,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.04	ng/kg	U,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.838	ng/kg	U,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	4.32	ng/kg	J,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.772	ng/kg	U,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.43	ng/kg	U,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.893	ng/kg	U,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.869	ng/kg	U,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.236	ng/kg	JK	U	22
E1100241	SL0176	E1100241-002	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.15	ng/kg	U,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.32	ng/kg	U,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	4.01	ng/kg	CJK,D	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	4.89	ng/kg	C	DNR	11
E1100241	SL0176	E1100241-002	EPA1613B	Octachlorodibenzo-p-dioxin	14800	ng/kg	BE	DNR	20
E1100241	SL0176	E1100241-002	EPA1613B	Octachlorodibenzo-p-furan	35.7	ng/kg	BJK,D	DNR	11
E1100241	SL0131	E1100241-003	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.352	ng/kg	JK	U	22
E1100241	SL0131	E1100241-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	48.8	ng/kg	C	DNR	11
E1100241	SL0132	E1100241-004	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.273	ng/kg	JK	U	22
E1100241	SL0132	E1100241-004	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.552	ng/kg	JK	U	22
E1100241	SL0132	E1100241-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.107	ng/kg	JK	U	22
E1100241	SL0132	E1100241-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.958	ng/kg	CJ	DNR	11
E1100241	SL0182	E1100241-005	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.432	ng/kg	JK	U	22
E1100241	SL0182	E1100241-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	5.68	ng/kg	C	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	273	ng/kg	D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	47.7	ng/kg	J,D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	2.7	ng/kg	U,D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	6.06	ng/kg	JK,D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	6.41	ng/kg	JK,D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	6.81	ng/kg	JK,D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	3.12	ng/kg	JK,D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	3.54	ng/kg	JK,D	DNR	11

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E1100241	SL0183	E1100241-006	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	3.2	ng/kg	U,D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.67	ng/kg	U,D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	2.07	ng/kg	JK,D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	2.62	ng/kg	JK	U	22
E1100241	SL0183	E1100241-006	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	3.73	ng/kg	J,D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	2.56	ng/kg	U,D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	14.7	ng/kg	JK,D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	69	ng/kg	CK,D	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	105	ng/kg	C	DNR	11
E1100241	SL0183	E1100241-006	EPA1613B	Octachlorodibenzo-p-dioxin	6800	ng/kg	BE	DNR	20
E1100241	SL0183	E1100241-006	EPA1613B	Octachlorodibenzo-p-furan	350	ng/kg	B,D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	449	ng/kg	D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	99.5	ng/kg	D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	7.05	ng/kg	JK,D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.24	ng/kg	JK,D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	12.6	ng/kg	JK,D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	9.77	ng/kg	J,D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	4.74	ng/kg	J,D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	4.81	ng/kg	JK,D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	2.84	ng/kg	U,D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	2.15	ng/kg	U,D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	6.76	ng/kg	J,D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	2.95	ng/kg	U,D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	4.76	ng/kg	JK,D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	73.8	ng/kg	D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	249	ng/kg	C,D	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	488	ng/kg	C	DNR	11
E1100241	SL0184	E1100241-007	EPA1613B	Octachlorodibenzo-p-dioxin	8410	ng/kg	BE	DNR	20
E1100241	SL0184	E1100241-007	EPA1613B	Octachlorodibenzo-p-furan	3040	ng/kg	B,D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	374	ng/kg	D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	181	ng/kg	D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	16.8	ng/kg	J,D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.59	ng/kg	U,D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	36.4	ng/kg	J,D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	13.9	ng/kg	JK,D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	9.69	ng/kg	J,D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	8.51	ng/kg	J,D	DNR	11

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100241	SL0185	E1100241-008	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.343	ng/kg	JK	U	22
E1100241	SL0185	E1100241-008	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	3.53	ng/kg	U,D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	5.17	ng/kg	J,D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	14.4	ng/kg	JK,D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	7.88	ng/kg	JK,D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	12.1	ng/kg	J,D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	262	ng/kg	D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	871	ng/kg	C,D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	700	ng/kg	CE	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	Octachlorodibenzo-p-dioxin	7280	ng/kg	B,D	DNR	11
E1100241	SL0185	E1100241-008	EPA1613B	Octachlorodibenzo-p-furan	6360	ng/kg	BE	DNR	20
E1100242	SL0197	E1100242-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	4.21	ng/kg	C	DNR	11
E1100242	SL0198	E1100242-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.288	ng/kg	JK	U	22
E1100242	SL0198	E1100242-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.147	ng/kg	JK	U	22
E1100242	SL0198	E1100242-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.27	ng/kg	C	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	148	ng/kg	D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	19.9	ng/kg	J,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	5.2	ng/kg	J,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.35	ng/kg	U,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	4.97	ng/kg	J,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.97	ng/kg	U,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	2.65	ng/kg	JK,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	5.4	ng/kg	J,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.45	ng/kg	U,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.25	ng/kg	U,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.05	ng/kg	U,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	3.84	ng/kg	JK,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	2.94	ng/kg	J,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.307	ng/kg	JK	U	22
E1100242	SL0142	E1100242-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.61	ng/kg	U,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.77	ng/kg	C	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.72	ng/kg	U,D	DNR	11
E1100242	SL0142	E1100242-003	EPA1613B	Octachlorodibenzo-p-dioxin	7780	ng/kg	BE	DNR	20
E1100242	SL0142	E1100242-003	EPA1613B	Octachlorodibenzo-p-furan	65.8	ng/kg	BJ,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	58.2	ng/kg	D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	2.64	ng/kg	JK,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.95	ng/kg	JK,D	DNR	11

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100242	SL0143	E1100242-004	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.874	ng/kg	U,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.828	ng/kg	U,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.26	ng/kg	U,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.716	ng/kg	U,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0522	ng/kg	JK	U	22
E1100242	SL0143	E1100242-004	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.45	ng/kg	J,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.779	ng/kg	U,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.42	ng/kg	U,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.01	ng/kg	U,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.841	ng/kg	U,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.24	ng/kg	U,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.35	ng/kg	U,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.52	ng/kg	U,D	DNR	11
E1100242	SL0143	E1100242-004	EPA1613B	Octachlorodibenzo-p-dioxin	4540	ng/kg	BE	DNR	20
E1100242	SL0143	E1100242-004	EPA1613B	Octachlorodibenzo-p-furan	12.3	ng/kg	BJK,D	U	22
E1100242	SL0125	E1100242-005	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.306	ng/kg	JK	U	22
E1100242	SL0125	E1100242-005	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0943	ng/kg	JK	U	22
E1100242	SL0126	E1100242-006	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.142	ng/kg	JK	U	22
E1100242	SL0126	E1100242-006	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.209	ng/kg	JK	U	22
E1100242	SL0126	E1100242-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.41	ng/kg	JK	U	22
E1100242	SL0126	E1100242-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.412	ng/kg	CJ	DNR	11
E1100242	SL0127	E1100242-007	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.142	ng/kg	JK	U	22
E1100242	SL0127	E1100242-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.213	ng/kg	CJK	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	190	ng/kg	D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	2.55	ng/kg	U,D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	3.04	ng/kg	U,D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.03	ng/kg	U,D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	2.18	ng/kg	U,D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.98	ng/kg	U,D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.96	ng/kg	U,D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.36	ng/kg	U,D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	2.13	ng/kg	U,D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	3.26	ng/kg	U,D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.87	ng/kg	U,D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	2.21	ng/kg	U,D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	2.34	ng/kg	U,D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	3.68	ng/kg	U,D	DNR	11

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100242	SL0153	E1100242-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	3	ng/kg	U,D	DNR	11
E1100242	SL0153	E1100242-008	EPA1613B	Octachlorodibenzo-p-dioxin	26200	ng/kg	BE	DNR	20
E1100242	SL0153	E1100242-008	EPA1613B	Octachlorodibenzo-p-furan	27.7	ng/kg	BJ,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	95.9	ng/kg	D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.11	ng/kg	U,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.2	ng/kg	U,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.52	ng/kg	JK,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.06	ng/kg	U,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.85	ng/kg	J,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.926	ng/kg	U,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.32	ng/kg	JK,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.99	ng/kg	U,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.3	ng/kg	U,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.02	ng/kg	U,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.04	ng/kg	U,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.24	ng/kg	U,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2.21	ng/kg	U,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.17	ng/kg	JK	U	22
E1100242	SL0154	E1100242-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.25	ng/kg	U,D	DNR	11
E1100242	SL0154	E1100242-009	EPA1613B	Octachlorodibenzo-p-dioxin	18000	ng/kg	BE	DNR	20
E1100242	SL0154	E1100242-009	EPA1613B	Octachlorodibenzo-p-furan	5.53	ng/kg	BJK,D	DNR	11
E1100242	SL0187	E1100242-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	43	ng/kg	C	DNR	11
E1100242	SL0188	E1100242-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	77.5	ng/kg	C	DNR	11
E1100242	SL0164	E1100242-013	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.966	ng/kg	JK	U	22
E1100242	SL0164	E1100242-013	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.245	ng/kg	JK	U	22
E1100242	SL0164	E1100242-013	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.203	ng/kg	JK	U	22
E1100242	SL0164	E1100242-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	3.27	ng/kg	C	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	67	ng/kg	D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	2.51	ng/kg	JK,D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.132	ng/kg	JK	U	22
E1100242	SL0165	E1100242-014	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.45	ng/kg	U,D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.01	ng/kg	U,D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.43	ng/kg	U,D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.44	ng/kg	U,D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.26	ng/kg	U,D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.15	ng/kg	U,D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.23	ng/kg	U,D	DNR	11

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100242	SL0165	E1100242-014	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.69	ng/kg	U,D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.18	ng/kg	U,D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.171	ng/kg	JK	U	22
E1100242	SL0165	E1100242-014	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.4	ng/kg	U,D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.68	ng/kg	U,D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2.21	ng/kg	U,D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.9	ng/kg	U,D	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.23	ng/kg	C	DNR	11
E1100242	SL0165	E1100242-014	EPA1613B	Octachlorodibenzo-p-dioxin	6580	ng/kg	BE	DNR	20
E1100242	SL0165	E1100242-014	EPA1613B	Octachlorodibenzo-p-furan	13.1	ng/kg	BJ,D	DNR	11
E1100242	SL0166	E1100242-015	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.163	ng/kg	JK	U	22
E1100242	SL0166	E1100242-015	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.229	ng/kg	JK	U	22
E1100242	SL0166	E1100242-015	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0881	ng/kg	JK	U	22
E1100242	SL0166	E1100242-015	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.0672	ng/kg	JK	U	22
E1100242	SL0166	E1100242-015	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.0942	ng/kg	JK	U	22
E1100242	SL0166	E1100242-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.302	ng/kg	JK	U	22
E1100242	SL0166	E1100242-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.07	ng/kg	CJ	DNR	11
E1100242	SL0133	E1100242-017	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.849	ng/kg	JK	U	22
E1100242	SL0133	E1100242-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	4.05	ng/kg	C	DNR	11
E1100242	SL0134	E1100242-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.85	ng/kg	JK	U	22
E1100242	SL0134	E1100242-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	4.52	ng/kg	C	DNR	11
E1100242	FW0163	E1100242-019	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.513	pg	BJK	U	22
E1100242	FW0163	E1100242-019	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.307	pg	U	UJ	10
E1100242	FW0163	E1100242-019	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.93	pg	CJK	DNR	11
E1100242	FW0163	E1100242-019	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.51	pg	JK	U	22
E1100242	FW0163	E1100242-019	EPA1613B	Octachlorodibenzo-p-dioxin	8.52	pg	BJ	U	6
E1100242	FW0128	E1100242-020	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.75	pg	BJK	U	22
E1100242	FW0128	E1100242-020	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.356	pg	U	UJ	10
E1100242	FW0128	E1100242-020	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.44	pg	CJK	DNR	11
E1100242	FW0128	E1100242-020	EPA1613B	Octachlorodibenzo-p-dioxin	5.1	pg	BJK	U	22
E1100243	SL0135	E1100243-001	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.167	ng/kg	JK	U	22
E1100243	SL0135	E1100243-001	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.393	ng/kg	JK	U	22
E1100243	SL0135	E1100243-001	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.139	ng/kg	JK	U	22
E1100243	SL0135	E1100243-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.317	ng/kg	JK	U	22
E1100243	SL0135	E1100243-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.6	ng/kg	C	DNR	11
E1100243	SL0136	E1100243-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.48	ng/kg	JK	U	22
E1100243	SL0136	E1100243-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.496	ng/kg	JK	U	22

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100243	SL0136	E1100243-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.399	ng/kg	JK	U	22
E1100243	SL0136	E1100243-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	3.34	ng/kg	C	DNR	11
E1100243	SL0137	E1100243-003	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.226	ng/kg	JK	U	22
E1100243	SL0137	E1100243-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.889	ng/kg	JK	U	22
E1100243	SL0137	E1100243-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	6.2	ng/kg	C	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	346	ng/kg	B,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	35.9	ng/kg	J,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.09	ng/kg	U,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	2.33	ng/kg	JK	U	22
E1100243	SL0138	E1100243-004	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.705	ng/kg	U,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	11.4	ng/kg	J,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	7.13	ng/kg	JK,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	3.71	ng/kg	JK,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	6.99	ng/kg	J,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.731	ng/kg	U,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.15	ng/kg	U,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	7.14	ng/kg	J,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.38	ng/kg	JK,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	5.07	ng/kg	J,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	81.3	ng/kg	D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	305	ng/kg	C	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	216	ng/kg	C,D	DNR	11
E1100243	SL0138	E1100243-004	EPA1613B	Octachlorodibenzo-p-dioxin	81000	ng/kg	BE	DNR	20
E1100243	SL0138	E1100243-004	EPA1613B	Octachlorodibenzo-p-furan	178	ng/kg	B,D	DNR	11
E1100243	SL0139	E1100243-005	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.98	ng/kg	JK	U	22
E1100243	SL0139	E1100243-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	644	ng/kg	C	DNR	11
E1100243	SL0140	E1100243-006	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.202	ng/kg	JK	U	22
E1100243	SL0140	E1100243-006	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.33	ng/kg	JK	U	22
E1100243	SL0140	E1100243-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	315	ng/kg	C	DNR	11
E1100243	SL0141	E1100243-007	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.34	ng/kg	JK	U	22
E1100243	SL0141	E1100243-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	402	ng/kg	C	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	49.4	ng/kg	BJ,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.17	ng/kg	U,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.32	ng/kg	U,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.411	ng/kg	JK	U	22
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.542	ng/kg	U,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.714	ng/kg	U,D	DNR	11

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.975	ng/kg	U,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.606	ng/kg	U,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.111	ng/kg	JK	U	22
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.77	ng/kg	JK,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.803	ng/kg	U,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.238	ng/kg	JK	U	22
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.74	ng/kg	U,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.845	ng/kg	U,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0989	ng/kg	JK	U	22
E1100243	SL0144	E1100243-008	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.681	ng/kg	U,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.971	ng/kg	U,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.14	ng/kg	U,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.229	ng/kg	JK	U	22
E1100243	SL0144	E1100243-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.649	ng/kg	CJ	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.46	ng/kg	U,D	DNR	11
E1100243	SL0144	E1100243-008	EPA1613B	Octachlorodibenzo-p-dioxin	5590	ng/kg	BE	DNR	20
E1100243	SL0144	E1100243-008	EPA1613B	Octachlorodibenzo-p-furan	1.05	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	39	ng/kg	BJ,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.91	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	2.48	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.26	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.857	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.712	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.63	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.04	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.05	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.308	ng/kg	JK	U	22
E1100243	SL0145	E1100243-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.739	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.817	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.889	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.56	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.27	ng/kg	U,D	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.381	ng/kg	JK,D	U	22
E1100243	SL0145	E1100243-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.221	ng/kg	CJK	DNR	11
E1100243	SL0145	E1100243-009	EPA1613B	Octachlorodibenzo-p-dioxin	4840	ng/kg	BE	DNR	20
E1100243	SL0145	E1100243-009	EPA1613B	Octachlorodibenzo-p-furan	2.23	ng/kg	U,D	DNR	11

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100243	SL0146	E1100243-010	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1550	ng/kg	B,D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	228	ng/kg	D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	13.7	ng/kg	J,D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	17.1	ng/kg	J,D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	13.1	ng/kg	JK,D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	54.4	ng/kg	D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	9.94	ng/kg	J,D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	50.8	ng/kg	J,D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	5.11	ng/kg	U,D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	10	ng/kg	JK,D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.37	ng/kg	U,D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	6.65	ng/kg	JK,D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.78	ng/kg	U,D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.13	ng/kg	U,D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.468	ng/kg	JK	U	22
E1100243	SL0146	E1100243-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	13.6	ng/kg	CK,D	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	15.7	ng/kg	C	DNR	11
E1100243	SL0146	E1100243-010	EPA1613B	Octachlorodibenzo-p-dioxin	12000	ng/kg	BE	DNR	20
E1100243	SL0146	E1100243-010	EPA1613B	Octachlorodibenzo-p-furan	823	ng/kg	B,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	538	ng/kg	B,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	76.2	ng/kg	D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	5.12	ng/kg	JK,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	5.37	ng/kg	J,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	4.32	ng/kg	U,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	20.4	ng/kg	J,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	3.76	ng/kg	U,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	3.08	ng/kg	JK	U	22
E1100243	SL0147	E1100243-011	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	16.1	ng/kg	J,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	4.23	ng/kg	U,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	3.36	ng/kg	J,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.05	ng/kg	U,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	4.06	ng/kg	U,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.47	ng/kg	U,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.301	ng/kg	JK	U	22
E1100243	SL0147	E1100243-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.04	ng/kg	U,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.87	ng/kg	U,D	DNR	11
E1100243	SL0147	E1100243-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	5.17	ng/kg	C	DNR	11

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100243	SL0147	E1100243-011	EPA1613B	Octachlorodibenzo-p-dioxin	4280	ng/kg	BE	DNR	20
E1100243	SL0147	E1100243-011	EPA1613B	Octachlorodibenzo-p-furan	308	ng/kg	B,D	DNR	11
E1100243	SL0148	E1100243-012	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.187	ng/kg	JK	U	22
E1100243	SL0148	E1100243-012	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.235	ng/kg	JK	U	22
E1100243	SL0148	E1100243-012	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.479	ng/kg	JK	U	22
E1100243	SL0148	E1100243-012	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.399	ng/kg	JK	U	22
E1100243	SL0148	E1100243-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.486	ng/kg	JK	U	22
E1100243	SL0148	E1100243-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.9	ng/kg	C	DNR	11
E1100243	SL0149	E1100243-013	EPA1613B	Octachlorodibenzo-p-furan	0.419	ng/kg	BJK	U	22
E1100243	SL0150	E1100243-014	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.34	ng/kg	JK	U	22
E1100243	SL0150	E1100243-014	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.57	ng/kg	JK	U	22
E1100243	SL0150	E1100243-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.371	ng/kg	JK	U	22
E1100243	SL0150	E1100243-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.76	ng/kg	C	DNR	11
E1100243	SL0151	E1100243-015	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.292	ng/kg	JK	U	22
E1100243	SL0151	E1100243-015	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0922	ng/kg	JK	U	22
E1100243	SL0151	E1100243-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.168	ng/kg	JK	U	22
E1100243	SL0151	E1100243-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.483	ng/kg	CJK	DNR	11
E1100243	SL0199	E1100243-017	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.369	ng/kg	JK	U	22
E1100243	SL0199	E1100243-017	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.51	ng/kg	JK	U	22
E1100243	SL0199	E1100243-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.377	ng/kg	JK	U	22
E1100243	SL0199	E1100243-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.277	ng/kg	JK	U	22
E1100243	SL0199	E1100243-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.49	ng/kg	C	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1120	ng/kg	B,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	127	ng/kg	B,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	7.72	ng/kg	JK,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	5.77	ng/kg	J,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	11.5	ng/kg	J,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	23.9	ng/kg	J,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	8.67	ng/kg	J,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	27.8	ng/kg	J,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	2.2	ng/kg	U,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	4.71	ng/kg	J,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	4.61	ng/kg	J,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	9.25	ng/kg	JK,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	2.89	ng/kg	JK	U	22
E1100243	SL0200	E1100243-018	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	4.19	ng/kg	JK,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	3.53	ng/kg	JK	U	22

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100243	SL0200	E1100243-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.893	ng/kg	U,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	25.1	ng/kg	C,D	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	34.1	ng/kg	C	DNR	11
E1100243	SL0200	E1100243-018	EPA1613B	Octachlorodibenzo-p-dioxin	11400	ng/kg	BE	DNR	20
E1100243	SL0200	E1100243-018	EPA1613B	Octachlorodibenzo-p-furan	623	ng/kg	B,D	DNR	11
E1100243	FW0152	E1100243-019	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.403	pg	U	UJ	10
E1100243	FW0152	E1100243-019	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.546	pg	U	DNR	11
E1100243	FW0152	E1100243-019	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.95	pg	JK	U	22
E1100244	SL0201	E1100244-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	20.5	ng/kg	C	DNR	11
E1100244	SL0202	E1100244-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.02	ng/kg	JK	U	22
E1100244	SL0202	E1100244-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	7.86	ng/kg	C	DNR	11
E1100244	SL0155	E1100244-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	13.2	ng/kg	C	DNR	11
E1100244	SL0156	E1100244-004	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.589	ng/kg	BJ	U	7
E1100244	SL0156	E1100244-004	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0611	ng/kg	JK	U	22
E1100244	SL0156	E1100244-004	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0435	ng/kg	JK	U	22
E1100244	SL0156	E1100244-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.109	ng/kg	JK	U	22
E1100244	SL0156	E1100244-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.447	ng/kg	CJ	DNR	11
E1100244	SL0156	E1100244-004	EPA1613B	Octachlorodibenzo-p-furan	2.11	ng/kg	BJ	U	7
E1100244	SL0158	E1100244-005	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.129	ng/kg	JK	U	22
E1100244	SL0158	E1100244-005	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.139	ng/kg	JK	U	22
E1100244	SL0158	E1100244-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	7.95	ng/kg	C	DNR	11
E1100244	SL0159	E1100244-006	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.67	ng/kg	JK	U	22
E1100244	SL0159	E1100244-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	153	ng/kg	C	DNR	11
E1100244	SL0160	E1100244-007	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.255	ng/kg	JK	U	22
E1100244	SL0160	E1100244-007	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.204	ng/kg	JK	U	22
E1100244	SL0160	E1100244-007	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.651	ng/kg	JK	U	22
E1100244	SL0160	E1100244-007	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.176	ng/kg	JK	U	22
E1100244	SL0160	E1100244-007	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.829	ng/kg	JK	U	22
E1100244	SL0160	E1100244-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	46.3	ng/kg	C	DNR	11
E1100244	SL0161	E1100244-008	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.507	ng/kg	JK	U	22
E1100244	SL0161	E1100244-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	182	ng/kg	C	DNR	11
E1100244	SL0162	E1100244-009	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0892	ng/kg	JK	U	22
E1100244	SL0162	E1100244-009	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.196	ng/kg	JK	U	22
E1100244	SL0162	E1100244-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	96.1	ng/kg	C	DNR	11
E1100244	SL0167	E1100244-010	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.864	ng/kg	JK	U	22
E1100244	SL0167	E1100244-010	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.242	ng/kg	JK	U	22
E1100244	SL0167	E1100244-010	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.269	ng/kg	JK	U	22

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100244	SL0167	E1100244-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	6.22	ng/kg	C	DNR	11
E1100244	SL0168	E1100244-011	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.293	ng/kg	JK	U	22
E1100244	SL0168	E1100244-011	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.109	ng/kg	JK	U	22
E1100244	SL0168	E1100244-011	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0974	ng/kg	JK	U	22
E1100244	SL0168	E1100244-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.27	ng/kg	C	DNR	11
E1100244	SL0169	E1100244-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.4	ng/kg	JK	U	22
E1100244	SL0169	E1100244-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	104	ng/kg	C	DNR	11
E1100244	SL0170	E1100244-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	57.3	ng/kg	C	DNR	11
E1100244	SL0171	E1100244-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	237	ng/kg	C	DNR	11
E1100244	SL0172	E1100244-015	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.558	ng/kg	JK	U	22
E1100244	SL0172	E1100244-015	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.917	ng/kg	JK	U	22
E1100244	SL0172	E1100244-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	188	ng/kg	C	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	144	ng/kg	B,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	31.5	ng/kg	BJ,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	3.32	ng/kg	J,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.19	ng/kg	J,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	7.1	ng/kg	J,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	3.32	ng/kg	J,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	2.4	ng/kg	J,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.994	ng/kg	U,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	1.64	ng/kg	U,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.2	ng/kg	U,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	3.23	ng/kg	J,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	1.56	ng/kg	U,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.974	ng/kg	JK	U	22
E1100244	SL0173	E1100244-016	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	2.94	ng/kg	J,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	50.7	ng/kg	D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	163	ng/kg	C,D	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	234	ng/kg	C	DNR	11
E1100244	SL0173	E1100244-016	EPA1613B	Octachlorodibenzo-p-dioxin	23300	ng/kg	BE	DNR	20
E1100244	SL0173	E1100244-016	EPA1613B	Octachlorodibenzo-p-furan	1630	ng/kg	B,D	DNR	11
E1100244	SL0174	E1100244-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.28	ng/kg	JK	U	22
E1100244	SL0174	E1100244-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	330	ng/kg	C	DNR	11
E1100244	SL0189	E1100244-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	34	ng/kg	C	DNR	11
E1100245	SL0190	E1100245-001	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.584	ng/kg	JK	U	22
E1100245	SL0190	E1100245-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	126	ng/kg	C	DNR	11
E1100245	SL0191	E1100245-002	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.246	ng/kg	JK	U	22

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100245	SL0191	E1100245-002	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.787	ng/kg	JK	U	22
E1100245	SL0191	E1100245-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.329	ng/kg	JK	U	22
E1100245	SL0191	E1100245-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.4	ng/kg	J	J	10
E1100245	SL0191	E1100245-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	40.7	ng/kg	C	DNR	11
E1100245	SL0192	E1100245-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	34.2	ng/kg		J	10
E1100245	SL0192	E1100245-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1100	ng/kg	C	DNR	11
E1100245	SL0192	E1100245-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	889	ng/kg	E	DNR	20
E1100245	SL0195	E1100245-004	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0481	ng/kg	JK	U	22
E1100245	SL0195	E1100245-004	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.211	ng/kg	JK	U	22
E1100245	SL0195	E1100245-004	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	6.37	ng/kg		J	10
E1100245	SL0195	E1100245-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	145	ng/kg	C	DNR	11
E1100245	SL0196	E1100245-005	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.17	ng/kg	JK	U	22
E1100245	SL0196	E1100245-005	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.97	ng/kg	J	J	10
E1100245	SL0196	E1100245-005	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.11	ng/kg	JK	U	22
E1100245	SL0196	E1100245-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	29.4	ng/kg	C	DNR	11
E1100255	SL0208	E1100255-001	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.191	ng/kg	JK	U	22
E1100255	SL0208	E1100255-001	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.174	ng/kg	JK	U	22
E1100255	SL0208	E1100255-001	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.237	ng/kg	JK	UJ	10,22
E1100255	SL0208	E1100255-001	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.136	ng/kg	JK	U	22
E1100255	SL0208	E1100255-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	6.6	ng/kg	C	DNR	11
E1100255	SL0209	E1100255-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.395	ng/kg	JK	UJ	10,22
E1100255	SL0209	E1100255-002	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.222	ng/kg	JK	U	22
E1100255	SL0209	E1100255-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	10.7	ng/kg	C	DNR	11
E1100255	SL0210	E1100255-003	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.214	ng/kg	JK	U	22
E1100255	SL0210	E1100255-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.342	ng/kg	JK	U	22
E1100255	SL0210	E1100255-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	2.52	ng/kg	J	J	10
E1100255	SL0210	E1100255-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	63.9	ng/kg	C	DNR	11
E1100255	SL0211	E1100255-004	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.132	ng/kg	JK	U	22
E1100255	SL0211	E1100255-004	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.02	ng/kg	J	J	10
E1100255	SL0211	E1100255-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	26.4	ng/kg	C	DNR	11
E1100255	SL0212	E1100255-005	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	121	ng/kg		J	10
E1100255	SL0212	E1100255-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	3840	ng/kg	CE	DNR	11
E1100255	SL0212	E1100255-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2760	ng/kg	EP	DNR	20
E1100255	SL0213	E1100255-006	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	4.48	ng/kg		J	10
E1100255	SL0213	E1100255-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	181	ng/kg	C	DNR	11
E1100255	SL0214	E1100255-007	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.77	ng/kg	BJK	U	22
E1100255	SL0214	E1100255-007	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.147	ng/kg	JK	U	22

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
E1100255	SL0214	E1100255-007	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.0498	ng/kg	U	UJ	10
E1100255	SL0214	E1100255-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	6.58	ng/kg	C	DNR	11
E1100255	SL0215	E1100255-008	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	2.79	ng/kg	JK	U	22
E1100255	SL0215	E1100255-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	84.9	ng/kg		J	10
E1100255	SL0215	E1100255-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1720	ng/kg	E	DNR	20
E1100255	SL0215	E1100255-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2350	ng/kg	C	DNR	11
E1100255	SL0216	E1100255-009	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.422	ng/kg	JK	U	22
E1100255	SL0216	E1100255-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.27	ng/kg	JK	U	22
E1100255	SL0216	E1100255-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.816	ng/kg	JK	UJ	10,22
E1100255	SL0216	E1100255-009	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.663	ng/kg	JK	U	22
E1100255	SL0216	E1100255-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	26.9	ng/kg	C	DNR	11
E1100255	SL0217	E1100255-010	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.785	ng/kg	JK	U	22
E1100255	SL0217	E1100255-010	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.38	ng/kg	JK	U	22
E1100255	SL0217	E1100255-010	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.32	ng/kg	J	J	10
E1100255	SL0217	E1100255-010	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.893	ng/kg	JK	U	22
E1100255	SL0217	E1100255-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	16.9	ng/kg	C	DNR	11
E1100255	SL0218	E1100255-011	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.23	ng/kg	JK	UJ	10,22
E1100255	SL0218	E1100255-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	38.4	ng/kg	C	DNR	11
E1100255	SL0219	E1100255-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	4.94	ng/kg	J	J	10
E1100255	SL0219	E1100255-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	33.7	ng/kg	C	DNR	11
E1100255	SL0220	E1100255-013	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	2.01	ng/kg	JK	U	22
E1100255	SL0220	E1100255-013	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	60.4	ng/kg		J	10
E1100255	SL0220	E1100255-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1040	ng/kg	C	DNR	11
E1100255	SL0220	E1100255-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	835	ng/kg	E	DNR	20
E1100255	SL0221	E1100255-014	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.699	ng/kg	JK	U	22
E1100255	SL0221	E1100255-014	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	26	ng/kg		J	10
E1100255	SL0221	E1100255-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	852	ng/kg	C	DNR	11
E1100255	SL0221	E1100255-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	695	ng/kg	E	DNR	20
E1100255	SL0222	E1100255-015	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.249	ng/kg	JK	U	22
E1100255	SL0222	E1100255-015	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.01	ng/kg	J	J	10
E1100255	SL0222	E1100255-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	27.7	ng/kg	C	DNR	11
E1100255	SL0224	E1100255-016	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.243	ng/kg	JK	U	22
E1100255	SL0224	E1100255-016	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	1.05	ng/kg	JK	U	22
E1100255	SL0224	E1100255-016	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.444	ng/kg	JK	U	22
E1100255	SL0224	E1100255-016	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.685	ng/kg	J	J	10
E1100255	SL0224	E1100255-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	5.74	ng/kg	C	DNR	11
E1100255	SL0239	E1100255-017	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.147	ng/kg	JK	U	22

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E1100255	SL0239	E1100255-017	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.195	ng/kg	JK	U	22
E1100255	SL0239	E1100255-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.285	ng/kg	J	J	10
E1100255	SL0239	E1100255-017	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0849	ng/kg	JK	U	22
E1100255	SL0239	E1100255-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	12.4	ng/kg	C	DNR	11
E1100255	SL0240	E1100255-018	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.24	ng/kg	JK	U	22
E1100255	SL0240	E1100255-018	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.267	ng/kg	JK	U	22
E1100255	SL0240	E1100255-018	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.222	ng/kg	JK	U	22
E1100255	SL0240	E1100255-018	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0929	ng/kg	JK	U	22
E1100255	SL0240	E1100255-018	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.421	ng/kg	J	J	10
E1100255	SL0240	E1100255-018	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.337	ng/kg	JK	U	22
E1100255	SL0240	E1100255-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	16	ng/kg	C	DNR	11
E1100255	SL0203	E1100255-019	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	9.74	ng/kg		J	10
E1100255	SL0203	E1100255-019	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	506	ng/kg	C	DNR	11
E1100255	SL0235	E1100255-020	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	221	ng/kg	P	J	14
E1100255	SL0235	E1100255-020	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	31.3	ng/kg	P	J	10,14
E1100255	SL0235	E1100255-020	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	42.1	ng/kg	P	J	14
E1100255	SL0235	E1100255-020	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	144	ng/kg	C	DNR	11
E1100256	FW0186	E1100256-001	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.303	pg	U	UJ	10
E1100256	FW0186	E1100256-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.18	pg	CJK	DNR	11
E1100256	FW0186	E1100256-001	EPA1613B	Octachlorodibenzo-p-dioxin	6.74	pg	BJ	U	6
E1100256	FW0241	E1100256-002	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.54	pg	BJK	U	22
E1100256	FW0241	E1100256-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.375	pg	U	UJ	10
E1100256	FW0241	E1100256-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.61	pg	CJK	DNR	11
E1100256	FW0241	E1100256-002	EPA1613B	Octachlorodibenzo-p-dioxin	5.12	pg	BJK	U	22
E1100256	FW0129	E1100256-003	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.685	pg	BJK	U	22
E1100256	FW0129	E1100256-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.363	pg	U	UJ	10
E1100256	FW0129	E1100256-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1.35	pg	CJK	DNR	11
E1100256	FW0129	E1100256-003	EPA1613B	Octachlorodibenzo-p-dioxin	4.58	pg	BJ	U	6
E1100256	FB0130	E1100256-004	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.624	pg	BJK	U	22
E1100256	FB0130	E1100256-004	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.284	pg	U	UJ	10
E1100256	FW0234	E1100256-005	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.431	pg	U	UJ	10
E1100256	FW0234	E1100256-005	EPA1613B	Octachlorodibenzo-p-dioxin	4.64	pg	BJ	U	6
E1100256	FW0207	E1100256-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.776	pg	BJK	U	22
E1100256	FW0207	E1100256-006	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.545	pg	U	UJ	10
E1100256	FW0207	E1100256-006	EPA1613B	Octachlorodibenzo-p-dioxin	4.98	pg	BJ	U	6
K1102241	SL0120	K1102241-001	SW6020A	Antimony	0.178	mg/kg	N*	J	8,9
K1102241	SL0120	K1102241-001	SW6020A	Arsenic	2.91	mg/kg	*	J	9

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
K1102241	SL0120	K1102241-001	SW6010	Barium	160	mg/kg	N	J	8
K1102241	SL0120	K1102241-001	SW6020A	Chromium	7.18	mg/kg	*	J	9
K1102241	SL0120	K1102241-001	SW6010	Copper	89.9	mg/kg	N*	J	8,9
K1102241	SL0120	K1102241-001	SW6010	Lead	30.5	mg/kg	N	J	8
K1102241	SL0120	K1102241-001	SW6010	Magnesium	1750	mg/kg	N	J	8
K1102241	SL0120	K1102241-001	SW6010	Manganese	338	mg/kg	*	J	9
K1102241	SL0120	K1102241-001	SW7471B	Mercury	0.014	mg/kg	J	J	7
K1102241	SL0120	K1102241-001	SW6010	Silver	0.2	mg/kg	U	UJ	7
K1102241	SL0120	K1102241-001	SW6010	Thallium	3.8	mg/kg	J	J	5B
K1102241	SL0120	K1102241-001	SW6010	Zinc	201	mg/kg	N	J	8
K1102241	SL0121	K1102241-002	SW6020A	Antimony	0.152	mg/kg	N*	J	8,9
K1102241	SL0121	K1102241-002	SW6020A	Arsenic	1.5	mg/kg	*	J	9
K1102241	SL0121	K1102241-002	SW6010	Barium	223	mg/kg	N	J	8
K1102241	SL0121	K1102241-002	SW6020A	Chromium	5.04	mg/kg	*	J	9
K1102241	SL0121	K1102241-002	SW6010	Copper	34.9	mg/kg	N*	J	8,9
K1102241	SL0121	K1102241-002	SW6010	Lead	26.2	mg/kg	N	J	8
K1102241	SL0121	K1102241-002	SW6010	Magnesium	1780	mg/kg	N	J	8
K1102241	SL0121	K1102241-002	SW6010	Manganese	964	mg/kg	*	J	9
K1102241	SL0121	K1102241-002	SW7471B	Mercury	0.017	mg/kg	J	J	7
K1102241	SL0121	K1102241-002	SW6010	Thallium	5.7	mg/kg	J	J	5B,7
K1102241	SL0121	K1102241-002	SW6010	Zinc	196	mg/kg	N	J	8
K1102241	SL0122	K1102241-003	SW6020A	Antimony	0.14	mg/kg	N*	J	8,9
K1102241	SL0122	K1102241-003	SW6020A	Arsenic	1.16	mg/kg	*	J	9
K1102241	SL0122	K1102241-003	SW6010	Barium	111	mg/kg	N	J	8
K1102241	SL0122	K1102241-003	SW6020A	Chromium	5.98	mg/kg	*	J	9
K1102241	SL0122	K1102241-003	SW6010	Copper	14.2	mg/kg	N*	J	8,9
K1102241	SL0122	K1102241-003	SW6010	Lead	19.3	mg/kg	N	J	8
K1102241	SL0122	K1102241-003	SW6010	Magnesium	1640	mg/kg	N	J	8
K1102241	SL0122	K1102241-003	SW6010	Manganese	161	mg/kg	*	J	9
K1102241	SL0122	K1102241-003	SW6010	Thallium	2.3	mg/kg	U	UJ	5B,7
K1102241	SL0122	K1102241-003	SW6010	Zinc	70	mg/kg	N	J	8
K1102241	SL0123	K1102241-012	SW6020A	Antimony	0.072	mg/kg	N*	J	8,9
K1102241	SL0123	K1102241-012	SW6020A	Arsenic	3.14	mg/kg	*	J	9
K1102241	SL0123	K1102241-012	SW6010	Barium	164	mg/kg	N	J	8
K1102241	SL0123	K1102241-012	SW6020A	Chromium	10.5	mg/kg	*	J	9
K1102241	SL0123	K1102241-012	SW6010	Copper	8.9	mg/kg	N*	J	8,9
K1102241	SL0123	K1102241-012	SW6010	Lead	14.2	mg/kg	J,N	J	8

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
K1102241	SL0123	K1102241-012	SW6010	Magnesium	1570	mg/kg	N	J	8
K1102241	SL0123	K1102241-012	SW6010	Manganese	46.2	mg/kg	*	J	9
K1102241	SL0123	K1102241-012	SW7471B	Mercury	0.013	mg/kg	J	J	7
K1102241	SL0123	K1102241-012	SW6010	Thallium	3	mg/kg	J	J	5B,7
K1102241	SL0123	K1102241-012	SW6010	Zinc	51.4	mg/kg	N	J	8
K1102241	SL0124	K1102241-013	SW6020A	Antimony	0.032	mg/kg	N*	UJ	7,8,9
K1102241	SL0124	K1102241-013	SW6020A	Arsenic	1.22	mg/kg	*	J	9
K1102241	SL0124	K1102241-013	SW6010	Barium	128	mg/kg	N	J	8
K1102241	SL0124	K1102241-013	SW6020A	Chromium	6.97	mg/kg	*	J	9
K1102241	SL0124	K1102241-013	SW6010	Copper	5.7	mg/kg	N*	J	8,9
K1102241	SL0124	K1102241-013	SW6010	Lead	13.4	mg/kg	N	J	8
K1102241	SL0124	K1102241-013	SW6010	Magnesium	1390	mg/kg	N	J	8
K1102241	SL0124	K1102241-013	SW6010	Manganese	128	mg/kg	*	J	9
K1102241	SL0124	K1102241-013	SW7471B	Mercury	0.014	mg/kg	J	J	7
K1102241	SL0124	K1102241-013	SW6010	Thallium	1.9	mg/kg	U	UJ	5B,7
K1102241	SL0124	K1102241-013	SW6010	Zinc	35.2	mg/kg	N	J	8
K1102241	SL0177	K1102241-014	SW6020A	Antimony	0.234	mg/kg	N*	J	8,9
K1102241	SL0177	K1102241-014	SW6020A	Arsenic	4.09	mg/kg	*	J	9
K1102241	SL0177	K1102241-014	SW6010	Barium	1430	mg/kg	N	J	8
K1102241	SL0177	K1102241-014	SW6020A	Chromium	62.3	mg/kg	*	J	9
K1102241	SL0177	K1102241-014	SW6010	Copper	40.5	mg/kg	N*	J	8,9
K1102241	SL0177	K1102241-014	SW6010	Lead	15.9	mg/kg	N	J	8
K1102241	SL0177	K1102241-014	SW6010	Magnesium	12300	mg/kg	N	J	8
K1102241	SL0177	K1102241-014	SW6010	Manganese	758	mg/kg	*	J	9
K1102241	SL0177	K1102241-014	SW6010	Thallium	6.9	mg/kg	J	J	7
K1102241	SL0177	K1102241-014	SW6010	Zinc	97.8	mg/kg	N	J	8
K1102241	SL0178	K1102241-015	SW6020A	Antimony	0.198	mg/kg	N*	J	8,9
K1102241	SL0178	K1102241-015	SW6020A	Arsenic	2.11	mg/kg	*	J	9
K1102241	SL0178	K1102241-015	SW6010	Barium	136	mg/kg	N	J	8
K1102241	SL0178	K1102241-015	SW6020A	Chromium	37.3	mg/kg	*	J	9
K1102241	SL0178	K1102241-015	SW6010	Copper	49.2	mg/kg	N*	J	8,9
K1102241	SL0178	K1102241-015	SW6010	Lead	72.7	mg/kg	N	J	8
K1102241	SL0178	K1102241-015	SW6010	Magnesium	2330	mg/kg	N	J	8
K1102241	SL0178	K1102241-015	SW6010	Manganese	679	mg/kg	*	J	9
K1102241	SL0178	K1102241-015	SW6010	Thallium	2.8	mg/kg	J	J	7
K1102241	SL0178	K1102241-015	SW6010	Zinc	211	mg/kg	N	J	8
K1102241	SL0180	K1102241-016	SW6020A	Antimony	0.063	mg/kg	N*	J	8,9

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K1102241	SL0180	K1102241-016	SW6020A	Arsenic	1.24	mg/kg	*	J	9
K1102241	SL0180	K1102241-016	SW6010	Barium	105	mg/kg	N	J	8
K1102241	SL0180	K1102241-016	SW6020A	Chromium	9.8	mg/kg	*	J	9
K1102241	SL0180	K1102241-016	SW6010	Copper	13	mg/kg	N*	J	8,9
K1102241	SL0180	K1102241-016	SW6010	Lead	15.8	mg/kg	N	J	8
K1102241	SL0180	K1102241-016	SW6010	Magnesium	1420	mg/kg	N	J	8
K1102241	SL0180	K1102241-016	SW6010	Manganese	248	mg/kg	*	J	9
K1102241	SL0180	K1102241-016	SW6010	Thallium	2.1	mg/kg	U	UJ	7
K1102241	SL0180	K1102241-016	SW6010	Zinc	55.6	mg/kg	N	J	8
K1102241	SL0181	K1102241-017	SW6020A	Antimony	0.038	mg/kg	N*	UJ	7,8,9
K1102241	SL0181	K1102241-017	SW6020A	Arsenic	1.98	mg/kg	*	J	9
K1102241	SL0181	K1102241-017	SW6010	Barium	40.5	mg/kg	N	J	8
K1102241	SL0181	K1102241-017	SW6020A	Chromium	6.66	mg/kg	*	J	9
K1102241	SL0181	K1102241-017	SW6010	Copper	4.6	mg/kg	N*	J	8,9
K1102241	SL0181	K1102241-017	SW6010	Lead	13.5	mg/kg	N	J	8
K1102241	SL0181	K1102241-017	SW6010	Magnesium	970	mg/kg	N	J	8
K1102241	SL0181	K1102241-017	SW6010	Manganese	39.2	mg/kg	*	J	9
K1102241	SL0181	K1102241-017	SW6010	Thallium	1.8	mg/kg	U	UJ	7
K1102241	SL0181	K1102241-017	SW6010	Zinc	24.3	mg/kg	N	J	8
K1102241	SL0175	K1102241-018	SW6020A	Antimony	0.432	mg/kg	N*	J	8,9
K1102241	SL0175	K1102241-018	SW6020A	Arsenic	5.28	mg/kg	*	J	9
K1102241	SL0175	K1102241-018	SW6010	Barium	78.4	mg/kg	N	J	8
K1102241	SL0175	K1102241-018	SW6020A	Chromium	12.4	mg/kg	*	J	9
K1102241	SL0175	K1102241-018	SW6010	Copper	74.8	mg/kg	N*	J	8,9
K1102241	SL0175	K1102241-018	SW6010	Lead	28.6	mg/kg	N	J	8
K1102241	SL0175	K1102241-018	SW6010	Magnesium	7810	mg/kg	N	J	8
K1102241	SL0175	K1102241-018	SW6010	Manganese	141	mg/kg	*	J	9
K1102241	SL0175	K1102241-018	SW6010	Thallium	7.8	mg/kg	J	J	7
K1102241	SL0175	K1102241-018	SW6010	Zinc	474	mg/kg	N	J	8
K1102241	SL0176	K1102241-019	SW6020A	Antimony	0.132	mg/kg	N*	J	8,9
K1102241	SL0176	K1102241-019	SW6020A	Arsenic	2.42	mg/kg	*	J	9
K1102241	SL0176	K1102241-019	SW6010	Barium	95.1	mg/kg	N	J	8
K1102241	SL0176	K1102241-019	SW6020A	Chromium	17.8	mg/kg	*	J	9
K1102241	SL0176	K1102241-019	SW6010	Copper	38.3	mg/kg	N*	J	8,9
K1102241	SL0176	K1102241-019	SW6010	Lead	20.3	mg/kg	N	J	8
K1102241	SL0176	K1102241-019	SW6010	Magnesium	6430	mg/kg	N	J	8
K1102241	SL0176	K1102241-019	SW6010	Manganese	207	mg/kg	*	J	9

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K1102241	SL0176	K1102241-019	SW6010	Thallium	4.3	mg/kg	J	J	7
K1102241	SL0176	K1102241-019	SW6010	Zinc	200	mg/kg	N	J	8
K1102241	SL0131	K1102241-020	SW6020A	Antimony	0.462	mg/kg	N*	J	8,9
K1102241	SL0131	K1102241-020	SW6020A	Arsenic	2.88	mg/kg	*	J	9
K1102241	SL0131	K1102241-020	SW6010	Barium	413	mg/kg	N	J	8
K1102241	SL0131	K1102241-020	SW6020A	Chromium	27.4	mg/kg	*	J	9
K1102241	SL0131	K1102241-020	SW6010	Copper	42.4	mg/kg	N*	J	8,9
K1102241	SL0131	K1102241-020	SW6010	Lead	68.2	mg/kg	N	J	8
K1102241	SL0131	K1102241-020	SW6010	Magnesium	3580	mg/kg	N	J	8
K1102241	SL0131	K1102241-020	SW6010	Manganese	2630	mg/kg	*	J	9
K1102241	SL0131	K1102241-020	SW6010	Thallium	6.3	mg/kg	J	J	7
K1102241	SL0131	K1102241-020	SW6010	Zinc	443	mg/kg	N	J	8
K1102241	SL0132	K1102241-021	SW6020A	Antimony	0.151	mg/kg	N*	J	8,9
K1102241	SL0132	K1102241-021	SW6020A	Arsenic	1.99	mg/kg	*	J	9
K1102241	SL0132	K1102241-021	SW6010	Barium	153	mg/kg	N	J	8
K1102241	SL0132	K1102241-021	SW6020A	Chromium	14.2	mg/kg	*	J	9
K1102241	SL0132	K1102241-021	SW6010	Copper	14.9	mg/kg	N*	J	8,9
K1102241	SL0132	K1102241-021	SW6010	Lead	22.1	mg/kg	N	J	8
K1102241	SL0132	K1102241-021	SW6010	Magnesium	4340	mg/kg	N	J	8
K1102241	SL0132	K1102241-021	SW6010	Manganese	1590	mg/kg	*	J	9
K1102241	SL0132	K1102241-021	SW6010	Thallium	3.7	mg/kg	J	J	7
K1102241	SL0132	K1102241-021	SW6010	Zinc	76.3	mg/kg	N	J	8
K1102241	SL0182	K1102241-022	SW6020A	Antimony	0.067	mg/kg	N*	J	8,9
K1102241	SL0182	K1102241-022	SW6020A	Arsenic	3.49	mg/kg	*	J	9
K1102241	SL0182	K1102241-022	SW6010	Barium	64.1	mg/kg	N	J	8
K1102241	SL0182	K1102241-022	SW6020A	Chromium	20	mg/kg	*	J	9
K1102241	SL0182	K1102241-022	SW6010	Copper	14	mg/kg	N*	J	8,9
K1102241	SL0182	K1102241-022	SW6010	Lead	24.6	mg/kg	N	J	8
K1102241	SL0182	K1102241-022	SW6010	Magnesium	1900	mg/kg	N	J	8
K1102241	SL0182	K1102241-022	SW6010	Manganese	138	mg/kg	*	J	9
K1102241	SL0182	K1102241-022	SW6010	Thallium	12.5	mg/kg	J	J	7
K1102241	SL0182	K1102241-022	SW6010	Zinc	77.5	mg/kg	N	J	8
K1102241	SL0183	K1102241-023	SW6020A	Antimony	0.422	mg/kg	N*	J	8,9
K1102241	SL0183	K1102241-023	SW6020A	Arsenic	3.96	mg/kg	*	J	9
K1102241	SL0183	K1102241-023	SW6010	Barium	211	mg/kg	N	J	8
K1102241	SL0183	K1102241-023	SW6020A	Chromium	54.7	mg/kg	*	J	9
K1102241	SL0183	K1102241-023	SW6010	Copper	43.9	mg/kg	N*	J	8,9

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K1102241	SL0183	K1102241-023	SW6010	Lead	163	mg/kg	N	J	8
K1102241	SL0183	K1102241-023	SW6010	Magnesium	3050	mg/kg	N	J	8
K1102241	SL0183	K1102241-023	SW6010	Manganese	659	mg/kg	*	J	9
K1102241	SL0183	K1102241-023	SW6010	Silver	0.3	mg/kg	U	UJ	7
K1102241	SL0183	K1102241-023	SW6010	Thallium	6.1	mg/kg	J	J	5B
K1102241	SL0183	K1102241-023	SW6010	Zinc	379	mg/kg	N	J	8
K1102241	SL0184	K1102241-024	SW6020A	Antimony	0.234	mg/kg	N*	J	8,9
K1102241	SL0184	K1102241-024	SW6020A	Arsenic	6.25	mg/kg	*	J	9
K1102241	SL0184	K1102241-024	SW6010	Barium	225	mg/kg	N	J	8
K1102241	SL0184	K1102241-024	SW6020A	Chromium	71.5	mg/kg	*	J	9
K1102241	SL0184	K1102241-024	SW6010	Copper	43.3	mg/kg	N*	J	8,9
K1102241	SL0184	K1102241-024	SW6010	Lead	271	mg/kg	N	J	8
K1102241	SL0184	K1102241-024	SW6010	Magnesium	3160	mg/kg	N	J	8
K1102241	SL0184	K1102241-024	SW6010	Manganese	249	mg/kg	*	J	9
K1102241	SL0184	K1102241-024	SW6010	Silver	0.4	mg/kg	U	UJ	7
K1102241	SL0184	K1102241-024	SW6010	Thallium	4.1	mg/kg	J	J	5B
K1102241	SL0184	K1102241-024	SW6010	Zinc	1870	mg/kg	N	J	8
K1102241	SL0185	K1102241-025	SW6020A	Antimony	0.109	mg/kg	N*	J	8,9
K1102241	SL0185	K1102241-025	SW6020A	Arsenic	5.83	mg/kg	*	J	9
K1102241	SL0185	K1102241-025	SW6010	Barium	139	mg/kg	N	J	8
K1102241	SL0185	K1102241-025	SW6020A	Chromium	35	mg/kg	*	J	9
K1102241	SL0185	K1102241-025	SW6010	Copper	41	mg/kg	N*	J	8,9
K1102241	SL0185	K1102241-025	SW6010	Lead	289	mg/kg	N	J	8
K1102241	SL0185	K1102241-025	SW6010	Magnesium	4860	mg/kg	N	J	8
K1102241	SL0185	K1102241-025	SW6010	Manganese	183	mg/kg	*	J	9
K1102241	SL0185	K1102241-025	SW6010	Silver	0.4	mg/kg	U	UJ	7
K1102241	SL0185	K1102241-025	SW6010	Thallium	6.6	mg/kg	J	J	5B
K1102241	SL0185	K1102241-025	SW6010	Zinc	225	mg/kg	N	J	8
K1102241	SL0197	K1102241-026	SW6020A	Antimony	1	mg/kg	N*	J	8,9
K1102241	SL0197	K1102241-026	SW6020A	Arsenic	4.59	mg/kg	*	J	9
K1102241	SL0197	K1102241-026	SW6010	Barium	268	mg/kg	N	J	8
K1102241	SL0197	K1102241-026	SW6020A	Chromium	70.3	mg/kg	*	J	9
K1102241	SL0197	K1102241-026	SW6010	Copper	121	mg/kg	N*	J	8,9
K1102241	SL0197	K1102241-026	SW6010	Lead	113	mg/kg	N	J	8
K1102241	SL0197	K1102241-026	SW6010	Magnesium	4100	mg/kg	N	J	8
K1102241	SL0197	K1102241-026	SW6010	Manganese	2360	mg/kg	*	J	9
K1102241	SL0197	K1102241-026	SW6010	Silver	0.3	mg/kg	U	UJ	7

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K1102241	SL0197	K1102241-026	SW6010	Thallium	3.2	mg/kg	J	J	5B
K1102241	SL0197	K1102241-026	SW6010	Zinc	4160	mg/kg	N	J	8
K1102241	SL0198	K1102241-027	SW6020A	Antimony	0.745	mg/kg	N*	J	8,9
K1102241	SL0198	K1102241-027	SW6020A	Arsenic	2.19	mg/kg	*	J	9
K1102241	SL0198	K1102241-027	SW6010	Barium	125	mg/kg	N	J	8
K1102241	SL0198	K1102241-027	SW6020A	Chromium	32.4	mg/kg	*	J	9
K1102241	SL0198	K1102241-027	SW6010	Copper	110	mg/kg	N*	J	8,9
K1102241	SL0198	K1102241-027	SW6010	Lead	117	mg/kg	N	J	8
K1102241	SL0198	K1102241-027	SW6010	Magnesium	1260	mg/kg	N	J	8
K1102241	SL0198	K1102241-027	SW6010	Manganese	993	mg/kg	*	J	9
K1102241	SL0198	K1102241-027	SW7471B	Mercury	0.011	mg/kg	J	J	7
K1102241	SL0198	K1102241-027	SW6010	Silver	0.2	mg/kg	U	UJ	7
K1102241	SL0198	K1102241-027	SW6010	Thallium	1.5	mg/kg	U	UJ	5B
K1102241	SL0198	K1102241-027	SW6010	Zinc	2520	mg/kg	N	J	8
K1102241	SL0142	K1102241-028	SW6020A	Antimony	0.373	mg/kg	N*	J	8,9
K1102241	SL0142	K1102241-028	SW6020A	Arsenic	2.69	mg/kg	*	J	9
K1102241	SL0142	K1102241-028	SW6010	Barium	136	mg/kg	N	J	8
K1102241	SL0142	K1102241-028	SW6020A	Chromium	12.5	mg/kg	*	J	9
K1102241	SL0142	K1102241-028	SW6010	Copper	23.6	mg/kg	N*	J	8,9
K1102241	SL0142	K1102241-028	SW6010	Lead	39.3	mg/kg	N	J	8
K1102241	SL0142	K1102241-028	SW6010	Magnesium	1410	mg/kg	N	J	8
K1102241	SL0142	K1102241-028	SW6010	Manganese	372	mg/kg	*	J	9
K1102241	SL0142	K1102241-028	SW6010	Silver	0.3	mg/kg	U	UJ	7
K1102241	SL0142	K1102241-028	SW6010	Thallium	7.4	mg/kg	J	J	5B
K1102241	SL0142	K1102241-028	SW6010	Zinc	280	mg/kg	N	J	8
K1102241	SL0143	K1102241-029	SW6020A	Antimony	0.06	mg/kg	N	J	8
K1102241	SL0143	K1102241-029	SW6020A	Arsenic	3.76	mg/kg	*	J	9
K1102241	SL0143	K1102241-029	SW6020A	Cadmium	0.115	mg/kg	*	J	9
K1102241	SL0143	K1102241-029	SW6010	Calcium	23900	mg/kg	*	J	9
K1102241	SL0143	K1102241-029	SW6010	Silver	0.3	mg/kg	U	UJ	7
K1102241	SL0143	K1102241-029	SW6010	Thallium	2	mg/kg	U	UJ	5B
K1102241	SL0143	K1102241-029	SW6010	Vanadium	17.4	mg/kg		J	16
K1102241	SL0125	K1102241-030	SW6020A	Antimony	0.062	mg/kg	N	J	8
K1102241	SL0125	K1102241-030	SW6020A	Arsenic	1.42	mg/kg	*	J	9
K1102241	SL0125	K1102241-030	SW6020A	Cadmium	0.1	mg/kg	*	J	9
K1102241	SL0125	K1102241-030	SW6010	Calcium	85700	mg/kg	*	J	9
K1102241	SL0125	K1102241-030	SW7471B	Mercury	0.015	mg/kg	J	J	7

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K1102241	SL0125	K1102241-030	SW6010	Thallium	2.6	mg/kg	J	U	7
K1102241	SL0125	K1102241-030	SW6010	Vanadium	12.9	mg/kg		J	16
K1102241	SL0126	K1102241-031	SW6020A	Antimony	0.037	mg/kg	N	UJ	7,8
K1102241	SL0126	K1102241-031	SW6020A	Arsenic	1.7	mg/kg	*	J	9
K1102241	SL0126	K1102241-031	SW6020A	Cadmium	0.071	mg/kg	*	J	9
K1102241	SL0126	K1102241-031	SW6010	Calcium	74000	mg/kg	*	J	9
K1102241	SL0126	K1102241-031	SW7471B	Mercury	0.014	mg/kg	J	J	7
K1102241	SL0126	K1102241-031	SW6010	Thallium	4.2	mg/kg	J	U	7
K1102241	SL0126	K1102241-031	SW6010	Vanadium	9.1	mg/kg		J	16
K1102241	SL0127	K1102241-032	SW6020A	Antimony	0.045	mg/kg	N	UJ	7,8
K1102241	SL0127	K1102241-032	SW6020A	Arsenic	1.76	mg/kg	*	J	9
K1102241	SL0127	K1102241-032	SW6020A	Cadmium	0.081	mg/kg	*	J	9
K1102241	SL0127	K1102241-032	SW6010	Calcium	141000	mg/kg	*	J	9
K1102241	SL0127	K1102241-032	SW7471B	Mercury	0.016	mg/kg	J	J	7
K1102241	SL0127	K1102241-032	SW6010	Thallium	4.4	mg/kg	J	U	7
K1102241	SL0127	K1102241-032	SW6010	Vanadium	8.7	mg/kg		J	16
K1102241	SL0153	K1102241-033	SW6020A	Antimony	0.057	mg/kg	N	UJ	7,8
K1102241	SL0153	K1102241-033	SW6020A	Arsenic	2.05	mg/kg	*	J	9
K1102241	SL0153	K1102241-033	SW6020A	Cadmium	0.108	mg/kg	*	J	9
K1102241	SL0153	K1102241-033	SW6010	Calcium	12700	mg/kg	*	J	9
K1102241	SL0153	K1102241-033	SW7471B	Mercury	0.013	mg/kg	J	J	7
K1102241	SL0153	K1102241-033	SW6010	Vanadium	20.1	mg/kg		J	16
K1102241	SL0154	K1102241-034	SW6020A	Antimony	0.019	mg/kg	J,N	UJ	7,8
K1102241	SL0154	K1102241-034	SW6020A	Arsenic	1.97	mg/kg	*	J	9
K1102241	SL0154	K1102241-034	SW6020A	Cadmium	0.116	mg/kg	*	J	9
K1102241	SL0154	K1102241-034	SW6010	Calcium	10300	mg/kg	*	J	9
K1102241	SL0154	K1102241-034	SW7471B	Mercury	0.008	mg/kg	J	J	7
K1102241	SL0154	K1102241-034	SW6010	Vanadium	23.7	mg/kg		J	16
K1102241	FW0163	K1102241-035	SW6020A	Antimony	0.276	ug		U	6
K1102241	FW0163	K1102241-035	SW6020A	Arsenic	0.5	ug		U	6
K1102241	FW0163	K1102241-035	SW6020A	Cadmium	0.174	ug		U	6
K1102241	FW0163	K1102241-035	SW6010	Calcium	93.1	ug		U	6
K1102241	FW0163	K1102241-035	SW6020A	Chromium	2.44	ug		J	16
K1102241	FW0163	K1102241-035	SW6010	Copper	3.2	ug		U	6
K1102241	FW0163	K1102241-035	SW6010	Magnesium	150	ug		U	6
K1102241	FW0163	K1102241-035	SW6010	Potassium	121	ug		U	6
K1102241	FW0163	K1102241-035	SW6010	Sodium	287	ug		UJ	6,16

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K1102241	FW0163	K1102241-035	SW6010	Zinc	65.5	ug		U	6
K1102241	SL0179	K1102241-036	SW6020A	Antimony	0.085	mg/kg	N	J	8
K1102241	SL0179	K1102241-036	SW6020A	Arsenic	2.14	mg/kg	*	J	9
K1102241	SL0179	K1102241-036	SW6020A	Cadmium	0.227	mg/kg	*	J	9
K1102241	SL0179	K1102241-036	SW6010	Calcium	14800	mg/kg	*	J	9
K1102241	SL0179	K1102241-036	SW6010	Vanadium	22.3	mg/kg		J	16
K1102242	SL0162	K1102242-001	SW6020A	Antimony	0.038	mg/kg	N	UJ	7,8
K1102242	SL0162	K1102242-001	SW6020A	Arsenic	1.64	mg/kg	*	J	9
K1102242	SL0162	K1102242-001	SW6020A	Cadmium	0.063	mg/kg		J	9
K1102242	SL0162	K1102242-001	SW6010	Calcium	5300	mg/kg	*	J	9
K1102242	SL0162	K1102242-001	SW6010	Magnesium	1450	mg/kg	N*	J	8,9
K1102242	SL0162	K1102242-001	SW6010	Manganese	84	mg/kg	N*	J	8,9
K1102242	SL0162	K1102242-001	SW6010	Silver	0.2	mg/kg	U	UJ	7
K1102242	SL0162	K1102242-001	SW6010	Thallium	3.7	mg/kg	J	J	5B
K1102242	SL0162	K1102242-001	SW6010	Zinc	22	mg/kg	*	J	9
K1102242	SL0167	K1102242-002	SW6020A	Antimony	0.205	mg/kg	N	J	8
K1102242	SL0167	K1102242-002	SW6020A	Arsenic	2.02	mg/kg	*	J	9
K1102242	SL0167	K1102242-002	SW6020A	Cadmium	0.204	mg/kg		J	9
K1102242	SL0167	K1102242-002	SW6010	Calcium	25300	mg/kg	*	J	9
K1102242	SL0167	K1102242-002	SW6010	Magnesium	2040	mg/kg	N*	J	8,9
K1102242	SL0167	K1102242-002	SW6010	Manganese	635	mg/kg	N*	J	8,9
K1102242	SL0167	K1102242-002	SW6010	Silver	0.3	mg/kg	U	UJ	7
K1102242	SL0167	K1102242-002	SW6010	Thallium	2.1	mg/kg	J	J	5B
K1102242	SL0167	K1102242-002	SW6010	Zinc	133	mg/kg	*	J	9
K1102242	SL0168	K1102242-003	SW6020A	Antimony	0.087	mg/kg	N	J	8
K1102242	SL0168	K1102242-003	SW6020A	Arsenic	2.16	mg/kg	*	J	9
K1102242	SL0168	K1102242-003	SW6020A	Cadmium	0.069	mg/kg		J	9
K1102242	SL0168	K1102242-003	SW6010	Calcium	10800	mg/kg	*	J	9
K1102242	SL0168	K1102242-003	SW6010	Magnesium	1500	mg/kg	N*	J	8,9
K1102242	SL0168	K1102242-003	SW6010	Manganese	142	mg/kg	N*	J	8,9
K1102242	SL0168	K1102242-003	SW6010	Silver	0.3	mg/kg	U	UJ	7
K1102242	SL0168	K1102242-003	SW6010	Thallium	3.2	mg/kg	J	J	5B
K1102242	SL0168	K1102242-003	SW6010	Zinc	42.1	mg/kg	*	J	9
K1102242	SL0169	K1102242-004	SW6020A	Antimony	0.606	mg/kg	N	J	8
K1102242	SL0169	K1102242-004	SW6020A	Arsenic	3.22	mg/kg	*	J	9
K1102242	SL0169	K1102242-004	SW6020A	Cadmium	0.393	mg/kg		J	9
K1102242	SL0169	K1102242-004	SW6010	Calcium	14200	mg/kg	*	J	9

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
K1102242	SL0169	K1102242-004	SW6010	Magnesium	1820	mg/kg	N*	J	8,9
K1102242	SL0169	K1102242-004	SW6010	Manganese	246	mg/kg	N*	J	8,9
K1102242	SL0169	K1102242-004	SW6010	Silver	0.3	mg/kg	U	UJ	7
K1102242	SL0169	K1102242-004	SW6010	Thallium	14	mg/kg	J	J	5B
K1102242	SL0169	K1102242-004	SW6010	Zinc	122	mg/kg	*	J	9
K1102242	SL0170	K1102242-005	SW6020A	Antimony	0.144	mg/kg	N	J	8
K1102242	SL0170	K1102242-005	SW6020A	Arsenic	1.84	mg/kg	*	J	9
K1102242	SL0170	K1102242-005	SW6020A	Cadmium	0.295	mg/kg		J	9
K1102242	SL0170	K1102242-005	SW6010	Calcium	43700	mg/kg	*	J	9
K1102242	SL0170	K1102242-005	SW6010	Magnesium	2030	mg/kg	N*	J	8,9
K1102242	SL0170	K1102242-005	SW6010	Manganese	260	mg/kg	N*	J	8,9
K1102242	SL0170	K1102242-005	SW6010	Silver	0.3	mg/kg	U	UJ	7
K1102242	SL0170	K1102242-005	SW6010	Thallium	4.7	mg/kg	J	J	5B
K1102242	SL0170	K1102242-005	SW6010	Zinc	157	mg/kg	*	J	9
K1102242	SL0171	K1102242-006	SW6020A	Antimony	0.835	mg/kg	N	J	8
K1102242	SL0171	K1102242-006	SW6020A	Arsenic	27.3	mg/kg	*	J	9
K1102242	SL0171	K1102242-006	SW6020A	Cadmium	0.907	mg/kg		J	9
K1102242	SL0171	K1102242-006	SW6010	Calcium	14500	mg/kg	*	J	9
K1102242	SL0171	K1102242-006	SW6010	Magnesium	3010	mg/kg	N*	J	8,9
K1102242	SL0171	K1102242-006	SW6010	Manganese	472	mg/kg	N*	J	8,9
K1102242	SL0171	K1102242-006	SW6010	Silver	0.4	mg/kg	U	UJ	7
K1102242	SL0171	K1102242-006	SW6010	Thallium	12.6	mg/kg	J	J	5B
K1102242	SL0171	K1102242-006	SW6010	Zinc	331	mg/kg	*	J	9
K1102242	SL0172	K1102242-007	SW6020A	Antimony	0.142	mg/kg	N	J	8
K1102242	SL0172	K1102242-007	SW6020A	Arsenic	6.54	mg/kg	*	J	9
K1102242	SL0172	K1102242-007	SW6020A	Cadmium	1.09	mg/kg		J	9
K1102242	SL0172	K1102242-007	SW6010	Calcium	6720	mg/kg	*	J	9
K1102242	SL0172	K1102242-007	SW6010	Magnesium	2970	mg/kg	N*	J	8,9
K1102242	SL0172	K1102242-007	SW6010	Manganese	88.2	mg/kg	N*	J	8,9
K1102242	SL0172	K1102242-007	SW6010	Silver	0.4	mg/kg	U	UJ	7
K1102242	SL0172	K1102242-007	SW6010	Thallium	5.3	mg/kg	J	J	5B
K1102242	SL0172	K1102242-007	SW6010	Zinc	150	mg/kg	*	J	9
K1102242	SL0173	K1102242-008	SW6020A	Antimony	0.269	mg/kg	N	J	8
K1102242	SL0173	K1102242-008	SW6020A	Arsenic	6.01	mg/kg	*	J	9
K1102242	SL0173	K1102242-008	SW6020A	Cadmium	1.16	mg/kg		J	9
K1102242	SL0173	K1102242-008	SW6010	Calcium	14900	mg/kg	*	J	9
K1102242	SL0173	K1102242-008	SW6010	Magnesium	4390	mg/kg	N*	J	8,9

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
K1102242	SL0173	K1102242-008	SW6010	Manganese	245	mg/kg	N*	J	8,9
K1102242	SL0173	K1102242-008	SW6010	Silver	0.3	mg/kg	U	UJ	7
K1102242	SL0173	K1102242-008	SW6010	Thallium	5.6	mg/kg	J	J	5B
K1102242	SL0173	K1102242-008	SW6010	Zinc	303	mg/kg	*	J	9
K1102242	SL0174	K1102242-009	SW6020A	Antimony	0.272	mg/kg	N	J	8
K1102242	SL0174	K1102242-009	SW6020A	Arsenic	6.35	mg/kg	*	J	9
K1102242	SL0174	K1102242-009	SW6020A	Cadmium	1.17	mg/kg		J	9
K1102242	SL0174	K1102242-009	SW6010	Calcium	14100	mg/kg	*	J	9
K1102242	SL0174	K1102242-009	SW6010	Magnesium	5120	mg/kg	N*	J	8,9
K1102242	SL0174	K1102242-009	SW6010	Manganese	189	mg/kg	N*	J	8,9
K1102242	SL0174	K1102242-009	SW6010	Silver	0.4	mg/kg	U	UJ	7
K1102242	SL0174	K1102242-009	SW6010	Thallium	3.9	mg/kg	J	J	5B
K1102242	SL0174	K1102242-009	SW6010	Zinc	319	mg/kg	*	J	9
K1102242	SL0189	K1102242-011	SW6020A	Antimony	0.663	mg/kg	N	J	8
K1102242	SL0189	K1102242-011	SW6020A	Arsenic	3.22	mg/kg	*	J	9
K1102242	SL0189	K1102242-011	SW6020A	Cadmium	0.441	mg/kg		J	9
K1102242	SL0189	K1102242-011	SW6010	Calcium	21000	mg/kg	*	J	9
K1102242	SL0189	K1102242-011	SW6010	Magnesium	4090	mg/kg	N*	J	8,9
K1102242	SL0189	K1102242-011	SW6010	Manganese	353	mg/kg	N*	J	8,9
K1102242	SL0189	K1102242-011	SW6010	Silver	0.3	mg/kg	U	UJ	7
K1102242	SL0189	K1102242-011	SW6010	Thallium	2	mg/kg	U	UJ	5B
K1102242	SL0189	K1102242-011	SW6010	Zinc	111	mg/kg	*	J	9
K1102242	SL0190	K1102242-012	SW6020A	Antimony	0.894	mg/kg	N	J	8
K1102242	SL0190	K1102242-012	SW6020A	Arsenic	3.37	mg/kg	*	J	9
K1102242	SL0190	K1102242-012	SW6020A	Cadmium	0.435	mg/kg		J	9
K1102242	SL0190	K1102242-012	SW6010	Calcium	19500	mg/kg	*	J	9
K1102242	SL0190	K1102242-012	SW6010	Magnesium	4210	mg/kg	N*	J	8,9
K1102242	SL0190	K1102242-012	SW6010	Manganese	320	mg/kg	N*	J	8,9
K1102242	SL0190	K1102242-012	SW6010	Silver	0.4	mg/kg	J	J	7
K1102242	SL0190	K1102242-012	SW6010	Thallium	2.5	mg/kg	J	J	5B
K1102242	SL0190	K1102242-012	SW6010	Zinc	149	mg/kg	*	J	9
K1102242	SL0191	K1102242-013	SW6020A	Antimony	0.546	mg/kg	N	J	8
K1102242	SL0191	K1102242-013	SW6020A	Arsenic	5.87	mg/kg	*	J	9
K1102242	SL0191	K1102242-013	SW6020A	Cadmium	1.29	mg/kg		J	9
K1102242	SL0191	K1102242-013	SW6010	Calcium	24300	mg/kg	*	J	9
K1102242	SL0191	K1102242-013	SW6010	Magnesium	4420	mg/kg	N*	J	8,9
K1102242	SL0191	K1102242-013	SW6010	Manganese	225	mg/kg	N*	J	8,9

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
K1102242	SL0191	K1102242-013	SW6010	Silver	0.4	mg/kg	J	J	7
K1102242	SL0191	K1102242-013	SW6010	Thallium	2.6	mg/kg	J	J	5B
K1102242	SL0191	K1102242-013	SW6010	Zinc	115	mg/kg	*	J	9
K1102242	SL0192	K1102242-014	SW6020A	Antimony	0.304	mg/kg	N	J	8
K1102242	SL0192	K1102242-014	SW6020A	Arsenic	3.2	mg/kg	*	J	9
K1102242	SL0192	K1102242-014	SW6020A	Cadmium	1.04	mg/kg		J	9
K1102242	SL0192	K1102242-014	SW6010	Calcium	30100	mg/kg	*	J	9
K1102242	SL0192	K1102242-014	SW6010	Magnesium	3690	mg/kg	N*	J	8,9
K1102242	SL0192	K1102242-014	SW6010	Manganese	252	mg/kg	N*	J	8,9
K1102242	SL0192	K1102242-014	SW6010	Silver	0.9	mg/kg	J	J	7
K1102242	SL0192	K1102242-014	SW6010	Thallium	6.8	mg/kg	J	J	5B
K1102242	SL0192	K1102242-014	SW6010	Zinc	161	mg/kg	*	J	9
K1102242	SL0195	K1102242-015	SW6020A	Antimony	0.022	mg/kg	J,N	UJ	7,8
K1102242	SL0195	K1102242-015	SW6020A	Arsenic	1.03	mg/kg	*	J	9
K1102242	SL0195	K1102242-015	SW6020A	Cadmium	0.074	mg/kg		J	9
K1102242	SL0195	K1102242-015	SW6010	Calcium	2080	mg/kg	*	J	9
K1102242	SL0195	K1102242-015	SW6010	Magnesium	576	mg/kg	N*	J	8,9
K1102242	SL0195	K1102242-015	SW6010	Manganese	35.7	mg/kg	N*	J	8,9
K1102242	SL0195	K1102242-015	SW6010	Silver	0.2	mg/kg	U	UJ	7
K1102242	SL0195	K1102242-015	SW6010	Thallium	1.7	mg/kg	U	UJ	5B
K1102242	SL0195	K1102242-015	SW6010	Zinc	14.4	mg/kg	*	J	9
K1102242	SL0196	K1102242-016	SW6020A	Antimony	0.023	mg/kg	J,N	UJ	7,8
K1102242	SL0196	K1102242-016	SW6020A	Arsenic	1.29	mg/kg	*	J	9
K1102242	SL0196	K1102242-016	SW6020A	Cadmium	0.042	mg/kg		J	9
K1102242	SL0196	K1102242-016	SW6010	Calcium	1870	mg/kg	*	J	9
K1102242	SL0196	K1102242-016	SW6010	Magnesium	1970	mg/kg	N*	J	8,9
K1102242	SL0196	K1102242-016	SW6010	Manganese	61.9	mg/kg	N*	J	8,9
K1102242	SL0196	K1102242-016	SW6010	Zinc	9.1	mg/kg	*	J	9
K1102242	SL0240	K1102242-017	SW6020A	Antimony	0.013	mg/kg	J,N	UJ	7,8
K1102242	SL0240	K1102242-017	SW6020A	Arsenic	0.42	mg/kg	*	J	9
K1102242	SL0240	K1102242-017	SW6020A	Cadmium	0.03	mg/kg		UJ	7,9
K1102242	SL0240	K1102242-017	SW6010	Calcium	694	mg/kg	*	J	9
K1102242	SL0240	K1102242-017	SW6010	Magnesium	691	mg/kg	N*	J	8,9
K1102242	SL0240	K1102242-017	SW6010	Manganese	23.9	mg/kg	N*	J	8,9
K1102242	SL0240	K1102242-017	SW6010	Zinc	11.5	mg/kg	*	J	9
K1102242	SL0239	K1102242-018	SW6020A	Antimony	0.01	mg/kg	J,N	UJ	7,8
K1102242	SL0239	K1102242-018	SW6020A	Arsenic	0.54	mg/kg	*	J	9

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SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
K1102242	SL0239	K1102242-018	SW6020A	Cadmium	0.021	mg/kg		UJ	7,9
K1102242	SL0239	K1102242-018	SW6010	Calcium	1120	mg/kg	*	J	9
K1102242	SL0239	K1102242-018	SW6010	Magnesium	598	mg/kg	N*	J	8,9
K1102242	SL0239	K1102242-018	SW6010	Manganese	21.9	mg/kg	N*	J	8,9
K1102242	SL0239	K1102242-018	SW6010	Zinc	5.5	mg/kg	*	J	9
K1102242	SL0203	K1102242-019	SW6020A	Antimony	0.247	mg/kg	N	J	8
K1102242	SL0203	K1102242-019	SW6020A	Arsenic	2.84	mg/kg	*	J	9
K1102242	SL0203	K1102242-019	SW6020A	Cadmium	0.414	mg/kg		UJ	7,9
K1102242	SL0203	K1102242-019	SW6010	Calcium	7310	mg/kg	*	J	9
K1102242	SL0203	K1102242-019	SW6010	Magnesium	2500	mg/kg	N*	J	8,9
K1102242	SL0203	K1102242-019	SW6010	Manganese	93.6	mg/kg	N*	J	8,9
K1102242	SL0203	K1102242-019	SW6010	Zinc	77.7	mg/kg	*	J	9
K1102244	SL0187	K1102244-001	SW6020A	Antimony	0.481	mg/kg	N	J	8,16
K1102244	SL0187	K1102244-001	SW6010	Calcium	14400	mg/kg	*	J	9
K1102244	SL0187	K1102244-001	SW6010	Silver	0.5	mg/kg	J	U	7
K1102244	SL0187	K1102244-001	SW6010	Vanadium	17.7	mg/kg		J	16
K1102244	SL0187	K1102244-001	SW6010	Zinc	241	mg/kg	N	J	8
K1102244	SL0188	K1102244-002	SW6020A	Antimony	0.456	mg/kg	N	J	8,16
K1102244	SL0188	K1102244-002	SW6010	Calcium	21800	mg/kg	*	J	9
K1102244	SL0188	K1102244-002	SW6010	Silver	0.5	mg/kg	J	U	7
K1102244	SL0188	K1102244-002	SW6010	Vanadium	21.4	mg/kg		J	16
K1102244	SL0188	K1102244-002	SW6010	Zinc	112	mg/kg	N	J	8
K1102244	SL0164	K1102244-003	SW6020A	Antimony	0.195	mg/kg	N	J	5A,8,16
K1102244	SL0164	K1102244-003	SW6010	Calcium	285000	mg/kg	*	J	9
K1102244	SL0164	K1102244-003	SW6010	Silver	0.4	mg/kg	J	U	7
K1102244	SL0164	K1102244-003	SW6010	Vanadium	8.9	mg/kg		J	16
K1102244	SL0164	K1102244-003	SW6010	Zinc	106	mg/kg	N	J	8
K1102244	SL0165	K1102244-004	SW6020A	Antimony	0.19	mg/kg	N	J	8,16
K1102244	SL0165	K1102244-004	SW6010	Calcium	25100	mg/kg	*	J	9
K1102244	SL0165	K1102244-004	SW6010	Vanadium	15.9	mg/kg		J	16
K1102244	SL0165	K1102244-004	SW6010	Zinc	177	mg/kg	N	J	8
K1102244	SL0166	K1102244-005	SW6020A	Antimony	0.125	mg/kg	N	J	8,16
K1102244	SL0166	K1102244-005	SW6010	Calcium	16600	mg/kg	*	J	9
K1102244	SL0166	K1102244-005	SW6010	Vanadium	16.9	mg/kg		J	16
K1102244	SL0166	K1102244-005	SW6010	Zinc	137	mg/kg	N	J	8
K1102244	FW0128	K1102244-006	SW6010	Calcium	101	ug		U	6
K1102244	FW0128	K1102244-006	SW6020A	Chromium	1.79	ug		UJ	6,16

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K1102244	FW0128	K1102244-006	SW6010	Copper	7.3	ug		U	6
K1102244	FW0128	K1102244-006	SW6010	Magnesium	163	ug		U	6
K1102244	FW0128	K1102244-006	SW6010	Potassium	154	ug		U	6
K1102244	FW0128	K1102244-006	SW6010	Sodium	299	ug		UJ	6,16
K1102244	FW0128	K1102244-006	SW6010	Zinc	86.6	ug		U	6
K1102244	SL0133	K1102244-007	SW6020A	Antimony	2.21	mg/kg	N	J	8,16
K1102244	SL0133	K1102244-007	SW6010	Calcium	58600	mg/kg	*	J	9
K1102244	SL0133	K1102244-007	SW6010	Silver	0.4	mg/kg	J	U	7
K1102244	SL0133	K1102244-007	SW6010	Vanadium	22.6	mg/kg		J	16
K1102244	SL0133	K1102244-007	SW6010	Zinc	399	mg/kg	N	J	8
K1102244	SL0134	K1102244-008	SW6020A	Antimony	11.2	mg/kg	N	J	8,16
K1102244	SL0134	K1102244-008	SW6010	Calcium	57100	mg/kg	*	J	9
K1102244	SL0134	K1102244-008	SW6010	Silver	1.5	mg/kg		U	7
K1102244	SL0134	K1102244-008	SW6010	Vanadium	43.5	mg/kg		J	16
K1102244	SL0134	K1102244-008	SW6010	Zinc	2110	mg/kg	N	J	8
K1102244	SL0135	K1102244-009	SW6020A	Antimony	0.462	mg/kg	N	J	8,16
K1102244	SL0135	K1102244-009	SW6010	Calcium	33700	mg/kg	*	J	9
K1102244	SL0135	K1102244-009	SW6010	Vanadium	23.8	mg/kg		J	16
K1102244	SL0135	K1102244-009	SW6010	Zinc	179	mg/kg	N	J	8
K1102244	SL0136	K1102244-010	SW6020A	Antimony	4.99	mg/kg	N	J	8,16
K1102244	SL0136	K1102244-010	SW6010	Calcium	48800	mg/kg	*	J	9
K1102244	SL0136	K1102244-010	SW6010	Silver	0.6	mg/kg	J	U	7
K1102244	SL0136	K1102244-010	SW6010	Vanadium	29.7	mg/kg		J	16
K1102244	SL0136	K1102244-010	SW6010	Zinc	1280	mg/kg	N	J	8
K1102244	SL0137	K1102244-011	SW6020A	Antimony	1.07	mg/kg	N	J	8,16
K1102244	SL0137	K1102244-011	SW6010	Calcium	48400	mg/kg	*	J	9
K1102244	SL0137	K1102244-011	SW6010	Vanadium	13.3	mg/kg		J	16
K1102244	SL0137	K1102244-011	SW6010	Zinc	643	mg/kg	N	J	8
K1102244	SL0138	K1102244-012	SW6020A	Antimony	1.44	mg/kg	N	J	8,16
K1102244	SL0138	K1102244-012	SW6010	Calcium	28700	mg/kg	*	J	9
K1102244	SL0138	K1102244-012	SW6010	Thallium	16	mg/kg	J	U	7
K1102244	SL0138	K1102244-012	SW6010	Vanadium	19.5	mg/kg		J	16
K1102244	SL0138	K1102244-012	SW6010	Zinc	713	mg/kg	N	J	8
K1102244	SL0139	K1102244-013	SW6020A	Antimony	0.854	mg/kg	N	J	8,16
K1102244	SL0139	K1102244-013	SW6010	Calcium	16100	mg/kg	*	J	9
K1102244	SL0139	K1102244-013	SW6010	Thallium	5.2	mg/kg	J	U	7
K1102244	SL0139	K1102244-013	SW6010	Vanadium	31.8	mg/kg		J	16

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K1102244	SL0139	K1102244-013	SW6010	Zinc	536	mg/kg	N	J	8
K1102244	SL0140	K1102244-014	SW6020A	Antimony	0.563	mg/kg	N	J	8,16
K1102244	SL0140	K1102244-014	SW6010	Calcium	23600	mg/kg	*	J	9
K1102244	SL0140	K1102244-014	SW6010	Thallium	8.7	mg/kg	J	U	7
K1102244	SL0140	K1102244-014	SW6010	Vanadium	22.5	mg/kg		J	16
K1102244	SL0140	K1102244-014	SW6010	Zinc	318	mg/kg	N	J	8
K1102244	SL0141	K1102244-015	SW6020A	Antimony	0.288	mg/kg	N	J	8,16
K1102244	SL0141	K1102244-015	SW6010	Calcium	7990	mg/kg	*	J	9
K1102244	SL0141	K1102244-015	SW6010	Vanadium	16.4	mg/kg		J	16
K1102244	SL0141	K1102244-015	SW6010	Zinc	134	mg/kg	N	J	8
K1102244	SL0144	K1102244-018	SW6020A	Antimony	0.127	mg/kg	N	J	8,16
K1102244	SL0144	K1102244-018	SW6010	Calcium	15300	mg/kg	*	J	9
K1102244	SL0144	K1102244-018	SW7471B	Mercury	0.009	mg/kg	J	U	7
K1102244	SL0144	K1102244-018	SW6010	Silver	0.3	mg/kg	J	U	7
K1102244	SL0144	K1102244-018	SW6010	Vanadium	20.6	mg/kg		J	16
K1102244	SL0144	K1102244-018	SW6010	Zinc	22.3	mg/kg	N	J	8
K1102244	SL0145	K1102244-019	SW6020A	Antimony	0.11	mg/kg	N	J	8,16
K1102244	SL0145	K1102244-019	SW6010	Calcium	11700	mg/kg	*	J	9
K1102244	SL0145	K1102244-019	SW6010	Thallium	2.2	mg/kg	J	U	7
K1102244	SL0145	K1102244-019	SW6010	Vanadium	17.8	mg/kg		J	16
K1102244	SL0145	K1102244-019	SW6010	Zinc	19.6	mg/kg	N	J	8
K1102244	SL0146	K1102244-020	SW6020A	Antimony	4.99	mg/kg	N	J	8,16
K1102244	SL0146	K1102244-020	SW6010	Calcium	124000	mg/kg	*	J	9
K1102244	SL0146	K1102244-020	SW6010	Silver	0.4	mg/kg	J	U	7
K1102244	SL0146	K1102244-020	SW6010	Vanadium	26.2	mg/kg		J	16
K1102244	SL0146	K1102244-020	SW6010	Zinc	1770	mg/kg	N	J	8
K1102244	SL0147	K1102244-021	SW6020A	Antimony	0.59	mg/kg	N	J	8,16
K1102244	SL0147	K1102244-021	SW6010	Calcium	43600	mg/kg	*	J	9
K1102244	SL0147	K1102244-021	SW6010	Thallium	8.1	mg/kg	J	U	7
K1102244	SL0147	K1102244-021	SW6010	Vanadium	45.5	mg/kg		J	16
K1102244	SL0147	K1102244-021	SW6010	Zinc	740	mg/kg	N	J	8
K1102244	SL0148	K1102244-022	SW6020A	Antimony	0.136	mg/kg	N	J	8,16
K1102244	SL0148	K1102244-022	SW6010	Calcium	8870	mg/kg	*	J	9
K1102244	SL0148	K1102244-022	SW6010	Thallium	2.4	mg/kg	J	U	7
K1102244	SL0148	K1102244-022	SW6010	Vanadium	12	mg/kg		J	16
K1102244	SL0148	K1102244-022	SW6010	Zinc	84.9	mg/kg	N	J	8
K1102244	SL0149	K1102244-023	SW6020A	Antimony	0.057	mg/kg	N	UJ	7,8,16

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K1102244	SL0149	K1102244-023	SW6010	Calcium	1950	mg/kg	*	J	9
K1102244	SL0149	K1102244-023	SW6010	Thallium	2.6	mg/kg	J	U	7
K1102244	SL0149	K1102244-023	SW6010	Vanadium	12.9	mg/kg		J	16
K1102244	SL0149	K1102244-023	SW6010	Zinc	16	mg/kg	N	J	8
K1102244	SL0150	K1102244-024	SW6020A	Antimony	0.177	mg/kg	N	J	8
K1102244	SL0150	K1102244-024	SW6020A	Arsenic	3.5	mg/kg	*	J	9
K1102244	SL0150	K1102244-024	SW6020A	Cadmium	0.315	mg/kg	*	J	9
K1102244	SL0150	K1102244-024	SW6010	Calcium	13100	mg/kg	*	J	9
K1102244	SL0150	K1102244-024	SW6010	Vanadium	10.4	mg/kg		J	16
K1102244	SL0151	K1102244-025	SW6020A	Antimony	0.024	mg/kg	J,N	UJ	7,8
K1102244	SL0151	K1102244-025	SW6020A	Arsenic	1.38	mg/kg	*	J	9
K1102244	SL0151	K1102244-025	SW6020A	Cadmium	0.055	mg/kg	*	J	9
K1102244	SL0151	K1102244-025	SW6010	Calcium	1860	mg/kg	*	J	9
K1102244	SL0151	K1102244-025	SW6010	Vanadium	5.8	mg/kg		J	16
K1102244	FW0152	K1102244-026	SW6020A	Antimony	0.495	ug		U	6
K1102244	FW0152	K1102244-026	SW6020A	Arsenic	0.7	ug		U	6
K1102244	FW0152	K1102244-026	SW6010	Barium	0.4	ug	J	U	7
K1102244	FW0152	K1102244-026	SW6010	Calcium	75.3	ug		U	6
K1102244	FW0152	K1102244-026	SW6020A	Chromium	0.5	ug		UJ	6,16
K1102244	FW0152	K1102244-026	SW6010	Copper	2.8	ug		U	6
K1102244	FW0152	K1102244-026	SW6010	Magnesium	162	ug		U	6
K1102244	FW0152	K1102244-026	SW6010	Potassium	157	ug		U	6
K1102244	FW0152	K1102244-026	SW6010	Sodium	289	ug		UJ	6,16
K1102244	FW0152	K1102244-026	SW6010	Zinc	75.2	ug		U	6
K1102244	SL0199	K1102244-027	SW6020A	Antimony	3.3	mg/kg	N	J	8
K1102244	SL0199	K1102244-027	SW6020A	Arsenic	5.42	mg/kg	*	J	9
K1102244	SL0199	K1102244-027	SW6020A	Cadmium	0.56	mg/kg	*	J	9
K1102244	SL0199	K1102244-027	SW6010	Calcium	9600	mg/kg	*	J	9
K1102244	SL0199	K1102244-027	SW6010	Vanadium	17.3	mg/kg		J	16
K1102244	SL0200	K1102244-028	SW6020A	Antimony	0.575	mg/kg	N	J	8
K1102244	SL0200	K1102244-028	SW6020A	Arsenic	16	mg/kg	*	J	9
K1102244	SL0200	K1102244-028	SW6020A	Cadmium	0.546	mg/kg	*	J	9
K1102244	SL0200	K1102244-028	SW6010	Calcium	108000	mg/kg	*	J	9
K1102244	SL0200	K1102244-028	SW6010	Vanadium	31.3	mg/kg		J	16
K1102244	SL0201	K1102244-029	SW6020A	Antimony	0.807	mg/kg	N	J	8
K1102244	SL0201	K1102244-029	SW6020A	Arsenic	5.77	mg/kg	*	J	9
K1102244	SL0201	K1102244-029	SW6020A	Cadmium	1.16	mg/kg	*	J	9

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K1102244	SL0201	K1102244-029	SW6010	Calcium	61200	mg/kg	*	J	9
K1102244	SL0201	K1102244-029	SW6010	Vanadium	18.3	mg/kg		J	16
K1102244	SL0202	K1102244-030	SW6020A	Antimony	1.35	mg/kg	N	J	8
K1102244	SL0202	K1102244-030	SW6020A	Arsenic	7.65	mg/kg	*	J	9
K1102244	SL0202	K1102244-030	SW6020A	Cadmium	1.52	mg/kg	*	J	9
K1102244	SL0202	K1102244-030	SW6010	Calcium	70000	mg/kg	*	J	9
K1102244	SL0202	K1102244-030	SW6010	Vanadium	16.7	mg/kg		J	16
K1102244	SL0155	K1102244-031	SW6020A	Antimony	0.602	mg/kg	N	J	8
K1102244	SL0155	K1102244-031	SW6020A	Arsenic	3.61	mg/kg	*	J	9
K1102244	SL0155	K1102244-031	SW6020A	Cadmium	0.905	mg/kg	*	J	9
K1102244	SL0155	K1102244-031	SW6010	Calcium	42700	mg/kg	*	J	9
K1102244	SL0155	K1102244-031	SW6010	Vanadium	23.5	mg/kg		J	16
K1102244	SL0156	K1102244-032	SW6020A	Antimony	0.047	mg/kg	N	UJ	7,8
K1102244	SL0156	K1102244-032	SW6020A	Arsenic	1.2	mg/kg	*	J	9
K1102244	SL0156	K1102244-032	SW6020A	Cadmium	0.428	mg/kg	*	J	9
K1102244	SL0156	K1102244-032	SW6010	Calcium	4210	mg/kg	*	J	9
K1102244	SL0156	K1102244-032	SW6010	Vanadium	20.1	mg/kg		J	16
K1102244	SL0158	K1102244-033	SW6020A	Antimony	0.144	mg/kg	N	J	8
K1102244	SL0158	K1102244-033	SW6020A	Arsenic	3.67	mg/kg	*	J	9
K1102244	SL0158	K1102244-033	SW6020A	Cadmium	0.289	mg/kg	*	J	9
K1102244	SL0158	K1102244-033	SW6010	Calcium	6260	mg/kg	*	J	9
K1102244	SL0158	K1102244-033	SW6010	Vanadium	12.8	mg/kg		J	16
K1102244	SL0159	K1102244-034	SW6020A	Antimony	0.038	mg/kg	N	UJ	7,8
K1102244	SL0159	K1102244-034	SW6020A	Arsenic	2.3	mg/kg	*	J	9
K1102244	SL0159	K1102244-034	SW6020A	Cadmium	0.287	mg/kg	*	J	9
K1102244	SL0159	K1102244-034	SW6010	Calcium	4890	mg/kg	*	J	9
K1102244	SL0159	K1102244-034	SW6010	Vanadium	13.4	mg/kg		J	16
K1102244	SL0160	K1102244-035	SW6020A	Antimony	0.007	mg/kg	J,N	UJ	7,8
K1102244	SL0160	K1102244-035	SW6020A	Arsenic	2.26	mg/kg	*	J	9
K1102244	SL0160	K1102244-035	SW6020A	Cadmium	0.064	mg/kg	*	J	9
K1102244	SL0160	K1102244-035	SW6010	Calcium	1470	mg/kg	*	J	9
K1102244	SL0160	K1102244-035	SW6010	Vanadium	8.7	mg/kg		J	16
K1102244	SL0161	K1102244-036	SW6020A	Antimony	0.08	mg/kg	N	J	8
K1102244	SL0161	K1102244-036	SW6020A	Arsenic	1.56	mg/kg	*	J	9
K1102244	SL0161	K1102244-036	SW6020A	Cadmium	0.115	mg/kg	*	J	9
K1102244	SL0161	K1102244-036	SW6010	Calcium	2780	mg/kg	*	J	9
K1102244	SL0161	K1102244-036	SW6010	Vanadium	11.8	mg/kg		J	16

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K1102263	FW0186	K1102263-001	SW6020A	Antimony	0.36	ug		U	6
K1102263	FW0186	K1102263-001	SW6020A	Arsenic	0.7	ug		U	6
K1102263	FW0186	K1102263-001	SW6010	Barium	0.3	ug	J	U	7
K1102263	FW0186	K1102263-001	SW6010	Calcium	46.7	ug		U	6
K1102263	FW0186	K1102263-001	SW6020A	Chromium	0.69	ug		UJ	6,16
K1102263	FW0186	K1102263-001	SW6010	Copper	2.3	ug		U	6
K1102263	FW0186	K1102263-001	SW6010	Magnesium	166	ug		U	6
K1102263	FW0186	K1102263-001	SW6010	Potassium	149	ug		U	6
K1102263	FW0186	K1102263-001	SW6010	Sodium	325	ug		UJ	6,16
K1102263	FW0186	K1102263-001	SW6010	Zinc	78.3	ug		U	6
K1102263	FW0241	K1102263-002	SW6020A	Antimony	0.162	ug		U	6
K1102263	FW0241	K1102263-002	SW6020A	Arsenic	0.2	ug	J	U	6
K1102263	FW0241	K1102263-002	SW6010	Barium	0.4	ug	J	U	7
K1102263	FW0241	K1102263-002	SW6020A	Cadmium	0.023	ug		U	7
K1102263	FW0241	K1102263-002	SW6010	Calcium	54.1	ug		U	6
K1102263	FW0241	K1102263-002	SW6020A	Chromium	1.04	ug		UJ	6,16
K1102263	FW0241	K1102263-002	SW6010	Copper	2.1	ug		U	6
K1102263	FW0241	K1102263-002	SW6010	Magnesium	163	ug		U	6
K1102263	FW0241	K1102263-002	SW6010	Potassium	163	ug		U	6
K1102263	FW0241	K1102263-002	SW6010	Sodium	318	ug		UJ	6,16
K1102263	FW0241	K1102263-002	SW6010	Zinc	69.9	ug		U	6
K1102263	FW0129	K1102263-003	SW6020A	Antimony	0.168	ug		U	6
K1102263	FW0129	K1102263-003	SW6020A	Arsenic	0.3	ug	J	U	6
K1102263	FW0129	K1102263-003	SW6010	Barium	0.2	ug	J	U	7
K1102263	FW0129	K1102263-003	SW6020A	Cadmium	0.072	ug		U	6
K1102263	FW0129	K1102263-003	SW6010	Calcium	37.1	ug		U	6
K1102263	FW0129	K1102263-003	SW6020A	Chromium	0.59	ug		UJ	6,16
K1102263	FW0129	K1102263-003	SW6010	Copper	1.7	ug	J	U	6
K1102263	FW0129	K1102263-003	SW6010	Magnesium	162	ug		U	6
K1102263	FW0129	K1102263-003	SW6010	Manganese	0.34	ug	J	U	7
K1102263	FW0129	K1102263-003	SW6010	Potassium	143	ug		U	6
K1102263	FW0129	K1102263-003	SW6010	Sodium	301	ug		UJ	6,16
K1102263	FW0129	K1102263-003	SW6010	Zinc	67.3	ug		U	6
K1102263	FB0130	K1102263-004	SW6010	Aluminum	2	ug	J	U	7
K1102263	FB0130	K1102263-004	SW6010	Barium	0.2	ug	J	U	7
K1102263	FB0130	K1102263-004	SW6020A	Chromium	0.41	ug		J	16
K1102263	FB0130	K1102263-004	SW6010	Iron	4.9	ug		U	7

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K1102263	FB0130	K1102263-004	SW6010	Manganese	0.28	ug	J	U	7
K1102263	FB0130	K1102263-004	SW6010	Sodium	293	ug		J	16
K1102263	FW0234	K1102263-005	SW6020A	Antimony	0.179	ug		U	6
K1102263	FW0234	K1102263-005	SW6020A	Arsenic	0.3	ug	J	U	6
K1102263	FW0234	K1102263-005	SW6010	Barium	0.5	ug	J	U	7
K1102263	FW0234	K1102263-005	SW6020A	Cadmium	0.067	ug		U	6
K1102263	FW0234	K1102263-005	SW6010	Calcium	41	ug		U	6
K1102263	FW0234	K1102263-005	SW6020A	Chromium	0.53	ug		UJ	6,16
K1102263	FW0234	K1102263-005	SW6010	Copper	2.1	ug		U	6
K1102263	FW0234	K1102263-005	SW6010	Magnesium	164	ug		U	6
K1102263	FW0234	K1102263-005	SW6010	Potassium	157	ug		U	6
K1102263	FW0234	K1102263-005	SW6010	Sodium	268	ug		UJ	6,16
K1102263	FW0234	K1102263-005	SW6010	Zinc	74.2	ug		U	6
K1102263	FW0207	K1102263-006	SW6020A	Antimony	0.145	ug		U	6
K1102263	FW0207	K1102263-006	SW6020A	Arsenic	0.2	ug	J	U	6
K1102263	FW0207	K1102263-006	SW6010	Barium	0.5	ug	J	U	7
K1102263	FW0207	K1102263-006	SW6020A	Cadmium	0.015	ug	J	U	7
K1102263	FW0207	K1102263-006	SW6010	Calcium	46.8	ug		U	6
K1102263	FW0207	K1102263-006	SW6020A	Chromium	0.79	ug		UJ	6,16
K1102263	FW0207	K1102263-006	SW6010	Copper	2.4	ug		U	6
K1102263	FW0207	K1102263-006	SW6010	Manganese	0.52	ug	J	U	6
K1102263	FW0207	K1102263-006	SW6010	Potassium	132	ug		U	6
K1102263	FW0207	K1102263-006	SW6010	Sodium	274	ug		UJ	6,16
K1102263	FW0207	K1102263-006	SW6010	Zinc	72.7	ug		U	6
K1102241	SL0121	K1102241-002	SW8082A	Aroclor 1260	2.1	ug/kg	JP	NJ	3
K1102241	SL0122	K1102241-003	SW8082A	Aroclor 1254	5	ug/kg	JP	J	3
K1102241	SL0124	K1102241-013	SW8082A	Aroclor 1260	3.3	ug/kg	JP	NJ	3
K1102242	SL0167	K1102242-002	SW8082A	Aroclor 1260	3.1	ug/kg	JP	J	3
K1102242	SL0172	K1102242-007	SW8082A	Aroclor 1260	52	ug/kg		J	13
K1102242	SL0203	K1102242-019	SW8082A	Aroclor 1260	59	ug/kg		J	13
K1102244	SL0140	K1102244-014	SW8082A	Aroclor 1260	80	ug/kg		J	13
K1102241	SL0122	K1102241-003	SW8270C	bis(2-Ethylhexyl)phthalate	100	ug/kg		J	9
K1102241	SL0123	K1102241-012	SW8270C	2,3,4,6-Tetrachlorophenol	1.7	ug/kg	U	DNR	11
K1102241	SL0123	K1102241-012	SW8270C	2,4,5-Trichlorophenol	1.5	ug/kg	U	DNR	11
K1102241	SL0123	K1102241-012	SW8270C	2,4,6-Trichlorophenol	1.4	ug/kg	U	DNR	11
K1102241	SL0123	K1102241-012	SW8270C	2,4-Dichlorophenol	1	ug/kg	U	DNR	11
K1102241	SL0123	K1102241-012	SW8270C	Pentachlorophenol	20	ug/kg	U	DNR	11

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K1102241	SL0123	K1102241-012	SW8270C	Phenol	2	ug/kg	U	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	2,3,4,6-Tetrachlorophenol	8.5	ug/kg	U	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	2,4,5-Trichlorophenol	7.5	ug/kg	U	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	2,4,6-Trichlorophenol	7	ug/kg	U	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	2,4-Dichlorophenol	5	ug/kg	U	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	Acenaphthene	33	ug/kg	JD	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	bis(2-Ethylhexyl)phthalate	130	ug/kg	J	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	Carbazole	29	ug/kg	JD	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	Fluorene	29	ug/kg	JD	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	Hexachlorobenzene	2.4	ug/kg	U	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	Naphthalene	14	ug/kg	J	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	Pentachlorophenol	100	ug/kg	U	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	Phenanthrene	270	ug/kg	D	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	Phenol	10	ug/kg	U	DNR	11
K1102241	SL0177	K1102241-014	SW8270C	Phenol	6	ug/kg	J	U	7
K1102241	SL0132	K1102241-021	SW8270C	2,3,4,6-Tetrachlorophenol	8.5	ug/kg	U	DNR	11
K1102241	SL0132	K1102241-021	SW8270C	2,4,5-Trichlorophenol	7.5	ug/kg	U	DNR	11
K1102241	SL0132	K1102241-021	SW8270C	2,4,6-Trichlorophenol	7	ug/kg	U	DNR	11
K1102241	SL0132	K1102241-021	SW8270C	2,4-Dichlorophenol	5	ug/kg	U	DNR	11
K1102241	SL0132	K1102241-021	SW8270C	Acenaphthene	2.8	ug/kg	U	DNR	11
K1102241	SL0132	K1102241-021	SW8270C	bis(2-Ethylhexyl)phthalate	64	ug/kg	J	DNR	11
K1102241	SL0132	K1102241-021	SW8270C	Carbazole	5.8	ug/kg	J	DNR	11
K1102241	SL0132	K1102241-021	SW8270C	Fluorene	2.5	ug/kg	J	DNR	11
K1102241	SL0132	K1102241-021	SW8270C	Hexachlorobenzene	2.4	ug/kg	U	DNR	11
K1102241	SL0132	K1102241-021	SW8270C	Naphthalene	4.6	ug/kg	U	DNR	11
K1102241	SL0132	K1102241-021	SW8270C	Pentachlorophenol	100	ug/kg	U	DNR	11
K1102241	SL0132	K1102241-021	SW8270C	Phenanthrene	36	ug/kg	D	DNR	11
K1102241	SL0132	K1102241-021	SW8270C	Phenol	10	ug/kg	U	DNR	11
K1102241	SL0132	K1102241-021	SW8270C	Phenol	7.7	ug/kg	J	U	7
K1102241	SL0182	K1102241-022	SW8270C	2,3,4,6-Tetrachlorophenol	1.7	ug/kg	U	DNR	11
K1102241	SL0182	K1102241-022	SW8270C	2,4,5-Trichlorophenol	1.5	ug/kg	U	DNR	11
K1102241	SL0182	K1102241-022	SW8270C	2,4,6-Trichlorophenol	1.4	ug/kg	U	DNR	11
K1102241	SL0182	K1102241-022	SW8270C	2,4-Dichlorophenol	1	ug/kg	U	DNR	11
K1102241	SL0182	K1102241-022	SW8270C	Pentachlorophenol	20	ug/kg	U	DNR	11
K1102241	SL0182	K1102241-022	SW8270C	Phenol	2	ug/kg	U	DNR	11
K1102242	SL0169	K1102242-004	SW8270C	bis(2-Ethylhexyl)phthalate	2700	ug/kg	D	J	19
K1102242	SL0173	K1102242-008	SW8270C	bis(2-Ethylhexyl)phthalate	140	ug/kg	U	UJ	19

Qualified Data Summary Table
San Jacinto Waste Pits
Southern Impoundment Study

SDG	Sample ID	Lab ID	Method	Analyte	Result	Units	Lab Flags	Val Qualifier	Val Reason
K1102242	SL0174	K1102242-009	SW8270C	2,3,4,6-Tetrachlorophenol	17	ug/kg	U	DNR	11
K1102242	SL0174	K1102242-009	SW8270C	2,4,5-Trichlorophenol	15	ug/kg	U	DNR	11
K1102242	SL0174	K1102242-009	SW8270C	2,4,6-Trichlorophenol	14	ug/kg	U	DNR	11
K1102242	SL0174	K1102242-009	SW8270C	2,4-Dichlorophenol	10	ug/kg	U	DNR	11
K1102242	SL0174	K1102242-009	SW8270C	bis(2-Ethylhexyl)phthalate	70	ug/kg	U	UJ	19
K1102242	SL0174	K1102242-009	SW8270C	Pentachlorophenol	20	ug/kg	U	DNR	11
K1102242	SL0174	K1102242-009	SW8270C	Phenol	2	ug/kg	U	DNR	11
K1102242	SL0189	K1102242-011	SW8270C	bis(2-Ethylhexyl)phthalate	70	ug/kg	U	UJ	19
K1102242	SL0192	K1102242-014	SW8270C	bis(2-Ethylhexyl)phthalate	70	ug/kg	U	UJ	19
K1102242	SL0195	K1102242-015	SW8270C	bis(2-Ethylhexyl)phthalate	70	ug/kg	U	UJ	19
K1102244	SL0138	K1102244-012	SW8270C	bis(2-Ethylhexyl)phthalate	890	ug/kg	JD	J	19
K1102244	SL0140	K1102244-014	SW8270C	2,3,4,6-Tetrachlorophenol	8.5	ug/kg	U	DNR	11
K1102244	SL0140	K1102244-014	SW8270C	2,4,5-Trichlorophenol	7.5	ug/kg	U	DNR	11
K1102244	SL0140	K1102244-014	SW8270C	2,4,6-Trichlorophenol	7	ug/kg	U	DNR	11
K1102244	SL0140	K1102244-014	SW8270C	2,4-Dichlorophenol	5	ug/kg	U	DNR	11
K1102244	SL0140	K1102244-014	SW8270C	Pentachlorophenol	500	ug/kg	U	DNR	11
K1102244	SL0140	K1102244-014	SW8270C	Phenol	10	ug/kg	U	DNR	11
K1102244	SL0147	K1102244-021	SW8270C	2,3,4,6-Tetrachlorophenol	1.7	ug/kg	U	DNR	11
K1102244	SL0147	K1102244-021	SW8270C	2,4,5-Trichlorophenol	1.5	ug/kg	U	DNR	11
K1102244	SL0147	K1102244-021	SW8270C	2,4,6-Trichlorophenol	1.4	ug/kg	U	DNR	11
K1102244	SL0147	K1102244-021	SW8270C	2,4-Dichlorophenol	1	ug/kg	U	DNR	11
K1102244	SL0147	K1102244-021	SW8270C	bis(2-Ethylhexyl)phthalate	470	ug/kg	JD	J	19
K1102244	SL0147	K1102244-021	SW8270C	Pentachlorophenol	200	ug/kg	U	DNR	11
K1102244	SL0147	K1102244-021	SW8270C	Phenol	2	ug/kg	U	DNR	11
K1102244	SL0199	K1102244-027	SW8270C	Phenanthrene	510	ug/kg		J	8
K1104320	SL0123	K1104320-001	SW8270C	Phenol	13	ug/kg	J	U	7
K1104320	SL0147	K1104320-005	SW8270C	Phenol	12	ug/kg	J	U	7

CHEMISTRY DATA VALIDATION REPORTS FOR GEOTECHNICAL BORINGS

EcoChem, INC.
Environmental Data Quality

DATA VALIDATION REPORT

SAN JACINTO RIVER WASTE PITS
Geotech Borings

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January 11, 2010

Approved for Release

Melissa Swanson

Basis for Data Validation

This report summarizes the results of the validation (Stage 2A, Stage 2B, and Stage 3/4) performed on sediment and quality control (QC) sample data for the San Jacinto River Geotech Borings. A complete list of samples is provided in the **Sample Index**. Laboratory batch ID numbers and associated level of validation are provided at the beginning of each technical section

Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington and Columbia Analytical Services, Inc., Houston, Texas. The analytical methods and EcoChem project chemists are listed below.

Analysis	Method of Analysis	Primary Review	Secondary Review
Semivolatile Organic Compounds	SW8270C_3541	M. Brindle	M. Swanson
Dioxin & Furan Compounds	EPA1613B	M. Swanson	C. Mott
Polychlorinated Biphenyls - Congeners	EPA1668A		
Polychlorinated Biphenyls - Aroclors	SW8082_3541		
Metals	ICPAES_3050B, ICPMS_3050B, SW7471A	J. Maute	M. Swanson
Grain Size	PSEP		
Total Organic Carbon	EPA9060		
Total Solids	EPA160.3		

The data were reviewed using guidance and quality control criteria documented in the analytical methods; the *Sampling and Analysis Plan: Sediment Study San Jacinto River Waste Pits Superfund Site* (Integral/AnchorQEA, April 2010); *USEPA National Functional Guidelines for Chlorinated Dioxin/Furan Data Review* (USEPA, September 2005); *National Functional Guidelines for Organic Data Review* (USEPA 1999);.and *USEPA National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004).

EcoChem's goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned an R, the data are to be rejected and should not be used for any site evaluation purposes. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Data qualifier definitions, reason codes, and validation criteria are included as **Appendix A**. The qualified data summary table is included as **Appendix B.** Data Validation Worksheets and the associated communication records will be kept on file at EcoChem, Inc. A qualified laboratory electronic data deliverable (EDD) was also submitted with this report.

Sample Index
San Jacinto Waste Pits
Upland Geotech Borings

Sample ID	Kelso Lab ID	SVOC	Metals	Grain Size	TOC/TS	Kelso Lab ID	PCB Aroclors	Houston Lab ID	Dioxins	PCB Congeners
SJGB009-CR1-A	K1012248-001	✓	✓	✓	✓			E1001178-005	✓	
SJGB009-CR1-B	K1012248-002	✓	✓	✓	✓			E1001178-006	✓	
SJGB009-CR1-B-DUP	K1012248-003	✓	✓	✓	✓			E1001178-007	✓	
SJGB001-CR1-A	K1012248-004	✓	✓	✓	✓			E1001178-008	✓	
SJGB001-CR1-B	K1012248-005	✓	✓	✓	✓			E1001178-009	✓	
SJGB012-CR1-A	K1012248-006	✓	✓	✓	✓			E1001178-010	✓	
SJGB012-CR1-B	K1012248-007	✓	✓	✓	✓			E1001178-011	✓	
SJGB010-CR1-A	K1012248-008	✓	✓	✓	✓			E1001178-012	✓	
SJGB010-CR1-B	K1012248-009	✓	✓	✓	✓			E1001178-013	✓	
SJGB011-CR1-A	K1012248-010	✓	✓	✓	✓			E1001178-014	✓	
SJGB011-CR1-B	K1012248-011	✓	✓	✓	✓			E1001178-015	✓	
SJGB006-CR1-A	K1012248-012	✓	✓	✓	✓			E1001178-016	✓	
SJGB006-CR1-B	K1012248-013	✓	✓	✓	✓			E1001178-017	✓	
SJGB010-0-2	K1012252-001	✓	✓	✓	✓	K1014009-001	✓	E1001177-001	✓	✓
SJGB010-2-4	K1012252-002	✓	✓	✓	✓	K1014009-002	✓	E1001177-002	✓	✓
SJGB010-4-6	K1012252-003	✓	✓	✓	✓	K1014009-003	✓	E1001177-003	✓	✓
SJGB010-6-7.2	K1012252-004	✓	✓	✓	✓	K1014009-004	✓	E1001177-004	✓	✓
SJGB010-2-4-DUP	K1012252-005	✓	✓	✓	✓	K1014009-005	✓	E1001177-005	✓	✓
SJGB011-0-2	K1012252-006	✓	✓	✓	✓	K1014009-006	✓	E1001177-006	✓	✓
SJGB011-2-4	K1012252-007	✓	✓	✓	✓	K1014009-007	✓	E1001177-007	✓	✓
SJGB011-4-6	K1012252-008	✓	✓	✓	✓	K1014009-008	✓	E1001177-008	✓	✓
SJGB011-6-8	K1012252-009	✓	✓	✓	✓	K1014009-009	✓	E1001177-009	✓	✓
SJGB011-8-10	K1012252-010	✓	✓	✓	✓	K1014009-010	✓	E1001177-010	✓	✓
SJGB011-10-11.5	K1012252-011	✓	✓	✓	✓	K1014009-011	✓	E1001177-011	✓	✓
SJGB012-0-2	K1012252-012	✓	✓	✓	✓	K1014009-012	✓	E1001177-012	✓	✓
SJGB012-2-4	K1012252-013	✓	✓	✓	✓	K1014009-013	✓	E1001177-013	✓	✓
SJGB012-4-6	K1012252-014	✓	✓	✓	✓	K1014009-014	✓	E1001177-014	✓	✓
SJGB012-6-8	K1012252-015	✓	✓	✓	✓	K1014009-015	✓	E1001177-015	✓	✓
GBFB-914C	K1012252-016	✓	✓					E1001178-001	✓	✓
GBFB-913C	K1012252-017	✓	✓					E1001178-002	✓	✓
GBFB-912C	K1012252-018	✓	✓					E1001178-003	✓	✓
GBFB-915C	K1012252-019	✓	✓					E1001178-004	✓	✓

DATA VALIDATION REPORT
San Jacinto Geotech Borings
Semivolatile Organic Compounds by Method SW8270C

This report documents the review of analytical data from the analyses of sediment samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples. Several samples were analyzed for bis(2-ethylhexyl)phthalate (BEHP).

SDG	Number of Samples	Analyte List	Validation Level
K1012248	4 Wipe	Priority Pollutant	Stage 2A
	13 Sediment	BEHP	Stage 2B
K1012252	15 Sediment	Priority Pollutant	Stage 4B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative**.**

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Receipt, Preservation, and Holding Times		Laboratory Control Samples (LCS/LCSD)
	GC/MS Instrument Performance Check	1	Field Replicates
	Initial Calibration (ICAL)	1	Internal Standards
	Continuing Calibration (CCAL)		Target Analyte List
2	Laboratory Blanks	2	Reporting Limits (MDL and MRL)
1	Field Blanks		Compound Identification
1	Surrogate Compounds		Reported Results
	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)	1	Calculation Verification (Full validation only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.7°C. These outliers did not impact data quality; no data were qualified.

Laboratory Blanks

To assess the impact of each blank contaminant on the reported sample results, an action level is established at five times the concentration detected in the blank (ten times for phthalates). If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-7) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however only the following analytes required qualification in one or more samples.

SDG K1012252: bis(2-ethylhexyl)phthalate (4 results)

Field Blanks

Laboratory blanks are used to evaluate all associated field blanks. The field blanks for this project are filter wipe samples. Sample GBFB-913C was a master filter wipe blank; it was used to evaluate all other filter wipe blanks. Any remaining positive results in the field blank are then used to evaluate all associated samples. To evaluate the effect on the sample data, action levels of five times (5x) the blank concentrations were established.

No field sample results were qualified based on filter wipe blank contamination; these associated results were either not detected or detected at levels greater than the action level.

SDG K1012252: Three filter wipe blanks, GBFB-912C, GBFB-914C, and GBFB-915C, were submitted with this SDG. Positive results for phenol were detected in these blanks.

Surrogate Compounds

SDG K1012252: The percent recovery (%R) value for 2-fluorobiphenyl in Sample SJGB011-4-6 was greater than the upper control limit, at 109%. One outlier per acid/base-neutral fraction is allowed. No data were qualified.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 50% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1012248: One pair of field replicates was submitted, Samples SJGB009-CR1-B & SJGB009-CR1-B-DUP. Field precision was acceptable.

SDG K1012252: One pair of field replicates was submitted, Samples SJGB010-2-4 & SJGB010-2-4-DUP. Field precision was acceptable.

Internal Standards

SDG K1012252: In 13 samples the internal standards recovery values were less than the lower control limit of 50%. These samples were reanalyzed at dilution (2x, 5x, and/or 10x). The reported results were from analyses in which all internal standard recovery values were within control limits.

Reporting Limits

SDG K1012248: The reporting limits for bis(2-ethylhexyl)phthalate were elevated due to low percent solids in all samples.

SDG K1012252: The results for acenaphthene in seven samples were "X" flagged by the laboratory to indicate a potential high bias from non-target background components. These results were estimated (J-14).

Thirteen samples were reanalyzed at dilution (2x, 5x, and/or 10x) due to internal standard outliers. Reporting limits were elevated accordingly, no data were qualified.

Calculation Verification

SDG K1012252: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by the surrogate, matrix spike/matrix spike duplicate (MS/MSD) and laboratory control sample/laboratory control sample duplicate (LCS/LCSD) %R values. Precision was also acceptable as demonstrated by the MS/MSD, LCS/LCSD, and field replicate RPD values.

Data were qualified as not detected based on method blank contamination. Data were estimated due to interferences from non-target background components.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto Geotech Borings
PCB Aroclors by Method SW8082

This report documents the review of analytical data from the analysis of sediment samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1014009	15 Sediment	Stage 4

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table

2	Sample Receipt, Preservation, and Holding Times		Matrix Spikes/Matrix Spike Duplicate (MS/MSD)
	Initial Calibration (ICAL)	1	Field Replicates
	Continuing Calibration (CCAL)	1	Reporting Limits
	Laboratory Blanks	1	Compound Identification
1	Field Blanks		Reported Results
	Surrogate Compounds	1	Calculation Verification (Full Validation only)
	Laboratory Control Samples (LCS/LCSD)		

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

Due to a laboratory error, Sample SJGB010-2-4-DUP was stored at 4°C and not placed in frozen storage (at -20°C). Analysis was requested by Integral, after the 14-day extraction holding time (specified in the project sampling and analysis plan). This sample was extracted 56 days after collection, all results for this sample were estimated (UJ-1).

Field Blanks

No field blanks were submitted with this analytical fraction.

Field Replicates

One pair of field replicates was submitted; Samples SJGB010-2-4 & SJGB010-2-4-DUP. No positive results were reported, field precision was acceptable.

Reporting Limits

Thirteen samples were reanalyzed at dilution (10x, 20x, or 50x) due to non-target background interferences. Reporting limits were elevated accordingly, no data were qualified.

Compound identification

The reported compound identifications were verified by using the quantitation reports (comparing the reported concentrations for each congener used for Aroclor identification), and also by comparing the patterns in the sample chromatogram to the patterns in the standard chromatogram. All compound identifications were acceptable.

Calculation Verification

Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate and laboratory control sample/laboratory control sample duplicate (LCS/LCSD) percent recovery (%R) values. Precision was also acceptable as demonstrated by the LCS/LCSD and field replicate relative percent difference (RPD) values.

Data were qualified due to a holding time outlier.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto Geotech Borings
Dioxin/Furan Compounds by Method 1613B

This report documents the review of analytical data from the analyses of sediment samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Houston, Texas. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
E1001177	15 Sediment	Stage 4
E1001178	13 Sediment	Stage 2B
	4 Filter Wipes	Stage 2A

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

	Sample Receipt, Preservation, and Holding Times	1	Matrix Spike/Matrix Spike Duplicate (MS/MSD)
	GC/MS Instrument Performance Check	2	Laboratory Control Samples (LCS/LCSD)
	Initial Calibration (ICAL)		Reference Material (RM)
	Calibration Verification (CVER)	1	Field Replicates
	Isomer Specificity		Target Analyte List
2	Laboratory Blanks	2	Reported Results
1	Field Blanks	2	Compound Identification
1	Labeled Compound Recovery	1	Calculation Verification

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Laboratory Blanks

To assess the impact of each blank contaminant on the reported sample results, an action level is established at five times the concentration detected in the blank. If a contaminant is detected in

an associated field sample and the concentration is less than the action level, the result is qualified (U-7) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level or for non-detected results.

The laboratory assigned "K" flags to values when a peak was detected but did not meet identification criteria. These values cannot be considered as positive identifications, but are "estimated maximum possible concentrations". When these occurred in the method blank the results were considered false positives. No action levels were established for these analytes.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks; the following data were qualified.

SDG E1001178: OCDD (3 results)

Field Blanks

Laboratory blanks are used to evaluate all associated field blanks. The field blanks for this project were filter wipe samples. To evaluate the effect on the sample data, action levels of five times the blank concentrations were established. Sample GBFB-913C was a master filter wipe blank; it was used to evaluate all other filter wipe blanks. Any remaining positive results in other field blanks are then used to evaluate all associated samples. To evaluate the effect on the sample data, action levels of five times the blank concentrations were established.

No field sample results were qualified based on filter wipe blank contamination; these associated results were detected at levels greater than the action level.

SDG E1001178: Three filter wipe blanks, GBFB-912C, GBFB-914C, and GBFB-915C, were submitted with this SDG. A positive result remained for 2,3,7,8-TCDD in Sample GBFB-912C. Positive results remained for 2,3,7,8-TCDD and 1,2,3,4,7,8-HxCDD in Sample GBFB-914C after qualifiers based on method blank contamination were issued. A positive result remained for 2,3,7,8-TCDF in Sample GBFB-915C after qualifiers based on method blank contamination were issued.

Labeled Compound Recovery

Labeled compounds were added to all samples. The labeled compound percent recovery (%R) values were evaluated using the laboratory control limits. If the labeled compound recovery outlier value indicates high bias, positive results for the associated compounds are estimated (J-13); whereas outlier values indicating low bias, positive results and reporting limits for the associated compounds are estimated (J/UJ-13).

SDG E1001178: In the dilution analyses (100x) of Samples SJGB010-CR1-B and SJGB006-CR1-B the %R values for 37Cl-2,3,7,8-TCDD (at 208 and 235%) were greater than the upper control limit. The dilution was greater than a factor of ten; no data were qualified.

Matrix Spike/Matrix Spike Duplicate

Matrix spike/matrix spike duplicate (MS/MSD) samples were not analyzed. Accuracy and precision were evaluated using the laboratory control sample/laboratory control sample duplicate (LCS/LCSD).

Laboratory Control Samples

SDG E1001177

Extraction Batch 122637: The %R values for 1,2,3,4,6,7,8-HpCDF were 138% and 129%, which are greater than the upper control limit, of 122%. Associated results were estimated (J-10).

SDG E1001178

Extraction Batch 122637: The %R values for 1,2,3,4,6,7,8-HpCDF in the LCS/LCSD were 138% and 129%, which are greater than the upper control limit of 122%. Associated results were estimated (J-10).

Extraction Batch 122639: The %R values for 1,2,3,4,6,7,8-HpCDF in the LCS/LCSD were 129% and 130%, which are greater than the upper control limit of 122%. This analyte was not detected in the associated samples and no data were qualified.

Extraction Batch 122638: The %R value for 1,2,3,4,6,7,8-HpCDF in the LCS was 124%, which is greater than the upper control limit of 122%. The %R value for the LCSD was within control limits therefore, no data were qualified for the single outlier.

Extraction Batch 124078: The %R value for 1,2,3,4,6,7,8-HpCDF in the LCSD was 123%, which is greater than the upper control limit of 122%. The %R value for the LCS was within control limits therefore, no data were qualified for the single outlier.

Field Replicates

Two-tiered acceptance criteria were used to evaluate precision. For results greater than five times (5x) the reporting limit (RL), the control limit for the relative percent difference (RPD) is 50%. For results less than 5x the RL, the absolute difference between the sample and replicate must be less than two times (2x) the RL. No data were qualified based on field replicate precision outliers. Users of the data should consider the impact of field precision outliers on the reported results.

SDG E1001177: One set of field replicates were submitted, SJGB010-2-4 & SJGB010-2-4-Dup. The RPD value for 2,3,7,8-TCDF was greater than the control limit, at 60.4%.

SDG E1001178: One set of field replicates were submitted, SJGB009-CR1-B & SJGB009-CR1-B-Dup. All field precision criteria were met.

Reported Results

Reported concentrations for several compounds (usually 2,3,7,8-TCDD and 2,3,7,8-TCDF) were greater than the calibrated linear range of the instrument; the laboratory qualified these results with an "E". Affected sample extracts were diluted and re-analyzed; both sets of data were reported and reviewed. The results for these compounds from the original analyses were qualified as do-not-report (DNR-20) and should be reported from the diluted analyses. All other results in the diluted analyses were qualified (DNR-11) and the original results should be reported. Affected samples are listed as follows.

SDG E1001177: Thirteen results for both 2,3,7,8-TCDD and 2,3,7,8-TCDF exceeded the calibrated range. Samples with these results were re-analyzed at dilution (20x, 50x, 100x or 200x).

SDG E1001178: Eleven results for 2,3,7,8-TCDD and twelve results for 2,3,7,8-TCDF exceeded the calibrated range. Samples with these results were re-analyzed at dilution (10x, 20x, 30x, 50x, or 100x).

Compound Identification

The laboratory assigned "K" flags to results where a peak was detected but did not meet ion ratio criteria. The reported values cannot be considered positive identifications for these analytes. These results were considered potential false positives or estimated maximum possible concentrations (EMPC) and were qualified as not detected (U-22) at the reported values. Laboratory blank values flagged "K" were considered non-detects.

All positive results for 2,3,7,8-TCDF were confirmed on a DB-225 column as required by the method. The 2,3,7,8-TCDF results from the DB-5 column were qualified do-not-report (DNR-11) in favor of the results from the DB-225 column.

Calculation Verification

SDG E1001177: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exception noted above, accuracy was acceptable, as demonstrated by labeled compound and LCS/LCSD %R values. Precision was also acceptable as demonstrated by the LCS/LCSD and field replicate RPD values.

Data were qualified as not detected due to ion ratio outliers and method blank contamination. Data were estimated based on LCS/LCSD %R outliers.

Data were flagged do-not-report (DNR) due to linear calibration range outliers and to indicate which result (from multiple reported analyses) should not be used. Data that has been flagged DNR should not be used for any purpose.

All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto Geotech Borings
PCB Congeners by Method 1668A

This report documents the review of analytical data from the analyses of sediment samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Houston, Texas. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
E1001177	15 Sediment	Stage 4
E1001178	4 Filter Wipes	Stage 2A

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

	Sample Receipt, Preservation, and Holding Times	1	Matrix Spike/Matrix Spike Duplicate (MS/MSD)
	GC/MS Instrument Performance Check		Laboratory Control Samples (LCS/LCSD)
	Initial Calibration (ICAL)		Reference Material (RM)
	Calibration Verification (CVER)	1	Field Replicates
	Isomer Specificity		Target Analyte List
2	Laboratory Blanks	2	Reported Results
2	Field Blanks	2	Compound Identification
2	Labeled Compound Recovery	1	Calculation Verification

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Laboratory Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the

result is qualified as not detected (U-7). If the result is also less than the reporting limit, then the result is elevated to the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks; however only the following analytes required qualification in one or more samples.

SDG E1001177: PCB 77 (2 results), PCB 105 (1 result), PCB 118 (1 result), PCB 156/157 (1 result), PCB 167 (1 result)

SDG E1001178: PCB 77 (1 result), PCB 105 (4 results), PCB 118 (4 results), PCB 156/157 (4 results)

Field Blanks

Laboratory blanks are used to evaluate all associated field blanks. The field blanks for this project were filter wipe samples. To evaluate the effect on the sample data, action levels of five times the blank concentrations were established. Sample GBFB-913C was a master filter wipe blank; it was used to evaluate all other filter wipe blanks. Any remaining positive results in other field blanks are then used to evaluate all associated samples. To evaluate the effect on the sample data, action levels of five times the blank concentrations were established. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-6). If the result is also less than the reporting limit, then the result is elevated to the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

No field sample results were qualified based on filter wipe blank contamination; these associated results were detected at levels greater than the action level.

SDG E1001178: Three filter wipe blanks, GBFB-912C, GBFB-914C, and GBFB-915C, were submitted with this SDG. Based on contamination reported in the master filter wipe GBFB-913C, results for PCB 167 were qualified as not detected (U-6) in filter wipes GBFB-912C and GBFB-915C.

A positive result remained for PCB 189 in Sample GBFB-912C after qualifiers based on method blank and GBFB-913C contaminations were issued. Positive results remained for PCB 114 and PCB 123 in Sample GBFB-915C after qualifiers based on method blank and GBFB-913C contaminations were issued. No positive results remained in Sample GBFB-914C after qualifiers based on method blank contaminations were issued.

Labeled Compound Recovery

Labeled compounds were added to all samples. The labeled compound percent recovery (%R) values were evaluated using the laboratory control limits. If the labeled compound recovery outlier value indicates high bias, positive results for the associated compounds are estimated (J-13); for outlier values indicating low bias, positive results and reporting limits for the associated compounds are estimated (J/UJ-13).

SDG E1001177: The %R values for PCB 77L and PCB 81L were greater than the upper control limit in Samples SJGB011-2-4, SJGB012-4-6, and SJGB012-6-8; PCB 77 and PCB 81 were estimated (J-13) in these samples. The %R value for PCB 77L was greater than the upper control limit in Sample SJGB011-6-8; PCB 77 and was estimated (J-13) in this sample.

The %R values for PCB 111L and PCB 178L were less than 10% Sample SJGB011-2-4 (10x dilution). These compounds are used to monitor the clean-up process and not used for any compound quantitation. The %R outliers are most likely due to the dilution factor, and qualifiers are not required.

Matrix Spike/Matrix Spike Duplicate

Matrix spike/matrix spike duplicate (MS/MSD) samples were not analyzed. Accuracy and precision were evaluated using the laboratory control sample/laboratory control sample duplicate (LCS/LCSD).

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 50% for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the absolute difference between the sample and replicate must be less than 2x the RL. No data were qualified based on field replicate precision outliers. Users of the data should consider the impact of field precision outliers on the reported results.

SDG E1001177: One set of field replicates, SJGB010-2-4 & SJGB010-2-4-DUP, was submitted. All field precision criteria were met.

Reported Results

Reported concentrations for several compounds were greater than the calibrated linear range of the instrument; the laboratory flagged these results with an "E". Affected sample extracts were diluted and re-analyzed; both sets of data were reported and reviewed. The results for these compounds from the original analyses were flagged as do-not-report (DNR-20) and should be reported from the diluted analyses. All other results in the diluted analyses were flagged as do-not-report (DNR-11) and the original results should be reported. Affected samples are listed below.

SDG E1001177: The PCB 118 result exceeded the calibrated range in Sample SJGB011-2-4. This sample was diluted (10x) and re-analyzed.

Compound Identification

The laboratory assigned K-flags to results when a peak was detected but did not meet ion ratio quantitation criteria. The reported values cannot be considered as positive identifications for these analytes. These results were considered potential false positives or estimated maximum possible concentrations (EMPC) and were qualified as not detected (U-22) at the reported values. Laboratory blank values flagged "K" were considered as non-detects.

Calculation Verification

SDG E1001177: Calculation verifications were performed for these SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by labeled compound and LCS/LCSD %R values. Precision was also acceptable as demonstrated by the LCS/LCSD and field replicate RPD values.

Data were qualified as not detected due to laboratory and field blank contamination and ion ratio outliers. Data were estimated due to labeled compound %R outliers.

Data were flagged as do-not-report (DNR) due to linear calibration range outliers and to indicate which result (from multiple reported analyses) should not be used. Data that has been flagged DNR should not be used for any purpose.

All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto Geotech Borings
Metals by Methods SW6010B, SW6020A, and SW7471A

This report documents the review of analytical data from the analyses of sediment samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1012248	13 Sediment	Stage 2B
K1012252	15 Sediment 4 Filter Wipes	Stage 3 Stage 2A

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables, with the exception noted below. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG K1012248: Raw data for mercury analysis were not included in the initial data package. The laboratory was contacted and the required forms were provided.

I. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Receipt, Preservation, and Holding Times	2	Matrix Spike Samples
	Initial Calibration	1	Laboratory Duplicates
	Continuing Calibration Verification	1	Field Replicates
	CRDL Standards		Interference Check Samples
2	Laboratory Blanks	2	Serial Dilutions
2	Field Blanks	2	ICP-MS Internal Standards
	Laboratory Control Samples (LCS/LCSD)		Reporting Limits (MDL and MRL)
	Reference Materials	1	Calculation Verification

[1] ***Quality control results are discussed below, but no data were qualified***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.7°C. These outliers did not impact data quality; no data were qualified.

Laboratory Blanks

To assess the impact of each blank contaminant on the reported sample results, an action level is established at five times the concentration detected in the blank. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-7) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level or for non-detected results.

Method and instrument blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method or instrument blanks, however only the following analytes required qualification in one or more samples:

SDG K1002252: sediment: copper, vanadium – not detected (U-7)
filter wipes: copper, manganese – not detected (U-7)

Field Blanks

Laboratory blanks are used to evaluate all associated field blanks. The field blanks for this project were filter wipe samples. To evaluate the effect on the sample data, action levels of five times the blank concentrations were established. Sample GBFB-913C was a master filter wipe blank; it was used to evaluate all other filter wipe blanks. Any remaining positive results in other field blanks are then used to evaluate all associated samples. To evaluate the effect on the sample data, action levels of five times the blank concentrations were established. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-6). If the result is also less than the reporting limit, then the result is elevated to the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

No field sample results were qualified based on filter wipe blank contamination; these associated results were detected at levels greater than the action level.

SDG K1002252: Three filter wipe blanks, GBFB-912C, GBFB-914C, and GBFB-915C, were submitted with this SDG. Based on contamination reported in the master filter wipe, GBFB-913C, barium, chromium, and thallium were qualified as not detected (U-6) in filter wipes GBFB-912C, GBFB-914C, and GBFB-915C. Positive results for aluminum, arsenic,

magnesium and zinc remained in filter wipes GBFB-912C, GBFB-914C, and GBFB-915C. A positive result for nickel remained in filter wipe Sample GBFB-912C.

Matrix Spike

SDG K1012248: The matrix spike sample (MS) analysis was performed using Sample SJGB009-CR1-A. The percent recovery (%R) value for manganese was less than the lower control limit, at 73%. Associated magnesium results were estimated (J-8) to indicate a low bias.

SDG K1012252: There was insufficient sample for MS analysis for the wipe samples. The LCS/LCSD was used to evaluate precision.

Laboratory Duplicates

SDG K1012252: There was insufficient sample for a laboratory duplicate analysis for the wipe samples. The LCS/LCSD was used to evaluate precision.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 50% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1012248: One set of field replicates, SJGB009-CR1-B and SJGB009-CR1-B-DUP, was submitted. All field precision was acceptable.

SDG K1012252: One set of field replicates, SJGB010-2-4 and SJGB010-2-4-DUP, was submitted. All field precision was acceptable.

ICP Serial Dilution

Serial dilutions were analyzed at the proper frequency of one per 20 samples or one per batch; whichever was more frequent. The percent difference (%D) values were less than the control limit of 10% for results greater than 50 times the MDL, with exceptions below. For %D outliers, all associated results were estimated (J/UJ-16).

SDG K1012248: SJGB009-CR1-A: chromium

SDG K1012252: SJGB010-0-2: chromium, vanadium

ICP-MS Internal Standards

SDG K1012252: For Sample SJGB011-2-4 the relative intensity (RI) for rhodium was less than the lower control limit of 60%, at 59%. In this sample the results for arsenic and chromium were estimated (J-19) to indicate a low bias.

Calculation Verification

SDG K1012252: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. With the exceptions noted above, accuracy was acceptable, as demonstrated by the LCS/LCSD and MS %R values. Precision was also acceptable as demonstrated by the laboratory duplicate, LCS/LCSD, and field replicate RPD values.

Data were qualified as not detected due method, instrument, and field blank contamination. Data were estimated based on MS %R and serial dilution %D outliers. Data were also estimated based on an internal standard relative intensity outlier.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto Geotech Borings
Conventional Parameters

This report documents the review of analytical data from the analysis of sediment samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1012248	13 Sediment	Stage 2B
K1012252	15 Sediment	Stage 3

The analytical tests that were performed are summarized below.

Parameter	Method
Total Organic Carbon (TOC)	SW9060M
Particle Size	PSEP
Total Solids	EPA 160.3M

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times		Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
	Initial Calibration		Laboratory Duplicates
	Calibration Verification	1	Field Replicates
	Laboratory Blanks		Reporting Limits
	Laboratory Control Samples (LCS)	1	Calculation Verification

[1] ***Quality control results are discussed below, but no data were qualified.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.7°C. These outliers did not impact data quality; no data were qualified.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 50% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1012248: One set of field replicates, SJGB009-CR1-B and SJGB009-CR1-B-DUP, was submitted. All field precision was acceptable.

SDG K1012252: One set of field replicates, SJGB010-2-4 and SJGB010-2-4-DUP, was submitted. All field precision was acceptable.

Calculation Verification

SDG K1012252: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the matrix spike/matrix spike duplicate and laboratory control sample percent recovery values. Precision was also acceptable as demonstrated by the laboratory duplicate and field replicate RPD values.

No data were qualified for any reason.

All data, as reported, are acceptable for use.

EcoChem, INC.
Environmental Data Quality

APPENDIX A

DATA QUALIFIER DEFINITIONS, REASON CODES, AND CRITERIA TABLES

DATA VALIDATION QUALIFIER CODES
Based on National Functional Guidelines

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.

DATA QUALIFIER REASON CODES

1	Holding Time/Sample Preservation
2	Chromatographic pattern in sample does not match pattern of calibration standard.
3	Compound Confirmation
4	Tentatively Identified Compound (TIC) (associated with NJ only)
5A	Calibration (initial)
5B	Calibration (continuing)
6	Field Blank Contamination
7	Lab Blank Contamination (e.g., method blank, instrument, etc.)
8	Matrix Spike(MS & MSD) Recoveries
9	Precision (all replicates)
10	Laboratory Control Sample Recoveries
11	A more appropriate result is reported (associated with “R” and “DNR” only)
12	Reference Material
13	Surrogate Spike Recoveries (a.k.a., labeled compounds & recovery standards)
14	Other (define in validation report)
15	GFAA Post Digestion Spike Recoveries
16	ICP Serial Dilution % Difference
17	ICP Interference Check Standard Recovery
18	Trip Blank Contamination
19	Internal Standard Performance (e.g., area, retention time, recovery)
20	Linear Range Exceeded
21	Potential False Positives
22	Elevated Detection Limit Due to Interference (i.e., laboratory, chemical and/or matrix)

EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C ±2°	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Holding Time	Water: 7 days from collection Soil: 14 days from collection Analysis: 40 days from extraction	Water: J(+)/UJ(-) if ext. > 7 and < 21 days J(+)/R(-) if ext > 21 days (EcoChem PJ) Solids/Wastes: J(+)/UJ(-) if ext. > 14 and < 42 days J(+)/R(-) if ext. > 42 days (EcoChem PJ) J(+)/UJ(-) if analysis >40 days	1
Tuning	DFTPP Beginning of each 12 hour period Method acceptance criteria	R(+/-) all analytes in all samples associated with the tune	5A
Initial Calibration (Minimum 5 stds.)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5A
	%RSD < 30%	(EcoChem PJ, see TM-06) J(+) if %RSD > 30%	5A
Continuing Calibration (Prior to each 12 hr. shift)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5B
	%D <25%	(EcoChem PJ, see TM-06) If > +/-90%: J+/R- If -90% to -26%: J+ (high bias) If 26% to 90%: J+/UJ- (low bias)	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample (+) result is less than CRQL and less than appropriate 5X or 10X rule (raise sample value to CRQL)	7
		U(+) if sample (+) result is greater than or equal to CRQL and less than appropriate 5X and 10X rule (at reported sample value)	7
	No TICs present	R(+) TICs using 10X rule	7
Field Blanks (Not Required)	No results > CRQL	Apply 5X/10X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One per matrix per batch Use method acceptance criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One per matrix per batch Use method acceptance criteria	J(+) in parent sample if RPD > CL	9
LCS low conc. H2O SVOA	One per lab batch Within method control limits	J(+) assoc. cmpd if > UCL J(+)/R(-) assoc. cmpd if < LCL J(+)/R(-) all cmpds if half are < LCL	10
LCS regular SVOA (H2O & solid)	One per lab batch Lab or method control limits	J(+) if %R > UCL J(+)/UJ(-) if %R <LCL J(+)/R(-) if %R < 10% (EcoChem PJ)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	Minimum of 3 acid and 3 base/neutral compounds Use method acceptance criteria	Do not qualify if only 1 acid and/or 1 B/N surrogate is out unless <10% J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) if %R < 10%	13
Internal Standards	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	J(+) if > 200% J(+)/UJ(-) if < 50% J(+)/R(-) if < 25% RT>30 seconds, narrate and Notify PM	19
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
TICs	Major ions (>10%) in reference must be present in sample; intensities agree within 20%; check identification	NJ the TIC unless: R(+) common laboratory contaminants See Technical Director for ID issues	4
Quantitation/ Identification	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	See Technical Director if outliers	14 21 (false +)

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EcoChem Validation Guidelines for Pesticides, PCBs, Herbicides, and Phenol by GC/ECD (Based on Organic NFG 1999 & EPA SW-846 Methods 8081/8082/8041/8151)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C ±2°	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Holding Time	Water: 7 days from collection Soil: 14 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext/analyzed > HT J(+)/R(-) if ext/analyzed > 3X HT (EcoChem PJ)	1
Resolution Check	Beginning of ICAL Sequence Within RTW Resolution >90%	Narrate (Use Professional Judgement to qualify)	14
Instrument Performance (Breakdown)	DDT Breakdown: < 20% Endrin Breakdown: <20% Combined Breakdown: <30% Compounds within RTW	J(+) DDT NJ(+) DDD and/or DDE R(-) DDT - If (+) for either DDE or DDD J(+) Endrin NJ(+) EK and/or EA R(-) Endrin - If (+) for either EK or EA	5A
Retention Times	Surrogates: TCX (+/- 0.05); DCB (+/- 0.10) Target compounds: elute before heptachlor epoxide (+/- 0.05) elute after heptachlor epoxide (+/- 0.07)	NJ(+)/R(-) results for analytes with RT shifts For full DV, use PJ based on examination of raw data	5B
Initial Calibration	Pesticides: Low=CRQL, Mid=4X, High=16X Multiresponse - one point Calibration %RSD<20% %RSD<30% for surr; two comp. may exceed if <30% Resolution in Mix A and Mix B >90%	J(+)/UJ(-)	5A
Continuing Calibration	Alternating PEM standard and INDA/INDB standards every 12 hours (each preceeded by an inst. Blank) %D < 25% Resolution >90% in IND mixes; 100% for PEM	J(+)/UJ(-) J(+)R(-) if %D > 90% PJ for resolution	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample result is < CRQL and < 5X rule (raise sample value to CRQL) U(+) if sample result is > or equal to CRQL and < 5X rule (at reported sample value)	7
Instrument Blanks	Analyzed at the beginning of every 12 hour sequence No analyte > 1/2 CRQL	Same as Method Blank	7
Field Blanks	Not addressed by NFG No results > CRQL	Apply 5X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Pesticides, PCBs, Herbicides, and Phenol by GC/ECD (Based on Organic NFG 1999 & EPA SW-846 Methods 8081/8082/8041/8151)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One set per matrix per batch Method Acceptance Criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One set per matrix per batch Method Acceptance Criteria	J(+) in parent sample if RPD > CL	9
LCS	One per SDG Method Acceptance Criteria	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	TCX and DCB added to every sample %R = 30-150%	J(+)/UJ(-) if both %R = 10 - 60% J(+) if both >150% J(+)/R(-) if any %R <10%	13
Quantitation/ Identification	Quantitated using ICAL calibration factor (CF) RPD between columns <40%	J(+) if RPD = 40 - 60% NJ(+) if RPD >60% EcoChem PJ - See TM-08	3
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used to avoid reporting two results for one sample	11
Sample Clean-up	GPC required for soil samples Florisil required for all samples Sulfur is optional Clean-up standard check %R within CLP limits	J(+)/UJ(-) if %R < LCL J(+) if %R > UCL	14
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate (Qualifiy if required by project QAPP)	9

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler/Storage Temperature	Waters/Solids < 4°C Tissues <-10°C	EcoChem PJ, see TM-05	1
Holding Time	Extraction - Water: 30 days from collection *Note:* Under CWA, SDWA, and RCRA the HT for H2O is 7 days* Extraction - Soil: 30 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext > 30 days J(+)/UJ(-) if analysis > 40 Days EcoChem PJ, see TM-05	1
Mass Resolution	>=10,000 resolving power at m/z 304.9824 Exact mass of m/z 380.9760 w/in 5 ppm of theoretical value (380.97410 to 380.97790) . Analyzed prior to ICAL and at the start and end of each 12 hr. shift	R(+/-) if not met	14
Window Defining Mix and Column Performance Mix	Window defining mixture/Isomer specificity std run before ICAL and CCAL Valley < 25% (valley = (x/y)*100%) x = ht. of TCDD y = baseline to bottom of valley For all isomers eluting near 2378-TCDD/TCDF isomers (TCDD only for 8290)	J(+) if valley > 25%	5A (ICAL) 5B (CCAL
Initial Calibration	Minimum of five standards %RSD < 20% for native compounds %RSD <30% for labeled compounds (%RSD <35% for labeled compounds under 1613b)	J(+) natives if %RSD > 20%	5A
	Abs. RT of $^{13}C_{12}$-1234-TCDD >25 min on DB5 >15 min on DB-225	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10 for all native and labeled compounds in CS1 std.	If <10, elevate Det. Limit or R(-)	

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Continuing Calibration	Analyzed at the start and end of each 12 hour shift. %D+/-20% for native compounds %D +/-30% for labeled compounds (Must meet limits in Table 6, Method 1613B) (If %Ds in the closing CCAL are w/in 25%/35% the avg RF from the two CCAL may be used to calculate samples per Method 8290, Section 8.3.2.4)	Do not qualify labeled compounds. Narrate in report for labeled compound %D outliers. For native compound %D outliers: 8290: J(+)/UJ(-) if %D = 20% - 75% J(+)/R(-) if %D > 75% 1613: J(+)/UJ(-) if %D is outside Table 6 limits J(+)/R(-) if %D is +/- 75% of Table 6 limit	5B
	Abs. RT of $^{13}C_{12}$-1234-TCDD and $^{13}C12$-123789-HxCDD +/- 15 sec of ICAL.	EcoChem PJ, see ICAL section of TM-05	
	RRT of all other compounds must meet Table 2 of 1613B.	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10	If <10, elevate Det. Limit or R(-)	
Method Blank	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	7
Field Blanks (Not Required)	No positive results	If sample result <5X action level, qualify U at reported value.	6
LCS / OPR	Concentrations must meet limits in Table 6, Method 1613B or lab limits.	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
MS/MSD (recovery)	May not analyze MS/MSD %R should meet lab limits.	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	May not analyze MS/MSD RPD < 20%	J(+) in parent sample if RPD > CL	9

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Lab Duplicate	RPD <25% if present.	J(+)/UJ(-) if outside limts	9
Labeled Compounds / Internal Standards	*Method 8290:* %R = 40% - 135% in all samples *Method 1613B:* %R must meet limits specified in Table 7, Method 1613	J(+)/UJ(-) if %R = 10% to LCL J(+) if %R > UCL J(+)/R(-) if %R < 10%	13
Quantitation/ Identification	Ions for analyte, IS, and rec. std. must max w/in 2 sec. S/N >2.5 IA ratios meet limits in Table 9 of 1613B or Table 8 of 8290 RRTs w/in limits in Table 2 of 1613B	If RT criteria not met, use PJ (see TM-05) If S/N criteria not met, J(+). if unlabelled ion abundance not met, change to EMPC If labelled ion abundance not met, J(+).	21
EMPC (estimated maximum possible concentration)	If quantitation idenfication criteria are not met, laboratory should report an EMPC value.	If laboratory correctly reported an EMPC value, qualify with U to indicate that the value is a detection limit.	14
Interferences	PCDF interferences from PCDPE	If both detected, change PCDF result to EMPC	14
Second Column Confirmation	All 2378-TCDF hits must be confirmed on a DB-225 (or equiv) column. All QC specs in this table must be met for the confirmation analysis.	Report lower of the two values. If not performed use PJ (see TM-05).	3
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used	11

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EcoChem Validation Guidelines for PCB Congener Analysis by HRMS (Based on EPA Reg. 10 SOP, Rev. 1, 12/1995 & EPA SW-846, Method 1668)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler/Storage Temperature	Waters/Solids <4°C Tissues <-10°C	EcoChem PJ, see TM-05	1
Holding Time	Samples: Up to one year if stored in the dark & temp as above. Extracts: Up to 1 year if stored at <-10°C and in the dark	J(+)/UJ(-) if HT > 1 year EcoChem PJ, see TM-05	1
Mass Resolution	>=10,000 resolving power at m/z 330.9792 <5 ppm deviation from each m/z listed in Table 7 of method. Analyzed prior to ICAL and at the beginning and end of each 12 hr. shift	R(+/-) if not met	14
Column Resolution 209 Congener Solution	Mix of all 209 PCBs run prior to each ICAL and each 12 hour shift RT of PCB209 must be > 55 min PCB 156 & 157 must coelute w/in 2 sec PCB34 & 23 and PCB187 & 182 must be resolved where ((x/y)*100%) < 40% x = ht. of valley and y = ht of shortest peak	J(+) if valley >40%	5A (ICAL) 5B (CCAL)
Initial Calibration	Minimum of five standards %RSD < 20% for native compounds %RSD < 35% for labeled compounds	J(+) natives if %RSD > 20%	5A
	Ion Abundance ratios within QC limits (Method 1668, Table 8) in CS1 std.	EcoChem PJ, see TM-05	
	S/N ratio > 10 for all native and labeled compounds in CS1 std.	If <10, elevate Det. Limit or R(-)	
Continuing Calibration	Every 12 hours: Concentrations must meet criteria specified in Method 1668, Table 6	J(+)/(UJ(-) natives if %D = 30% - 50% J(+)/R(-) natives if %D > 75%	5B
	Absolute RT of all Labelled Compounds and Window Defining Congeners must be +/- 15 sec of RT in ICAL RRT of all compounds must meet Table 2 of method.	EcoChem PJ, see ICAL section of TM-05	
	S/N ratio > 10	If <10, elevate Det. Limit or R(-)	
	Ion Abundance ratios must meet criteria specified in Method 1668, Table 8	EcoChem PJ, see TM-05	
Method Blank	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	7

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EcoChem Validation Guidelines for PCB Congener Analysis by HRMS (Based on EPA Reg. 10 SOP, Rev. 1, 12/1995 & EPA SW-846, Method 1668)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Rinse/Field Blank (if required)	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	6
LCS / OPR	One per matrix per batch %R Values w/in limits specified in Method 1668, Table 6	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
MS/MSD (if required)	Accuracy: %R values within laboratory limits	Qualify parent sample only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
	Precision: RPD < 20%	J(+) in parent sample if RPD > 20%	9
Duplicate (if required)	RPD <25%	J(+)/UJ(-) if outside limts	9
Labeled Compounds / Internal Standards	%R must meet limits specified in Method 1668, Table 6.	J(+)/UJ(-) if %R = 10% to LCL J(+) if %R > UCL J(+)/R(-) if %R < 10%	13
Quantitation/ Identification	Ions for analyte, IS, and rec. std. must max w/in 2 sec. S/N >2.5 Ion abundance (IA ratios) must meet limits stated in Table 8 of Method 1668 Relative retention times (RRT) must be w/in limits stated in Table 2 of Method 1668	If RT criteria not met, use PJ (see TM-05) J(+) if S/N criteria not met if unlabelled ion abundance not met, change to EMPC J(+) if labelled ion abundance not met.	21
Interferences	Lock masses must not deviate +/- 20%	Change result to EMPC	14
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used to avoid reporting two results for one sample	11

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EcoChem Validation Guidelines for Metals Analysis by ICP (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration Tissues: Frozen	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, r > 0.995	J(+)/UJ(-) if r < 0.995 (multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±10% of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within ±10% of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B

Initial and Continuing Calibration Blank (ICB/CCB)	After each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		(Refer to TM-02 for additional information)
			7

Reporting Limit Standard	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Sb, Pb, Tl)	R(-)/J(+) < 2x RL if %R <50% (< 30% Sb, Pb, Tl) J(+) < 2x RL, UJ(-) if %R 50-69% (30-49% Sb, Pb,Tl) J(+) < 2x RL if %R 130-180% (150-200% Sb, Pb, Tl) R(+) < 2x RL if %R > 180% (200% Sb, Pb, Tl)	14
Interference Check Samples (ICSA/ICSAB)	ICSAB %R 80 - 120% for all spiked elements | ICSA | < MDL for all unspiked elements except: K, Na	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R >120% J(+)/UJ(-) if %R= 50 to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	

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EcoChem Validation Guidelines for Metals Analysis by ICP
(Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Matrix Spikes	One per matrix per batch 75-125% for samples less than 4x spike level	J(+) if %R > 125% J(+)/UJ(-) if %R < 75% J(+)/R(-) if %R < 30% or J(+)/UJ(-) if Post Spike %R 75-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, spike at twice the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples >RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL (2x RL for solids) qualify all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample conc. > 50x MDL	J(+)/UJ(-) if %D >10% qualify all samples in batch	16
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

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EcoChem Validation Guidelines for Metals Analysis by ICP-MS (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Tune	Prior to ICAL monitoring compounds analyzed 5 times wih Std Dev. ≤ 5% mass calibration <0.1 amu from True Value Resolution < 0.9 AMU @ 10% peak height or <0.75 amu @ 5% peak height	Use Professional Judgment to evaluate tune J(+)/UJ(-) if tune criteria not met	5A
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, r>0.995	J(+)/UJ(-) if r<0.995 (for multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±10% of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run ±10% of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B

Initial and Continuing Calibration Blanks (ICB/CCB)	After each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Reporting Limit Standard (CRI)	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Co,Mn, Zn)	R(-),(+) < 2x RL if %R < 50% (< 30% Co,Mn, Zn) J(+) < 2x RL, UJ(-) if %R 50-69% (30%-49% Co,Mn, Zn) J(+) < 2x RL if %R 130%-180% (150%-200% Co,Mn, Zn) R(+) < 2x RL if %R > 180% (200% Co, Mn, Zn)	14
Interference Check Samples (ICSA/ICSAB)	Required by SW 6020, but not 200.8 ICSAB %R 80% - 120% for all spiked elements | ICSA | < IDL (MDL) for all unspiked elements	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R >120% J(+)/UJ(-) if %R = 50% to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7

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EcoChem Validation Guidelines for Metals Analysis by ICP-MS
(Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Laboratory Control Sample (LCS)	One per matrix per batch Blank Spike: %R within 80%-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spike/ Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 75-125% for samples where results do not exceed 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R <75% J(+)/R(-) if %R<30% or J(+)/UJ(-) if Post Spike %R 75%-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, Spike parent sample at 2x the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5 x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample values > 50x MDL	J(+)/UJ(-) if %D >10% All samples in batch	16
Internal Standards	Every sample SW6020: 60%-125% of cal blank IS 200.8: 30%-120% of cal blank IS	J (+)/UJ (-) all analytes associated with IS outlier	19
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < AL in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	28 days from date sampled Frozen tissues: HT extended to 6 months	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + 4 standards, one at RL r > 0.995	J(+)/UJ(-) if r<0.995	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5B

Initial and Continuing Calibration Blanks (ICB/CCB)	after each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Reporting Limit Standard (CRA)	conc at RL - analyzed beginning of run %R = 70-130%	R(-),(+)<2xRL if %R <50% J(+)<2x RL, UJ(-) if %R 50-69% J(+) <2x RL if %R 130-180% R(+)<2x RL if %R>180%	14
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch		10
	Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 5% frequency 75-125% for samples less than 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R <75% J(+)/R(-) if %R<30% all samples in batch	8
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9

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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5x RL: Water: Diff<RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must be less than 110% of high standard	J values over range	20

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EcoChem Validation Guidelines for Conventional Chemistry Analysis (Based on EPA Standard Methods)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler Temperature 4°C ±2°C Preservation: Method Specific	Use Professional Judgment to qualify based to qualify for coole temp outliers J(+)/UJ(-) if preservation requirements not met	1
Holding Time	Method Specific	Professional Judgment J(+)/UJ(-) if holding time exceeded J(+)/R(-) if HT exceeded by > 3X	1
Initial Calibration	Method specific r>0.995	Use professional judgment J(+)/UJ(-) for r < 0.995	5A
Initial Calibration Verification (ICV)	Where applicable to method Independent source analyzed immediately after calibration %R method specific, usually 90% - 110%	R(+/-) if %R significantly < LCL J(+)/UJ(-) if %R < LCL J(+) if %R > UCL R(+) if %R significantly > UCL	5A
Continuing Cal Verification (CCV)	Where applicable to method Every ten samples, immed. following ICV/ICB and end of run %R method specific, usually 90% - 110%	R(+/-) if %R significantly < LCL J(+)/UJ(-) if %R < LCL J(+) if %R > UCL R(+) if %R significantly > UCL	5B

Initial and Continuing Cal Blanks (ICB/CCB)	Where applicable to method
	After each ICV and CCV every ten samples and end of run
	| blank| < MDL
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Method Blank	One per matrix per batch
	(not to exceed 20 samples)
	blank < MDL
		Action level is 5x absolute value of blank conc.
		For (+) blk value, U(+) results < action level
		For (-) blk value, J(+)/UJ(-) results < action level
			7

Laboratory Control Sample	Waters: One per matrix per batch %R (80-120%)	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	Soils: One per matrix per batch Result within manufacturer's certified acceptance range	J(+)/UJ(-) if < LCL, J(+) if > UCL	10
Matrix Spike	One per matrix per batch; 5% frequency 75-125% for samples less than 4 x spike level	J(+) if %R > 125% or < 75% UJ(-) if %R = 30-74% R(+/-) results < IDL if %R < 30%	8
Laboratory Duplicate	One per matrix per batch RPD <20% for samples > 5x RL Diff <RL for samples >RL and <5 x RL (may use RPD < 35%, Diff < 2X RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9

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EcoChem Validation Guidelines for Conventional Chemistry Analysis (Based on EPA Standard Methods)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Field Blank	blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5X RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff<RL Solid: Diff < 2X RL	J(+)/UJ(-) in parent samples only	9

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Environmental Data Quality

APPENDIX B
QUALIFIED DATA SUMMARY TABLE

Qualified Data Summary Table
San Jacinto Waste Pits
Geotech Borings

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	147	ng/kg	BJ,D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	271	ng/kg		J	10
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	217	ng/kg	D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	93.2	ng/kg	J,D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	7.77	ng/kg	U,D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	831	ng/kg	D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	13.5	ng/kg	U,D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	208	ng/kg	J,D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	9.46	ng/kg	U,D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	6.32	ng/kg	U,D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	23.4	ng/kg	J,D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	357	ng/kg	D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	23.4	ng/kg	J,D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	204	ng/kg	J,D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	3300	ng/kg	E	DNR	20
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	10900	ng/kg	C,D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	8010	ng/kg	E	DNR	20
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	11700	ng/kg	CE	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	Octachlorodibenzo-p-dioxin	1290	ng/kg	B,D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1613B	Octachlorodibenzo-p-furan	93.7	ng/kg	JK,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	292	ng/kg	BJK,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	888	ng/kg		J	10
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	870	ng/kg	J,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	45.1	ng/kg	U,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39.5	ng/kg	U,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	3340	ng/kg	D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	70.4	ng/kg	U,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	954	ng/kg	J,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	51	ng/kg	U,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	44.3	ng/kg	U,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	47.7	ng/kg	U,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1870	ng/kg	J,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	138	ng/kg	JK,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1100	ng/kg	J,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	17600	ng/kg	E	DNR	20
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	69500	ng/kg	C,D	DNR	11

Qualified Data Summary Table
San Jacinto Waste Pits
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	62100	ng/kg	CE	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	71800	ng/kg	E	DNR	20
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	Octachlorodibenzo-p-dioxin	3330	ng/kg	BJ,D	DNR	11
E1001177	SJGB010-2-4	E1001177-002	EPA1613B	Octachlorodibenzo-p-furan	427	ng/kg	J,D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	57.2	ng/kg	BJ,D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	450	ng/kg		J	10
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	335	ng/kg	D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	120	ng/kg	J,D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.467	ng/kg	JK	U	22
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	4.73	ng/kg	U,D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1710	ng/kg	D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	8.93	ng/kg	U,D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	504	ng/kg	D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	6.23	ng/kg	U,D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	13.5	ng/kg	JK,D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	27.2	ng/kg	JK,D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	936	ng/kg	D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	7.95	ng/kg	JK,D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	357	ng/kg	D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	5300	ng/kg	E	DNR	20
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	13300	ng/kg	E	DNR	20
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	16100	ng/kg	CE	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	13400	ng/kg	C,D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	Octachlorodibenzo-p-dioxin	674	ng/kg	B,D	DNR	11
E1001177	SJGB010-4-6	E1001177-003	EPA1613B	Octachlorodibenzo-p-furan	118	ng/kg	J,D	DNR	11
E1001177	SJGB010-6-7.2	E1001177-004	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	6.44	ng/kg		J	10
E1001177	SJGB010-6-7.2	E1001177-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	558	ng/kg	CE	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	292	ng/kg	BJ,D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	670	ng/kg		J	10
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	738	ng/kg	J,D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	249	ng/kg	J,D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	37.3	ng/kg	U,D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	2460	ng/kg	D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	69.9	ng/kg	U,D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	618	ng/kg	JK,D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	46.7	ng/kg	U,D	DNR	11

Qualified Data Summary Table
San Jacinto Waste Pits
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	21.8	ng/kg	K	U	22
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	26	ng/kg	U,D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	154	ng/kg	J,D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1600	ng/kg	D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	28.7	ng/kg	U,D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	963	ng/kg	J,D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	13400	ng/kg	E	DNR	20
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	59000	ng/kg	C,D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	41800	ng/kg	E	DNR	20
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	51400	ng/kg	CE	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	Octachlorodibenzo-p-dioxin	2940	ng/kg	B,D	DNR	11
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1613B	Octachlorodibenzo-p-furan	405	ng/kg	JK,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	50.5	ng/kg	U,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	744	ng/kg		J	10
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	746	ng/kg	J,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	244	ng/kg	J,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	30.4	ng/kg	U,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	2290	ng/kg	D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	51.2	ng/kg	U,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	527	ng/kg	JK,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	36.2	ng/kg	U,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	32.4	ng/kg	U,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	54.1	ng/kg	U,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1280	ng/kg	D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	34.5	ng/kg	U,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	780	ng/kg	J,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	9130	ng/kg	E	DNR	20
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	10500	ng/kg	E	DNR	20
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	36400	ng/kg	CE	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	40500	ng/kg	C,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	Octachlorodibenzo-p-dioxin	1470	ng/kg	BJ,D	DNR	11
E1001177	SJGB011-0-2	E1001177-006	EPA1613B	Octachlorodibenzo-p-furan	379	ng/kg	J,D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	145	ng/kg	BJ,D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	548	ng/kg		J	10
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	661	ng/kg	J,D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	214	ng/kg	J,D	DNR	11

Qualified Data Summary Table
San Jacinto Waste Pits
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	42.4	ng/kg	U,D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	2630	ng/kg	D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	73.7	ng/kg	U,D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	759	ng/kg	J,D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	51.3	ng/kg	U,D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	26	ng/kg	U,D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	48.3	ng/kg	U,D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1920	ng/kg	D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	122	ng/kg	JK,D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1060	ng/kg	J,D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	10900	ng/kg	E	DNR	20
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	32100	ng/kg	E	DNR	20
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	50700	ng/kg	C,D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	39700	ng/kg	CE	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	Octachlorodibenzo-p-dioxin	1090	ng/kg	BJ,D	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1613B	Octachlorodibenzo-p-furan	232	ng/kg	JK,D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	116	ng/kg	BJK,D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	480	ng/kg	J,D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	423	ng/kg		J	10
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	143	ng/kg	JK,D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	19.1	ng/kg	U,D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.655	ng/kg	JK	U	22
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1780	ng/kg	D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	35.4	ng/kg	U,D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	431	ng/kg	J,D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	24.2	ng/kg	U,D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	23.3	ng/kg	JK,D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	37.8	ng/kg	U,D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1100	ng/kg	D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	47.8	ng/kg	JK,D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	548	ng/kg	D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	5920	ng/kg	E	DNR	20
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	10500	ng/kg	E	DNR	20
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	22400	ng/kg	C,D	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	18900	ng/kg	CE	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	Octachlorodibenzo-p-dioxin	1240	ng/kg	B,D	DNR	11

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001177	SJGB011-4-6	E1001177-008	EPA1613B	Octachlorodibenzo-p-furan	216	ng/kg	JK,D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	181	ng/kg	BJ,D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	653	ng/kg	D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	804	ng/kg		J	10
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	190	ng/kg	J,D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	6.14	ng/kg	U,D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	2450	ng/kg	D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	11.3	ng/kg	U,D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	668	ng/kg	D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	7.96	ng/kg	U,D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.02	ng/kg	JK	U	22
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	14.3	ng/kg	JK,D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	64.7	ng/kg	JK,D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1500	ng/kg	D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	26.4	ng/kg	JK,D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	736	ng/kg	D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	11500	ng/kg	E	DNR	20
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	38000	ng/kg	CE	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	25400	ng/kg	E	DNR	20
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	36500	ng/kg	C,D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	Octachlorodibenzo-p-dioxin	1990	ng/kg	B,D	DNR	11
E1001177	SJGB011-6-8	E1001177-009	EPA1613B	Octachlorodibenzo-p-furan	343	ng/kg	J,D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	63.1	ng/kg	BJK,D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	288	ng/kg		J	10
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	340	ng/kg	J,D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	101	ng/kg	J,D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	7.22	ng/kg	U,D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1340	ng/kg	D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	11.2	ng/kg	U,D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	316	ng/kg	JK,D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	8.65	ng/kg	U,D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	11.7	ng/kg	U,D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	12.1	ng/kg	K	U	22
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	46.2	ng/kg	JK,D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	694	ng/kg	D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	64.5	ng/kg	J,D	DNR	11

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	349	ng/kg	J,D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	6220	ng/kg	E	DNR	20
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	13300	ng/kg	E	DNR	20
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	18200	ng/kg	C,D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	16600	ng/kg	CE	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	Octachlorodibenzo-p-dioxin	1190	ng/kg	B,D	DNR	11
E1001177	SJGB011-8-10	E1001177-010	EPA1613B	Octachlorodibenzo-p-furan	113	ng/kg	J,D	DNR	11
E1001177	SJGB011-10-11.5	E1001177-011	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.134	ng/kg	J	J	10
E1001177	SJGB011-10-11.5	E1001177-011	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.431	ng/kg	JK	U	22
E1001177	SJGB011-10-11.5	E1001177-011	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.168	ng/kg	JK	U	22
E1001177	SJGB011-10-11.5	E1001177-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	6.54	ng/kg	C	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	71	ng/kg	BJ,D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	223	ng/kg	D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	196	ng/kg		J	10
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	56.1	ng/kg	J,D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	3.91	ng/kg	U,D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.473	ng/kg	JK	U	22
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	780	ng/kg	D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	5.65	ng/kg	U,D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	156	ng/kg	J,D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	4.56	ng/kg	U,D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	7.8	ng/kg	U,D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	21.9	ng/kg	JK,D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	352	ng/kg	D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	35.1	ng/kg	J,D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	170	ng/kg	J,D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2920	ng/kg	E	DNR	20
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	9240	ng/kg	CE	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	9880	ng/kg	C,D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	5280	ng/kg	E	DNR	20
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	Octachlorodibenzo-p-dioxin	1190	ng/kg	B,D	DNR	11
E1001177	SJGB012-0-2	E1001177-012	EPA1613B	Octachlorodibenzo-p-furan	155	ng/kg	J,D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	355	ng/kg	BJ,D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	840	ng/kg	J,D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	667	ng/kg		J	10
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	264	ng/kg	J,D	DNR	11

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	17.6	ng/kg	U,D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	3430	ng/kg	D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	27.7	ng/kg	U,D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	819	ng/kg	J,D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	21.4	ng/kg	U,D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	22.3	ng/kg	U,D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	110	ng/kg	JK,D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1670	ng/kg	D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	151	ng/kg	J,D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	1000	ng/kg	J,D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	14300	ng/kg	E	DNR	20
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	51100	ng/kg	CE	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	48900	ng/kg	E	DNR	20
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	66300	ng/kg	C,D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	Octachlorodibenzo-p-dioxin	3990	ng/kg	B,D	DNR	11
E1001177	SJGB012-2-4	E1001177-013	EPA1613B	Octachlorodibenzo-p-furan	384	ng/kg	JK,D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	237	ng/kg	BJK,D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	817	ng/kg	D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	623	ng/kg		J	10
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	187	ng/kg	JK,D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	6.96	ng/kg	U,D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	3230	ng/kg	D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	11.4	ng/kg	U,D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	870	ng/kg	D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	8.63	ng/kg	U,D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	15.2	ng/kg	U,D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	109	ng/kg	JK,D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1710	ng/kg	D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	118	ng/kg	JK,D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	991	ng/kg	D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	14600	ng/kg	E	DNR	20
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	49700	ng/kg	CE	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	60900	ng/kg	C,D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	18800	ng/kg	E	DNR	20
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	Octachlorodibenzo-p-dioxin	4140	ng/kg	B,D	DNR	11
E1001177	SJGB012-4-6	E1001177-014	EPA1613B	Octachlorodibenzo-p-furan	418	ng/kg	J,D	DNR	11

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	265	ng/kg	BJ,D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	364	ng/kg		J	10
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	413	ng/kg	J,D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	110	ng/kg	JK,D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	6.15	ng/kg	U,D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.03	ng/kg	JK	U	22
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1590	ng/kg	D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	10.1	ng/kg	U,D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	414	ng/kg	J,D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	7.57	ng/kg	U,D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	11.2	ng/kg	U,D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	91.8	ng/kg	JK,D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1020	ng/kg	D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	75.2	ng/kg	J,D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	685	ng/kg	D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	11000	ng/kg	E	DNR	20
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	40900	ng/kg	C,D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	15800	ng/kg	E	DNR	20
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	35300	ng/kg	CE	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	Octachlorodibenzo-p-dioxin	3020	ng/kg	B,D	DNR	11
E1001177	SJGB012-6-8	E1001177-015	EPA1613B	Octachlorodibenzo-p-furan	169	ng/kg	JK,D	DNR	11
E1001178	GBFB-914C	E1001178-001	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.8	pg	BJK	U	22
E1001178	GBFB-914C	E1001178-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	100	pg	C	DNR	11
E1001178	GBFB-914C	E1001178-001	EPA1613B	Octachlorodibenzo-p-dioxin	10.9	pg	BJ	U	7
E1001178	GBFB-913C	E1001178-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	8.27	pg	CJ	DNR	11
E1001178	GBFB-913C	E1001178-002	EPA1613B	Octachlorodibenzo-p-dioxin	5.91	pg	BJ	U	7
E1001178	GBFB-912C	E1001178-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	11	pg	C	DNR	11
E1001178	GBFB-912C	E1001178-003	EPA1613B	Octachlorodibenzo-p-dioxin	5.34	pg	BJK	U	22
E1001178	GBFB-915C	E1001178-004	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.47	pg	JK	U	22
E1001178	GBFB-915C	E1001178-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	6.93	pg	JK	U	22
E1001178	GBFB-915C	E1001178-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	25.1	pg	C	DNR	11
E1001178	GBFB-915C	E1001178-004	EPA1613B	Octachlorodibenzo-p-dioxin	5.74	pg	BJ	U	7
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	185	ng/kg	BJK,D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	764	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	668	ng/kg		J	10
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	261	ng/kg	D	DNR	11

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	4.2	ng/kg	U,D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.859	ng/kg	JK	U	22
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	2710	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	6.15	ng/kg	U,D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	757	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	4.94	ng/kg	U,D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	13.9	ng/kg	U,D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	60.1	ng/kg	JK,D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1100	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	99.8	ng/kg	JK,D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	508	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	7700	ng/kg	E	DNR	20
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	23200	ng/kg	C,D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	10400	ng/kg	E	DNR	20
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	21000	ng/kg	CE	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	Octachlorodibenzo-p-dioxin	2590	ng/kg	B,D	DNR	11
E1001178	SJGB009-CR1-A	E1001178-005	EPA1613B	Octachlorodibenzo-p-furan	418	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	158	ng/kg	BJK,D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	688	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	640	ng/kg		J	10
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	204	ng/kg	JK,D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	11.9	ng/kg	U,D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	3090	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	17.7	ng/kg	U,D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	659	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	13.9	ng/kg	U,D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	20.4	ng/kg	U,D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	68.2	ng/kg	J,D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1370	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	112	ng/kg	J,D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	577	ng/kg	J,D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	9030	ng/kg	E	DNR	20
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	27200	ng/kg	CE	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	21000	ng/kg	E	DNR	20
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	28900	ng/kg	C,D	DNR	11
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	Octachlorodibenzo-p-dioxin	1710	ng/kg	B,D	DNR	11

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001178	SJGB009-CR1-B	E1001178-006	EPA1613B	Octachlorodibenzo-p-furan	372	ng/kg	JK,D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	217	ng/kg	BJ,D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	925	ng/kg		J	10
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	975	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	337	ng/kg	J,D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	13.1	ng/kg	U,D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	4110	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	21	ng/kg	U,D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	858	ng/kg	K,D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	15.5	ng/kg	U,D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	16	ng/kg	U,D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	104	ng/kg	J,D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1640	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	94	ng/kg	JK,D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	704	ng/kg	D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	9490	ng/kg	E	DNR	20
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	29600	ng/kg	CE	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	35000	ng/kg	C,D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	22700	ng/kg	E	DNR	20
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	Octachlorodibenzo-p-dioxin	2140	ng/kg	B,D	DNR	11
E1001178	SJGB009-CR1-B-DUP	E1001178-007	EPA1613B	Octachlorodibenzo-p-furan	469	ng/kg	J,D	DNR	11
E1001178	SJGB001-CR1-A	E1001178-008	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	23.6	ng/kg		J	10
E1001178	SJGB001-CR1-A	E1001178-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1320	ng/kg	E	DNR	20
E1001178	SJGB001-CR1-A	E1001178-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	1550	ng/kg	CE	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	22.5	ng/kg	BJK,D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	82.8	ng/kg		J	10
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	82.8	ng/kg	J,D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	30	ng/kg	J,D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	4	ng/kg	U,D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	480	ng/kg	D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	6.04	ng/kg	U,D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	128	ng/kg	J,D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	4.67	ng/kg	U,D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	4.98	ng/kg	U,D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	13.1	ng/kg	JK,D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	441	ng/kg	D	DNR	11

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	31.8	ng/kg	J,D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	276	ng/kg	D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1580	ng/kg	E	DNR	20
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	4800	ng/kg	E	DNR	20
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	7000	ng/kg	C,D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	6250	ng/kg	CE	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	Octachlorodibenzo-p-dioxin	310	ng/kg	BJ,D	DNR	11
E1001178	SJGB001-CR1-B	E1001178-009	EPA1613B	Octachlorodibenzo-p-furan	48.8	ng/kg	JK,D	DNR	11
E1001178	SJGB012-CR1-A	E1001178-010	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.523	ng/kg	JK	U	22
E1001178	SJGB012-CR1-A	E1001178-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	515	ng/kg	BCE	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	118	ng/kg	J,D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	215	ng/kg	JK,D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	75.4	ng/kg	JK,D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39.9	ng/kg	U,D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	905	ng/kg	D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	54.1	ng/kg	U,D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	269	ng/kg	J,D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	42.6	ng/kg	U,D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	31.7	ng/kg	U,D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	44.9	ng/kg	U,D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	503	ng/kg	D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	30.5	ng/kg	U,D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	290	ng/kg	J,D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	5640	ng/kg	BE	DNR	20
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	15700	ng/kg	BC,D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	16300	ng/kg	E	DNR	20
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	20700	ng/kg	BCEP	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	Octachlorodibenzo-p-dioxin	1710	ng/kg	B,D	DNR	11
E1001178	SJGB012-CR1-B	E1001178-011	EPA1613B	Octachlorodibenzo-p-furan	164	ng/kg	JK,D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	62.9	ng/kg	JK,D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	359	ng/kg	J,D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	126	ng/kg	JK,D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	20.1	ng/kg	U,D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1800	ng/kg	D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.94	ng/kg	JK	U	22
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	29.4	ng/kg	U,D	DNR	11

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	468	ng/kg	D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	22.5	ng/kg	U,D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	16.6	ng/kg	U,D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	30.4	ng/kg	U,D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	781	ng/kg	D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	62.9	ng/kg	JK,D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	320	ng/kg	J,D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	4530	ng/kg	BE	DNR	20
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	12700	ng/kg	E	DNR	20
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	15400	ng/kg	BC,D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	16700	ng/kg	BCEP	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	Octachlorodibenzo-p-dioxin	1270	ng/kg	B,D	DNR	11
E1001178	SJGB010-CR1-A	E1001178-012	EPA1613B	Octachlorodibenzo-p-furan	170	ng/kg	J,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	589	ng/kg	J,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	559	ng/kg	J,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	164	ng/kg	J,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.704	ng/kg	JK	U	22
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	41.2	ng/kg	U,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	2360	ng/kg	D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	65.6	ng/kg	U,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	682	ng/kg	J,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	48	ng/kg	U,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	29.6	ng/kg	U,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	55.1	ng/kg	U,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1230	ng/kg	D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	30.3	ng/kg	U,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	661	ng/kg	J,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	10300	ng/kg	BE	DNR	20
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	35700	ng/kg	BCEP	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	39500	ng/kg	BC,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	31300	ng/kg	E	DNR	20
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	Octachlorodibenzo-p-dioxin	5700	ng/kg	B,D	DNR	11
E1001178	SJGB010-CR1-B	E1001178-013	EPA1613B	Octachlorodibenzo-p-furan	323	ng/kg	J,D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	80.4	ng/kg	JK,D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	334	ng/kg	D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	126	ng/kg	J,D	DNR	11

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	16	ng/kg	U,D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1650	ng/kg	D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	21.1	ng/kg	U,D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	392	ng/kg	D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	17.2	ng/kg	U,D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	26.7	ng/kg	U,D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	39.6	ng/kg	JK,D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	664	ng/kg	D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	70.5	ng/kg	J,D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	321	ng/kg	D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	3680	ng/kg	BE	DNR	20
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	10600	ng/kg	E	DNR	20
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	13800	ng/kg	BCE	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	13400	ng/kg	BC,D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	Octachlorodibenzo-p-dioxin	965	ng/kg	B,D	DNR	11
E1001178	SJGB011-CR1-A	E1001178-014	EPA1613B	Octachlorodibenzo-p-furan	124	ng/kg	JK,D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	54.8	ng/kg	U,D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	409	ng/kg	J,D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	145	ng/kg	J,D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	28.4	ng/kg	U,D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.508	ng/kg	JK	U	22
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1590	ng/kg	D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	41.4	ng/kg	U,D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	437	ng/kg	J,D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.5	ng/kg	JK	U	22
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	31.5	ng/kg	U,D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	29.9	ng/kg	U,D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	34.7	ng/kg	U,D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	772	ng/kg	D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	29	ng/kg	U,D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	390	ng/kg	J,D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	6210	ng/kg	BE	DNR	20
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	17800	ng/kg	E	DNR	20
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	24100	ng/kg	BCE	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	21700	ng/kg	BC,D	DNR	11
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	Octachlorodibenzo-p-dioxin	697	ng/kg	BJ,D	DNR	11

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1001178	SJGB011-CR1-B	E1001178-015	EPA1613B	Octachlorodibenzo-p-furan	205	ng/kg	J,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	21.4	ng/kg	U,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	198	ng/kg	J,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	36	ng/kg	JK,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	9.63	ng/kg	U,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	587	ng/kg	D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	14	ng/kg	U,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	154	ng/kg	J,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	10.8	ng/kg	U,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	13	ng/kg	U,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	16.5	ng/kg	U,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	196	ng/kg	J,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	11.1	ng/kg	U,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	143	ng/kg	J,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1420	ng/kg	BE	DNR	20
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	6360	ng/kg	BC,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	6770	ng/kg	BCE	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	5750	ng/kg	E	DNR	20
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	Octachlorodibenzo-p-dioxin	369	ng/kg	BJ,D	DNR	11
E1001178	SJGB006-CR1-A	E1001178-016	EPA1613B	Octachlorodibenzo-p-furan	65.6	ng/kg	JK,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	144	ng/kg	JK,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	675	ng/kg	JK,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	165	ng/kg	JK,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	23	ng/kg	U,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	2370	ng/kg	D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	37.9	ng/kg	U,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	664	ng/kg	J,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	28.1	ng/kg	U,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	41.6	ng/kg	U,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	119	ng/kg	J,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	1240	ng/kg	J,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	38.1	ng/kg	U,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	821	ng/kg	J,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	5880	ng/kg	E	DNR	20
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	31700	ng/kg	C,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	27200	ng/kg	CE	DNR	11

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E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	23300	ng/kg	E,D	DNR	20
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	Octachlorodibenzo-p-dioxin	1360	ng/kg	BJ,D	DNR	11
E1001178	SJGB006-CR1-B	E1001178-017	EPA1613B	Octachlorodibenzo-p-furan	529	ng/kg	J,D	DNR	11
E1001177	SJGB010-0-2	E1001177-001	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	27.6	ng/kg	JK	U	22
E1001177	SJGB010-2-4	E1001177-002	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	58	ng/kg	JK	U	22
E1001177	SJGB010-4-6	E1001177-003	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	36.6	ng/kg	JK	U	22
E1001177	SJGB010-6-7.2	E1001177-004	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	9.01	ng/kg	JK	U	22
E1001177	SJGB010-6-7.2	E1001177-004	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	10	ng/kg	BJ	U	7
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	556	ng/kg	JK	U	22
E1001177	SJGB010-2-4-DUP	E1001177-005	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	61.2	ng/kg	JK	U	22
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	2520	ng/kg	J	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	63700	ng/kg	B	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	11700	ng/kg	B	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	2220	ng/kg	J	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	165000	ng/kg	BE	DNR	20
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	3480	ng/kg	BJ	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	3,3',4,4',5,5'-Hexachlorobiphenyl	122	ng/kg	U	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	3,3',4,4',5,5'-Hexachlorobiphenyl	1350	ng/kg	K	U	22
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	143	ng/kg	J	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	1400	ng/kg	B	J	13
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	797	ng/kg	BJ	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	81.9	ng/kg	J	J	13
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	73.6	ng/kg	U	DNR	11
E1001177	SJGB011-2-4	E1001177-007	EPA1668A	Coelution of PCB 156 and 157	38400	ng/kg	B	DNR	11
E1001177	SJGB011-4-6	E1001177-008	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	39.8	ng/kg	JK	U	22
E1001177	SJGB011-6-8	E1001177-009	EPA1668A	3,3',4,4',5,5'-Hexachlorobiphenyl	698	ng/kg	JK	U	22
E1001177	SJGB011-6-8	E1001177-009	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	908	ng/kg	BJ	J	13
E1001177	SJGB011-8-10	E1001177-010	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	36	ng/kg	JK	U	22
E1001177	SJGB011-8-10	E1001177-010	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	28.5	ng/kg	JK	U	22
E1001177	SJGB011-10-11.5	E1001177-011	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	27.8	ng/kg	BJ	U	7
E1001177	SJGB011-10-11.5	E1001177-011	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	2.88	ng/kg	BJ	U	7
E1001177	SJGB011-10-11.5	E1001177-011	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	56.1	ng/kg	BJ	U	7
E1001177	SJGB011-10-11.5	E1001177-011	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	2.33	ng/kg	U	U	7
E1001177	SJGB011-10-11.5	E1001177-011	EPA1668A	Coelution of PCB 156 and 157	12.4	ng/kg	BJ	U	7
E1001177	SJGB012-0-2	E1001177-012	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	8.39	ng/kg	JK	U	22
E1001177	SJGB012-4-6	E1001177-014	EPA1668A	3,3',4,4',5,5'-Hexachlorobiphenyl	942	ng/kg	JK	U	22

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E1001177	SJGB012-4-6	E1001177-014	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	913	ng/kg	BJ	J	13
E1001177	SJGB012-6-8	E1001177-015	EPA1668A	3,3',4,4',5,5'-Hexachlorobiphenyl	165	ng/kg	JK	U	22
E1001177	SJGB012-6-8	E1001177-015	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	688	ng/kg	BJ	J	13
E1001177	SJGB012-6-8	E1001177-015	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	74.8	ng/kg	J	J	13
E1001178	GBFB-914C	E1001178-001	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	189	pg	BJ	U	7
E1001178	GBFB-914C	E1001178-001	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	24.6	pg	BJK	U	22
E1001178	GBFB-914C	E1001178-001	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	443	pg	BJ	U	7
E1001178	GBFB-914C	E1001178-001	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	12.2	pg	JK	U	22
E1001178	GBFB-914C	E1001178-001	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	12.6	pg	BJK	U	22
E1001178	GBFB-914C	E1001178-001	EPA1668A	Coelution of PCB 156 and 157	86.7	pg	BJ	U	7
E1001178	GBFB-913C	E1001178-002	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	171	pg	BJ	U	7
E1001178	GBFB-913C	E1001178-002	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	445	pg	BJ	U	7
E1001178	GBFB-913C	E1001178-002	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	14.7	pg	BJK	U	22
E1001178	GBFB-913C	E1001178-002	EPA1668A	Coelution of PCB 156 and 157	82.8	pg	BJ	U	7
E1001178	GBFB-912C	E1001178-003	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	631	pg	BJ	U	7
E1001178	GBFB-912C	E1001178-003	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	92.2	pg	BJ	U	6
E1001178	GBFB-912C	E1001178-003	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	27.3	pg	JK	U	22
E1001178	GBFB-912C	E1001178-003	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	1520	pg	BJ	U	7
E1001178	GBFB-912C	E1001178-003	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	30	pg	JK	U	22
E1001178	GBFB-912C	E1001178-003	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	28.8	pg	BJ	U	7
E1001178	GBFB-912C	E1001178-003	EPA1668A	Coelution of PCB 156 and 157	281	pg	BJ	U	7
E1001178	GBFB-915C	E1001178-004	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	8.27	pg	JK	U	22
E1001178	GBFB-915C	E1001178-004	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	639	pg	BJ	U	7
E1001178	GBFB-915C	E1001178-004	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	79.2	pg	BJ	U	6
E1001178	GBFB-915C	E1001178-004	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	1530	pg	BJ	U	7
E1001178	GBFB-915C	E1001178-004	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	20.8	pg	BJK	U	22
E1001178	GBFB-915C	E1001178-004	EPA1668A	Coelution of PCB 156 and 157	280	pg	BJ	U	7
K1014009	SJGB010-2-4-DUP	K1014009-005	SW8082_3541	Aroclor 1016	35	mg/kg	Ui	UJ	1
K1014009	SJGB010-2-4-DUP	K1014009-005	SW8082_3541	Aroclor 1221	55	mg/kg	Ui	UJ	1
K1014009	SJGB010-2-4-DUP	K1014009-005	SW8082_3541	Aroclor 1232	51	mg/kg	Ui	UJ	1
K1014009	SJGB010-2-4-DUP	K1014009-005	SW8082_3541	Aroclor 1242	33	mg/kg	Ui	UJ	1
K1014009	SJGB010-2-4-DUP	K1014009-005	SW8082_3541	Aroclor 1248	18	mg/kg	Ui	UJ	1
K1014009	SJGB010-2-4-DUP	K1014009-005	SW8082_3541	Aroclor 1254	6.8	mg/kg	Ui	UJ	1
K1014009	SJGB010-2-4-DUP	K1014009-005	SW8082_3541	Aroclor 1260	2.9	mg/kg	Ui	UJ	1
K1014009	SJGB010-2-4-DUP	K1014009-005	SW8082_3541	Aroclor 1262	1.3	mg/kg	U	UJ	1
K1014009	SJGB010-2-4-DUP	K1014009-005	SW8082_3541	Aroclor 1268	1.3	mg/kg	U	UJ	1

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K1012248	SJGB009-CR1-A	K1012248-001	ICPAES_3050B	Manganese	452	mg/kg		J	8
K1012248	SJGB009-CR1-B	K1012248-002	ICPAES_3050B	Manganese	801	mg/kg		J	8
K1012248	SJGB009-CR1-B-DUP	K1012248-003	ICPAES_3050B	Manganese	781	mg/kg		J	8
K1012248	SJGB001-CR1-A	K1012248-004	ICPAES_3050B	Manganese	49.4	mg/kg		J	8
K1012248	SJGB001-CR1-B	K1012248-005	ICPAES_3050B	Manganese	278	mg/kg		J	8
K1012248	SJGB012-CR1-A	K1012248-006	ICPAES_3050B	Manganese	42.2	mg/kg		J	8
K1012248	SJGB012-CR1-B	K1012248-007	ICPAES_3050B	Manganese	240	mg/kg		J	8
K1012248	SJGB010-CR1-A	K1012248-008	ICPAES_3050B	Manganese	427	mg/kg		J	8
K1012248	SJGB010-CR1-B	K1012248-009	ICPAES_3050B	Manganese	590	mg/kg		J	8
K1012248	SJGB011-CR1-A	K1012248-010	ICPAES_3050B	Manganese	609	mg/kg		J	8
K1012248	SJGB011-CR1-B	K1012248-011	ICPAES_3050B	Manganese	781	mg/kg		J	8
K1012248	SJGB006-CR1-A	K1012248-012	ICPAES_3050B	Manganese	311	mg/kg		J	8
K1012248	SJGB006-CR1-B	K1012248-013	ICPAES_3050B	Manganese	885	mg/kg		J	8
K1012252	SJGB010-0-2	K1012252-001	ICPAES_3050B	Vanadium	12.6	mg/kg		J	16
K1012252	SJGB010-2-4	K1012252-002	ICPAES_3050B	Vanadium	11.6	mg/kg		J	16
K1012252	SJGB010-4-6	K1012252-003	ICPAES_3050B	Vanadium	12.4	mg/kg		J	16
K1012252	SJGB010-6-7.2	K1012252-004	ICPAES_3050B	Copper	3.1	mg/kg		U	7
K1012252	SJGB010-6-7.2	K1012252-004	ICPAES_3050B	Vanadium	6.6	mg/kg		UJ	7,16
K1012252	SJGB010-2-4-DUP	K1012252-005	ICPAES_3050B	Vanadium	11.1	mg/kg		J	16
K1012252	SJGB011-0-2	K1012252-006	ICPAES_3050B	Vanadium	12.8	mg/kg		J	16
K1012252	SJGB011-2-4	K1012252-007	ICPAES_3050B	Vanadium	9.6	mg/kg		J	16
K1012252	SJGB011-4-6	K1012252-008	ICPAES_3050B	Vanadium	15.5	mg/kg		J	16
K1012252	SJGB011-6-8	K1012252-009	ICPAES_3050B	Vanadium	12.1	mg/kg		J	16
K1012252	SJGB011-8-10	K1012252-010	ICPAES_3050B	Vanadium	12.5	mg/kg		J	16
K1012252	SJGB011-10-11.5	K1012252-011	ICPAES_3050B	Vanadium	17.5	mg/kg		J	16
K1012252	SJGB012-0-2	K1012252-012	ICPAES_3050B	Vanadium	14.2	mg/kg		J	16
K1012252	SJGB012-2-4	K1012252-013	ICPAES_3050B	Vanadium	13.6	mg/kg		J	16
K1012252	SJGB012-4-6	K1012252-014	ICPAES_3050B	Vanadium	11.5	mg/kg		J	16
K1012252	SJGB012-6-8	K1012252-015	ICPAES_3050B	Vanadium	10.9	mg/kg		J	16
K1012252	GBFB-914C	K1012252-016	ICPAES_3050B	Barium	0.3	ug	J	U	6
K1012252	GBFB-914C	K1012252-016	ICPAES_3050B	Copper	2.4	ug		U	7
K1012252	GBFB-914C	K1012252-016	ICPAES_3050B	Manganese	0.3	ug	J	U	7
K1012252	GBFB-914C	K1012252-016	ICPAES_3050B	Thallium	96	ug		U	6
K1012252	GBFB-913C	K1012252-017	ICPAES_3050B	Copper	0.7	ug	J	U	7
K1012252	GBFB-913C	K1012252-017	ICPAES_3050B	Manganese	0.1	ug	J	U	7
K1012252	GBFB-912C	K1012252-018	ICPAES_3050B	Barium	0.2	ug	J	U	6

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K1012252	GBFB-912C	K1012252-018	ICPAES_3050B	Copper	1.9	ug	J	U	7
K1012252	GBFB-912C	K1012252-018	ICPAES_3050B	Manganese	0.7	ug	J	U	7
K1012252	GBFB-912C	K1012252-018	ICPAES_3050B	Thallium	115	ug		U	6
K1012252	GBFB-915C	K1012252-019	ICPAES_3050B	Barium	0.3	ug	J	U	6
K1012252	GBFB-915C	K1012252-019	ICPAES_3050B	Copper	1.8	ug	J	U	7
K1012252	GBFB-915C	K1012252-019	ICPAES_3050B	Manganese	0.7	ug	J	U	7
K1012252	GBFB-915C	K1012252-019	ICPAES_3050B	Thallium	113	ug		U	6
K1012248	SJGB009-CR1-A	K1012248-001	ICPMS_3050B	Chromium	10.9	mg/kg		J	16
K1012248	SJGB009-CR1-B	K1012248-002	ICPMS_3050B	Chromium	14.1	mg/kg		J	16
K1012248	SJGB009-CR1-B-DUP	K1012248-003	ICPMS_3050B	Chromium	13.1	mg/kg		J	16
K1012248	SJGB001-CR1-A	K1012248-004	ICPMS_3050B	Chromium	6.39	mg/kg		J	16
K1012248	SJGB001-CR1-B	K1012248-005	ICPMS_3050B	Chromium	10.7	mg/kg		J	16
K1012248	SJGB012-CR1-A	K1012248-006	ICPMS_3050B	Chromium	3.55	mg/kg		J	16
K1012248	SJGB012-CR1-B	K1012248-007	ICPMS_3050B	Chromium	8.33	mg/kg		J	16
K1012248	SJGB010-CR1-A	K1012248-008	ICPMS_3050B	Chromium	11.4	mg/kg		J	16
K1012248	SJGB010-CR1-B	K1012248-009	ICPMS_3050B	Chromium	13.4	mg/kg		J	16
K1012248	SJGB011-CR1-A	K1012248-010	ICPMS_3050B	Chromium	12.6	mg/kg		J	16
K1012248	SJGB011-CR1-B	K1012248-011	ICPMS_3050B	Chromium	12.8	mg/kg		J	16
K1012248	SJGB006-CR1-A	K1012248-012	ICPMS_3050B	Chromium	6.39	mg/kg		J	16
K1012248	SJGB006-CR1-B	K1012248-013	ICPMS_3050B	Chromium	11.6	mg/kg		J	16
K1012252	SJGB010-0-2	K1012252-001	ICPMS_3050B	Chromium	12.4	mg/kg		J	16
K1012252	SJGB010-2-4	K1012252-002	ICPMS_3050B	Chromium	15.1	mg/kg		J	16
K1012252	SJGB010-4-6	K1012252-003	ICPMS_3050B	Chromium	6.44	mg/kg		J	16
K1012252	SJGB010-6-7.2	K1012252-004	ICPMS_3050B	Chromium	2.36	mg/kg		J	16
K1012252	SJGB010-2-4-DUP	K1012252-005	ICPMS_3050B	Chromium	15.1	mg/kg		J	16
K1012252	SJGB011-0-2	K1012252-006	ICPMS_3050B	Chromium	14.4	mg/kg		J	16
K1012252	SJGB011-2-4	K1012252-007	ICPMS_3050B	Arsenic	1.88	mg/kg		J	19
K1012252	SJGB011-2-4	K1012252-007	ICPMS_3050B	Chromium	14	mg/kg		J	16,19
K1012252	SJGB011-4-6	K1012252-008	ICPMS_3050B	Chromium	13.3	mg/kg		J	16
K1012252	SJGB011-6-8	K1012252-009	ICPMS_3050B	Chromium	16.6	mg/kg		J	16
K1012252	SJGB011-8-10	K1012252-010	ICPMS_3050B	Chromium	13.4	mg/kg		J	16
K1012252	SJGB011-10-11.5	K1012252-011	ICPMS_3050B	Chromium	3.56	mg/kg		J	16
K1012252	SJGB012-0-2	K1012252-012	ICPMS_3050B	Chromium	8.88	mg/kg		J	16
K1012252	SJGB012-2-4	K1012252-013	ICPMS_3050B	Chromium	17.5	mg/kg		J	16
K1012252	SJGB012-4-6	K1012252-014	ICPMS_3050B	Chromium	12	mg/kg		J	16
K1012252	SJGB012-6-8	K1012252-015	ICPMS_3050B	Chromium	9.71	mg/kg		J	16

Qualified Data Summary Table
San Jacinto Waste Pits
Geotech Borings

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1012252	GBFB-914C	K1012252-016	ICPMS_3050B	Chromium	2.18	ug		U	6
K1012252	GBFB-912C	K1012252-018	ICPMS_3050B	Chromium	1.04	ug		U	6
K1012252	GBFB-915C	K1012252-019	ICPMS_3050B	Chromium	2.02	ug		U	6
K1012252	SJGB010-2-4	K1012252-002	SW8270C_3541	Acenaphthene	0.74	mg/kg	JDX	J	14
K1012252	SJGB010-2-4-DUP	K1012252-005	SW8270C_3541	Acenaphthene	0.82	mg/kg	JDX	J	14
K1012252	SJGB011-2-4	K1012252-007	SW8270C_3541	Acenaphthene	0.58	mg/kg	JDX	J	14
K1012252	SJGB011-4-6	K1012252-008	SW8270C_3541	Acenaphthene	0.49	mg/kg	JDX	J	14
K1012252	SJGB011-6-8	K1012252-009	SW8270C_3541	Acenaphthene	0.63	mg/kg	JDX	J	14
K1012252	SJGB012-2-4	K1012252-013	SW8270C_3541	Acenaphthene	0.39	mg/kg	JDX	J	14
K1012252	SJGB012-4-6	K1012252-014	SW8270C_3541	Acenaphthene	0.26	mg/kg	JDX	J	14
K1012252	GBFB-914C	K1012252-016	SW8270C_3541	bis(2-Ethylhexyl)phthalate	0.46	ug	J	U	7
K1012252	GBFB-913C	K1012252-017	SW8270C_3541	bis(2-Ethylhexyl)phthalate	0.36	ug	J	U	7
K1012252	GBFB-912C	K1012252-018	SW8270C_3541	bis(2-Ethylhexyl)phthalate	0.31	ug	J	U	7
K1012252	GBFB-915C	K1012252-019	SW8270C_3541	bis(2-Ethylhexyl)phthalate	0.41	ug	J	U	7

CHEMISTRY DATA VALIDATION REPORTS FOR SEDIMENT

EcoChem, INC.
Environmental Data Quality

DATA VALIDATION REPORT

SAN JACINTO RIVER WASTE PITS
Time Critical Removal Action Sediment Sampling

Prepared for:

Integral Consulting, Inc.
1205 West Bay Dr. NW
Olympia, Washington 98502

Prepared by:

EcoChem, Inc.
710 Second Avenue, Suite 660
Seattle, Washington 98104

EcoChem Project: C22130-2

September 2, 2010

Approved for Release

Melissa Swanson
Project Chemist
EcoChem, Inc.

PROJECT NARRATIVE

Basis for Data Validation

This report summarizes the results of the validation (Stage 2B and Stage 3/4) performed on sediment and quality control (QC) sample data for the San Jacinto River Waste Pits, Harris County, Texas. A complete list of samples is provided in the **Sample Index**. Laboratory batch ID numbers and associated level of validation is provided at the beginning of each technical section

Samples were analyzed by Columbia Analytical Services, Kelso, Washington and Columbia Analytical Services, Houston, Texas. The analytical methods and EcoChem project chemists are listed below:

Analysis	Method of Analysis	Primary Review	Secondary Review
Volatile Organic Compounds	EPA8260B	J. Hall	M. Swanson
Semivolatile Organic Compounds	SW8270C	R. Defawe/D. Kerlin M. Brindle/D. Agoy	M. Swanson
Polychlorinated Biphenyls (Aroclors)	SW8082	J. Hall/M. Swanson M. Brindle	M. Swanson/C. Ransom
Dioxin & Furan Compounds	EPA 1613B	M. Swanson/M. Brindle	E. Strout/M. Swanson
Polychlorinated Biphenyls (Congeners)	EPA 1668A		
Metals	ICPAES3050B, ICPMS3050B, SW7470A/7471A	D. Kerlin/J.Maute	C. Ransom
Total Organic Carbon (TOC)	EPA9060		
Grain Size	PSEP		
Percent Moisture	EPA160.3		

The data were reviewed using guidance and quality control criteria documented in the analytical methods; the *Sampling and Analysis Plan: Sediment Study San Jacinto River Waste Pits Superfund Site* (Integral/AnchorQEA, April 2010); *USEPA National Functional Guidelines for Chlorinated Dioxin/Furan Data Review* (USEPA, September 2005); *National Functional Guidelines for Organic Data Review* (USEPA 1999);.and *USEPA National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004).

EcoChem's goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned an R, the data are to be rejected and should not be used for any site evaluation purposes. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Data qualifier definitions, reason codes, and validation criteria are included as **Appendix A**. The qualified data summary table is included as **Appendix B.** Data Validation Worksheets and the associated communication records will be kept on file at EcoChem, Inc. A qualified laboratory electronic data deliverable (EDD) was also submitted with this report.

Sample Index
San Jacinto Waste Pits - Sediment
CAS Kelso

SDG	Sample ID	Lab ID	VOC	SVOC	BEHP	Aroclors	Metals	TOC	Grain Size	% Moisture
K1004785	SJGB014 S2	K1004785-001	✓	✓	✓	✓	✓	✓		✓
	SJGB014 S3	K1004785-002	✓	✓	✓	✓	✓	✓		✓
	SJGB014 S4	K1004785-003		✓	✓	✓	✓	✓		✓
	SJGB014 S6	K1004785-004	✓	✓	✓	✓	✓	✓		✓
	SJGB016 S1	K1004785-005		✓	✓	✓	✓	✓		✓
	SJGB016 S2	K1004785-006	✓	✓	✓	✓	✓	✓		✓
	SJGB016 S4	K1004785-007	✓	✓	✓	✓	✓	✓		✓
	SJGB016 S5	K1004785-008	✓	✓	✓	✓	✓	✓		✓
	SJGB015 S1	K1004785-009		✓	✓	✓	✓	✓		✓
	SJGB015 S2	K1004785-010	✓	✓	✓	✓	✓	✓		✓
	SJGB015 S3	K1004785-011		✓	✓	✓	✓	✓		✓
	SJGB015 S4	K1004785-012		✓	✓	✓	✓	✓		✓
	TB5-051010	K1004785-013	✓							
K1004825	SJNE008-GR1	K1004825-001		✓	✓	✓	✓	✓	✓	✓
	SJNE009-GR1	K1004825-002			✓		✓	✓	✓	✓
	SJNE010-GR1	K1004825-003			✓		✓	✓	✓	✓
	SJNE011-GR1	K1004825-004			✓		✓	✓	✓	✓
	SJNE012-GR1	K1004825-005		✓	✓		✓	✓	✓	✓
	SJNE014-GR1	K1004825-006			✓	✓	✓	✓	✓	✓
	SJNE017-GR1	K1004825-007			✓		✓	✓	✓	✓
	SJNE020-GR1-1	K1004825-008			✓		✓	✓	✓	✓
	SJNE020-GR1-2	K1004825-009			✓		✓	✓	✓	✓
	SJNE021-GR1	K1004825-010			✓		✓	✓	✓	✓
	SJNE015-GR1	K1004825-011			✓		✓	✓	✓	✓
K1004830	SJGB017 S1	K1004830-001		✓	✓	✓	✓	✓	✓	✓
	SJGB017 S2	K1004830-002	✓	✓	✓	✓	✓	✓	✓	✓
	SJGB017 S3	K1004830-003		✓	✓	✓	✓	✓	✓	✓
	SJGB017 S4	K1004830-004		✓	✓	✓	✓	✓	✓	✓
	SJGB013 S1	K1004830-005		✓	✓	✓	✓	✓	✓	✓
	SJGB013 S2	K1004830-006	✓	✓	✓	✓	✓	✓	✓	✓
	SJGB013 S3	K1004830-007	✓	✓	✓	✓	✓	✓	✓	✓
	SJGB013 S5	K1004830-008		✓	✓	✓	✓	✓		✓
	TB6-051110	K1004830-009	✓							
K1004836	SJNE-007-GR1	K1004836-001	✓							✓
	SJNE008-GR1	K1004836-002	✓							✓
K1004876	SJNE009-GR1	K1004876-001	✓							
K1004878	SJNE052-GR1	K1004878-001			✓		✓	✓	✓	✓
	SJNE057-GR1	K1004878-002			✓		✓	✓	✓	✓
	SJNE058-GR1	K1004878-003			✓		✓	✓	✓	✓
	SJNE059-GR1	K1004878-004			✓		✓	✓	✓	✓
	SJNE056-GR1	K1004878-005			✓		✓	✓	✓	✓
	SJNE055-GR1	K1004878-006			✓		✓	✓	✓	✓
	SJNE046-GR1	K1004878-007			✓		✓	✓	✓	✓
	SJNE037-GR1	K1004878-008			✓		✓	✓	✓	✓
	SJNE031-GR1	K1004878-009			✓		✓	✓	✓	✓
	SJNE025-GR1	K1004878-010			✓		✓	✓	✓	✓
	SJNE019-GR1	K1004878-011			✓		✓	✓	✓	✓
	SJNE018-GR1	K1004878-012			✓		✓	✓	✓	✓
	SJNE016-GR1	K1004878-013			✓		✓	✓	✓	✓
	SJNE013-GR1	K1004878-014			✓		✓	✓	✓	✓
	SJNE006-GR1	K1004878-015			✓		✓	✓	✓	✓

Sample Index
San Jacinto Waste Pits - Sediment
CAS Kelso

SDG	Sample ID	Lab ID	VOC	SVOC	BEHP	Aroclors	Metals	TOC	Grain Size	% Moisture
K1004878	SJNE007-GR1	K1004878-016		✓	✓	✓	✓	✓	✓	✓
	SJNE002-GR1	K1004878-017			✓		✓	✓	✓	✓
	SJNE003-GR1	K1004878-018		✓	✓		✓	✓	✓	✓
	SDFW-901S	K1004878-019			✓		✓			
K1005009	SJNE043-GR1	K1005009-001	✓							✓
	SJNE041-GR1	K1005009-002	✓							✓
	SJNE032-GR1	K1005009-003	✓							✓
	SJNE033-GR1	K1005009-004	✓							✓
	SJNE035-GR1	K1005009-005	✓							✓
	SJNE030-GR1	K1005009-006	✓							✓
	SJNE028-GR1	K1005009-007	✓							✓
	SJNE026-GR1	K1005009-008	✓							✓
	SJNE023-GR1	K1005009-009	✓							✓
	SJGB016 S1	K1005009-010	✓							✓
	SJGB015 S1	K1005009-011	✓							✓
	SJGB017 S1	K1005009-012	✓							✓
	SJGB013 S1	K1005009-013	✓							✓
	SJNE060-GR1	K1005009-014	✓							✓
	SJNE061-GR1	K1005009-015	✓							✓
	SJNE062-GR1-1	K1005009-016	✓							✓
	SJNE062-GR1-2	K1005009-017	✓							✓
	SJNE065-GR1	K1005009-018	✓							✓
	SJNE064-GR1	K1005009-019	✓							✓
	SJNE063-GR1	K1005009-020	✓							✓
	SJNE068-GR1	K1005009-021	✓							✓
K1005012	SJNE051-GR1	K1005012-001			✓		✓	✓	✓	✓
	SJNE045-GR1	K1005012-002			✓		✓	✓	✓	✓
	SJNE044-GR1	K1005012-003			✓		✓	✓	✓	✓
	SJNE043-GR1	K1005012-004		✓	✓	✓	✓	✓	✓	✓
	SJNE042-GR1-1	K1005012-005			✓		✓	✓	✓	✓
	SJNE042-GR1-2	K1005012-006			✓		✓	✓	✓	✓
	SJNE041-GR1	K1005012-007		✓	✓	✓	✓	✓	✓	✓
	SJNE040-GR1	K1005012-008			✓		✓	✓	✓	✓
	SJNE039-GR1	K1005012-009			✓		✓	✓	✓	✓
	SJNE032-GR1	K1005012-010		✓	✓	✓	✓	✓	✓	✓
	SDFW-903S	K1005012-012		✓	✓		✓			
	SJNE033-GR1	K1005012-013		✓	✓	✓	✓	✓	✓	✓
	SJNE034-GR1	K1005012-014			✓		✓	✓	✓	✓
	SJNE035-GR1	K1005012-015		✓	✓	✓	✓	✓	✓	✓
	SJNE036-GR1	K1005012-016			✓		✓	✓	✓	✓
	SJNE030-GR1	K1005012-017		✓	✓	✓	✓	✓	✓	✓
	SJNE028-GR1	K1005012-018		✓	✓	✓	✓	✓	✓	✓
	SJNE027-GR1	K1005012-019			✓		✓	✓	✓	✓
	SJNE026-GR1	K1005012-020		✓	✓	✓	✓	✓	✓	✓
	SJNE024-GR1	K1005012-021			✓		✓	✓	✓	✓
	SJNE023-GR1	K1005012-022		✓	✓	✓	✓	✓	✓	✓
K1005028	SJNE038-GR1	K1005028-001			✓		✓	✓	✓	✓
	SJNE060-GR1	K1005028-002		✓	✓	✓	✓	✓	✓	✓
	SJNE061-GR1	K1005028-003		✓	✓	✓	✓	✓	✓	✓
	SJNE062-GR1-1	K1005028-004		✓	✓	✓	✓	✓	✓	✓
	SJNE062-GR1-2	K1005028-005		✓	✓	✓	✓	✓	✓	✓

Sample Index
San Jacinto Waste Pits - Sediment
CAS Kelso

SDG	Sample ID	Lab ID	VOC	SVOC	BEHP	Aroclors	Metals	TOC	Grain Size	% Moisture
K1005028	SJNE062-GR1-2	K1005028-005		✓	✓	✓	✓	✓	✓	✓
	SJNE065-GR1	K1005028-006		✓	✓	✓	✓	✓	✓	✓
	SJNE064-GR1	K1005028-007		✓	✓	✓	✓	✓	✓	✓
	SJNE063-GR1	K1005028-008		✓	✓	✓	✓	✓	✓	✓
	SJNE068-GR1	K1005028-009		✓	✓	✓	✓	✓	✓	✓
	SJNE053-GR1	K1005028-010			✓		✓	✓	✓	✓
	SJNE047-GR1	K1005028-011			✓		✓	✓	✓	✓
	SJNE048-GR1	K1005028-012			✓		✓	✓	✓	✓
	SJNE054-GR1	K1005028-013			✓		✓	✓	✓	✓
	SJNE049-GR1	K1005028-014			✓		✓	✓	✓	✓
K1005106	SJNE022-GR1	K1005106-001		✓	✓	✓	✓	✓	✓	✓
	SJNE022-GR3	K1005106-002		✓	✓	✓	✓	✓	✓	✓
	SJNE022-GR2	K1005106-003		✓	✓	✓	✓	✓	✓	✓
	SJGB004-GR1	K1005106-004			✓		✓	✓	✓	✓
	SJSH061-GR1	K1005106-005			✓		✓	✓	✓	✓
	SJSH060-GR1	K1005106-006			✓		✓	✓	✓	✓
	SJSH059-GR1	K1005106-007			✓		✓	✓	✓	✓
K1005109	SJNE052-GR1	K1005109-001	✓							✓
	SJNE059-GR1	K1005109-002	✓							✓
	SJNE056-GR1	K1005109-003	✓							✓
K1005175	SJSH044-CR1A	K1005175-003			✓		✓	✓	✓	✓
	SJSH042-CR1A	K1005175-007			✓		✓	✓	✓	✓
	SJSH040-CR1A-1	K1005175-011			✓		✓	✓	✓	✓
	SJSH040-CR1A-2	K1005175-012			✓		✓	✓	✓	✓
	SJSH038-CR1A	K1005175-017			✓		✓	✓	✓	✓
	SJSH036-CR1A	K1005175-021			✓		✓	✓	✓	✓
	SJNE029-GR1	K1005175-023		✓	✓	✓	✓	✓	✓	✓
K1005180	SJNE029-GR1	K1005180-001	✓							✓
K1005237	SJNE007-CR1A	K1005237-001			✓		✓	✓	✓	✓
	SJNE007-CR1B	K1005237-002			✓		✓	✓	✓	✓
	SJNE007-CR1C	K1005237-003			✓		✓	✓	✓	✓
	SJNE007-CR1D	K1005237-004			✓		✓	✓	✓	✓
	SJNE007-CR1E	K1005237-005			✓		✓	✓	✓	✓
	SJNE007-CR1F	K1005237-006			✓		✓	✓	✓	✓
	SJNE007-CR1G	K1005237-007			✓		✓	✓	✓	✓
	SJNE007-CR1H	K1005237-008			✓		✓	✓	✓	✓
	SJNE007-CR1I	K1005237-009			✓		✓	✓	✓	✓
	SJNE008-CR1A	K1005237-010			✓		✓	✓	✓	✓
	SJNE008-CR1B	K1005237-011			✓		✓	✓	✓	✓
	SJNE008-CR1C	K1005237-012			✓		✓	✓	✓	✓
	SJNE008-CR1D	K1005237-013			✓		✓	✓	✓	✓
	SJNE041-CR1A	K1005237-014			✓		✓	✓	✓	✓
	SJNE041-CR1B	K1005237-015			✓		✓	✓	✓	✓
	SJNE041-CR1C	K1005237-016			✓		✓	✓	✓	✓
	SJNE041-CR1D	K1005237-017			✓		✓	✓	✓	✓
	SJNE041-CR1E	K1005237-018			✓		✓	✓	✓	✓
	SJNE041-CR1F	K1005237-019			✓		✓	✓	✓	✓
	SJNE012-CR1A	K1005237-020			✓		✓	✓	✓	✓
	SJNE012-CR1B	K1005237-021			✓		✓	✓	✓	✓
	SJNE012-CR1C	K1005237-022			✓		✓	✓	✓	✓
	SJNE026-CR1A	K1005237-023			✓		✓	✓	✓	✓

Sample Index
San Jacinto Waste Pits - Sediment
CAS Kelso

SDG	Sample ID	Lab ID	VOC	SVOC	BEHP	Aroclors	Metals	TOC	Grain Size	% Moisture
K1005237	SJNE026-CR1B	K1005237-024			✓		✓	✓	✓	✓
	SJNE026-CR1C	K1005237-025			✓		✓	✓	✓	✓
	SJNE026-CR1D	K1005237-026			✓		✓	✓	✓	✓
	SJNE026-CR1E	K1005237-027			✓		✓	✓	✓	✓
	SJNE026-CR1F	K1005237-028			✓		✓	✓	✓	✓
	SJNE026-CR1G	K1005237-029			✓		✓	✓	✓	✓
K1005253	SJNE052-GR1	K1005253-001	✓							
	SJNE057-GR1	K1005253-002	✓							
	SJNE058-GR1	K1005253-003	✓							
	SJNE059-GR1	K1005253-004	✓							
	SJNE056-GR1	K1005253-005	✓							
	SJNE055-GR1	K1005253-006	✓							
	SJNE046-GR1	K1005253-007	✓							
	SJNE037-GR1	K1005253-008	✓							
	SJNE031-GR1	K1005253-009	✓							
	SJNE025-GR1	K1005253-010	✓							
	SJNE019-GR1	K1005253-011	✓							
	SJNE018-GR1	K1005253-012	✓							
	SJNE016-GR1	K1005253-013	✓							
	SJNE013-GR1	K1005253-014	✓							
	SJNE006-GR1	K1005253-015	✓							
	SJNE002-GR1	K1005253-016	✓							
	SJNE003-GR1	K1005253-017	✓							
	SJNE009-GR1	K1005253-018	✓							
	SJNE010-GR1	K1005253-019	✓							
	SJNE011-GR1	K1005253-020	✓							
	SJNE014-GR1	K1005253-021	✓							
	SJNE017-GR1	K1005253-022	✓							
	SJNE020-GR1-1	K1005253-023	✓							
	SJNE020-GR1-2	K1005253-024	✓							
	SJNE021-GR1	K1005253-025	✓							
	SJNE015-GR1	K1005253-026	✓							
	SJNE051-GR1	K1005253-027	✓							
	SJNE045-GR1	K1005253-028	✓							
	SJNE044-GR1	K1005253-029	✓							
	SJNE042-GR1-1	K1005253-030	✓							
	SJNE042-GR1-2	K1005253-031	✓							
	SJNE040-GR1	K1005253-032	✓							
	SJNE039-GR1	K1005253-033	✓							
	SJNE034-GR1	K1005253-034	✓							
	SJNE036-GR1	K1005253-035	✓							
	SJNE027-GR1	K1005253-036	✓							
	SJNE024-GR1	K1005253-037	✓							
	SJNE038-GR1	K1005253-038	✓							
	SJNE053-GR1	K1005253-039	✓							
	SJNE047-GR1	K1005253-040	✓							
	SJNE048-GR1	K1005253-041	✓							
	SJNE054-GR1	K1005253-042	✓							
	SJNE049-GR1	K1005253-043	✓							

Sample Index
San Jacinto Waste Pits - Sediment
CAS Kelso

SDG	Sample ID	Lab ID	VOC	SVOC	BEHP	Aroclors	Metals	TOC	Grain Size	% Moisture
K1005262	SJVS001-GR1	K1005262-001								✓
	SJVS002-GR1	K1005262-002								✓
	SJVS003-GR1	K1005262-003								✓
	SJVS004-GR1	K1005262-004								✓
	SJVS006-GR1	K1005262-005								✓
	SJVS007-GR1	K1005262-006								✓
	SJVS008-GR1	K1005262-007	✓							✓
	SJVS014-GR1	K1005262-008	✓							✓
	SJVS012-GR1	K1005262-009	✓							✓
	SJVS009-GR1	K1005262-010	✓							✓
	SJVS005-GR1	K1005262-011	✓							✓
K1005263	SJVS001-GR1	K1005263-001		✓	✓	✓	✓	✓	✓	✓
	SJVS002-GR1	K1005263-002								✓
	SJVS003-GR1	K1005263-003								✓
	SJVS004-GR1	K1005263-004								✓
	SJVS006-GR1	K1005263-005								✓
	SJVS007-GR1	K1005263-006								✓
	SJVS008-GR1	K1005263-007								✓
	SJVS014-GR1	K1005263-008								✓
	SJVS012-GR1	K1005263-009								✓
	SJVS009-GR1	K1005263-010								✓
	SJVS005-GR1	K1005263-011								✓
K1005281	SJNE023-CR1A	K1005281-001			✓		✓	✓	✓	✓
	SJNE023-CR1B	K1005281-002			✓		✓	✓	✓	✓
	SJNE023-CR1C	K1005281-003			✓		✓	✓	✓	✓
	SJNE023-CR1D	K1005281-004			✓		✓	✓	✓	✓
	SJNE023-CR1E	K1005281-005			✓		✓	✓	✓	✓
	SJNE023-CR1F	K1005281-006			✓		✓	✓	✓	✓
	SJNE023-CR1G	K1005281-007			✓		✓	✓	✓	✓
	SJNE023-CR1H	K1005281-008			✓		✓	✓	✓	✓
	SJNE033-CR1A	K1005281-009			✓		✓	✓	✓	✓
	SJNE033-CR1B	K1005281-010			✓		✓	✓	✓	✓
	SJNE033-CR1C	K1005281-011			✓		✓	✓	✓	✓
	SJNE033-CR1D	K1005281-012			✓		✓	✓	✓	✓
	SJNE033-CR1E	K1005281-013			✓		✓	✓	✓	✓
	SJNE033-CR1F	K1005281-014			✓		✓	✓	✓	✓
	SJNE033-CR1G	K1005281-015			✓		✓	✓	✓	✓
	SJNE033-CR1H	K1005281-016			✓		✓	✓	✓	✓
	SJNE033-CR1I	K1005281-017			✓		✓	✓	✓	✓
	SJNE033-CR1J	K1005281-018			✓		✓	✓	✓	✓
	SJNE050-CR1A	K1005281-019			✓		✓	✓	✓	✓
	SJNE050-CR1B	K1005281-020			✓		✓	✓	✓	✓
K1005282	SJNE050-CR1C	K1005282-001			✓		✓	✓	✓	✓
	SJNE050-CR1D	K1005282-002			✓		✓	✓	✓	✓
	SJNE050-CR1E	K1005282-003			✓		✓	✓	✓	✓
	SJNE050-CR1F	K1005282-004			✓		✓	✓	✓	✓
	SJNE050-CR1G	K1005282-005			✓		✓	✓	✓	✓
	SJNE043-CR1A	K1005282-006			✓		✓	✓	✓	✓
	SJNE043-CR1B	K1005282-007			✓		✓	✓	✓	✓
	SJNE043-CR1C	K1005282-008			✓		✓	✓	✓	✓
	SJNE043-CR1D	K1005282-009			✓		✓	✓	✓	✓

Sample Index
San Jacinto Waste Pits - Sediment
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SDG	Sample ID	Lab ID	VOC	SVOC	BEHP	Aroclors	Metals	TOC	Grain Size	% Moisture
K1005282	SJNE043-CR1E	K1005282-010			✓		✓	✓	✓	✓
	SJNE030-CR1A	K1005282-011			✓		✓	✓	✓	✓
	SJNE030-CR1B	K1005282-012			✓		✓	✓	✓	✓
	SJNE030-CR1C	K1005282-013			✓		✓	✓	✓	✓
	SJNE030-CR1D	K1005282-014			✓		✓	✓	✓	✓
	SJNE030-CR1E	K1005282-015			✓		✓	✓	✓	✓
K1005283	SJVS010-GR1	K1005283-001	✓							✓
	SJVS018-GR1	K1005283-002	✓							✓
	SJVS013-GR1	K1005283-003	✓							✓
	SJVS015-GR1	K1005283-004	✓							✓
	SJVS011-GR1	K1005283-005	✓							✓
	SJVS016-GR1	K1005283-006	✓					✓		✓
	SJVS017-GR1	K1005283-007	✓							✓
K1005284	SJVS016-GR1	K1005284-006		✓	✓	✓	✓		✓	✓
K1005351	SJNE001-GR1	K1005351-001			✓		✓	✓	✓	✓
	SJNE004-GR1	K1005351-002			✓		✓	✓	✓	✓
	SJNE005-GR1	K1005351-003			✓		✓	✓	✓	✓
	SJSH056-GR1	K1005351-004			✓		✓	✓	✓	✓
	SJSH057-GR1	K1005351-005			✓		✓	✓	✓	✓
	SJSH058-GR1	K1005351-006			✓		✓	✓	✓	✓
	SJGB008-GR1	K1005351-007			✓		✓	✓	✓	✓
	SJGB005-GR1	K1005351-008			✓		✓	✓	✓	✓
	SJGB007-GR1	K1005351-009			✓		✓	✓	✓	✓
	SJNE050-GR1	K1005351-010		✓	✓	✓	✓	✓	✓	✓
	SJSH064-GR1-1	K1005351-011			✓		✓	✓	✓	✓
	SJSH064-GR1-2	K1005351-012			✓		✓	✓	✓	✓
	SJSH063-GR1	K1005351-013			✓		✓	✓	✓	✓
	SJSH062-GR1	K1005351-014			✓		✓	✓	✓	✓
	SJNE067-GR1	K1005351-015		✓	✓	✓	✓	✓	✓	✓
	SJNE069-GR1	K1005351-016		✓	✓	✓	✓	✓	✓	✓
	SJNE070-GR1	K1005351-017		✓	✓	✓	✓	✓	✓	✓
	SJWRP-001	K1005351-018		✓	✓		✓	✓		✓
	SDFW-906S	K1005351-019		✓	✓		✓	✓		
	SDFW-920S	K1005351-020		✓	✓		✓	✓		
	SJNE066-GR1	K1005351-021		✓	✓	✓	✓	✓	✓	✓
K1005352	SJNE050-GR1	K1005352-001	✓							✓
	SJNE067-GR1	K1005352-002	✓							✓
	SJNE069-GR1	K1005352-003	✓							✓
	SJNE070-GR1	K1005352-004	✓							✓
	SJNE066-GR1	K1005352-005	✓							✓
K1005353	SJGB013 S4	K1005353-004		✓	✓	✓	✓	✓	✓	✓
	SJGB014 S1	K1005353-006		✓	✓	✓	✓	✓	✓	✓
	SJGB014 S2	K1005353-007							✓	✓
	SJGB014 S3	K1005353-008							✓	✓
	SJGB014 S5	K1005353-010		✓	✓	✓	✓	✓	✓	✓
	SJGB015 S1	K1005353-011							✓	✓
	SJGB015 S2	K1005353-012							✓	✓
	SJGB015 S3	K1005353-013							✓	✓
	SJGB015 S4	K1005353-014							✓	✓
	SJGB015 S5	K1005353-015		✓	✓	✓	✓	✓	✓	✓
	SJGB016 S1	K1005353-016							✓	✓

Sample Index
San Jacinto Waste Pits - Sediment
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SDG	Sample ID	Lab ID	VOC	SVOC	BEHP	Aroclors	Metals	TOC	Grain Size	% Moisture
K1005353	SJGB016 S2	K1005353-017							✓	✓
	SJGB016 S3	K1005353-018		✓	✓	✓	✓	✓	✓	✓
	SJGB016 S4	K1005353-019							✓	✓
	SJGB017 S5	K1005353-024		✓	✓	✓	✓	✓	✓	✓
K1005357	SJNE029-CR1A	K1005357-001			✓		✓	✓	✓	✓
	SJNE029-CR1B	K1005357-002			✓		✓	✓	✓	✓
	SJNE029-CR1C	K1005357-003			✓		✓	✓	✓	✓
	SJNE029-CR1D	K1005357-004			✓		✓	✓	✓	✓
	SJNE029-CR1E	K1005357-005			✓		✓	✓	✓	✓
	SJNE029-CR1F	K1005357-006			✓		✓	✓	✓	✓
	SJNE029-CR1G	K1005357-007			✓		✓	✓	✓	✓
	SJNE029-CR1H	K1005357-008			✓		✓	✓	✓	✓
	SJNE029-CR1I	K1005357-009			✓		✓	✓	✓	✓
	SJNE028-CR1A	K1005357-010			✓		✓	✓	✓	✓
	SJNE028-CR1B	K1005357-011			✓		✓	✓	✓	✓
	SJNE028-CR1C	K1005357-012			✓		✓	✓	✓	✓
	SJNE028-CR1D	K1005357-013			✓		✓	✓	✓	✓
	SJNE028-CR1E	K1005357-014			✓		✓	✓	✓	✓
	SJNE028-CR1F	K1005357-015			✓		✓	✓	✓	✓
	SJNE028-CR1G	K1005357-016			✓		✓	✓	✓	✓
	SJNE028-CR1H	K1005357-017			✓		✓	✓	✓	✓
	SJNE032-CR1A	K1005357-018			✓		✓	✓	✓	✓
	SJNE032-CR1B	K1005357-019			✓		✓	✓	✓	✓
	SJNE032-CR1C	K1005357-020			✓		✓	✓	✓	✓
K1005359	SJNE032-CR1D	K1005359-001			✓		✓	✓	✓	✓
	SJNE032-CR1E	K1005359-002			✓		✓	✓	✓	✓
	SJNE032-CR1F	K1005359-003			✓		✓	✓	✓	✓
	SJNE032-CR1G	K1005359-004			✓		✓	✓	✓	✓
	SJNE032-CR1H	K1005359-005			✓		✓	✓	✓	✓
	SJNE032-CR1I	K1005359-006			✓		✓	✓	✓	✓
	SJNE035-CR1A	K1005359-007			✓		✓	✓	✓	✓
	SJNE035-CR1B	K1005359-008			✓		✓	✓	✓	✓
	SJNE035-CR1C	K1005359-009			✓		✓	✓	✓	✓
	SJNE035-CR1D	K1005359-010			✓		✓	✓	✓	✓
	SJNE035-CR1E	K1005359-011			✓		✓	✓	✓	✓
	SJNE035-CR1F	K1005359-012			✓		✓	✓	✓	✓
	SJNE035-CR1G	K1005359-013			✓		✓	✓	✓	✓
	SJNE035-CR1H	K1005359-014			✓		✓	✓	✓	✓
	SJNE035-CR1I	K1005359-015			✓		✓	✓	✓	✓
	SDFW-902C	K1005359-016		✓	✓		✓	✓	✓	✓
	SDFW-904C	K1005359-017		✓	✓		✓	✓	✓	✓
	SJNE032-CR1J	K1005359-018			✓		✓	✓	✓	✓
K1005390	SJSH055-CR1A	K1005390-001			✓		✓	✓	✓	✓
	SJSH053-CR1A	K1005390-004			✓		✓	✓	✓	✓
	SJSH051-CR1A	K1005390-006			✓		✓	✓	✓	✓
	SJSH050-CR1A	K1005390-007							✓	✓
	SJSH049-CR1A	K1005390-009			✓		✓	✓	✓	✓
	SJSH048-CR1A	K1005390-010							✓	✓
	SJSH047-CR1A	K1005390-011			✓		✓	✓	✓	✓
	SJSH001-CR1A	K1005390-015			✓		✓	✓	✓	✓
	SJSH002-CR1A	K1005390-016			✓		✓	✓	✓	✓

Sample Index
San Jacinto Waste Pits - Sediment
CAS Kelso

SDG	Sample ID	Lab ID	VOC	SVOC	BEHP	Aroclors	Metals	TOC	Grain Size	% Moisture
K1005390	SDFW-911C	K1005390-017		✓	✓		✓			
K1005422	SJGB004-GR1	K1005422-001	✓							
	SJSH061-GR1	K1005422-002	✓							
	SJSH060-GR1	K1005422-003	✓							
	SJSH059-GR1	K1005422-004	✓							
K1005523	SJSH003-CR1A	K1005523-001			✓		✓	✓	✓	✓
	SJSH004-CR1A	K1005523-003			✓		✓	✓	✓	✓
	SJSH005-CR1A-1	K1005523-004			✓		✓	✓	✓	✓
	SJSH005-CR1A-2	K1005523-005			✓		✓	✓	✓	✓
K1005523	SJSH014-CR1A-1	K1005523-013		✓	✓		✓	✓	✓	✓
	SJSH014-CR1A-2	K1005523-014		✓	✓		✓	✓	✓	✓
	SJSH014-CR1B-1	K1005523-015			✓		✓	✓	✓	✓
	SJSH017-CR1A	K1005523-020			✓		✓	✓	✓	✓
	SJSH019-CR1A	K1005523-024			✓		✓	✓	✓	✓
	SJSH021-CR1A	K1005523-028			✓		✓	✓	✓	✓
	SJSH012-CR1A	K1005523-029			✓		✓	✓	✓	✓
	SJSH014-CR1B-2	K1005523-030			✓		✓	✓	✓	✓
K1005525	SJSH023-CR1A	K1005525-004			✓		✓	✓	✓	✓
	SJSH025-CR1A-1	K1005525-008			✓		✓	✓	✓	✓
	SJSH025-CR1A-2	K1005525-009			✓		✓	✓	✓	✓
	SJSH027-CR1A	K1005525-014			✓		✓	✓	✓	✓
	SJSH027-CR1B	K1005525-015			✓		✓	✓	✓	✓
	SJSH029-CR1A	K1005525-018			✓		✓	✓	✓	✓
	SJSH029-CR1B	K1005525-019			✓		✓	✓	✓	✓
	SDFW-907C	K1005525-022		✓	✓		✓			
	SDFW-908C	K1005525-023		✓	✓		✓			
	SJSH031-CR1A	K1005525-024			✓		✓	✓	✓	✓
	SJSH031-CR1B	K1005525-025			✓		✓	✓	✓	✓
	SDFW-909C	K1005525-026		✓	✓		✓			
	SJSH033-CR1A	K1005525-029			✓		✓	✓	✓	✓
	SJSH033-CR1B	K1005525-030			✓		✓	✓	✓	✓
	SJSH035-CR1A-1	K1005525-033			✓		✓	✓	✓	✓
	SJSH035-CR1A-2	K1005525-034			✓		✓	✓	✓	✓
	SJSH035-CR1B-1	K1005525-035			✓		✓	✓	✓	✓
	SJSH035-CR1B-2	K1005525-036			✓		✓	✓	✓	✓
	SDFW-910C	K1005525-037		✓	✓		✓			
K1005697	SJSH008-CR1A	K1005697-001			✓		✓	✓	✓	✓
	SJSH009-CR1A	K1005697-002			✓		✓	✓	✓	✓
	SJSH010-CR1A	K1005697-003			✓		✓	✓	✓	✓

Sample Index
San Jacinto Waste Pits - Sediment
CAS Houston

SDG	Sample ID	Lab ID	Dioxins	PCB Congeners
E1000500	SJGB014 S2	E1000500-001	✓	✓
	SJGB014 S3	E1000500-002	✓	✓
	SJGB014 S4	E1000500-003	✓	✓
	SJGB014 S6	E1000500-004	✓	✓
	SJGB016 S1	E1000500-005	✓	✓
	SJGB016 S2	E1000500-006	✓	✓
	SJGB016 S4	E1000500-007	✓	✓
	SJGB016 S5	E1000500-008	✓	✓
	SJGB015 S1	E1000500-009	✓	✓
	SJGB015 S2	E1000500-010	✓	✓
	SJGB015 S3	E1000500-011	✓	✓
	SJGB015 S4	E1000500-012	✓	✓
E1000514	SJGB017 S1	E1000514-001	✓	✓
	SJGB017 S2	E1000514-002	✓	✓
	SJGB017 S3	E1000514-003	✓	✓
	SJGB017 S4	E1000514-004	✓	✓
	SJGB013 S1	E1000514-005	✓	✓
	SJGB013 S2	E1000514-006	✓	✓
	SJGB013 S3	E1000514-007	✓	✓
	SJGB013 S5	E1000514-008	✓	✓
E1000515	SJNE009-GR1	E1000515-001	✓	
	SJNE010-GR1	E1000515-002	✓	
	SJNE011-GR1	E1000515-003	✓	
	SJNE014-GR1	E1000515-004	✓	
	SJNE017-GR1	E1000515-005	✓	
	SJNE020-GR1-1	E1000515-006	✓	
	SJNE020-GR1-2	E1000515-007	✓	
	SJNE021-GR1	E1000515-008	✓	
	SJNE015-GR1	E1000515-009	✓	
	SJNE008-GR1	E1000515-010	✓	✓
	SJNE012-GR1	E1000515-011	✓	✓
E1000516	SJNE052-GR1	E1000516-001	✓	
	SJNE057-GR1	E1000516-002	✓	
	SJNE058-GR1	E1000516-003	✓	
	SJNE059-GR1	E1000516-004	✓	
	SJNE056-GR1	E1000516-005	✓	
	SJNE055-GR1	E1000516-006	✓	
	SJNE046-GR1	E1000516-007	✓	
	SJNE037-GR1	E1000516-008	✓	
	SJNE031-GR1	E1000516-009	✓	
	SJNE025-GR1	E1000516-010	✓	
	SJNE019-GR1	E1000516-011	✓	
	SJNE018-GR1	E1000516-012	✓	
	SJNE016-GR1	E1000516-013	✓	
	SJNE013-GR1	E1000516-014	✓	
	SJNE006-GR1	E1000516-015	✓	
	SJNE007-GR1	E1000516-016	✓	✓
	SJNE002-GR1	E1000516-017	✓	
	SJNE003-GR1	E1000516-018	✓	
	SDFW-901S	E1000516-019	✓	✓

Sample Index
San Jacinto Waste Pits - Sediment
CAS Houston

SDG	Sample ID	Lab ID	Dioxins	PCB Congeners
E1000524	SJNE038-GR1	E1000524-004	✓	
	SJNE060-GR1	E1000524-005	✓	✓
	SJNE061-GR1	E1000524-006	✓	✓
	SJNE062-GR1-1	E1000524-007	✓	✓
	SJNE062-GR1-2	E1000524-008	✓	✓
	SJNE065-GR1	E1000524-009	✓	✓
	SJNE064-GR1	E1000524-010	✓	✓
	SJNE063-GR1	E1000524-011	✓	✓
	SJNE068-GR1	E1000524-012	✓	✓
	SJNE053-GR1	E1000524-017	✓	
	SJNE047-GR1	E1000524-018	✓	
	SJNE048-GR1	E1000524-019	✓	
	SJNE054-GR1	E1000524-020	✓	
E1000525	SJNE049-GR1	E1000525-002	✓	
E1000532	SJNE051-GR1	E1000532-001	✓	
	SJNE045-GR1	E1000532-002	✓	
	SJNE044-GR1	E1000532-003	✓	
	SJNE043-GR1	E1000532-004	✓	✓
	SJNE042-GR1-1	E1000532-005	✓	
	SJNE042-GR1-2	E1000532-006	✓	
	SJNE041-GR1	E1000532-007	✓	✓
	SJNE040-GR1	E1000532-008	✓	
	SJNE039-GR1	E1000532-009	✓	
	SJNE032-GR1	E1000532-010	✓	✓
	SJNE033-GR1	E1000532-011	✓	✓
	SJNE034-GR1	E1000532-012	✓	
	SJNE035-GR1	E1000532-013	✓	✓
	SJNE036-GR1	E1000532-014	✓	
	SJNE030-GR1	E1000532-015	✓	✓
	SJNE028-GR1	E1000532-016	✓	✓
	SJNE027-GR1	E1000532-017	✓	
	SJNE026-GR1	E1000532-018	✓	✓
	SJNE024-GR1	E1000532-019	✓	
	SJNE023-GR1	E1000532-020	✓	✓
E1000533	SDFW-903S	E1000533-001	✓	
E1000543	SJSH061-GR1	E1000543-002	✓	
	SJSH060-GR1	E1000543-003	✓	
	SJSH059-GR1	E1000543-004	✓	
	SJNE022-GR1	E1000543-008	✓	
	SJNE022-GR3	E1000543-009	✓	
	SJNE022-GR2	E1000543-010	✓	
	SJGB004-GR1	E1000543-011	✓	
E1000547	SJSH044-CR1A	E1000547-001	✓	
	SJSH042-CR1A	E1000547-002	✓	
	SJSH040-CR1A-1	E1000547-003	✓	
	SJSH038-CR1A	E1000547-004	✓	
	SJSH036-CR1A	E1000547-005	✓	
	SJNE029-GR1	E1000547-006	✓	
	SJSH040-CR1A-2	E1000547-007	✓	

Sample Index
San Jacinto Waste Pits - Sediment
CAS Houston

SDG	Sample ID	Lab ID	Dioxins	PCB Congeners
E1000553	SJNE007-CR1A	E1000553-001	✓	
	SJNE007-CR1B	E1000553-002	✓	
	SJNE007-CR1C	E1000553-003	✓	
	SJNE007-CR1D	E1000553-004	✓	
	SJNE007-CR1E	E1000553-005	✓	
	SJNE007-CR1F	E1000553-006	✓	
	SJNE007-CR1G	E1000553-007	✓	
	SJNE007-CR1H	E1000553-008	✓	
	SJNE007-CR1I	E1000553-009	✓	
	SJNE008-CR1A	E1000553-010	✓	
	SJNE008-CR1B	E1000553-011	✓	
	SJNE008-CR1C	E1000553-012	✓	
	SJNE008-CR1D	E1000553-013	✓	
	SJNE041-CR1A	E1000553-014	✓	
	SJNE041-CR1B	E1000553-015	✓	
	SJNE041-CR1C	E1000553-016	✓	
	SJNE041-CR1D	E1000553-017	✓	
	SJNE041-CR1E	E1000553-018	✓	
	SJNE041-CR1F	E1000553-019	✓	
E1000554	SJNE012-CR1A	E1000554-001	✓	
	SJNE012-CR1B	E1000554-002	✓	
	SJNE012-CR1C	E1000554-003	✓	
	SJNE026-CR1A	E1000554-004	✓	
	SJNE026-CR1B	E1000554-005	✓	
	SJNE026-CR1C	E1000554-006	✓	
	SJNE026-CR1D	E1000554-007	✓	
	SJNE026-CR1E	E1000554-008	✓	
	SJNE026-CR1F	E1000554-009	✓	
	SJNE026-CR1G	E1000554-010	✓	
E1000557	SJNE033-CR1C	E1000557-001	✓	
	SJNE033-CR1D	E1000557-002	✓	
	SJNE033-CR1E	E1000557-003	✓	
	SJNE033-CR1F	E1000557-004	✓	
	SJNE033-CR1G	E1000557-005	✓	
	SJNE033-CR1H	E1000557-006	✓	
	SJNE033-CR1I	E1000557-007	✓	
	SJNE033-CR1J	E1000557-008	✓	
	SJNE050-CR1A	E1000557-009	✓	
	SJNE050-CR1B	E1000557-010	✓	
	SJNE030-CR1A	E1000557-011	✓	
	SJNE030-CR1B	E1000557-012	✓	
	SJNE030-CR1C	E1000557-013	✓	
	SJNE030-CR1D	E1000557-014	✓	
	SJNE030-CR1E	E1000557-015	✓	
E1000558	SJNE023-CR1A	E1000558-001	✓	
	SJNE023-CR1B	E1000558-002	✓	
	SJNE023-CR1C	E1000558-003	✓	
	SJNE023-CR1D	E1000558-004	✓	
	SJNE023-CR1E	E1000558-005	✓	
	SJNE023-CR1F	E1000558-006	✓	

Sample Index
San Jacinto Waste Pits - Sediment
CAS Houston

SDG	Sample ID	Lab ID	Dioxins	PCB Congeners
E1000558	SJNE023-CR1G	E1000558-007	✓	
	SJNE023-CR1H	E1000558-008	✓	
	SJNE033-CR1A	E1000558-009	✓	
	SJNE033-CR1B	E1000558-010	✓	
	SJNE050-CR1C	E1000558-011	✓	
	SJNE050-CR1D	E1000558-012	✓	
	SJNE050-CR1E	E1000558-013	✓	
	SJNE050-CR1F	E1000558-014	✓	
	SJNE050-CR1G	E1000558-015	✓	
	SJNE043-CR1A	E1000558-016	✓	
	SJNE043-CR1B	E1000558-017	✓	
	SJNE043-CR1C	E1000558-018	✓	
	SJNE043-CR1D	E1000558-019	✓	
	SJNE043-CR1E	E1000558-020	✓	
E1000559	SJVS016-GR1	E1000559-006	✓	
E1000566	SJNE029-CR1A	E1000566-001	✓	
	SJNE029-CR1B	E1000566-002	✓	
	SJNE029-CR1C	E1000566-003	✓	
	SJNE029-CR1D	E1000566-004	✓	
	SJNE029-CR1E	E1000566-005	✓	
	SJNE029-CR1F	E1000566-006	✓	
	SJNE029-CR1G	E1000566-007	✓	
	SJNE029-CR1H	E1000566-008	✓	
	SJNE029-CR1I	E1000566-009	✓	
	SJNE028-CR1A	E1000566-010	✓	
	SJNE028-CR1B	E1000566-011	✓	
	SJNE028-CR1C	E1000566-012	✓	
	SJNE028-CR1D	E1000566-013	✓	
	SJNE028-CR1E	E1000566-014	✓	
	SJNE028-CR1F	E1000566-015	✓	
	SJNE028-CR1G	E1000566-016	✓	
	SJNE028-CR1H	E1000566-017	✓	
	SJNE032-CR1A	E1000566-018	✓	
	SJNE032-CR1B	E1000566-019	✓	
	SJNE032-CR1C	E1000566-020	✓	
E1000567	SJNE032-CR1D	E1000567-001	✓	
	SJNE032-CR1E	E1000567-002	✓	
	SJNE032-CR1F	E1000567-003	✓	
	SJNE032-CR1G	E1000567-004	✓	
	SJNE032-CR1H	E1000567-005	✓	
	SJNE032-CR1I	E1000567-006	✓	
	SJNE035-CR1A	E1000567-007	✓	
	SJNE035-CR1B	E1000567-008	✓	
	SJNE035-CR1C	E1000567-009	✓	
	SJNE035-CR1D	E1000567-010	✓	
	SJNE035-CR1E	E1000567-011	✓	
	SJNE035-CR1F	E1000567-012	✓	
	SJNE035-CR1G	E1000567-013	✓	
	SJNE035-CR1H	E1000567-014	✓	
	SJNE035-CR1I	E1000567-015	✓	

Sample Index
San Jacinto Waste Pits - Sediment
CAS Houston

SDG	Sample ID	Lab ID	Dioxins	PCB Congeners
E1000567	SDFW-902C	E1000567-016	✓	
	SDFW-904C	E1000567-017	✓	
	SJNE032-CR1J	E1000567-018	✓	
E1000568	SJVS001-GR1	E1000568-001	✓	✓
E1000569	SJGB013 S4	E1000569-001	✓	✓
	SJGB014 S1	E1000569-002	✓	✓
	SJGB014 S5	E1000569-003	✓	✓
	SJGB015 S5	E1000569-004	✓	✓
	SJGB016 S3	E1000569-005	✓	✓
	SJGB017 S5	E1000569-006	✓	✓
	SJNE001-GR1	E1000569-007	✓	
	SJNE004-GR1	E1000569-008	✓	
	SJNE005-GR1	E1000569-009	✓	
	SJSH056-GR1	E1000569-010	✓	
	SJSH057-GR1	E1000569-011	✓	
	SJSH058-GR1	E1000569-012	✓	
	SJGB008-GR1	E1000569-013	✓	
	SJGB005-GR1	E1000569-014	✓	
	SJGB007-GR1	E1000569-015	✓	
	SJNE050-GR1	E1000569-016	✓	✓
	SJNE066-GR1	E1000569-017	✓	✓
E1000570	SJSH064-GR1-1	E1000570-001	✓	
	SJSH064-GR1-2	E1000570-002	✓	
	SJSH063-GR1	E1000570-003	✓	
	SJSH062-GR1	E1000570-004	✓	
	SJNE067-GR1	E1000570-005	✓	✓
	SJNE069-GR1	E1000570-006	✓	✓
	SJNE070-GR1	E1000570-007	✓	✓
	SJWRP-001	E1000570-008	✓	✓
	SDFW-906S	E1000570-009	✓	✓
	SDFW920S	E1000570-010	✓	✓
E1000571	SJSH055-CR1A	E1000571-001	✓	
	SJSH053-CR1A	E1000571-002	✓	
	SJSH051-CR1A	E1000571-003	✓	
	SJSH047-CR1A	E1000571-006	✓	
	SJSH001-CR1A	E1000571-007	✓	
	SJSH002-CR1A	E1000571-008	✓	
	SDFW-911C	E1000571-009	✓	✓
	SJSH049-CR1A	E1000571-010	✓	
E1000580	SJSH003-CR1A	E1000580-001	✓	
	SJSH004-CR1A	E1000580-002	✓	
	SJSH005-CR1A-1	E1000580-003	✓	
	SJSH005-CR1A-2	E1000580-004	✓	
	SJSH012-CR1A	E1000580-005	✓	
	SJSH014-CR1A-1	E1000580-006	✓	
	SJSH014-CR1A-2	E1000580-007	✓	
	SJSH014-CR1B-1	E1000580-008	✓	
	SJSH014-CR1B-2	E1000580-009	✓	
	SJSH017-CR1A	E1000580-010	✓	
	SJSH019-CR1A	E1000580-011	✓	

Sample Index
San Jacinto Waste Pits - Sediment
CAS Houston

SDG	Sample ID	Lab ID	Dioxins	PCB Congeners
E1000580	SJSH021-CR1A	E1000580-012	✓	
	SJSH023-CR1A	E1000580-013	✓	
	SJSH025-CR1A-1	E1000580-014	✓	
	SJSH027-CR1A	E1000580-015	✓	
	SJSH027-CR1B	E1000580-016	✓	
	SJSH029-CR1A	E1000580-017	✓	
	SJSH029-CR1B	E1000580-018	✓	
	SJSH025-CR1A-2	E1000580-019	✓	
E1000581	SJSH031-CR1A	E1000581-003	✓	
	SJSH031-CR1B	E1000581-004	✓	
	SJSH033-CR1A	E1000581-006	✓	
	SJSH033-CR1B	E1000581-007	✓	
	SJSH035-CR1A-1	E1000581-008	✓	
	SJSH035-CR1A-2	E1000581-009	✓	
	SJSH035-CR1B-1	E1000581-010	✓	
	SJSH035-CR1B-2	E1000581-011	✓	
	SDFW-907C	E1000581-012	✓	✓
	SDFW-908C	E1000581-013	✓	✓
	SDFW-909C	E1000581-014	✓	✓
	SDFW-910C	E1000581-015	✓	✓
E1000605	SJSH008-CR1A	E1000605-001	✓	
	SJSH009-CR1A	E1000605-002	✓	
	SJSH010-CR1A	E1000605-003	✓	

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Sediment Sampling
Volatile Organic Compounds by Method SW8260B

This report documents the review of analytical data from the analyses of sediment samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples

SDG	Number of Samples	Validation Level
K1004785	7 Sediment & 1 Trip Blank	Stage 2B
K1004830	3 Sediment & 1 Trip Blank	Stage 2B
K1004836	2 Sediment	Stage 2B
K1004876	1 Sediment	Stage 2B
K1005009	21 Sediment	Stage 4
K1005109	3 Sediment	Stage 2B
K1005180	1 Sediment	Stage 2B
K1005253	43 Sediment	Stage 2B
K1005262	11 Sediment	Stage 2B
K1005283	7 Sediment	Stage 2B
K1005352	5 Sediment	Stage 2B
K1005422	4 Sediment	Stage 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory electronic data deliverable (EDD) were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The quality control (QC) requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times		Laboratory Control Samples (LCS/LCSD)
	GC/MS Instrument Performance Check	1	Field Replicates
	Initial Calibration (ICAL)	2	Internal Standards
	Continuing Calibration (CCAL)		Reporting Limits
1	Laboratory Blanks	2	Reported Results
1	Field (Trip) Blanks		Compound Identification (Full validation only)
	Surrogate Compounds	1	Calculation Verification (Full validation only)
	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)		

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

The validation guidance documents state that sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, at -1.4°C, and greater than the upper limit, at 7.1°C. These outliers did not impact data quality; therefore no qualifiers were assigned.

Laboratory Blanks

To assess the impact of each blank contaminant on the reported sample results, an action level is established at five times the concentration detected in the blank (ten times for common laboratory contaminants). If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-7) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level or for non-detected results.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks; however no qualifiers were applied.

Field (Trip) Blanks

Laboratory method blanks are used to evaluate all associated field blanks. Any remaining positive results in the trip blank are then used to evaluate all associated samples, including equipment blanks. Any remaining positive results in the equipment blank are used to evaluate the associated samples.

SDG K1004785: One trip blank, TB5-051010 was submitted. No target analytes were detected in this blank.

SDG K1004830: One field blank, TB6-051110 was submitted. No target analytes were detected in this blank.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) or relative standard deviation (RSD) control limit is 50% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1005009: One pair of field replicates was submitted, Samples SJNE-062-GR1-1 & SJNE-062-GR1-2. No target analytes were detected, field precision was acceptable.

SDG K1005109: One set of field triplicates was submitted, Samples SJNE-022-GR1, SJNE-022-GR2, & SJNE-022-GR3. Field precision was acceptable.

SDG K1005253: Two pair of field replicates was submitted, Samples SJNE-020-GR1-1 & SJNE-020-GR1-2 and SJNE-042-GR1-1 & SJNE-042-GR1-2. No target analytes were detected, field precision was acceptable.

Internal Standards

SDG K1005262: The recovery for the internal standard 1,2-dichlorobenzene-d4 was less than the 50% lower control limit in Sample SJVS001-GR1. The associated compounds were estimated (J/UJ-19).

Reported Results

SDG K1005109: The result for 1,2,3-trichlorobenzene was qualified as not detected (U-22), in Sample SJNE-022-GR1, due to matrix interference.

Calculation Verification

SDG K1005009: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD and MS/MSD percent recovery (%R) values. Precision was also acceptable as demonstrated by the LCS/LCSD, MS/MSD and field replicate RPD & RSD values.

One data point was qualified as not detected due to matrix interference. Data were estimated due to internal standard %R outliers.

All other data, as reported, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Sediment Sampling
Semivolatile Organic Compounds by Method SW8270C

This report documents the review of analytical data from the analyses of sediment samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Number of BEHP Only Samples	Validation Level
K1004785	12 Sediment		Stage 4
K1004825	2 Sediment	9 Sediment	Stage 2B
K1004830	8 Sediment		Stage 4
K1004878	1 Sediment & 1 Filter Wipe	18 Sediment	Stage 2B
K1005012	9 Sediment & 1 Filter Wipe	11 Sediment	Stage 2B
K1005028	8 Sediment	6 Sediment	Stage 2B
K1005106	3 Sediment	4 Sediment	Stage 2B
K1005175	1 Sediment	6 Sediment	Stage 2B
K1005237		29 Sediment	Stage 2B
K1005263	1 Sediment		Stage 2B
K1005281		20 Sediment	Stage 2B
K1005282		15 Sediment	Stage 2B
K1005284	1 Sediment		Stage 2B
K1005351	6 Sediment & 2 Filter Wipe		Stage 2B
		13 Sediment	Stage 4
K1005353	6 Sediment		Stage 2B
K1005357		20 Sediment	Stage 2B
K1005359	2 Filter Wipe	16 Sediment	Stage 2B
K1005390	1 Filter Wipe		Stage 2B
		7 Sediment	Stage 4
K1005523	2 Sediment	10 Sediment	Stage 2B
K1005525	4 Filter Wipe	15 Sediment	Stage 2B
K1005697		3 Sediment	Stage 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative**.**

SDG K1005237: A matrix spike/matrix spike duplicate (MS/MSD) analysis was done using Sample SJNE-026-CR1G. The MS was lost during sample preparation; only the MSD was reported for this batch and was renamed MS. Sample SJNE-026-CR1D was not included on the chain of custody (COC), but was included with the sample shipment.

SDG K1005263: All samples, except Sample SJVS001-GR1, were cancelled per the client's request.

SDG K1005351: Sample SJNE-066-GR1 was not included on the COC, but was included with the sample shipment.

SDG K1005353: Sample SJGB017S5 was recorded as SJB07S5 on the COC. The laboratory contacted the client and confirmed that the correct sample identification is SJB017S5. A discussion regarding the internal standard recovery for acenaphthene-d10, being less than the control limit in the undiluted analysis of sample SJB014S1, was not included in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

2	Sample Receipt, Preservation, and Holding Times	1	Laboratory Control Samples (LCS/LCSD)
	GC/MS Instrument Performance Check	1	Field Replicates
	Initial Calibration (ICAL)	2	Internal Standards
	Continuing Calibration (CCAL)		Target Analyte List
2	Laboratory Blanks		Reporting Limits (MDL and MRL)
1	Field Blanks		Compound Identification
2	Surrogate Compounds	1	Reported Results
1	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)	1	Calculation Verification (Full validation only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

The validation guidance documents state that sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, at -0.7°C, and greater than the upper limit, at 14.1°C. These outliers did not impact data quality; therefore no qualifiers were assigned.

SDG K1005028: Sample SJNE062-GR1-2, was re-extracted and re-analyzed outside the 14 day holding time criterion. All results were estimated (UJ-1).

SDG K1005390: The filter wipe blank, SDFW-903S, was extracted outside the seven day holding time criterion. All results were estimated (UJ-1).

Laboratory Blanks

To assess the impact of each blank contaminant on the reported sample results, an action level is established at five times the concentration detected in the blank (ten times for phthalates). If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-7) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however only the following analytes required qualification in one or more samples.

SDG K1005237: bis(2-ethylhexyl)phthalate (5 results)

SDG K1005359: bis(2-ethylhexyl)phthalate (1 result)

Field Blanks

Laboratory blanks are used to evaluate all associated field blanks. The field blanks for this project are filter wipe samples. Sample SDFW-920S was a master filter wipe blank; it was used to evaluate all other filter wipe blanks. Any remaining positive results in the field blank are then used to evaluate all associated samples. To evaluate the effect on the sample data, action levels of five times (5x) the blank concentrations were established. No field sample results were qualified based on filter wipe blank contamination; these associated results were either not detected or detected at levels greater than the action level.

SDG K1004878: One filter wipe blank, SDFW-901S, was submitted with this SDG. No target analytes were detected in this blank.

SDG K1005012: One filter wipe blank, SDFW-903S, was submitted with this SDG. Phenol was detected in this blank.

SDG K1005351: Two filter wipe blanks, SDFW-906S and SDFW-920S, were submitted with this SDG. No target analytes were detected in these blanks.

SDG K1005359: Two filter wipe blanks, SDFW-902C and SDFW-904C, were submitted with this SDG. A positive result remained for phenol in Sample SDFW-904C after qualifiers based on method blank contamination were issued.

SDG K1005390: One filter wipe blank, SDFW-911C, was submitted with this SDG. No target analytes was detected in this blank.

SDG K1005525: Four filter wipe blanks, SDFW-907C, SDFW-908C, SDFW-909C, and SDFW-910C, were submitted with this SDG. No target analytes were detected in these blanks.

Surrogate Compounds

SDG K1004878: The percent recovery (%R) value for phenol-d6 in the laboratory control sample (LCS) was greater than the upper control limit. No qualifiers were applied to this QC sample.

SDG K1005028: The %R values for all four surrogates were less than the lower control limit, in Sample SJNE062-GR1-2, two less than 10%. The sample was re-extracted and re-analyzed outside of the holding time with acceptable surrogate recoveries. The associated compounds were reported from the re-extracted sample; data was qualified as estimated (UJ-1) due to holding time outliers. The %R values for phenol-d6 and 2-fluorobiphenyl in the MS and phenol-d6 in the MSD were greater than the upper control limits. No qualifiers were applied to these QC samples.

SDG K1005263: The %R values for 2-fluorobiphenyl and d14-p-terphenyl in the MS were greater than the upper control limit. No qualifiers were applied to this QC sample.

SDG K1005282: The %R value for d14-p-terphenyl in the MS was greater than the upper control limit. No qualifiers were applied to this QC sample.

SDG K1005523: The %R value for 2,4,6-tribromophenol was less than the lower control limit in Samples SJSH014-CR1A-1 and SJSH014-CR1A-2. Associated acid compound results were estimated (UJ-13).

SDG K1005525: The %R value for phenol-d6 in the laboratory control sample duplicate (LCSD) was greater than the upper control limit. No qualifiers were applied to this QC sample.

Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate samples were analyzed at the appropriate frequency. No action is taken unless both the MS and MSD %R values are outside the control limits for MS/MSD %R outliers. Precision is indicated by the relative percent difference (RPD) between the MS and MSD values. RPD values outside the control limits indicate uncertainty in the measured results for the sample. Qualifiers were only issued to the parent sample.

When the MS/MSD %R values indicate a potential low bias, associated results are estimated (J/UJ-8). Only the associated positive results are estimated (J-8) if the %R values indicate a potential high bias. Associated positive results are estimated (J-9) if the RPD values indicate uncertainty.

SDGs K1004878, K1005012, K1005351, & K1005525: The MS/MSD analyses were not performed in the batches associated with only filter wipe samples. Precision and accuracy were evaluated using the LCS/LCSD.

SDG K1005012: A Batch QC sample was used for the MS/MSD analysis. The MSD %R values for 2,3,4,6-tetrachlorophenol and carbazole were less than the lower control limit. The RPD values for all compounds were greater than the control limit, except bis(2-ethylhexyl)phthalate. The parent sample was not from this SDG; no qualifiers were applied.

SDG K1005282: A Batch QC sample was used for the MS/MSD analysis. The MS %R for bis(2-ethylhexyl)phthalate was greater than the upper control limit. The parent sample was not from this SDG; no qualifiers were applied.

SDG K1005357: A Batch QC sample was used for the MS/MSD analysis. The RPD value for bis(2-ethylhexyl)phthalate was greater than the control limit. The parent sample was not from this SDG; no qualifiers were applied.

SDG K1005359: The MS/MSD analysis was performed using Sample SJNE035-CR1. The RPD value for bis(2-ethylhexyl)phthalate was greater than the control limit. This analyte was not detected in the parent sample; no qualifiers were applied.

SDG K1005523: The MS/MSD analyses were not performed in the batch associated with samples SJSH014-CR1A-1 and SJSH014-CR1A-2. Precision and accuracy were evaluated using the LCS/LCSD.

Laboratory Control Samples

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) samples were analyzed at the appropriate frequency. The %R value outliers are documented in the data validation worksheets. No action is taken unless both the LCS and LCSD %R values are outside the control limits for LCS/LCSD %R outliers. Qualifiers are issued to all samples in the same preparation batch.

When the LCS/LCSD %R values indicate a potential low bias, associated results are estimated (J/UJ-10). If the %R values indicate a potential high bias only the associated positive results are estimated (J-10).

SDG K1004878: The LCS %R values for phenol and acenaphthene were greater than the upper control limit. These analytes were not detected in the associated samples; no qualifiers were applied.

SDG K1005175: The LCS %R value for acenaphthene was greater than the upper control limit. The LCSD %R value was acceptable; no qualifiers were required for this single outlier.

Field Replicates

The following acceptance criteria were used to evaluate precision: the RPD or relative standard deviation (RSD) control limit is 50% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less

than 5x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1004825: One pair of field replicates was submitted, Samples SJNE-020-GR1-1 and SJNE-020-GR1-2. No bis (2-ethylhexyl) phthalate was detected, field precision was acceptable.

SDG K1005012: One pair of field replicates was submitted, Samples SJNE-042-GR1-1 and SJNE-042-GR1-2. No bis (2-ethylhexyl) phthalate was detected, field precision was acceptable.

SDG K1005028: One pair of field replicates was submitted, Samples SJNE062-GR1-1 and SJNE062-GR1-2. No target analytes were detected, field precision was acceptable.

SDG K1005106: One set of field triplicates was submitted, Samples SJNE-022-GR1, SJNE-022-GR2, & SJNE-022-GR3. The %RSD values were greater than the control limit for acenaphthene, fluorene, naphthalene, phenanthrene, and phenol; however, the detected results for these analytes were less than the reporting limit. A higher amount of variance is common at lower concentrations.

SDG K1005175: One pair of field replicates was submitted, Samples SJSH040-CR1A-1 and SJSH040-CR1A-2. No bis (2-ethylhexyl) phthalate was detected, field precision was acceptable.

SDG K1005351: One pair of field replicates was submitted, Samples SJSH064-GR1-1 and SJSH064-GR1-2. No bis (2-ethylhexyl) phthalate was detected, field precision was acceptable.

SDG K1005523: Three pair of field replicates was submitted, Samples SJSH005-CR1A-1 & SJSH005-CR1A-2, SJSH014-CR1A-1 & SJSH014-CR1A-2, and SJSH014-CR1B-1 & SJSH014-CR1B-2. Field precision for bis (2-ethylhexyl) phthalate was acceptable.

SDG K1005525: Three pair of field replicates was submitted, Samples SJSH025-CR1A-1 & SJSH025-CR1A-2, SJSH035-CR1A-1 & SJSH035-CR1A-2, and SJSH035-CR1B-1 & SJSH035-CR1B-2. Field precision for bis (2-ethylhexyl) phthalate was acceptable.

Internal Standards

SDG K1005353: The recovery for the internal standard acenaphthene-d10 was less than the 50% lower control limit in Sample SJGB014S1. The sample was re-analyzed at dilution (5x) with an acceptable acenaphthene-d10 recovery. The associated compounds were reported from the dilution analysis; no qualifiers were necessary.

SDG K1005523: The recovery for the internal standard chrysene-d12 was greater than the 200% upper control limit in sample SJSH012-CR1A. The bis (2-ethylhexyl) phthalate result in this sample was estimated (J-19).

Reporting Limits

SDG K1005353: The reporting limits for eight compounds were elevated due to matrix interferences in Sample SJGB014S1.

Reported Results

SDG K1005351: The bis(2-ethylhexyl) phthalate result exceeded the calibrated range in Sample SJWRP-001. This sample was re-analyzed at dilution (10x).

Calculation Verification

SDGs K1004785, K1005351, & K1005390: Calculation verifications were performed for these SDG. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, MS/MSD, and LCS/LCSD % R values, with the exceptions noted above. Precision was also acceptable as demonstrated by the MS/MSD, LCS/LCSD, and field replicate RPD and RSD values, with the exceptions noted above.

Data were qualified as not detected based on method blank contamination. Data were estimated due to holding time outliers and surrogate and internal standard %R outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Sediment Sampling
PCB Aroclors by Method SW8082

This report documents the review of analytical data from the analyses of sediment samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Analytical Resources, Inc., Tukwila, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1004785	12 Sediment	Stage 2B
K1004825	2 Sediment	Stage 2B
K1004830	8 Sediment	Stage 4
K1004878	1 Sediment	Stage 2B
K1005012	9 Sediment	Stage 2B
K1005028	8 Sediment	Stage 2B
K1005106	3 Sediment	Stage 2B
K1005175	1 Sediment	Stage 2B
K1005263	1 Sediment	Stage 2B
K1005284	1 Sediment	Stage 2B
K1005351	5 Sediment	Stage 2B
K1005353	6 Sediment	Stage 2B
K1005263	1 Sediment	Stage 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG K1005263: With the exception of Sample SJVS001-GR1, all samples were cancelled per the client's request.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table

1	Sample Receipt, Preservation, and Holding Times	2	Matrix Spikes/Matrix Spike Duplicate (MS/MSD)
	Initial Calibration (ICAL)	1	Field Replicates
	Continuing Calibration (CCAL)	1	Reporting Limits
	Laboratory Blanks	1	Compound Identification
1	Field Blanks		Reported Results
1	Surrogate Compounds	1	Calculation Verification (Full Validation only)
	Laboratory Control Samples (LCS/LCSD)		

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, at -1.4°C, and greater than the upper limit, at 14.1°C. These outliers did not impact data quality; therefore no qualifiers were assigned.

Field Blanks

No field blanks were submitted with this analytical fraction.

Surrogate Compounds

SDG K1005353: The percent recovery (%R) value for decachlorobiphenyl in Sample SJGB 014 S1 was greater than the upper control limit, at 198%. This sample was analyzed at dilution (20x); no qualifiers were assigned.

Matrix Spike/Matrix Spike Duplicate

SDG K1004785: The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed using Sample SJGB014-S2. The relative percent difference (RPD) values for both spiked Aroclors, 1016 and 1260, were greater than the control limits, at 96% and 89%, respectively. Aroclor 1254 was detected in the sample but not in the MS or MSD. The result for Aroclor 1254 was estimated (J-9) in the parent sample due to the inconsistencies between the original, the MS, and the MSD results.

Field Replicates

The following acceptance criteria were used to evaluate precision: the RPD or relative standard deviation (RSD) control limit is 50% for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the absolute difference between the sample and replicate must be less than 2x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1005028: One set of field replicates, SJNE062-GR1-1 & SJNE062-GR1-2, was submitted. No target analytes were detected, field precision was acceptable.

SDG K1005106: One set of field triplicates was submitted, Samples SJNE-022-GR1, SJNE-022-GR2, & SJNE-022-GR3. No target analytes were detected, field precision was acceptable.

Reporting Limits

SDG K1004825: The reporting limit for Aroclor 1221 was elevated due to matrix interference in Sample SJNE008-GR1.

SDG K1004785: The reporting limits for several Aroclors were elevated due to matrix interference in Samples SJGB014-S2, SJGB014-S3, and SJGB014-S3.

SDG K1004830: The reporting limits for several Aroclors were elevated due to matrix interference in Samples SJGB013-S1, SJGB013-S2, and SJGB013-S3.

SDG K1004878: The reporting limits for several Aroclors were elevated due to matrix interference in Sample SJNE007-GR1.

SDG K1005012: The reporting limits for several Aroclors were elevated due to matrix interference in Samples SJNE-041-GR1, SJNE-032-GR1, and SJNE-033-GR1.

SDG K1005106: The reporting limits for several Aroclors were elevated due to matrix interference in Samples SJNE-022-GR1, SJNE-022-GR2, and SJNE-022-GR3.

SDG K1005263: The reporting limits for several Aroclors were elevated due to matrix interference in all samples.

SDG K1005284: The reporting limits for all Aroclors were elevated; the sample was analyzed at dilution (10x) due to matrix interference in Sample SJVS 016-GR1.

SDG K1005353: The reporting limits for all Aroclors were elevated in Sample SJGB 014 S1; the sample was analyzed at dilution (20x) due to matrix interference. The reporting limits for several Aroclors were elevated due to matrix interference in Sample SJGB 013 S1.

Compound identification

The reported compound identifications were verified by using the quantitation reports (comparing the reported concentrations for each congener used for Aroclor identification), and also by comparing the patterns in the sample chromatogram to the patterns in the standard chromatogram. All compound identifications were acceptable.

Calculation Verification

SDG K1004830: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate, MS/MSD, and laboratory control sample (LCS) %R values, with the exception noted above. Precision was also acceptable as demonstrated by the MS/MSD and field replicate RPD or RSD values, with the exception noted above.

One data point was estimated due to a MS/MSD precision outlier.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Sediment Sampling
Dioxin/Furan Compounds by EPA 1613B

This report documents the review of analytical data from the analyses of sediment samples and the associated laboratory quality control (QC) samples. Columbia Analytical Services, Houston, Texas, analyzed the samples. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
E1000500	12 Sediment	EPA Stage 4
E1000514	8 Sediment	EPA Stage 4
E1000515	11 Sediment	EPA Stage 2B
E1000516	18 Sediment, 1 Filter Wipe	EPA Stage 2B
E1000524	13 Sediment	EPA Stage 2B
E1000525	1 Sediment	EPA Stage 4
E1000532	20 Sediment	EPA Stage 2B
E1000533	1 Filter Wipe	EPA Stage 2A
E1000543	7 Sediment	EPA Stage 2B
E1000547	7 Sediment	EPA Stage 2B
E1000553	19 Sediment	EPA Stage 2B
E1000554	10 Sediment	EPA Stage 2B
E1000557	15 Sediment	EPA Stage 2B
E1000558	20 Sediment	EPA Stage 2B
E1000559	1 Sediment	EPA Stage 2B
E1000566	20 Sediment	EPA Stage 4
E1000567	16 Sediment, 2 Filter Wipe	EPA Stage 4
E1000568	1 Sediment	EPA Stage 2B
E1000569	17 Sediment	EPA Stage 4
E1000570	8 Sediment, 2 Filter Wipe	EPA Stage 4
E1000571	7 Sediment, 1 Filter Wipe	EPA Stage 2B
E1000580	19 Sediment	EPA Stage 2B
E1000581	8 Sediment, 4 Filter Wipe	EPA Stage 2B
E1000605	3 Sediment	EPA Stage 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG E1000516: A sample was listed on the chain of custody (COC) as SJNE036-GR1; communications between the client and the laboratory resulted in changing the sample ID to SJNE025-GR1.

SDG E1000524: The analyses for seven samples were cancelled by the client because the samples were received at the laboratory with cooler temperatures significantly greater than the upper control limit (6°C).

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times	1	Matrix Spike/Matrix Spike Duplicate (MS/MSD)
	GC/MS Instrument Performance Check	2	Laboratory Control Samples (LCS/LCSD)
	Initial Calibration (ICAL)		Reference Material (RM)
	Calibration Verification (CVER)	1	Field Replicates
	Isomer Specificity		Target Analyte List
2	Laboratory Blanks	2	Reported Results
1	Field Blanks	2	Compound Identification
2	Labeled Compound Recovery	1	Calculation Verification (EPA Stage 4 only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, at 0°C, and greater than the upper limit, at 10°C. These outliers did not impact data quality; therefore no qualifiers were assigned.

Laboratory Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-7). If the result is also less than the reporting limit, then the result is elevated to the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however only the following analytes required

qualification in one or more samples:

SDG E1000500: 1,2,3,7,8,9-HxCDF (4 results), 2,3,4,6,7,8-HxCDF (1 result), 1,2,3,4,6,7,8-HpCDF (3 results), 1,2,3,4,7,8,9-HpCDF (1 result)

SDG E1000514: 1,2,3,4,6,7,8-HpCDF (2 results), OCDF (1 result)

SDG E1000533: 1,2,3,4,6,7,8-HpCDD (1 result), OCDD (1 result)

SDG E1000554: OCDF (1 result)

SDG E1000557: 1,2,3,4,6,7,8-HpCDF (1 result), OCDF (1 result)

SDG E1000558: 1,2,3,4,6,7,8-HpCDD (1 result)

SDG E1000567: OCDD (1 result)

SDG E1000570: OCDD (1 result)

SDG E1000571: OCDD (1 result)

SDG E1000581: 1,2,3,4,6,7,8-HpCDD (2 results), OCDD (4 results), OCDF (1 result)

Field Blanks

Laboratory blanks are used to evaluate all associated field blanks. The field blanks for this project are filter wipe samples. Sample SDFW-920S was a master filter wipe blank; it was used to evaluate all other filter wipe blanks. Any remaining positive results in the field blank are then used to evaluate all associated samples. To evaluate the effect on the sample data, action levels of five times (5x) the blank concentrations were established. No field sample results were qualified based on filter wipe blank contamination; these associated results were either not detected or detected at levels greater than the action level.

SDG E1000516: One filter wipe blank, SDFW-901S, was submitted with this SDG. No target analytes were detected in this blank.

SDG E1000533: One filter wipe blank, SDFW-903S, was submitted with this SDG. No target analytes were detected in this blank after qualifiers based on method blank contamination were issued.

SDG E1000567: Two filter wipe blanks, SDFW-902C and SDFW-904C were submitted with this SDG. A positive result for 2,3,7,8-TCDF remained in Sample SDFW-902C and a positive result for 1,2,3,4,6,7,8-HpCDD remained in Sample SDFW-904C after qualifiers based on method blank contamination were issued.

SDG E1000570: Two filter wipe blanks, SDFW-906S and SDFW-920S were submitted with this SDG. A positive result for 1,2,3,4,6,7,8-HpCDF remained in Sample SDFW-906S after qualifiers based on method blank contamination were issued.

SDG E1000571: One filter wipe blank, SDFW-911C, was submitted with this SDG. No target analytes were detected in this blank after qualifiers based on method blank contamination were issued.

SDG E1000581: Four filter wipe blanks, SDFW-907C, SDFW-908C, SDFW-909C, and SDFW-910C were submitted with this SDG. No target analytes were detected in these blanks after qualifiers based on method blank contamination were issued.

Labeled Compound Recovery

Labeled compounds were added to all samples. The labeled compound percent recovery (%R) values were evaluated using the laboratory control limits. If the labeled compound recovery outlier value indicates high bias, positive results for the associated compounds are estimated (J-13); whereas outlier values indicating low bias, positive results and reporting limits for the associated compounds are estimated (J/UJ-13).

SDG E1000514: The %R values for seven labeled compounds (ranging from 18% to 27%) were less than the lower control limit in Sample SJGB013-S1. The associated target analytes were estimated (J-10). The %R values for all the labeled compounds in the dilution analysis (50x) of Sample SJGB013-S1 were less than the lower control limit. The dilution was greater than a factor of ten; no qualifiers were applied.

SDG E1000516: The %R value for 13C-1,2,3,6,7,8-HxCDF (at 142%) was greater than the upper control limit in Sample SDFW-901S. The associated target analyte was not detected; no qualifiers were applied.

SDG E1000558: The %R values for 13C-1,2,3,4,7,8-HxCDD and 13C-1,2,3,7,8,9-HxCDF (at 30% & 28%) were less than the lower control limit in Sample SJNE023-CR1B. The associated target analytes were estimated (UJ-13) in this sample.

SDG E1000567: The %R values for 13C-1,2,3,7,8,9-HxCDF in Samples SJNE032-CR1I and SJNE035-CR1E were less than the lower control limit, at 28% & 12%. The associated results were estimated (UJ-13). The %R value for 13C-OCDD (at 23%) was less than the lower control limit in Sample SJNE035-CR1E; the associated result was estimated (J-13).

SDG E1000569: The %R value for 13C-1,2,3,4,7,8-HxCDD (at 31%) in Sample SJGB013-S4 was less than the lower control limit. The associated result was estimated (UJ-13). In the dilution analysis (200x) of Sample SJGB014-S1 the %R value for 37Cl-2,3,7,8-TCDD (at 256%) was greater than the upper control. The dilution was greater than a factor of ten; no qualifiers were applied.

SDG E1000581: The %R value for 13C-1,2,3,6,7,8-HxCDD (at 133%) was greater than the upper control limit in Sample SJSH033-CR1B. The associated target analyte was not detected; no qualifiers were applied.

Matrix Spike/Matrix Spike Duplicate

Matrix spike/matrix spike duplicate (MS/MSD) samples were not analyzed. Accuracy and precision were evaluated using the laboratory control sample/laboratory control sample duplicate (LCS/LCSD).

Laboratory Control Samples

SDG E1000500: The LCS/LCSD %R values for 1,2,3,6,7,8-HxCDD were greater than the upper control limit in extraction batch 111122. Associated results were estimated (J-10). The LCS %R value for 1,2,3,6,7,8-HxCDD was greater than the upper control limit in extraction batch 111255. The LCSD %R value was within control limits; no qualifiers were applied for this single outlier.

SDGs E1000514, E1000516, E1000524, E1000525, & E1000554: The LCS %R value for 1,2,3,6,7,8-HxCDD was greater than the upper control limit in extraction batches 111255, 111512, 111716, and 112161. The LCSD %R value was within control limits; no qualifiers were applied for this single outlier.

SDG E1000532: The LCS %R values for 1,2,3,6,7,8-HxCDD were greater than the upper control limit in extraction batches 111512 and 111716. The LCSD %R values were within control limits; no qualifiers were applied for these single outliers. The LCS/LCSD %R values for 1,2,3,6,7,8-HxCDD were greater than the upper control limit in extraction batch 111719. This analyte was not detected in the associated samples; no qualifiers were applied.

SDGs E1000543 & E1000547: The LCS/LCSD %R values for 1,2,3,6,7,8-HxCDD were greater than the upper control limit in extraction batch 111719. Associated results were estimated (J-10).

SDG E1000553: The LCS/LCSD %R values for 1,2,3,6,7,8-HxCDD were greater than the upper control limit in extraction batch 111719. Associated results were estimated (J-10). In extraction batch 112161 the LCS %R value for 1,2,3,6,7,8-HxCDD was greater than the upper control limit. The LCSD %R value was within control limits; no qualifiers were applied for this single outlier.

SDGs E1000557 & E1000558: The LCS/LCSD %R values for 1,2,3,6,7,8-HxCDF and 1,2,3,4,6,7,8-HpCDF were less than the lower control limit in extraction batch 112164. The associated results were estimated (J/UJ-10).

SDGs E1000567 & E1000568: The LCS/LCSD %R values for 1,2,3,6,7,8-HxCDF and 1,2,3,4,6,7,8-HpCDF were less than the lower control limit in extraction batches 112167 and 112184. The associated results were estimated (J/UJ-10).

SDGs E1000569, E1000571, & E1000580: The LCS/LCSD %R values for 1,2,3,6,7,8-HxCDF and 1,2,3,4,6,7,8-HpCDF were less than the lower control limit in extraction batches 112167 and 112184. The associated results were estimated (J/UJ-10).

SDG E1000570: The LCS/LCSD %R values for 1,2,3,6,7,8-HxCDF and 1,2,3,4,6,7,8-HpCDF were less than the lower control limit in extraction batch 112167. Associated results were estimated (J/UJ-10). The LCS/LCSD %R values for 1,2,3,6,7,8-HxCDF and 1,2,3,4,6,7,8-HpCDF were less than the lower control limit in extraction batch 112184. The associated results were estimated (J/UJ-10).

SDG E1000581: In extraction batch 113018 the LCS %R value for 1,2,3,4,6,7,8-HpCDF was greater than the upper control limit. The LCSD %R value was within control limits; no qualifiers were applied for this single outlier.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) or relative standard deviation (RSD) control limit is 50% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Users of the data should consider the impact of field precision outliers on the reported results.

SDG E1000515: One set of field replicates, SJNE020-GR1-1 & SJNE020-GR1-2, was submitted. The RPD values were greater than the control limit for all analytes and homologue groups except 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, and 1,2,3,7,8,9-HxCDF.

SDG E1000524: One set of field replicates, SJNE062-GR1-1 & SJNE062-GR1-2, was submitted. All field precision criteria were met.

SDG E1000532: One set of field replicates, SJNE042-GR1-1 & SJNE042-GR1-2, was submitted. All field precision criteria were met.

SDG E1000543: One set of field triplicates was submitted, Samples SJNE-022-GR1, SJNE-022-GR2, & SJNE-022-GR3. The RSD values were greater than the control limit for all analytes and homologue groups except 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, and 1,2,3,7,8,9-HxCDD.

SDG E1000547: One set of field replicates, SJSH040-CR1A-1 & SJSH040-CR1A-2, was submitted. All field precision criteria were met.

SDG E1000570: One set of field replicates, SJSH064-GR1-1 & SJSH064-GR1-2, was submitted. All field precision criteria were met.

SDG E1000580: Four sets of field replicates were submitted. For the pair SJSH005-CR1A-1

and SJSH005-CR1A-2, the RPD values for 1,2,3,4,6,7,8-HpCDD, OCDD, 2,3,7,8-TCDF, total Hepta-CDD, and total Tetra-CDF were greater than the control limit. The RPD values for OCDD, total Hepta-CDD, and total Tetra-CDF were greater than the control limit for the pairs SJSH014-CR1A-1 & SJSH014-CR1A-2 and SJSH014-CR1B-1 & SJSH014-CR1B-2. Precision was acceptable for the pair SJSH025-CR1A-1 and SJSH025-CR1A-2.

SDG E1000581: Two sets of field replicates were submitted. The RPD values for 2,3,7,8-TCDD, 2,3,7,8-TCDF, OCDD, total Tetra-CDD, and total Tetra-CDF were greater than the control limit for the pair SJSH035-CR1A-1 & SJSH035-CR1A-2. The RPD value for total Hepta-CDD was greater than the control limit for the pair SJSH035-CR1B-1 & SJSH035-CR1B-2.

Reported Results

Reported concentrations for several compounds (usually 2,3,7,8-TCDF and 2,3,7,8-TCDD) were greater than the calibrated linear range of the instrument; the laboratory qualified these results with an "E". Affected sample extracts were diluted and re-analyzed; both sets of data were reported and reviewed. The results for these compounds from the original analyses were qualified as do-not-report (DNR-20) and should be reported from the diluted analyses. All other results in the diluted analyses were qualified (DNR-11) and the original results should be reported. Affected samples are listed below.

SDG E1000500: The results for 2,3,7,8-TCDF from the DB-225 column exceeded the calibrated range in Samples SJGB014-S3, SJGB014-S4, and SJGB016-S1. These samples were diluted (5x, 10x or 20x) and re-analyzed. The 2,3,7,8-TCDD result in Sample SJGB016-S1 exceeded the calibrated range. This sample was diluted (20x) and re-analyzed.

SDG E1000514: The results for 2,3,7,8-TCDF from the DB-225 column exceeded the calibrated range in Samples SJGB013-S1, SJGB013-S2, and SJGB013-S3. These samples were diluted (5x, 10x or 50x) and re-analyzed. The 2,3,7,8-TCDD results in Samples SJGB013-S1 and SJGB013-S2 exceeded the calibrated range. These samples were diluted (10x or 20x) and re-analyzed.

SDG E1000543: The results for 2,3,7,8-TCDF from the DB-225 column exceeded the calibrated range in Samples SJNE022-GR1, SJNE022-GR2, and SJNE022-GR3. These samples were diluted (5x, 10x or 20x) and re-analyzed. The 2,3,7,8-TCDD result in Samples SJNE022-GR2 and SJNE022-GR3 exceeded the calibrated range. These samples were diluted (10x or 20x) and re-analyzed.

SDG E1000559: The result for 2,3,7,8-TCDF from the DB-225 column exceeded the calibrated range in Sample SJVS016-GR1. This sample was diluted (10x) and re-analyzed.

SDG E1000566: The result for 2,3,7,8-TCDF from the DB-225 column exceeded the calibrated range in Sample SJNE-032-CR1A. This sample was diluted (5x) and re-analyzed.

SDG E1000567: The results for 2,3,7,8-TCDF from the DB-225 column exceeded the calibrated range in Samples SJNE032-CR1D and SJNE032-CR1F. These samples were diluted (5x) and re-analyzed.

SDG E1000568: The result for 2,3,7,8-TCDF from the DB-225 column exceeded the calibrated range in Sample SJVS001-GR1. In the same sample the result for 2,3,7,8-TCDD exceeded the calibrated range. This sample was diluted (20x) and re-analyzed for both the DB-5 and DB-225 columns.

SDG E1000569: The results for 2,3,7,8-TCDF from the DB-225 column exceeded the calibrated range in Samples SJGB014S1, SJGB008-GR1, and SJGB007-GR1. These samples were diluted (10x or 200x) and reanalyzed. The 2,3,7,8-TCDD result exceeded the calibrated range in Sample SJGB014S1. This sample was diluted (50x) and re-analyzed.

SDG E1000570: In Sample SJSH064-GR1-1 a not detected result was reported from the DB-5 column and a positive result was reported from the DB-225 column. The positive result was qualified do-not-report (DNR-11) in favor of the initial non-detect result.

Compound Identification

The laboratory assigned K-flags to results where a peak was detected but did not meet ion ratio quantitation criteria. The reported values cannot be considered as positive identifications for these analytes. These results were considered potential false positives or estimated maximum possible concentrations (EMPC) and were qualified as not detected (U-22) at the reported values. Laboratory blank values flagged "K" were considered as non-detects.

All positive results for 2,3,7,8-TCDF were confirmed on a DB-225 column as required by the method. The 2,3,7,8-TCDF results from the DB-5 column were qualified do-not-report (DNR-11) in favor of the results from the DB-225 column.

SDG E1000570: For Sample SJWRP-001, the laboratory assigned P-flags to results for several analytes to indicate the presence of chlorodiphenyl ether interference. The results for these analytes were estimated (J-14).

Calculation Verification

SDGs E1000500, E1000514, E1000525, E1000566, E1000567, E1000569, & E1000570: Calculation verifications were performed for these SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by labeled compound and LCS/LCSD %R values, with the exceptions noted above. Precision was also acceptable as demonstrated by the LCS/LCSD and field replicate RPD or RSD values, with the exceptions noted above.

Data were qualified as not detected due to laboratory blank contamination and ion ratio criteria outliers. Data were qualified as estimated based on labeled compound, LCS/LCSD %R outliers, and diphenyl ether interferences.

Data were flagged as do-not-report (DNR) due to linear calibration range outliers; and to indicate which result (from multiple reported analyses) should not be used. Data that has been flagged DNR should not be used for any purpose.

All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Sediment Sampling
PCB Congeners by EPA 1668A

This report documents the review of analytical data from the analyses of sediment samples and the associated laboratory quality control (QC) samples. Columbia Analytical Services, Houston, Texas, analyzed the samples. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
E1000500	12 Sediment	EPA Stage 4
E1000514	8 Sediment	EPA Stage 4
E1000515	2 Sediment	EPA Stage 2B
E1000516	1 Sediment, 1 Filter Wipe	EPA Stage 2B
E1000524	8 Sediment	EPA Stage 2B
E1000532	9 Sediment	EPA Stage 2B
E1000533	1 Filter Wipe	EPA Stage 2A
E1000543	3 Sediment	EPA Stage 2B
E1000547	1 Sediment	EPA Stage 2B
E1000559	1 Sediment	EPA Stage 2B
E1000567	2 Filter Wipe	EPA Stage 2A
E1000568	1 Sediment	EPA Stage 2B
E1000569	8 Sediment	EPA Stage 2B
E1000570	4 Sediment, 2 Filter Wipe	EPA Stage 2B
E1000571	1 Filter Wipe	EPA Stage 2A
E1000581	4 Filter Wipe	EPA Stage 2A

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG E1000524: The analyses for seven samples were cancelled by the client because the samples were received at the laboratory at temperatures significantly greater than the 6°C temperature upper control limit.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times	1	Matrix Spike/Matrix Spike Duplicate (MS/MSD)
	GC/MS Instrument Performance Check		Laboratory Control Samples (LCS/LCSD)
	Initial Calibration (ICAL)		Reference Material (RM)
	Calibration Verification (CVER)	1	Field Replicates
	Isomer Specificity		Target Analyte List
2	Laboratory Blanks	2	Reported Results
1	Field Blanks	2	Compound Identification
2	Labeled Compound Recovery	1	Calculation Verification (EPA Stage 4 only)

[1] Quality control results are discussed below, but no data were qualified.
[2] Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, at 0°C. These outliers did not impact data quality; therefore no qualifiers were assigned.

Laboratory Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-7). If the result is also less than the reporting limit, then the result is elevated to the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks; however only the following analytes required qualification in one or more samples.

SDG E1000500: PCB 118 (5 results)

SDG E1000514: PCB 118 (4 results)

SDG E1000516: PCB 118 (1 result)

SDG E1000524: PCB 105 (2 results), PCB 118 (2 results), PCB 156/157 (1 result)

SDG E1000533: PCB 118 (1 result)

SDG E1000567: PCB 118 (2 results)

SDG E1000569: PCB 105 (2 results) and PCB 118 (6 results)

SDG E1000570: PCB 105 (2 results) and PCB 118 (3 results)

SDG E1000571: PCB 118 (1 result)

SDG E1000581: PCB 118 (3 results) and PCB 156/157 (3 results)

Field Blanks

Laboratory blanks are used to evaluate all associated field blanks. The field blanks for this project are filter wipe samples. Sample SDFW-920S was a master filter wipe blank; it was used to evaluate all other filter wipe blanks. Any remaining positive results in the field blank are then used to evaluate all associated samples. Action levels of five times (5x) the blank concentrations were established to evaluate the effect on the sample data. No field sample results were qualified based on filter wipe blank contamination; these associated results were either not detected or detected at levels greater than the action level.

SDG E1000516: One filter wipe blank, SDFW-901S, was submitted with this SDG. A positive result remained for PCB 156/157 after qualifiers based on method blank contamination were issued.

SDG E1000533: One filter wipe blank, SDFW-903S, was submitted with this SDG. Positive results remained for PCB 105, PCB 156/157, and PCB 167 after qualifiers based on method blank contamination were issued.

SDG E1000567: Two filter wipe blanks, SDFW-902C and SDFW-904C were submitted with this SDG. Positive results remained for PCB 105, PCB 156/157, and PCB 167 in Sample SDFW-902C and positive results for PCB 77, PCB 105, and PCB 156/157 in Sample SDFW-904C after qualifiers based on method blank contamination were issued.

SDG E1000570: Two filter wipe blanks, SDFW-906S and SDFW-920S were submitted with this SDG. No target analytes were detected in these samples.

SDG E1000571: One filter wipe blank, SDFW-911C, was submitted with this SDG. Positive results remained for PCB 105 and PCB 156+157 after qualifiers based on method blank contamination were issued.

SDG E1000581: Four filter wipe blanks, SDFW-907C, SDFW-908C, SDFW-909C, and SDFW-910C were submitted with this SDG. Positive results remained for PCB 105 and PCB 167 in Sample SDFW-909C after qualifiers based on method blank contamination were issued.

Labeled Compound Recovery

Labeled compounds were added to all samples. The labeled compound percent recovery (%R) values were evaluated using the laboratory control limits. If the labeled compound recovery outlier value indicates high bias, positive results for the associated compounds are estimated (J-13); for outlier values indicating low bias, positive results and reporting limits for the associated compounds are estimated (J/UJ-13).

SDG E1000514: The %R values for PCB 111L and PCB 178L were less than 10% in the diluted analyses of Samples SJGB013-S1 and SJGB013-S1. These labeled compounds are QC compounds, no qualifiers were applied.

SDGs E1000516, E1000567, & E1000571: The %R values for all labeled congeners were less than the lower control limits in one method blank. No qualifiers were applied to this QC sample.

SDG E1000532: The %R value for PCB 169L was greater than the upper control limit in Sample SJNE028-GR1. This analyte was not detected in the sample; no qualifiers were applied.

SDG E1000543: The %R value for PCB 126L was greater than the upper control limit in Sample SJNE022-GR1; PCB126 was estimated (J-13) in this sample.

SDG E1000569: The %R values for PCB 111L and PCB178L were less than the lower control limit in Sample SJGB014S1. These labeled compounds are QC compounds, no qualifiers were applied.

SDG E1000570: The %R values for , PCB 105L, PCB 114L, PCB 156L/157L, PCB 167L, PCB 169L, PCB 189L, PCB 111L, and PCB 178L were less than the lower control limit in Sample SJNE070-GR1. The associated analytes were estimated (J/UJ-13) in this sample.

The %R values for PCB 77L, PCB 81L, and PCB 126L were greater than the upper control limit in Sample SJWRP-001; PCB 77 and PCB 81 were estimated (J-13) in this sample.

The %R values for PCB 111L and PCB 178L were less than the lower control limit in Sample SJWRP-001 (10x dilution). No qualifiers were applied for these QC compounds.

The %R values for PCB 167L, PCB 189L, PCB 111L, and PCB 178L were less than the lower control limit in Sample SDFW-920S; PCB 167 and PCB 189 were estimated (UJ-13) in this sample.

The %R values for all labeled congeners were less than the lower control limit in one method blank. No qualifiers were applied to this QC sample.

SDG E1000581: The %R value for PCB178L was less than the lower control limit in one method blank. No qualifiers were applied to this QC sample.

Matrix Spike/Matrix Spike Duplicate

Matrix spike/matrix spike duplicate (MS/MSD) samples were not analyzed. Accuracy and precision were evaluated using the laboratory control sample/laboratory control sample duplicate (LCS/LCSD).

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) or relative standard deviation (RSD) control limit is 50% for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the absolute difference between the sample and replicate must be less than 2x the RL. No data were qualified based on field replicate precision outliers. Users of the data should consider the impact of field precision outliers on the reported results.

SDG E1000524: One set of field replicates, SJNE062-GR1-1 & SJNE062-GR1-2, was submitted. All field precision criteria were met.

SDG E1000543: Field triplicates were submitted, Samples SJNE-022-GR1, SJNE-022-GR2, & SJNE-022-GR3. The RSD values for PCB 77, PCB156/157, PCB 167, PCB 169, and PCB 189 were greater than 50%, ranging from 54% to 82%. However, the detected results for PCB 77, PCB 169, and PCB 189 were less than the reporting limit. A higher amount of variance is common at lower concentrations.

Reported Results

Reported concentrations for several compounds were greater than the calibrated linear range of the instrument; the laboratory flagged these results with an "E". Affected sample extracts were diluted and re-analyzed; both sets of data were reported and reviewed. The results for these compounds from the original analyses were flagged as do-not-report (DNR-20) and should be reported from the diluted analyses. All other results in the diluted analyses were flagged as do-not-report (DNR-11) and the original results should be reported. Affected samples are listed below.

SDG E1000500: The PCB 118 result exceeded the calibrated range in Sample SJGB016-S1. This sample was diluted (10x) and re-analyzed.

SDG E1000514: The PCB 105 result in Sample SJGB013-S1 and the PCB 118 results in Samples SJGB013-S1 and SJGB013-S2 exceeded the calibrated range. These samples were diluted (5x or 10x) and re-analyzed.

SDG E1000569: The PCB 114 and PCB 118 results exceeded the calibrated range in Sample SJGB014S1. This sample was diluted (10x) and re-analyzed.

SDG E1000570: The PCB 118 result exceeded the calibrated range in Sample SJWRP-001. This sample was diluted (10x) and re-analyzed.

Compound Identification

The laboratory assigned K-flags to results when a peak was detected but did not meet ion ratio quantitation criteria. The reported values cannot be considered as positive identifications for these analytes. These results were considered potential false positives or estimated maximum possible concentrations (EMPC) and were qualified as not detected (U-22) at the reported values. Laboratory blank values flagged "K" were considered as non-detects.

Calculation Verification

SDGs E1000500 & E1000514: Calculation verifications were performed for these SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by labeled compound and LCS/LCSD %R values, with the exceptions noted above. Precision was also acceptable as demonstrated by the LCS/LCSD and field replicate RPD or RSD values.

Data were qualified as not detected due to laboratory blank contamination and ion ratio criteria outliers. Data were estimated due to labeled compound %R accuracy outliers.

Data were flagged as do-not-report (DNR) due to linear calibration range outliers and to indicate which result (from multiple reported analyses) should not be used. Data that has been flagged DNR should not be used for any purpose.

All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Sediment Sampling
Total Metals by Methods SW6010B, 6020A, and 7471A

This report documents the review of analytical data from the analyses of sediment samples and the associated quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1004830	8 Sediment	Stage 3
K1004825	11 Sediment	Stage 2B
K1004785	12 Sediment	Stage 2B
K1004878	18 Sediment, 1 Wipe	Stage 2B
K1005012	20 Sediment, 1 Wipe	Stage 2B
K1005028	14 Sediment	Stage 2B
K1005175	7 Sediment	Stage 2B
K1005106	7 Sediment	Stage 2B
K1005237	29 Sediment	Stage 2B
K1005281	20 Sediment	Stage 2B
K1005282	15 Sediment	Stage 2B
K1005263	1 Sediment	Stage 2B
K1005284	1 Sediment	Stage 2B
K1005351	19 Sediment, 2 Wipe	Stage 3
K1005353	6 Sediment	Stage 2B
K1005357	20 Sediment	Stage 2B
K1005359	16 Sediment, 2 Wipe	State 2B
K1005390	7 Sediment, 1 Wipe	Stage 2B
K1005523	12 Sediment	State 2B
K1005525	15 Sediment, 4 Wipe	State 2B
K1005697	3 Sediment	State 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG K1004878: Sample SJNE-025-GR1 was listed on the chain of custody (COC) as SJNE-036-GR1. The sample ID was changed as the per client request.

SDG K1005012: Thallium was not reported on the CRDL Standard Summary (Form 2b), the Blank Summary (Form 3), or the Interference Check Summary (Form 4). Upon the request of EcoChem, the laboratory submitted the corrected forms to include the thallium results.

SDG K1005028: The Detection Limit Summaries (Forms 10) were missing form the data package. These were provided by the laboratory upon request by EcoChem.

SDG K1005281: Thallium was not reported on the CRDL Standard Summary (Form 2b) or the Blank Summary (Form 3). Upon the request of EcoChem, the laboratory submitted the corrected forms to include the thallium results.

SDG K1005359: Sample SJNE032-CR1J was not included on the COC, but was included with the sample shipment.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. The following error was noted:

SDG K1005106: For Sample SJNE-022-GR2, the result for mercury in the EDD did not match the result in the raw data. The laboratory verified that the raw data result was the correct value. The mercury result was corrected in the EDD and no further action was necessary.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Receipt, Preservation, and Holding Times	2	Matrix Spike Samples
	Initial Calibration	2	Laboratory Duplicates
	Continuing Calibration Verification	1	Field Replicates
2	CRDL Standards	2	Interference Check Samples
2	Laboratory Blanks	2	Serial Dilutions
1	Field Blanks		ICP-MS Internal Standards
	Laboratory Control Samples (LCS/LCSD)	1	Reporting Limits (MDL and MRL)
1	Reference Materials	1	Calculation Verification (Stage 3 only)

[1] Quality control results are discussed below, but no data were qualified
[2] Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, at -1.4°C, and greater than the upper limit, at 14.1°C. These outliers did not impact data quality therefore, no qualifiers were assigned.

Contract Required Detection Limit Standard

Contract required detection limit (CRDL) standards were analyzed at the beginning of each analytical sequence. For percent recovery values (%R) greater than the upper control limit of 130%, positive results less than two times (<2x) the CRDL were estimated (J-14) to indicate a potential high bias. For recoveries less than the lower control limit of 70%, positive results less than twice (<2x) the CRDL and non-detects were estimated (J/UJ-14) to indicate a possible low bias. For %R values less than 50%, positive results less than twice (<2x) the CRDL and non-detects were estimated (J/R-14). Outliers for the following analytes resulted in qualification of data:

SDG K1004785: chromium (method 6010B) – low bias

SDG K1004830: vanadium – low bias

SDG K1004878: vanadium – low bias

SDG K1005012: copper – low bias

SDG K1005028: copper – low bias

SDG K1005175: copper – low bias

SDG K1005237: chromium, vanadium (6/9/2010) – low bias

SDG K1005282: vanadium – low bias

SDG K1005351: vanadium (6/15/2010) – low bias/rejected data

SDG K1005353: copper – low bias

SDG K1005357: vanadium – low bias

Laboratory Blanks

To assess the impact of each blank contaminant on the reported sample results, an action level is established at five times the concentration detected in the blank. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified U-7 at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

In addition, some analytes were found at levels less than the negative MDL in some instrument blanks. For negative blanks, action levels of five times the absolute value of the blank concentrations were established. Results less than the action levels in the associated samples were estimated (J/UJ-7) to indicate a potential low bias.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method or instrument blanks, however only the following analytes required qualification in one or more samples:

SDG K1004830: copper – not detected (U-7); thallium – low bias (UJ-7)

SDG K1004825: vanadium – low bias (J-7)

SDG K1004878: sediments: vanadium – low bias (J/UJ-7); copper and mercury - not detected (U-7)
filter wipe: manganese, barium – not detected (U-7)

SDG K1005012: sediments: cadmium, copper – low bias (J/UJ-7); cobalt – not detected (U-7)
filter wipe: mercury – low bias (J/UJ-7); arsenic, barium, manganese – not detected (U-7)

SDG K1005028: cadmium, vanadium – low bias (J/UJ-7); mercury, thallium – not detected (U-7)

SDG K1005106: vanadium – low bias (J-7); copper – not detected (U-7)

SDG K1005175: chromium, thallium – not detected (U-7); vanadium – low bias (J/UJ-7)

SDG K1005237: (batch 113045) – vanadium – low bias (J/UJ-7); nickel – not detected (U-7); zinc – low bias (J/UJ-7)
(batch 112761) – mercury – low bias (J/UJ-7);
(batch 113048) – copper – not detected (U-7)

SDG K1005281: nickel – low bias (J-7)

SDG K1005282: copper – not detected (U-7); mercury – low bias (J-7)

SDG K1005351: sediment: copper, mercury, thallium – not detected (U-7); nickel, vanadium – low bias (J/UJ-7)
filter wipe: manganese – not detected (U-7); thallium, vanadium – low bias (J/UJ-7)

SDG K1005353: cadmium – low bias (J/UJ-7); thallium – not detected (U-7)

SDG K1005357: copper – not detected (U-7); vanadium – low bias (J-7)

SDG K1005359: filter wipe: aluminum, mercury – low bias (J/UJ-7); arsenic, barium, copper, manganese, zinc - not detected (U-7)

SDG K1005390: sediment: mercury – low bias (J-7);
filter wipe: arsenic, barium, manganese – not detected (U-7); mercury – low bias (UJ-7)

SDG K1005525: sediment: mercury – not detected (U-7)
filter wipe: mercury – low bias (UJ-7); barium, cobalt – not detected (U-7)

Field Blanks

Laboratory blanks are used to evaluate all associated field blanks. The field blanks for this project are filter wipe samples. Sample SDFW-920S was a master filter wipe blank; it was used to evaluate all other filter wipe blanks. Any remaining positive results in the field blank are then used to evaluate all associated samples. To evaluate the effect on the sample data, action levels of five times the blank concentrations were established. No field sample results were qualified

based on filter wipe blank contamination; these associated results were detected at levels greater than the action level.

SDG K1004878: One filter wipe blank, SDFW-901S, was submitted with this SDG. A positive result remained for arsenic after qualifiers based on method blank and SDFW-920S contaminations were issued.

SDG K1005012: One filter wipe blank, SDFW-903S, was submitted with this SDG. Positive results remained for copper and nickel after qualifiers based on method blank and SDFW-920S contaminations were issued.

SDG K1005351: Two filter wipe blanks, SDFW-906S and SDFW-920S, were submitted with this SDG. Positive results remained for chromium, magnesium, and zinc in Sample SDFW-920S after qualifiers based on method blank contamination were issued. No positive results remained for SDFW-906S after qualifiers based on method blank and SDFW-920S contaminations were issued.

SDG K1005359: Two filter wipe blanks, SDFW-902C and SDFW-904C, were submitted with this SDG. Positive results remained for aluminum and manganese in Sample SDFW-902C and for aluminum in Sample SDFW-904C0 after qualifiers based on method blank and SDFW-920S contaminations were issued.

SDG K1005390: One filter wipe blank, SDFW-911C, was submitted with this SDG. No positive results remained for SDFW-911C after qualifiers based on method blank and SDFW-920S contaminations were issued.

SDG K1005525: Four filter wipe blanks, SDFW-907C, SDFW-908C, SDFW-909C and SDFW-910C, were submitted with this SDG. Positive results remained for aluminum, arsenic, copper, and manganese in Samples SDFW-907C, SDFW-908C, and SDFW-910C, and aluminum, copper, and manganese in Sample SDFW-909C after qualifiers based on method blank and SDFW-920S contaminations were issued.

Reference Materials

The certified reference material (CRM) ERA lot number D065540 was analyzed with all sediment samples. All recoveries were within the certified acceptance ranges.

Matrix Spikes

Matrix spikes (MS) were analyzed at the proper frequency of one per 20 samples or one per batch for sediment samples. The control limits for recovery of spiked compounds are based on laboratory periodic performance based control limits. There was insufficient sample to analyze a matrix spike for the wipe samples. Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed and used to evaluate laboratory accuracy for the wipe samples.

If the matrix spikes/matrix spike duplicate (MS/MSD) %R value indicates a potential low bias, associated results are estimated (J/UJ-8). If the %R value indicates a potential high bias, only the associated positive results are estimated (J-8). For %R values less than 30%, indicating an extreme low bias, the results for the post digestion spike were also evaluated. If the post spike %R values were acceptable, then associated results were estimated (J/UJ-8). If the post spike %R value was also outside of the control limits of 75%-125%, then positive results were estimated (J-8) and non-detects were rejected (R-8).

The MS spiking solution did not contain magnesium. Most sample results were greater than four times the standard spiking level and the reference material recoveries were acceptable; therefore no action was taken.

The following analytes were qualified in one or more samples based on MS %R value outliers.

SDG K1005028: SJNE-062-GR1-15: aluminum (high bias)

SDG K1005175: SJSH-044-CR1A: aluminum (high bias)

SDG K1005237: SJNE-007-CR1A: aluminum (high bias)

SDG K1005263: Batch QC: aluminum (high bias)

SDG K1005284: Batch QC: aluminum (high bias)

SDG K1005353: Batch QC: aluminum (high bias)

SDG K1005390: Batch QC: aluminum (high bias)

SDG K1005697: Batch QC: manganese (low bias)

SDG K1005525: SJSH 023-CR1A: manganese (low bias)

Laboratory Duplicates

Laboratory duplicates were analyzed at the proper frequency of one per 20 samples or one per batch for the sediment samples. The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 30% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL. There was insufficient sample to analyze duplicates for the wipe samples; the LCS/LCSD RPD values were used to evaluate laboratory precision.

For RPD or difference values exceeding the control limits, associated positive results and non-detects were estimated (J/UJ-9). The following outliers were noted:

SDG K1005028: SJNE-062-GR1-1: manganese (115%)

SDG K1005106: SJNE-022-GR1: arsenic (27%), chromium ICP-MS (130%)

SDG K1005237: SJNE-007-CR1A: manganese (61%), arsenic (62%)

SDG K1005697: Batch QC: manganese (134.2%)

SDG K1005525: SJSH 023-CR1A: manganese (134.2%)

Field Replicates

The following acceptance criteria were used to evaluate precision: the RPD or relative standard deviation (RSD) control limit is 50% for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the absolute difference between the sample and replicate must be less than 2x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1004825: SJNE020-GR1-1 and SJNE020-GR1-2: all criteria met

SDG K1005012: SJNE-042-GR1-1 and SJNE-042-GR1-2: all criteria met

SDG K1005028: SJNE-062-GR1-1 and SJNE-062-GR1-2: all criteria met

SDG K1005106: SJNE-022-GR1, SJNE-022-GR2, & SJNE-022-GR3: barium (73.7%); copper (74.5%); lead (78.4%); mercury (88.9%); nickel (59.6%); zinc (73.4%)

SDG K1005175: SJSH-040-CR1A-1 and SJSH-040-CR1A-2: all criteria met

SDG K1005351: SJSH 064-GR1-1 and SJSH 064-GR1-2: mercury (Diff > 2x RL)

SDG K1005523: SJSH 005-CR1A-1 and SJSH 005-CR1A -2: all criteria met
SJSH 014-CR1B-1 and SJSH 014-CR1B -2: all criteria met
SJSH 014-CR1A-1 and SJSH 014-CR1A -2: magnesium (63.2%), zinc (Diff > 2x RL)

SDG K1005525: SJSH 025-CR1A-1 and SJSH 025-CR1A-2: vanadium (Diff>2x RL)
SJSH 035-CR1A-1 and SJSH 035-CR1A-2: all criteria met
SJSH 035-CR1B-1 and SJSH 035-CR1B-2: barium (100.4%), arsenic (Diff > 2x RL)

ICP Interference Check Samples

The interference check sample analyses (ICSA) results for several analytes were often greater than the method detection limit. In these cases, the samples were carefully evaluated to determine if there was a bias in the results due to interference from aluminum, calcium, iron or magnesium. Where interferences were indicated, results were estimated based on the potential bias. For high bias, positive results were estimated (J-17). For a low bias, results were estimated (J/UJ-17). The following analytes were qualified in one or more samples based on the interference check sample results:

SDG K1004785: thallium – low bias

SDG K1004825: cadmium – high bias; thallium – low bias

SDG K1004830: thallium – low bias

SDG K1004878: cadmium – high bias; thallium – low bias

SDG K1005012: cadmium – high bias

SDG K1005028: cadmium – high bias

SDG K1005106: thallium – low bias

SDG K1005237: cadmium – high bias; thallium – low bias

SDG K1005281: cadmium – high bias; thallium – low bias

SDG K1005282: cadmium – high bias; thallium – low bias

SDG K1005284: thallium – low bias

SDG K1005351: cadmium – high bias; thallium – low bias

SDG K1005357: cadmium – high bias; thallium – low bias

ICP Serial Dilution

Serial dilutions were analyzed at the proper frequency of one per 20 samples or one per batch; whichever was more frequent. The percent difference (%D) values were less than the control limit of 10% for results greater than 50 times the MDL, with the following exceptions. For %D outliers, all associated results were estimated (J/UJ-16). The sample used for the serial dilution analysis and the analytes with %D outliers are noted below:

SDG K1004878: SJNE-052-GR1: chromium

SDG K1005028: SJNE-038-GR1: arsenic

SDG K1005012: SDFW-903S: magnesium

SDG K1005106: SJNE-022-GR1: magnesium, manganese

SDG K1005237: SJNE-007-CR1A: magnesium
SJNE-012-CR1B: vanadium, zinc

SDG K1005282: SJNE050-CR1C: vanadium; chromium (ICP-MS)

SDG K1005351: SJNE 001-GR1: chromium (ICP-MS)

SDG K1005390: SJSH055-CR1A: aluminum, barium, magnesium, manganese
Batch QC: magnesium

Reporting Limits

The chromium reporting limit (RL) for the 6010 (ICP) analysis was greater than the requirement in the QAPP. Samples with reported chromium concentrations at or below the ICP RL were re-analyzed by method 6020 (ICP-MS) in order to achieve a lower RL.

SDG K1005359: The reporting limits for thallium in 12 samples were estimated (UJ-14) because of non-spectral matrix interferences. Thallium was reading less than the negative MDL in these samples. The issue appears to be non-spectral as the concentrations of the interfering elements aluminum, calcium, iron, and magnesium were low in the sample.

Calculation Verification

SDG K1004830 & K1005351: Calculation verifications were performed for these SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was also acceptable as demonstrated by the MS and LCS/LCSD % R values, with the exceptions noted above. Precision was also acceptable as demonstrated by the laboratory duplicate and field replicate RPD or RSD values, with the exceptions noted above.

Data were estimated and/or detection limits were elevated based on laboratory blank results. Data were also estimated based on CRDL and MS %R outliers, laboratory duplicate RPD outliers, serial dilution %D outliers, and matrix interferences.

Data were rejected based on a CRDL standard recovery less than 50%. Rejected data should not be used for any purpose.

All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Sediment Sampling
Conventional Parameters

This report documents the review of analytical data from the analyses of sediment samples and the associated laboratory quality control (QC) samples. Columbia Analytical Services, Kelso, Washington, analyzed the samples. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1004785	12 Sediment	Stage 2B
K1004825	11 Sediment	Stage 2B
K1004830	8 Sediment	Stage 2B - TOC Stage 3 -Grain Size, Total Solids
K1004878	18 Sediment	Stage 2B
K1005012	20 Sediment	Stage 2B
K1005028	14 Sediment	Stage 2B
K1005106	7 Sediment	Stage 2B
K1005175	7 Sediment	Stage 2B
K1005237	29 Sediment	Stage 2B
K1005263	11 Sediment	Stage 3
K1005281	20 Sediment	Stage 2B
K1005282	15 Sediment	Stage 2B
K1005284	1 Sediment	Stage 2B
K1005351	19 Sediment	Stage 3
K1005353	15 Sediment	Stage 2B
K1005357	20 Sediment	Stage 2B
K1005359	16 Sediment	Stage 2B
K1005390	7 Sediment	Stage 2B
K1005523	12 Sediment	Stage 2B
K1005525	17 Sediment	Stage 2B
K1005697	3 Sediment	Stage 2B

The analytical tests that were performed are summarized below:

Parameter	Method
Total Solids	EPA 160.3
Total Organic Carbon (TOC)	SW9060
Grainsize	PSEP

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

Initial total organic carbon (TOC) summary forms included percent relative standard deviation (%RSD) results that were miscalculated. The laboratory was notified and corrected forms were resubmitted. During validation the resubmitted calculations were verified.

SDG K1004878: Sample SJNE-025-GR1 was listed on the chain of custody (COC) as SJNE-036-GR1. The sample ID was changed per client request.

SDG K1005106: Total Solids data was included for Samples SJSH-064-GR1-1, SJSH-064-GR1-2, and SJSH-063-GR1. The analyses were canceled for these samples according to client correspondence therefore; the total solids data was not evaluated.

SDG K1005359: Sample SJNE032-CR1J was not included on the COC, but was included with the sample shipment.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. The following errors were noted:

SDG K1005106: The value for TOC was incorrect in the EDD for the duplicate of Sample SJNE-022-GR2. The laboratory verified that the raw data result was correct and the value in the EDD was corrected to match the value in the raw data.

SDG K1005523: For the triplicate of Sample SJSH019-CRA, the value for TOC was incorrect in the EDD. The laboratory verified that the raw data result was correct and the value in the EDD was corrected to match the value in the raw data.

SDG K1005351: For Sample SJSH064-GR1-2, the value for silt was incorrect in the EDD. The laboratory verified that the raw data result was correct and the value in the EDD was corrected to match the value in the raw data.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

2	Sample Receipt, Preservation, and Holding Times	1	Matrix Spikes (MS)
	Initial Calibration	2	Laboratory Duplicates
	Calibration Verification	1	Field Replicates
	Laboratory Blanks		Reporting Limits
	Laboratory Control Samples (LCS)	1	Calculation Verification (Stage 3 only)

[1] ***Quality control results are discussed below, but no data were qualified.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, at -1.4°C, and greater than the upper limit, at 14.1°C. These outliers did not impact data quality; therefore no qualifiers were assigned.

SDG K1005523: Sample SJSH014-CR1B-1 was analyzed for TOC outside of the holding time criterion, at 63 days. All results were estimated (J-1).

Matrix Spikes

SDG K1005012: The matrix spike/matrix spike duplicate (MS/MSD) relative percent difference (RPD) value for TOC for QC Sample SJNE-033-GR1 was greater than the control limit of 20%. The parent sample was analyzed in quadruplicate with an acceptable %RSD value; therefore no action was taken for the MS/MSD RPD outlier.

SDG K1005237: The MS/MSD RPD value for TOC for QC Sample SJNE029-CR1A was greater than the control limit of 20%. The parent sample was analyzed in quadruplicate with an acceptable %RSD value; therefore no action was taken for the MS/MSD RPD outlier.

Laboratory Duplicates

Laboratory replicate analyses were performed at the frequency of one per batch. The RPD or %RSD values were within the control limit of 20%, with the exceptions noted below. The laboratory performed triplicate analyses for grain size. Also for grain size, a %RSD limit of 20% was used for all fractions with results of at least 5%. The laboratory performed quadruplicate analyses for TOC. All associated samples (parent sample only for grain size) were estimated (J/UJ-9) for RPD or %RSD value outliers. Duplicate, triplicate, and quadruplicate results were also estimated.

SDG K1004878: Sample SJNE-002-GR1 – gravel (92.3%)

SDG K1005028: Sample SJNE-049-GR1 – silt (25%), clay (38%)

SDG K1005237: Sample SJNE-008-CR1B – gravel (59%), very coarse sand (36%)
Sample SJNE-026-CR1G – gravel (59%), very coarse sand (39%), coarse sand (34%), clay (44%)

SDG K1005281: Sample SJNE023-CR1A – gravel (94%)

SDG K1005282: Sample SJNE030-CR1A – medium sand (61%), fine sand (37%), very fine sand (41%), Silt (91%), clay (37%), coarse sand (136%)

SDG K1005353: Sample SJGB 013 S4 – fine sand (27.3%)

Field Replicates

The following acceptance criteria were used to evaluate precision: the RPD or %RSD control limit is 50% for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the absolute difference between the sample and replicate must be less than 2x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1004825: SJNE020-GR1-1 and SJNE020-GR1-2: all criteria met

SDG K1005012: SJNE-042-GR1-1 and SJNE-042-GR1-2: all criteria met

SDG K1005028: SJNE-062-GR1-1 and SJNE-062-GR1-2: all criteria met

SDG K1005106: SJNE-022-GR1, SJNE-022-GR2, & SJNE-022-GR3: TOC (73.7%); Gravel (79.6%); very coarse sand (55.3%); medium sand (70.7%)

SDG K1005175: SJSH-040-CR1A-1 and SJSH-040-CR1A-2: TOC 76.5%

SDG K1005351: SJSH 064-GR1-1 and SJSH 064-GR1-2: all criteria met

SDG K1005523: SJSH 005-CR1A-1 and SJSH 005-CR1A-2: all criteria met
SJSH 014-CR1A-1 and SJSH 014-CR1A-2: all criteria met
SJSH 014-CR1B-1 and SJSH 014-CR1B-2: TOC (92.7%)

SDG K1005525: SJSH 025-CR1A-1 and SJSH 025-CR1A-2: all criteria met
SJSH 035-CR1A-1 and SJSH 035-CR1A-2: all criteria met
SJSH 035-CR1B-1 and SJSH 035-CR1B-2: gravel (164.5%), very fine sand (69.6%); silt (101.9%); clay (93.9%)

Calculation Verification

In most data packages, there was an error in the laboratory formula for the calculation of the %RSD values for the TOC analyses. The laboratory was contacted and revised summary forms were resubmitted.

SDGs K1004830, K1005263, & K1005351: Several results were verified by recalculation from the raw data. No calculation or transcription errors were noted with the exception of the %RSD values for TOC mentioned above.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was also acceptable as demonstrated by the MS and LCS % R values. Precision was also acceptable as demonstrated by the laboratory duplicate and field replicate RPD or %RSD values, with the exceptions noted above.

Data were qualified based on laboratory replicate %RSD outliers.

All data, as qualified, are acceptable for use.

EcoChem, INC.
Environmental Data Quality

APPENDIX A

DATA QUALIFIER DEFINITIONS REASON CODES AND CRITERIA TABLES

DATA VALIDATION QUALIFIER CODES
Based on National Functional Guidelines

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.

DATA QUALIFIER REASON CODES

1	Holding Time/Sample Preservation
2	Chromatographic pattern in sample does not match pattern of calibration standard.
3	Compound Confirmation
4	Tentatively Identified Compound (TIC) (associated with NJ only)
5A	Calibration (initial)
5B	Calibration (continuing)
6	Field Blank Contamination
7	Lab Blank Contamination (e.g., method blank, instrument, etc.)
8	Matrix Spike(MS & MSD) Recoveries
9	Precision (all replicates)
10	Laboratory Control Sample Recoveries
11	A more appropriate result is reported (associated with “R” and “DNR” only)
12	Reference Material
13	Surrogate Spike Recoveries (a.k.a., labeled compounds & recovery standards)
14	Other (define in validation report)
15	GFAA Post Digestion Spike Recoveries
16	ICP Serial Dilution % Difference
17	ICP Interference Check Standard Recovery
18	Trip Blank Contamination
19	Internal Standard Performance (e.g., area, retention time, recovery)
20	Linear Range Exceeded
21	Potential False Positives
22	Elevated Detection Limit Due to Interference (i.e., laboratory, chemical and/or matrix)

EcoChem Validation Guidelines for Volatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C±2°C Water: HCl to pH < 2	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Hold Time	Waters: 14 days preserved 7 Days: unpreserved (for aromatics) Solids: 14 Days	J(+)/UJ(-) if hold times exceeded If exceeded by > 3X HT: J(+)/R(-) (EcoChem PJ)	1
Tuning	BFB Beginning of each 12 hour period Method acceptance criteria	R(+/-) all analytes in all samples associated with the tune	5A
Initial Calibration (Minimum 5 stds.)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5A
	%RSD < 30%	(EcoChem PJ, see TM-06) J(+) if %RSD > 30%	5A
Continuing Calibration (Prior to each 12 hr. shift)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5B
	%D <25%	(EcoChem PJ, see TM-06) If > +/-90%: J+/R- If -90% to -26%: J+ (high bias) If 26% to 90%: J+/UJ- (low bias)	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample (+) result is less than CRQL and less than appropriate 5X or 10X rule (raise sample value to CRQL)	7
		U(+) if sample (+) result is greater than or equal to CRQL and less than appropriate 5X and 10X rule (at reported sample value)	7
	No TICs present	R(+) TICs using 10X rule	7
Storage Blank	One per SDG <CRQL	U(+) the specific analyte(s) results in all assoc.samples using the 5x or 10x rule	7
Trip Blank	Frequency as per project QAPP	Same as method blank for positive results remaining in trip blank after method blank qualifiers are assigned	18
Field Blanks (if required in QAPP)	No results > CRQL	Apply 5X/10X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Volatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One per matrix per batch Use method acceptance criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One per matrix per batch Use method acceptance criteria	J(+) in parent sample if RPD > CL	9
LCS *low conc. H2O VOA*	One per lab batch Within method control limits	J(+) assoc. cmpd if > UCL J(+)/R(-) assoc. cmpd if < LCL J(+)/R(-) all cmpds if half are < LCL	10
LCS *regular VOA (H2O & solid)*	One per lab batch Lab or method control limits	J(+) if %R > UCL J(+)/UJ(-) if %R <LCL J(+)/R(-) if %R < 10% (EcoChem PJ)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	Added to all samples Within method control limits	J(+) if %R >UCL J(+)/UJ(-) if %R <LCL but >10% (see PJ[1]) J(+)/R(-) if <10%	13
Internal Standard (IS)	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	J(+) if > 200% J(+)/UJ(-) if < 50% J(+)/R(-) if < 25% RT>30 seconds, narrate and Notify PM	19
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
TICs	Major ions (>10%) in reference must be present in sample; intensities agree within 20%; check identification	NJ the TIC unless: R(+) common laboratory contaminants See Technical Director for ID issues	4
Quantitation/ Identification	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	See Technical Director if outliers	14 21 (false +)

PJ[1] No action if there are 4+ surrogates and only 1 outlier.

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EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C ±2°	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Holding Time	Water: 7 days from collection Soil: 14 days from collection Analysis: 40 days from extraction	Water: J(+)/UJ(-) if ext. > 7 and < 21 days J(+)/R(-) if ext > 21 days (EcoChem PJ) Solids/Wastes: J(+)/UJ(-) if ext. > 14 and < 42 days J(+)/R(-) if ext. > 42 days (EcoChem PJ) J(+)/UJ(-) if analysis >40 days	1
Tuning	DFTPP Beginning of each 12 hour period Method acceptance criteria	R(+/-) all analytes in all samples associated with the tune	5A
Initial Calibration (Minimum 5 stds.)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5A
	%RSD < 30%	(EcoChem PJ, see TM-06) J(+) if %RSD > 30%	5A
Continuing Calibration (Prior to each 12 hr. shift)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5B
	%D <25%	(EcoChem PJ, see TM-06) If > +/-90%: J+/R- If -90% to -26%: J+ (high bias) If 26% to 90%: J+/UJ- (low bias)	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample (+) result is less than CRQL and less than appropriate 5X or 10X rule (raise sample value to CRQL)	7
		U(+) if sample (+) result is greater than or equal to CRQL and less than appropriate 5X and 10X rule (at reported sample value)	7
	No TICs present	R(+) TICs using 10X rule	7
Field Blanks (Not Required)	No results > CRQL	Apply 5X/10X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One per matrix per batch Use method acceptance criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One per matrix per batch Use method acceptance criteria	J(+) in parent sample if RPD > CL	9
LCS low conc. H2O SVOA	One per lab batch Within method control limits	J(+) assoc. cmpd if > UCL J(+)/R(-) assoc. cmpd if < LCL J(+)/R(-) all cmpds if half are < LCL	10
LCS regular SVOA (H2O & solid)	One per lab batch Lab or method control limits	J(+) if %R > UCL J(+)/UJ(-) if %R <LCL J(+)/R(-) if %R < 10% (EcoChem PJ)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	Minimum of 3 acid and 3 base/neutral compounds Use method acceptance criteria	Do not qualify if only 1 acid and/or 1 B/N surrogate is out unless <10% J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) if %R < 10%	13
Internal Standards	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	J(+) if > 200% J(+)/UJ(-) if < 50% J(+)/R(-) if < 25% RT>30 seconds, narrate and Notify PM	19
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
TICs	Major ions (>10%) in reference must be present in sample; intensities agree within 20%; check identification	NJ the TIC unless: R(+) common laboratory contaminants See Technical Director for ID issues	4
Quantitation/ Identification	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	See Technical Director if outliers	14 21 (false +)

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EcoChem Validation Guidelines for Pesticides, PCBs, Herbicides, and Phenol by GC/ECD (Based on Organic NFG 1999 & EPA SW-846 Methods 8081/8082/8041/8151)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C ±2°	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Holding Time	Water: 7 days from collection Soil: 14 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext/analyzed > HT J(+)/R(-) if ext/analyzed > 3X HT (EcoChem PJ)	1
Resolution Check	Beginning of ICAL Sequence Within RTW Resolution >90%	Narrate (Use Professional Judgement to qualify)	14
Instrument Performance (Breakdown)	DDT Breakdown: < 20% Endrin Breakdown: <20% Combined Breakdown: <30% Compounds within RTW	J(+) DDT NJ(+) DDD and/or DDE R(-) DDT - If (+) for either DDE or DDD J(+) Endrin NJ(+) EK and/or EA R(-) Endrin - If (+) for either EK or EA	5A
Retention Times	Surrogates: TCX (+/- 0.05); DCB (+/- 0.10) Target compounds: elute before heptachlor epoxide (+/- 0.05) elute after heptachlor epoxide (+/- 0.07)	NJ(+)/R(-) results for analytes with RT shifts For full DV, use PJ based on examination of raw data	5B
Initial Calibration	Pesticides: Low=CRQL, Mid=4X, High=16X Multiresponse - one point Calibration %RSD<20% %RSD<30% for surr; two comp. may exceed if <30% Resolution in Mix A and Mix B >90%	J(+)/UJ(-)	5A
Continuing Calibration	Alternating PEM standard and INDA/INDB standards every 12 hours (each preceeded by an inst. Blank) %D < 25% Resolution >90% in IND mixes; 100% for PEM	J(+)/UJ(-) J(+)R(-) if %D > 90% PJ for resolution	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample result is < CRQL and < 5X rule (raise sample value to CRQL) U(+) if sample result is > or equal to CRQL and < 5X rule (at reported sample value)	7
Instrument Blanks	Analyzed at the beginning of every 12 hour sequence No analyte > 1/2 CRQL	Same as Method Blank	7
Field Blanks	Not addressed by NFG No results > CRQL	Apply 5X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Pesticides, PCBs, Herbicides, and Phenol by GC/ECD (Based on Organic NFG 1999 & EPA SW-846 Methods 8081/8082/8041/8151)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One set per matrix per batch Method Acceptance Criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One set per matrix per batch Method Acceptance Criteria	J(+) in parent sample if RPD > CL	9
LCS	One per SDG Method Acceptance Criteria	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	TCX and DCB added to every sample %R = 30-150%	J(+)/UJ(-) if both %R = 10 - 60% J(+) if both >150% J(+)/R(-) if any %R <10%	13
Quantitation/ Identification	Quantitated using ICAL calibration factor (CF) RPD between columns <40%	J(+) if RPD = 40 - 60% NJ(+) if RPD >60% EcoChem PJ - See TM-08	3
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used to avoid reporting two results for one sample	11
Sample Clean-up	GPC required for soil samples Florisil required for all samples Sulfur is optional Clean-up standard check %R within CLP limits	J(+)/UJ(-) if %R < LCL J(+) if %R > UCL	14
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate (Qualifiy if required by project QAPP)	9

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler/Storage Temperature	Waters/Solids < 4°C Tissues <-10°C	EcoChem PJ, see TM-05	1
Holding Time	Extraction - Water: 30 days from collection *Note:* Under CWA, SDWA, and RCRA the HT for H2O is 7 days* Extraction - Soil: 30 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext > 30 days J(+)/UJ(-) if analysis > 40 Days EcoChem PJ, see TM-05	1
Mass Resolution	>=10,000 resolving power at m/z 304.9824 Exact mass of m/z 380.9760 w/in 5 ppm of theoretical value (380.97410 to 380.97790) . Analyzed prior to ICAL and at the start and end of each 12 hr. shift	R(+/-) if not met	14
Window Defining Mix and Column Performance Mix	Window defining mixture/Isomer specificity std run before ICAL and CCAL Valley < 25% (valley = (x/y)*100%) x = ht. of TCDD y = baseline to bottom of valley For all isomers eluting near 2378-TCDD/TCDF isomers (TCDD only for 8290)	J(+) if valley > 25%	5A (ICAL) 5B (CCAL
Initial Calibration	Minimum of five standards %RSD < 20% for native compounds %RSD <30% for labeled compounds (%RSD <35% for labeled compounds under 1613b)	J(+) natives if %RSD > 20%	5A
	Abs. RT of $^{13}C_{12}$-1234-TCDD >25 min on DB5 >15 min on DB-225	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10 for all native and labeled compounds in CS1 std.	If <10, elevate Det. Limit or R(-)	

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Continuing Calibration	Analyzed at the start and end of each 12 hour shift. %D+/-20% for native compounds %D +/-30% for labeled compounds (Must meet limits in Table 6, Method 1613B) (If %Ds in the closing CCAL are w/in 25%/35% the avg RF from the two CCAL may be used to calculate samples per Method 8290, Section 8.3.2.4)	Do not qualify labeled compounds. Narrate in report for labeled compound %D outliers. For native compound %D outliers: 8290: J(+)/UJ(-) if %D = 20% - 75% J(+)/R(-) if %D > 75% 1613: J(+)/UJ(-) if %D is outside Table 6 limits J(+)/R(-) if %D is +/- 75% of Table 6 limit	5B
	Abs. RT of $^{13}C_{12}$-1234-TCDD and $^{13}C12$-123789-HxCDD +/- 15 sec of ICAL.	EcoChem PJ, see ICAL section of TM-05	
	RRT of all other compounds must meet Table 2 of 1613B.	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10	If <10, elevate Det. Limit or R(-)	
Method Blank	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	7
Field Blanks (Not Required)	No positive results	If sample result <5X action level, qualify U at reported value.	6
LCS / OPR	Concentrations must meet limits in Table 6, Method 1613B or lab limits.	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
MS/MSD (recovery)	May not analyze MS/MSD %R should meet lab limits.	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	May not analyze MS/MSD RPD < 20%	J(+) in parent sample if RPD > CL	9

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Lab Duplicate	RPD <25% if present.	J(+)/UJ(-) if outside limts	9
Labeled Compounds / Internal Standards	*Method 8290:* %R = 40% - 135% in all samples *Method 1613B:* %R must meet limits specified in Table 7, Method 1613	J(+)/UJ(-) if %R = 10% to LCL J(+) if %R > UCL J(+)/R(-) if %R < 10%	13
Quantitation/ Identification	Ions for analyte, IS, and rec. std. must max w/in 2 sec. S/N >2.5 IA ratios meet limits in Table 9 of 1613B or Table 8 of 8290 RRTs w/in limits in Table 2 of 1613B	If RT criteria not met, use PJ (see TM-05) If S/N criteria not met, J(+). if unlabelled ion abundance not met, change to EMPC If labelled ion abundance not met, J(+).	21
EMPC (estimated maximum possible concentration)	If quantitation idenfication criteria are not met, laboratory should report an EMPC value.	If laboratory correctly reported an EMPC value, qualify with U to indicate that the value is a detection limit.	14
Interferences	PCDF interferences from PCDPE	If both detected, change PCDF result to EMPC	14
Second Column Confirmation	All 2378-TCDF hits must be confirmed on a DB-225 (or equiv) column. All QC specs in this table must be met for the confirmation analysis.	Report lower of the two values. If not performed use PJ (see TM-05).	3
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used	11

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EcoChem Validation Guidelines for PCB Congener Analysis by HRMS (Based on EPA Reg. 10 SOP, Rev. 1, 12/1995 & EPA SW-846, Method 1668)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler/Storage Temperature	Waters/Solids <4°C Tissues <-10°C	EcoChem PJ, see TM-05	1
Holding Time	Samples: Up to one year if stored in the dark & temp as above. Extracts: Up to 1 year if stored at <-10°C and in the dark	J(+)/UJ(-) if HT > 1 year EcoChem PJ, see TM-05	1
Mass Resolution	>=10,000 resolving power at m/z 330.9792 <5 ppm deviation from each m/z listed in Table 7 of method. Analyzed prior to ICAL and at the beginning and end of each 12 hr. shift	R(+/-) if not met	14
Column Resolution 209 Congener Solution	Mix of all 209 PCBs run prior to each ICAL and each 12 hour shift RT of PCB209 must be > 55 min PCB 156 & 157 must coelute w/in 2 sec PCB34 & 23 and PCB187 & 182 must be resolved where ((x/y)*100%) < 40% x = ht. of valley and y = ht of shortest peak	J(+) if valley >40%	5A (ICAL) 5B (CCAL)
Initial Calibration	Minimum of five standards %RSD < 20% for native compounds %RSD < 35% for labeled compounds	J(+) natives if %RSD > 20%	5A
	Ion Abundance ratios within QC limits (Method 1668, Table 8) in CS1 std.	EcoChem PJ, see TM-05	
	S/N ratio > 10 for all native and labeled compounds in CS1 std.	If <10, elevate Det. Limit or R(-)	
Continuing Calibration	Every 12 hours: Concentrations must meet criteria specified in Method 1668, Table 6	J(+)/(UJ(-) natives if %D = 30% - 50% J(+)/R(-) natives if %D > 75%	5B
	Absolute RT of all Labelled Compounds and Window Defining Congeners must be +/- 15 sec of RT in ICAL RRT of all compounds must meet Table 2 of method.	EcoChem PJ, see ICAL section of TM-05	
	S/N ratio > 10	If <10, elevate Det. Limit or R(-)	
	Ion Abundance ratios must meet criteria specified in Method 1668, Table 8	EcoChem PJ, see TM-05	
Method Blank	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	7

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EcoChem Validation Guidelines for PCB Congener Analysis by HRMS (Based on EPA Reg. 10 SOP, Rev. 1, 12/1995 & EPA SW-846, Method 1668)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Rinse/Field Blank (if required)	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	6
LCS / OPR	One per matrix per batch %R Values w/in limits specified in Method 1668, Table 6	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
MS/MSD (if required)	Accuracy: %R values within laboratory limits	Qualify parent sample only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
	Precision: RPD < 20%	J(+) in parent sample if RPD > 20%	9
Duplicate (if required)	RPD <25%	J(+)/UJ(-) if outside limts	9
Labeled Compounds / Internal Standards	%R must meet limits specified in Method 1668, Table 6.	J(+)/UJ(-) if %R = 10% to LCL J(+) if %R > UCL J(+)/R(-) if %R < 10%	13
Quantitation/ Identification	Ions for analyte, IS, and rec. std. must max w/in 2 sec. S/N >2.5 Ion abundance (IA ratios) must meet limits stated in Table 8 of Method 1668 Relative retention times (RRT) must be w/in limits stated in Table 2 of Method 1668	If RT criteria not met, use PJ (see TM-05) J(+) if S/N criteria not met if unlabelled ion abundance not met, change to EMPC J(+) if labelled ion abundance not met.	21
Interferences	Lock masses must not deviate +/- 20%	Change result to EMPC	14
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used to avoid reporting two results for one sample	11

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EcoChem Validation Guidelines for Metals Analysis by ICP (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration Tissues: Frozen	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, r > 0.995	J(+)/UJ(-) if r < 0.995 (multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±10% of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within ±10% of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B

Initial and Continuing Calibration Blank (ICB/CCB)	After each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		(Refer to TM-02 for additional information)
			7

Reporting Limit Standard	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Sb, Pb, Tl)	R(-)/J(+) < 2x RL if %R <50% (< 30% Sb, Pb, Tl) J(+) < 2x RL, UJ(-) if %R 50-69% (30-49% Sb, Pb,Tl) J(+) < 2x RL if %R 130-180% (150-200% Sb, Pb, Tl) R(+) < 2x RL if %R > 180% (200% Sb, Pb, Tl)	14
Interference Check Samples (ICSA/ICSAB)	ICSAB %R 80 - 120% for all spiked elements | ICSA | < MDL for all unspiked elements except: K, Na	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R >120% J(+)/UJ(-) if %R= 50 to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	

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EcoChem Validation Guidelines for Metals Analysis by ICP
(Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Matrix Spikes	One per matrix per batch 75-125% for samples less than 4x spike level	J(+) if %R > 125% J(+)/UJ(-) if %R < 75% J(+)/R(-) if %R < 30% or J(+)/UJ(-) if Post Spike %R 75-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, spike at twice the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples >RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL (2x RL for solids) qualify all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample conc. > 50x MDL	J(+)/UJ(-) if %D >10% qualify all samples in batch	16
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

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EcoChem Validation Guidelines for Metals Analysis by ICP-MS (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Tune	Prior to ICAL monitoring compounds analyzed 5 times wih Std Dev. ≤ 5% mass calibration <0.1 amu from True Value Resolution < 0.9 AMU @ 10% peak height or <0.75 amu @ 5% peak height	Use Professional Judgment to evaluate tune J(+)/UJ(-) if tune criteria not met	5A
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, r>0.995	J(+)/UJ(-) if r<0.995 (for multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±10% of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run ±10% of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B

Initial and Continuing Calibration Blanks (ICB/CCB)	After each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Reporting Limit Standard (CRI)	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Co,Mn, Zn)	R(-),(+) < 2x RL if %R < 50% (< 30% Co,Mn, Zn) J(+) < 2x RL, UJ(-) if %R 50-69% (30%-49% Co,Mn, Zn) J(+) < 2x RL if %R 130%-180% (150%-200% Co,Mn, Zn) R(+) < 2x RL if %R > 180% (200% Co, Mn, Zn)	14
Interference Check Samples (ICSA/ICSAB)	Required by SW 6020, but not 200.8 ICSAB %R 80% - 120% for all spiked elements | ICSA | < IDL (MDL) for all unspiked elements	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R >120% J(+)/UJ(-) if %R = 50% to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7

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EcoChem Validation Guidelines for Metals Analysis by ICP-MS
(Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Laboratory Control Sample (LCS)	One per matrix per batch Blank Spike: %R within 80%-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spike/ Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 75-125% for samples where results do not exceed 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R <75% J(+)/R(-) if %R<30% or J(+)/UJ(-) if Post Spike %R 75%-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, Spike parent sample at 2x the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5 x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample values > 50x MDL	J(+)/UJ(-) if %D >10% All samples in batch	16
Internal Standards	Every sample SW6020: 60%-125% of cal blank IS 200.8: 30%-120% of cal blank IS	J (+)/UJ (-) all analytes associated with IS outlier	19
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < AL in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	28 days from date sampled Frozen tissues: HT extended to 6 months	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + 4 standards, one at RL r > 0.995	J(+)/UJ(-) if r<0.995	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5B

Initial and Continuing Calibration Blanks (ICB/CCB)	after each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Reporting Limit Standard (CRA)	conc at RL - analyzed beginning of run %R = 70-130%	R(-),(+)<2xRL if %R <50% J(+)<2x RL, UJ(-) if %R 50-69% J(+) <2x RL if %R 130-180% R(+)<2x RL if %R>180%	14
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch		10
	Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 5% frequency 75-125% for samples less than 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R <75% J(+)/R(-) if %R<30% all samples in batch	8
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9

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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5x RL: Water: Diff<RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must be less than 110% of high standard	J values over range	20

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EcoChem Validation Guidelines for Conventional Chemistry Analysis (Based on EPA Standard Methods)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler Temperature 4°C ±2°C Preservation: Method Specific	Use Professional Judgment to qualify based to qualify for coole temp outliers J(+)/UJ(-) if preservation requirements not met	1
Holding Time	Method Specific	Professional Judgment J(+)/UJ(-) if holding time exceeded J(+)/R(-) if HT exceeded by > 3X	1
Initial Calibration	Method specific r>0.995	Use professional judgment J(+)/UJ(-) for r < 0.995	5A
Initial Calibration Verification (ICV)	Where applicable to method Independent source analyzed immediately after calibration %R method specific, usually 90% - 110%	R(+/-) if %R significantly < LCL J(+)/UJ(-) if %R < LCL J(+) if %R > UCL R(+) if %R significantly > UCL	5A
Continuing Cal Verification (CCV)	Where applicable to method Every ten samples, immed. following ICV/ICB and end of run %R method specific, usually 90% - 110%	R(+/-) if %R significantly < LCL J(+)/UJ(-) if %R < LCL J(+) if %R > UCL R(+) if %R significantly > UCL	5B

Initial and Continuing Cal Blanks (ICB/CCB)	Where applicable to method
	After each ICV and CCV every ten samples and end of run
	| blank| < MDL
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Method Blank	One per matrix per batch
	(not to exceed 20 samples)
	blank < MDL
		Action level is 5x absolute value of blank conc.
		For (+) blk value, U(+) results < action level
		For (-) blk value, J(+)/UJ(-) results < action level
			7

Laboratory Control Sample	Waters: One per matrix per batch %R (80-120%)	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	Soils: One per matrix per batch Result within manufacturer's certified acceptance range	J(+)/UJ(-) if < LCL, J(+) if > UCL	10
Matrix Spike	One per matrix per batch; 5% frequency 75-125% for samples less than 4 x spike level	J(+) if %R > 125% or < 75% UJ(-) if %R = 30-74% R(+/-) results < IDL if %R < 30%	8
Laboratory Duplicate	One per matrix per batch RPD <20% for samples > 5x RL Diff <RL for samples >RL and <5 x RL (may use RPD < 35%, Diff < 2X RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9

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EcoChem Validation Guidelines for Conventional Chemistry Analysis (Based on EPA Standard Methods)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Field Blank	blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5X RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff<RL Solid: Diff < 2X RL	J(+)/UJ(-) in parent samples only	9

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Environmental Data Quality

APPENDIX B
QUALIFIED DATA SUMMARY TABLE

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Volatile Organic Compounds

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005109	SJNE022-GR1	K1005109-001	1,2,3-Trichlorobenzene	0.34	ug/kg	J	U	22
K1005262	SJVS001-GR1	K1005262-001	1,2,3-Trichlorobenzene	0.6	ug/kg	U	UJ	19
K1005262	SJVS001-GR1	K1005262-001	1,2,4-Trichlorobenzene	0.66	ug/kg	U	UJ	19
K1005262	SJVS001-GR1	K1005262-001	1,2-Dichlorobenzene	1.9	ug/kg	J	J	19
K1005262	SJVS001-GR1	K1005262-001	1,3-Dichlorobenzene	0.82	ug/kg	J	J	19
K1005262	SJVS001-GR1	K1005262-001	1,4-Dichlorobenzene	1.2	ug/kg	J	J	19

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Semivolatile Organic Compounds

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005028	SJNE062-GR1-2	K1005028-005	2,3,4,6-Tetrachlorophenol	0.046	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	2,4,5-Trichlorophenol	0.018	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	2,4,6-Trichlorophenol	0.015	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	2,4-Dichlorophenol	0.017	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	2,4-Dinitrotoluene	0.015	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	2,6-Dinitrotoluene	0.016	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	Acenaphthene	0.014	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	bis(2-Ethylhexyl)phthalate	0.019	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	bis(2-Ethylhexyl)phthalate	0.019	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	Carbazole	0.012	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	Fluorene	0.013	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	Hexachlorobenzene	0.015	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	Naphthalene	0.015	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	Pentachlorophenol	0.13	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	Phenanthrene	0.01	mg/kg	U	UJ	1
K1005028	SJNE062-GR1-2	K1005028-005	Phenol	0.02	mg/kg	U	UJ	1
K1005237	SJNE041-CR1B	K1005237-015	bis(2-Ethylhexyl)phthalate	0.02	mg/kg	J	U	7
K1005237	SJNE041-CR1F	K1005237-019	bis(2-Ethylhexyl)phthalate	0.059	mg/kg	J	U	7
K1005237	SJNE012-CR1A	K1005237-020	bis(2-Ethylhexyl)phthalate	0.026	mg/kg	J	U	7
K1005237	SJNE012-CR1C	K1005237-022	bis(2-Ethylhexyl)phthalate	0.17	mg/kg	J	U	7
K1005237	SJNE026-CR1C	K1005237-025	bis(2-Ethylhexyl)phthalate	0.066	mg/kg	J	U	7
K1005359	SDFW-904C	K1005359-017	bis(2-Ethylhexyl)phthalate	0.36	ug	J	U	7
K1005390	SDFW-904C	K1005390-017	2,3,4,6-Tetrachlorophenol	1.4	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	2,4,5-Trichlorophenol	0.52	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	2,4,6-Trichlorophenol	0.43	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	2,4-Dichlorophenol	0.5	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	2,4-Dinitrotoluene	0.45	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	2,6-Dinitrotoluene	0.47	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	Acenaphthene	0.41	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	bis(2-Ethylhexyl)phthalate	0.56	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	Carbazole	0.34	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	Fluorene	0.4	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	Hexachlorobenzene	0.45	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	Naphthalene	0.44	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	Pentachlorophenol	3.8	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	Phenanthrene	0.31	mg/kg	U	UJ	1
K1005390	SDFW-904C	K1005390-017	Phenol	0.59	mg/kg	U	UJ	1
K1005523	SJSH014-CR1A-1	K1005523-013	2,3,4,6-Tetrachlorophenol	0.046	mg/kg	U	UJ	13
K1005523	SJSH014-CR1A-1	K1005523-013	2,4,5-Trichlorophenol	0.018	mg/kg	U	UJ	13
K1005523	SJSH014-CR1A-1	K1005523-013	2,4,6-Trichlorophenol	0.015	mg/kg	U	UJ	13
K1005523	SJSH014-CR1A-1	K1005523-013	2,4-Dichlorophenol	0.017	mg/kg	U	UJ	13
K1005523	SJSH014-CR1A-1	K1005523-013	Pentachlorophenol	0.13	mg/kg	U	UJ	13
K1005523	SJSH014-CR1A-1	K1005523-013	Phenol	0.02	mg/kg	U	UJ	13
K1005523	SJSH014-CR1A-2	K1005523-014	2,3,4,6-Tetrachlorophenol	0.046	mg/kg	U	UJ	13
K1005523	SJSH014-CR1A-2	K1005523-014	2,4,5-Trichlorophenol	0.018	mg/kg	U	UJ	13
K1005523	SJSH014-CR1A-2	K1005523-014	2,4,6-Trichlorophenol	0.015	mg/kg	U	UJ	13
K1005523	SJSH014-CR1A-2	K1005523-014	2,4-Dichlorophenol	0.017	mg/kg	U	UJ	13
K1005523	SJSH014-CR1A-2	K1005523-014	Pentachlorophenol	0.13	mg/kg	U	UJ	13
K1005523	SJSH014-CR1A-2	K1005523-014	Phenol	0.02	mg/kg	U	UJ	13
K1005523	SJSH012-CR1A	K1005523-029	bis(2-Ethylhexyl)phthalate	0.035	mg/kg	J	J	19

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
PCB Aroclors

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1004785	SJGB014 S2	K1004785-001	Aroclor 1254	1.4	mg/kg		J	9

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Dioxins

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000500	SJGB014 S2	E1000500-001	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.01	ng/kg	BJ	J	10
E1000500	SJGB014 S2	E1000500-001	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.195	ng/kg	BJ	U	7
E1000500	SJGB014 S2	E1000500-001	2,3,7,8-Tetrachlorodibenzo-p-furan	615	ng/kg	CE	DNR	11
E1000500	SJGB014 S3	E1000500-002	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.196	ng/kg	JK	U	22
E1000500	SJGB014 S3	E1000500-002	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.721	ng/kg	BJ	J	10
E1000500	SJGB014 S3	E1000500-002	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.434	ng/kg	BJ	U	7
E1000500	SJGB014 S3	E1000500-002	2,3,7,8-Tetrachlorodibenzo-p-furan	1490	ng/kg	CE	DNR	11
E1000500	SJGB014 S3	E1000500-002	2,3,7,8-Tetrachlorodibenzo-p-furan	1090	ng/kg	E	DNR	20
E1000500	SJGB014 S4	E1000500-003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.191	ng/kg	BJK	U	22
E1000500	SJGB014 S4	E1000500-003	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.207	ng/kg	BJ	U	7
E1000500	SJGB014 S4	E1000500-003	2,3,7,8-Tetrachlorodibenzo-p-furan	517	ng/kg	E	DNR	20
E1000500	SJGB014 S4	E1000500-003	2,3,7,8-Tetrachlorodibenzo-p-furan	674	ng/kg	CE	DNR	11
E1000500	SJGB014 S6	E1000500-004	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.14	ng/kg	JK	U	22
E1000500	SJGB014 S6	E1000500-004	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.351	ng/kg	BJ	J	10
E1000500	SJGB014 S6	E1000500-004	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.106	ng/kg	BJK	U	22
E1000500	SJGB014 S6	E1000500-004	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.199	ng/kg	JK	U	22
E1000500	SJGB014 S6	E1000500-004	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0759	ng/kg	JK	U	22
E1000500	SJGB014 S6	E1000500-004	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.102	ng/kg	BJ	U	7
E1000500	SJGB014 S6	E1000500-004	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.977	ng/kg	K	U	22
E1000500	SJGB014 S6	E1000500-004	2,3,7,8-Tetrachlorodibenzo-p-furan	4.96	ng/kg	C	DNR	11
E1000500	SJGB014 S6	E1000500-004	Octachlorodibenzo-p-furan	0.362	ng/kg	BJK	U	22
E1000500	SJGB016 S1	E1000500-005	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	31.4	ng/kg	BJK,D	DNR	11
E1000500	SJGB016 S1	E1000500-005	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	181	ng/kg	B,D	DNR	11
E1000500	SJGB016 S1	E1000500-005	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	60.1	ng/kg	BJ,D	DNR	11
E1000500	SJGB016 S1	E1000500-005	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	3.74	ng/kg	U,D	DNR	11
E1000500	SJGB016 S1	E1000500-005	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	686	ng/kg	D	DNR	11
E1000500	SJGB016 S1	E1000500-005	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	6.77	ng/kg	U,D	DNR	11
E1000500	SJGB016 S1	E1000500-005	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.54	ng/kg	BJ	J	10
E1000500	SJGB016 S1	E1000500-005	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	166	ng/kg	B,D	DNR	11
E1000500	SJGB016 S1	E1000500-005	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	4.72	ng/kg	U,D	DNR	11
E1000500	SJGB016 S1	E1000500-005	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	8.89	ng/kg	BJK,D	DNR	11
E1000500	SJGB016 S1	E1000500-005	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	12.4	ng/kg	J,D	DNR	11
E1000500	SJGB016 S1	E1000500-005	1,2,3,7,8-Pentachlorodibenzo-p-furan	235	ng/kg	D	DNR	11
E1000500	SJGB016 S1	E1000500-005	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	32.3	ng/kg	BJ,D	DNR	11
E1000500	SJGB016 S1	E1000500-005	2,3,4,7,8-Pentachlorodibenzo-p-furan	115	ng/kg	J,D	DNR	11
E1000500	SJGB016 S1	E1000500-005	2,3,7,8-Tetrachlorodibenzo-p-dioxin	3390	ng/kg	E	DNR	20
E1000500	SJGB016 S1	E1000500-005	2,3,7,8-Tetrachlorodibenzo-p-furan	7610	ng/kg	CE	DNR	11
E1000500	SJGB016 S1	E1000500-005	2,3,7,8-Tetrachlorodibenzo-p-furan	5410	ng/kg	C,D	DNR	11
E1000500	SJGB016 S1	E1000500-005	2,3,7,8-Tetrachlorodibenzo-p-furan	6600	ng/kg	E	DNR	20
E1000500	SJGB016 S1	E1000500-005	Octachlorodibenzo-p-dioxin	519	ng/kg	B,D	DNR	11
E1000500	SJGB016 S1	E1000500-005	Octachlorodibenzo-p-furan	94.1	ng/kg	BJ,D	DNR	11
E1000500	SJGB016 S2	E1000500-006	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.937	ng/kg	BJ	U	7
E1000500	SJGB016 S2	E1000500-006	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.517	ng/kg	BJ	J	10
E1000500	SJGB016 S2	E1000500-006	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.13	ng/kg	BJ	U	7
E1000500	SJGB016 S2	E1000500-006	2,3,7,8-Tetrachlorodibenzo-p-furan	160	ng/kg	C	DNR	11
E1000500	SJGB016 S2	E1000500-006	Octachlorodibenzo-p-furan	1.54	ng/kg	BJK	U	22
E1000500	SJGB016 S4	E1000500-007	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.769	ng/kg	BJK	U	22
E1000500	SJGB016 S4	E1000500-007	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0815	ng/kg	BJK	U	22

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Dioxins

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000500	SJGB016 S4	E1000500-007	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.04	ng/kg	JK	U	22
E1000500	SJGB016 S4	E1000500-007	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.0902	ng/kg	JK	U	22
E1000500	SJGB016 S4	E1000500-007	2,3,7,8-Tetrachlorodibenzo-p-furan	4.44	ng/kg	C	DNR	11
E1000500	SJGB016 S5	E1000500-008	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.363	ng/kg	BJ	U	7
E1000500	SJGB016 S5	E1000500-008	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.177	ng/kg	JK	U	22
E1000500	SJGB016 S5	E1000500-008	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.233	ng/kg	JK	U	22
E1000500	SJGB016 S5	E1000500-008	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.96	ng/kg	JK	U	22
E1000500	SJGB016 S5	E1000500-008	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.466	ng/kg	JK	U	22
E1000500	SJGB016 S5	E1000500-008	2,3,7,8-Tetrachlorodibenzo-p-furan	11.5	ng/kg	C	DNR	11
E1000500	SJGB016 S5	E1000500-008	Octachlorodibenzo-p-furan	0.396	ng/kg	BJK	U	22
E1000500	SJGB015 S1	E1000500-009	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.343	ng/kg	BJ	U	7
E1000500	SJGB015 S1	E1000500-009	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.65	ng/kg	JK	U	22
E1000500	SJGB015 S1	E1000500-009	2,3,7,8-Tetrachlorodibenzo-p-furan	1.64	ng/kg	C	DNR	11
E1000500	SJGB015 S2	E1000500-010	2,3,7,8-Tetrachlorodibenzo-p-furan	0.276	ng/kg	CJ	DNR	11
E1000500	SJGB015 S3	E1000500-011	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.331	ng/kg	JK	U	22
E1000500	SJGB015 S3	E1000500-011	2,3,7,8-Tetrachlorodibenzo-p-furan	0.443	ng/kg	CJ	DNR	11
E1000500	SJGB015 S4	E1000500-012	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.109	ng/kg	BJ	U	7
E1000500	SJGB015 S4	E1000500-012	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0834	ng/kg	BJK	U	22
E1000500	SJGB015 S4	E1000500-012	Octachlorodibenzo-p-furan	0.295	ng/kg	BJK	U	22
E1000514	SJGB017 S1	E1000514-001	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.213	ng/kg	BJ	U	7
E1000514	SJGB017 S1	E1000514-001	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.334	ng/kg	JK	U	22
E1000514	SJGB017 S1	E1000514-001	2,3,7,8-Tetrachlorodibenzo-p-furan	2.75	ng/kg	C	DNR	11
E1000514	SJGB017 S1	E1000514-001	Octachlorodibenzo-p-furan	0.482	ng/kg	BJ	U	7
E1000514	SJGB017 S2	E1000514-002	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.757	ng/kg	BJK	U	22
E1000514	SJGB017 S2	E1000514-002	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.311	ng/kg	JK	U	22
E1000514	SJGB017 S2	E1000514-002	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.143	ng/kg	BJK	U	22
E1000514	SJGB017 S2	E1000514-002	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.406	ng/kg	JK	U	22
E1000514	SJGB017 S2	E1000514-002	2,3,7,8-Tetrachlorodibenzo-p-furan	2.12	ng/kg	C	DNR	11
E1000514	SJGB017 S3	E1000514-003	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.442	ng/kg	JK	U	22
E1000514	SJGB017 S3	E1000514-003	2,3,7,8-Tetrachlorodibenzo-p-furan	1.65	ng/kg	CJ	DNR	11
E1000514	SJGB017 S4	E1000514-004	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.386	ng/kg	JK	U	22
E1000514	SJGB017 S4	E1000514-004	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.316	ng/kg	JK	U	22
E1000514	SJGB017 S4	E1000514-004	2,3,7,8-Tetrachlorodibenzo-p-furan	0.89	ng/kg	CJ	DNR	11
E1000514	SJGB013 S1	E1000514-005	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	329	ng/kg	BJ,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	166	ng/kg	B	J	13
E1000514	SJGB013 S1	E1000514-005	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	167	ng/kg	B	J	13
E1000514	SJGB013 S1	E1000514-005	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	232	ng/kg	BJK,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	54	ng/kg		J	13
E1000514	SJGB013 S1	E1000514-005	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	57.9	ng/kg	U,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.727	ng/kg	JK	UJ	13,22
E1000514	SJGB013 S1	E1000514-005	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	36.3	ng/kg	U,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	547	ng/kg	B	J	13
E1000514	SJGB013 S1	E1000514-005	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	809	ng/kg	B,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	5.17	ng/kg	J	J	13
E1000514	SJGB013 S1	E1000514-005	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	61.9	ng/kg	U,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	194	ng/kg	BJ,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	44.7	ng/kg	U,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.26	ng/kg	J	J	13

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000514	SJGB013 S1	E1000514-005	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	3.34	ng/kg	JK	UJ	13,22
E1000514	SJGB013 S1	E1000514-005	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	52.5	ng/kg	U,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	36.7	ng/kg	U,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	1,2,3,7,8-Pentachlorodibenzo-p-furan	318	ng/kg	J,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	43.7	ng/kg	U,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	2,3,4,7,8-Pentachlorodibenzo-p-furan	264	ng/kg	BJ,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	2,3,7,8-Tetrachlorodibenzo-p-dioxin	3760	ng/kg	E	DNR	20
E1000514	SJGB013 S1	E1000514-005	2,3,7,8-Tetrachlorodibenzo-p-furan	11900	ng/kg	CE	DNR	11
E1000514	SJGB013 S1	E1000514-005	2,3,7,8-Tetrachlorodibenzo-p-furan	5460	ng/kg	E	DNR	20
E1000514	SJGB013 S1	E1000514-005	2,3,7,8-Tetrachlorodibenzo-p-furan	12800	ng/kg	C,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	Octachlorodibenzo-p-dioxin	3150	ng/kg	B,D	DNR	11
E1000514	SJGB013 S1	E1000514-005	Octachlorodibenzo-p-furan	216	ng/kg	BJ,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	44.4	ng/kg	BJK,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	71	ng/kg	BJ,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	28.3	ng/kg	J,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	3.41	ng/kg	U,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	223	ng/kg	B,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	4.23	ng/kg	U,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	57.4	ng/kg	BJ,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	3.52	ng/kg	U,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	2.42	ng/kg	U,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	11.3	ng/kg	JK,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	1,2,3,7,8-Pentachlorodibenzo-p-furan	112	ng/kg	D	DNR	11
E1000514	SJGB013 S2	E1000514-006	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	2	ng/kg	U,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	2,3,4,7,8-Pentachlorodibenzo-p-furan	76.6	ng/kg	BJ,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1490	ng/kg	E	DNR	20
E1000514	SJGB013 S2	E1000514-006	2,3,7,8-Tetrachlorodibenzo-p-furan	3550	ng/kg	E	DNR	20
E1000514	SJGB013 S2	E1000514-006	2,3,7,8-Tetrachlorodibenzo-p-furan	4370	ng/kg	C,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	2,3,7,8-Tetrachlorodibenzo-p-furan	4880	ng/kg	CE	DNR	11
E1000514	SJGB013 S2	E1000514-006	Octachlorodibenzo-p-dioxin	865	ng/kg	B,D	DNR	11
E1000514	SJGB013 S2	E1000514-006	Octachlorodibenzo-p-furan	46.6	ng/kg	BJ,D	DNR	11
E1000514	SJGB013 S3	E1000514-007	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.11	ng/kg	JK	U	22
E1000514	SJGB013 S3	E1000514-007	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.369	ng/kg	JK	U	22
E1000514	SJGB013 S3	E1000514-007	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.355	ng/kg	JK	U	22
E1000514	SJGB013 S3	E1000514-007	2,3,7,8-Tetrachlorodibenzo-p-furan	843	ng/kg	CE	DNR	11
E1000514	SJGB013 S3	E1000514-007	2,3,7,8-Tetrachlorodibenzo-p-furan	681	ng/kg	E	DNR	20
E1000514	SJGB013 S5	E1000514-008	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.791	ng/kg	BJ	U	7
E1000514	SJGB013 S5	E1000514-008	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.29	ng/kg	JK	U	22
E1000514	SJGB013 S5	E1000514-008	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.113	ng/kg	JK	U	22
E1000514	SJGB013 S5	E1000514-008	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.132	ng/kg	JK	U	22
E1000514	SJGB013 S5	E1000514-008	2,3,7,8-Tetrachlorodibenzo-p-furan	61.5	ng/kg	C	DNR	11
E1000514	SJGB013 S5	E1000514-008	Octachlorodibenzo-p-furan	0.42	ng/kg	BJK	U	22
E1000515	SJNE009-GR1	E1000515-001	2,3,7,8-Tetrachlorodibenzo-p-furan	2.39	ng/kg	C	DNR	11
E1000515	SJNE010-GR1	E1000515-002	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.301	ng/kg	JK	U	22
E1000515	SJNE010-GR1	E1000515-002	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.65	ng/kg	JK	U	22
E1000515	SJNE010-GR1	E1000515-002	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.426	ng/kg	JK	U	22
E1000515	SJNE010-GR1	E1000515-002	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.869	ng/kg	JK	U	22
E1000515	SJNE010-GR1	E1000515-002	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.19	ng/kg	JK	U	22

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000515	SJNE010-GR1	E1000515-002	2,3,7,8-Tetrachlorodibenzo-p-furan	54.3	ng/kg	C	DNR	11
E1000515	SJNE011-GR1	E1000515-003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.383	ng/kg	JK	U	22
E1000515	SJNE011-GR1	E1000515-003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.02	ng/kg	JK	U	22
E1000515	SJNE011-GR1	E1000515-003	2,3,7,8-Tetrachlorodibenzo-p-furan	40.1	ng/kg	C	DNR	11
E1000515	SJNE014-GR1	E1000515-004	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.53	ng/kg	JK	U	22
E1000515	SJNE014-GR1	E1000515-004	2,3,7,8-Tetrachlorodibenzo-p-dioxin	4.51	ng/kg	K	U	22
E1000515	SJNE014-GR1	E1000515-004	2,3,7,8-Tetrachlorodibenzo-p-furan	17.3	ng/kg	CK	U	22
E1000515	SJNE017-GR1	E1000515-005	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.1	ng/kg	JK	U	22
E1000515	SJNE017-GR1	E1000515-005	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.743	ng/kg	JK	U	22
E1000515	SJNE017-GR1	E1000515-005	2,3,7,8-Tetrachlorodibenzo-p-furan	46.8	ng/kg	C	DNR	11
E1000515	SJNE020-GR1-1	E1000515-006	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.404	ng/kg	JK	U	22
E1000515	SJNE020-GR1-1	E1000515-006	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.28	ng/kg	JK	U	22
E1000515	SJNE020-GR1-1	E1000515-006	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.155	ng/kg	JK	U	22
E1000515	SJNE020-GR1-1	E1000515-006	2,3,7,8-Tetrachlorodibenzo-p-furan	36.4	ng/kg	C	DNR	11
E1000515	SJNE020-GR1-2	E1000515-007	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.516	ng/kg	JK	U	22
E1000515	SJNE020-GR1-2	E1000515-007	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.68	ng/kg	JK	U	22
E1000515	SJNE020-GR1-2	E1000515-007	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.09	ng/kg	JK	U	22
E1000515	SJNE020-GR1-2	E1000515-007	2,3,7,8-Tetrachlorodibenzo-p-furan	56.9	ng/kg	C	DNR	11
E1000515	SJNE021-GR1	E1000515-008	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.301	ng/kg	JK	U	22
E1000515	SJNE021-GR1	E1000515-008	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.266	ng/kg	JK	U	22
E1000515	SJNE021-GR1	E1000515-008	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.888	ng/kg	JK	U	22
E1000515	SJNE021-GR1	E1000515-008	2,3,7,8-Tetrachlorodibenzo-p-furan	17	ng/kg	C	DNR	11
E1000515	SJNE015-GR1	E1000515-009	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.239	ng/kg	JK	U	22
E1000515	SJNE015-GR1	E1000515-009	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.386	ng/kg	JK	U	22
E1000515	SJNE015-GR1	E1000515-009	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.745	ng/kg	JK	U	22
E1000515	SJNE015-GR1	E1000515-009	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.204	ng/kg	JK	U	22
E1000515	SJNE015-GR1	E1000515-009	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.538	ng/kg	JK	U	22
E1000515	SJNE015-GR1	E1000515-009	2,3,7,8-Tetrachlorodibenzo-p-furan	7.84	ng/kg	C	DNR	11
E1000515	SJNE008-GR1	E1000515-010	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.491	ng/kg	JK	U	22
E1000515	SJNE008-GR1	E1000515-010	2,3,7,8-Tetrachlorodibenzo-p-furan	157	ng/kg	C	DNR	11
E1000515	SJNE012-GR1	E1000515-011	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0699	ng/kg	JK	U	22
E1000515	SJNE012-GR1	E1000515-011	2,3,7,8-Tetrachlorodibenzo-p-furan	3.52	ng/kg	C	DNR	11
E1000516	SJNE052-GR1	E1000516-001	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.218	ng/kg	JK	U	22
E1000516	SJNE052-GR1	E1000516-001	2,3,7,8-Tetrachlorodibenzo-p-furan	9.49	ng/kg	C	DNR	11
E1000516	SJNE057-GR1	E1000516-002	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.448	ng/kg	JK	U	22
E1000516	SJNE057-GR1	E1000516-002	2,3,7,8-Tetrachlorodibenzo-p-furan	1.51	ng/kg	C	DNR	11
E1000516	SJNE058-GR1	E1000516-003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.665	ng/kg	JK	U	22
E1000516	SJNE058-GR1	E1000516-003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.03	ng/kg	JK	U	22
E1000516	SJNE058-GR1	E1000516-003	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.638	ng/kg	JK	U	22
E1000516	SJNE058-GR1	E1000516-003	2,3,7,8-Tetrachlorodibenzo-p-furan	33.5	ng/kg	C	DNR	11
E1000516	SJNE059-GR1	E1000516-004	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.656	ng/kg	JK	U	22
E1000516	SJNE059-GR1	E1000516-004	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.269	ng/kg	JK	U	22
E1000516	SJNE059-GR1	E1000516-004	2,3,7,8-Tetrachlorodibenzo-p-furan	10.8	ng/kg	C	DNR	11
E1000516	SJNE056-GR1	E1000516-005	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.148	ng/kg	JK	U	22
E1000516	SJNE056-GR1	E1000516-005	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.553	ng/kg	JK	U	22
E1000516	SJNE056-GR1	E1000516-005	2,3,7,8-Tetrachlorodibenzo-p-furan	1.95	ng/kg	C	DNR	11
E1000516	SJNE055-GR1	E1000516-006	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.452	ng/kg	JK	U	22
E1000516	SJNE055-GR1	E1000516-006	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.39	ng/kg	JK	U	22

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000516	SJNE055-GR1	E1000516-006	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.811	ng/kg	JK	U	22
E1000516	SJNE055-GR1	E1000516-006	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.446	ng/kg	JK	U	22
E1000516	SJNE055-GR1	E1000516-006	2,3,7,8-Tetrachlorodibenzo-p-furan	24	ng/kg	C	DNR	11
E1000516	SJNE046-GR1	E1000516-007	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.29	ng/kg	JK	U	22
E1000516	SJNE046-GR1	E1000516-007	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.687	ng/kg	JK	U	22
E1000516	SJNE046-GR1	E1000516-007	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.437	ng/kg	JK	U	22
E1000516	SJNE046-GR1	E1000516-007	2,3,7,8-Tetrachlorodibenzo-p-furan	16.9	ng/kg	C	DNR	11
E1000516	SJNE037-GR1	E1000516-008	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.907	ng/kg	JK	U	22
E1000516	SJNE037-GR1	E1000516-008	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.348	ng/kg	JK	U	22
E1000516	SJNE037-GR1	E1000516-008	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.29	ng/kg	JK	U	22
E1000516	SJNE037-GR1	E1000516-008	2,3,7,8-Tetrachlorodibenzo-p-furan	20.3	ng/kg	C	DNR	11
E1000516	SJNE031-GR1	E1000516-009	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.223	ng/kg	JK	U	22
E1000516	SJNE031-GR1	E1000516-009	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.332	ng/kg	JK	U	22
E1000516	SJNE031-GR1	E1000516-009	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.54	ng/kg	K	U	22
E1000516	SJNE031-GR1	E1000516-009	2,3,7,8-Tetrachlorodibenzo-p-furan	6.31	ng/kg	C	DNR	11
E1000516	SJNE025-GR1	E1000516-010	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	1.16	ng/kg	JK	U	22
E1000516	SJNE025-GR1	E1000516-010	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.82	ng/kg	JK	U	22
E1000516	SJNE025-GR1	E1000516-010	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.21	ng/kg	JK	U	22
E1000516	SJNE025-GR1	E1000516-010	2,3,7,8-Tetrachlorodibenzo-p-furan	53.4	ng/kg	C	DNR	11
E1000516	SJNE019-GR1	E1000516-011	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.288	ng/kg	JK	U	22
E1000516	SJNE019-GR1	E1000516-011	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.293	ng/kg	JK	U	22
E1000516	SJNE019-GR1	E1000516-011	2,3,7,8-Tetrachlorodibenzo-p-furan	12.7	ng/kg	C	DNR	11
E1000516	SJNE018-GR1	E1000516-012	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.364	ng/kg	JK	U	22
E1000516	SJNE018-GR1	E1000516-012	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.215	ng/kg	JK	U	22
E1000516	SJNE018-GR1	E1000516-012	2,3,7,8-Tetrachlorodibenzo-p-furan	8.16	ng/kg	C	DNR	11
E1000516	SJNE016-GR1	E1000516-013	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.345	ng/kg	JK	U	22
E1000516	SJNE016-GR1	E1000516-013	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.146	ng/kg	JK	U	22
E1000516	SJNE016-GR1	E1000516-013	2,3,7,8-Tetrachlorodibenzo-p-furan	8.62	ng/kg	C	DNR	11
E1000516	SJNE013-GR1	E1000516-014	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.352	ng/kg	JK	U	22
E1000516	SJNE013-GR1	E1000516-014	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.725	ng/kg	JK	U	22
E1000516	SJNE013-GR1	E1000516-014	2,3,7,8-Tetrachlorodibenzo-p-furan	2.68	ng/kg	C	DNR	11
E1000516	SJNE006-GR1	E1000516-015	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.423	ng/kg	JK	U	22
E1000516	SJNE006-GR1	E1000516-015	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.2	ng/kg	JK	U	22
E1000516	SJNE006-GR1	E1000516-015	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.221	ng/kg	JK	U	22
E1000516	SJNE006-GR1	E1000516-015	1,2,3,7,8-Pentachlorodibenzo-p-furan	2.08	ng/kg	JK	U	22
E1000516	SJNE006-GR1	E1000516-015	2,3,7,8-Tetrachlorodibenzo-p-furan	157	ng/kg	C	DNR	11
E1000516	SJNE007-GR1	E1000516-016	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.155	ng/kg	JK	U	22
E1000516	SJNE007-GR1	E1000516-016	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.297	ng/kg	JK	U	22
E1000516	SJNE007-GR1	E1000516-016	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.933	ng/kg	JK	U	22
E1000516	SJNE007-GR1	E1000516-016	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.148	ng/kg	JK	U	22
E1000516	SJNE007-GR1	E1000516-016	2,3,7,8-Tetrachlorodibenzo-p-furan	152	ng/kg	C	DNR	11
E1000516	SJNE002-GR1	E1000516-017	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.281	ng/kg	JK	U	22
E1000516	SJNE002-GR1	E1000516-017	2,3,7,8-Tetrachlorodibenzo-p-furan	1.22	ng/kg	C	DNR	11
E1000516	SJNE003-GR1	E1000516-018	2,3,7,8-Tetrachlorodibenzo-p-furan	4.17	ng/kg	C	DNR	11
E1000516	SDFW-901S	E1000516-019	Octachlorodibenzo-p-dioxin	5.71	pg	BJK	U	22
E1000524	SJNE038-GR1	E1000524-004	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.51	ng/kg	JK	U	22
E1000524	SJNE038-GR1	E1000524-004	2,3,7,8-Tetrachlorodibenzo-p-dioxin	4.04	ng/kg	K	U	22
E1000524	SJNE038-GR1	E1000524-004	2,3,7,8-Tetrachlorodibenzo-p-furan	14.2	ng/kg	C	DNR	11

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000524	SJNE038-GR1	E1000524-004	Octachlorodibenzo-p-furan	11.4	ng/kg	JK	U	22
E1000524	SJNE060-GR1	E1000524-005	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.744	ng/kg	JK	U	22
E1000524	SJNE060-GR1	E1000524-005	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.59	ng/kg	JK	U	22
E1000524	SJNE060-GR1	E1000524-005	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.274	ng/kg	JK	U	22
E1000524	SJNE060-GR1	E1000524-005	2,3,7,8-Tetrachlorodibenzo-p-furan	9.51	ng/kg	C	DNR	11
E1000524	SJNE061-GR1	E1000524-006	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.676	ng/kg	JK	U	22
E1000524	SJNE061-GR1	E1000524-006	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.372	ng/kg	JK	U	22
E1000524	SJNE061-GR1	E1000524-006	2,3,7,8-Tetrachlorodibenzo-p-furan	0.915	ng/kg	CJK	DNR	11
E1000524	SJNE062-GR1-1	E1000524-007	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0983	ng/kg	JK	U	22
E1000524	SJNE062-GR1-1	E1000524-007	2,3,7,8-Tetrachlorodibenzo-p-furan	0.711	ng/kg	CJ	DNR	11
E1000524	SJNE062-GR1-2	E1000524-008	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.122	ng/kg	JK	U	22
E1000524	SJNE062-GR1-2	E1000524-008	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0778	ng/kg	JK	U	22
E1000524	SJNE062-GR1-2	E1000524-008	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.278	ng/kg	JK	U	22
E1000524	SJNE062-GR1-2	E1000524-008	2,3,7,8-Tetrachlorodibenzo-p-furan	1	ng/kg	CK	DNR	11
E1000524	SJNE065-GR1	E1000524-009	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.332	ng/kg	JK	U	22
E1000524	SJNE065-GR1	E1000524-009	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.92	ng/kg	JK	U	22
E1000524	SJNE065-GR1	E1000524-009	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.819	ng/kg	JK	U	22
E1000524	SJNE065-GR1	E1000524-009	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.452	ng/kg	JK	U	22
E1000524	SJNE065-GR1	E1000524-009	2,3,7,8-Tetrachlorodibenzo-p-furan	1.61	ng/kg	CJK	DNR	11
E1000524	SJNE064-GR1	E1000524-010	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.288	ng/kg	JK	U	22
E1000524	SJNE064-GR1	E1000524-010	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.682	ng/kg	JK	U	22
E1000524	SJNE064-GR1	E1000524-010	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.276	ng/kg	JK	U	22
E1000524	SJNE064-GR1	E1000524-010	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.442	ng/kg	JK	U	22
E1000524	SJNE064-GR1	E1000524-010	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.313	ng/kg	JK	U	22
E1000524	SJNE064-GR1	E1000524-010	2,3,7,8-Tetrachlorodibenzo-p-furan	6.28	ng/kg	C	DNR	11
E1000524	SJNE063-GR1	E1000524-011	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.115	ng/kg	JK	U	22
E1000524	SJNE063-GR1	E1000524-011	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.101	ng/kg	JK	U	22
E1000524	SJNE063-GR1	E1000524-011	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.357	ng/kg	JK	U	22
E1000524	SJNE063-GR1	E1000524-011	2,3,7,8-Tetrachlorodibenzo-p-furan	1.26	ng/kg	CJ	DNR	11
E1000524	SJNE068-GR1	E1000524-012	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.175	ng/kg	JK	U	22
E1000524	SJNE068-GR1	E1000524-012	2,3,7,8-Tetrachlorodibenzo-p-furan	0.818	ng/kg	CJ	DNR	11
E1000524	SJNE053-GR1	E1000524-017	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.366	ng/kg	JK	U	22
E1000524	SJNE053-GR1	E1000524-017	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.706	ng/kg	JK	U	22
E1000524	SJNE053-GR1	E1000524-017	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.219	ng/kg	JK	U	22
E1000524	SJNE053-GR1	E1000524-017	2,3,7,8-Tetrachlorodibenzo-p-furan	16.8	ng/kg	C	DNR	11
E1000524	SJNE047-GR1	E1000524-018	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.21	ng/kg	JK	U	22
E1000524	SJNE047-GR1	E1000524-018	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.572	ng/kg	JK	U	22
E1000524	SJNE047-GR1	E1000524-018	2,3,7,8-Tetrachlorodibenzo-p-furan	16.5	ng/kg	C	DNR	11
E1000524	SJNE048-GR1	E1000524-019	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.378	ng/kg	JK	U	22
E1000524	SJNE048-GR1	E1000524-019	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.27	ng/kg	JK	U	22
E1000524	SJNE048-GR1	E1000524-019	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.617	ng/kg	JK	U	22
E1000524	SJNE048-GR1	E1000524-019	2,3,7,8-Tetrachlorodibenzo-p-furan	29.4	ng/kg	C	DNR	11
E1000524	SJNE054-GR1	E1000524-020	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.391	ng/kg	JK	U	22
E1000524	SJNE054-GR1	E1000524-020	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.422	ng/kg	JK	U	22
E1000524	SJNE054-GR1	E1000524-020	2,3,7,8-Tetrachlorodibenzo-p-furan	1.7	ng/kg	C	DNR	11
E1000525	SJNE049-GR1	E1000525-002	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.39	ng/kg	JK	U	22
E1000525	SJNE049-GR1	E1000525-002	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.178	ng/kg	JK	U	22
E1000525	SJNE049-GR1	E1000525-002	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.773	ng/kg	JK	U	22

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000525	SJNE049-GR1	E1000525-002	2,3,7,8-Tetrachlorodibenzo-p-furan	30.6	ng/kg	C	DNR	11
E1000532	SJNE051-GR1	E1000532-001	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.24	ng/kg	JK	U	22
E1000532	SJNE051-GR1	E1000532-001	2,3,7,8-Tetrachlorodibenzo-p-furan	5.17	ng/kg	C	DNR	11
E1000532	SJNE045-GR1	E1000532-002	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.06	ng/kg	K	U	22
E1000532	SJNE045-GR1	E1000532-002	2,3,7,8-Tetrachlorodibenzo-p-furan	4.2	ng/kg	C	DNR	11
E1000532	SJNE044-GR1	E1000532-003	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.609	ng/kg	JK	U	22
E1000532	SJNE044-GR1	E1000532-003	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.794	ng/kg	JK	U	22
E1000532	SJNE044-GR1	E1000532-003	2,3,7,8-Tetrachlorodibenzo-p-dioxin	3.06	ng/kg	K	U	22
E1000532	SJNE044-GR1	E1000532-003	2,3,7,8-Tetrachlorodibenzo-p-furan	10.2	ng/kg	C	DNR	11
E1000532	SJNE043-GR1	E1000532-004	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.459	ng/kg	JK	U	22
E1000532	SJNE043-GR1	E1000532-004	2,3,7,8-Tetrachlorodibenzo-p-furan	4.95	ng/kg	C	DNR	11
E1000532	SJNE042-GR1-1	E1000532-005	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	2.98	ng/kg	JK	U	22
E1000532	SJNE042-GR1-1	E1000532-005	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.435	ng/kg	JK	U	22
E1000532	SJNE042-GR1-1	E1000532-005	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.628	ng/kg	JK	U	22
E1000532	SJNE042-GR1-1	E1000532-005	2,3,7,8-Tetrachlorodibenzo-p-furan	35.9	ng/kg	C	DNR	11
E1000532	SJNE042-GR1-2	E1000532-006	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1.77	ng/kg	JK	U	22
E1000532	SJNE042-GR1-2	E1000532-006	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.359	ng/kg	JK	U	22
E1000532	SJNE042-GR1-2	E1000532-006	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.471	ng/kg	JK	U	22
E1000532	SJNE042-GR1-2	E1000532-006	2,3,7,8-Tetrachlorodibenzo-p-furan	30.6	ng/kg	C	DNR	11
E1000532	SJNE041-GR1	E1000532-007	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.814	ng/kg	JK	U	22
E1000532	SJNE041-GR1	E1000532-007	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.731	ng/kg	JK	U	22
E1000532	SJNE041-GR1	E1000532-007	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.805	ng/kg	JK	U	22
E1000532	SJNE041-GR1	E1000532-007	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.776	ng/kg	JK	U	22
E1000532	SJNE041-GR1	E1000532-007	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.556	ng/kg	JK	U	22
E1000532	SJNE041-GR1	E1000532-007	2,3,7,8-Tetrachlorodibenzo-p-furan	283	ng/kg	C	DNR	11
E1000532	SJNE040-GR1	E1000532-008	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.41	ng/kg	JK	U	22
E1000532	SJNE040-GR1	E1000532-008	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.12	ng/kg	JK	U	22
E1000532	SJNE040-GR1	E1000532-008	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.94	ng/kg	JK	U	22
E1000532	SJNE040-GR1	E1000532-008	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.332	ng/kg	JK	U	22
E1000532	SJNE040-GR1	E1000532-008	2,3,7,8-Tetrachlorodibenzo-p-furan	58.8	ng/kg	C	DNR	11
E1000532	SJNE039-GR1	E1000532-009	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.53	ng/kg	JK	U	22
E1000532	SJNE039-GR1	E1000532-009	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.32	ng/kg	JK	U	22
E1000532	SJNE039-GR1	E1000532-009	2,3,7,8-Tetrachlorodibenzo-p-furan	63.7	ng/kg	C	DNR	11
E1000532	SJNE032-GR1	E1000532-010	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	3.15	ng/kg	JK	U	22
E1000532	SJNE032-GR1	E1000532-010	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.856	ng/kg	JK	U	22
E1000532	SJNE032-GR1	E1000532-010	2,3,7,8-Tetrachlorodibenzo-p-furan	431	ng/kg	C	DNR	11
E1000532	SJNE033-GR1	E1000532-011	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.227	ng/kg	JK	U	22
E1000532	SJNE033-GR1	E1000532-011	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.16	ng/kg	JK	U	22
E1000532	SJNE033-GR1	E1000532-011	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.597	ng/kg	JK	U	22
E1000532	SJNE033-GR1	E1000532-011	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.428	ng/kg	JK	U	22
E1000532	SJNE033-GR1	E1000532-011	2,3,7,8-Tetrachlorodibenzo-p-furan	52.5	ng/kg	C	DNR	11
E1000532	SJNE034-GR1	E1000532-012	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.896	ng/kg	JK	U	22
E1000532	SJNE034-GR1	E1000532-012	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.469	ng/kg	JK	U	22
E1000532	SJNE034-GR1	E1000532-012	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.388	ng/kg	JK	U	22
E1000532	SJNE034-GR1	E1000532-012	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.589	ng/kg	JK	U	22
E1000532	SJNE034-GR1	E1000532-012	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.0835	ng/kg	JK	U	22
E1000532	SJNE034-GR1	E1000532-012	2,3,7,8-Tetrachlorodibenzo-p-furan	11.1	ng/kg	C	DNR	11
E1000532	SJNE035-GR1	E1000532-013	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.204	ng/kg	JK	U	22

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000532	SJNE035-GR1	E1000532-013	2,3,7,8-Tetrachlorodibenzo-p-furan	14.8	ng/kg	C	DNR	11
E1000532	SJNE036-GR1	E1000532-014	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.116	ng/kg	JK	U	22
E1000532	SJNE036-GR1	E1000532-014	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.173	ng/kg	JK	U	22
E1000532	SJNE036-GR1	E1000532-014	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.988	ng/kg	JK	U	22
E1000532	SJNE036-GR1	E1000532-014	2,3,7,8-Tetrachlorodibenzo-p-furan	3.53	ng/kg	C	DNR	11
E1000532	SJNE030-GR1	E1000532-015	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.563	ng/kg	JK	U	22
E1000532	SJNE030-GR1	E1000532-015	2,3,7,8-Tetrachlorodibenzo-p-furan	2.51	ng/kg	C	DNR	11
E1000532	SJNE028-GR1	E1000532-016	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.137	ng/kg	JK	U	22
E1000532	SJNE028-GR1	E1000532-016	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.458	ng/kg	JK	U	22
E1000532	SJNE028-GR1	E1000532-016	2,3,7,8-Tetrachlorodibenzo-p-furan	12.4	ng/kg	C	DNR	11
E1000532	SJNE027-GR1	E1000532-017	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.137	ng/kg	JK	U	22
E1000532	SJNE027-GR1	E1000532-017	2,3,7,8-Tetrachlorodibenzo-p-furan	41.1	ng/kg	C	DNR	11
E1000532	SJNE026-GR1	E1000532-018	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	2.85	ng/kg	BJK	U	22
E1000532	SJNE026-GR1	E1000532-018	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.409	ng/kg	JK	U	22
E1000532	SJNE026-GR1	E1000532-018	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2.51	ng/kg	K	U	22
E1000532	SJNE026-GR1	E1000532-018	2,3,7,8-Tetrachlorodibenzo-p-furan	9.72	ng/kg	C	DNR	11
E1000532	SJNE024-GR1	E1000532-019	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.449	ng/kg	JK	U	22
E1000532	SJNE024-GR1	E1000532-019	2,3,7,8-Tetrachlorodibenzo-p-furan	1.6	ng/kg	C	DNR	11
E1000532	SJNE024-GR1	E1000532-019	Octachlorodibenzo-p-furan	2.53	ng/kg	JK	U	22
E1000532	SJNE023-GR1	E1000532-020	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.503	ng/kg	JK	U	22
E1000532	SJNE023-GR1	E1000532-020	2,3,7,8-Tetrachlorodibenzo-p-furan	37.4	ng/kg	C	DNR	11
E1000533	SDFW-903S	E1000533-001	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.68	pg	BJ	U	7
E1000533	SDFW-903S	E1000533-001	Octachlorodibenzo-p-dioxin	3.36	pg	BJ	U	7
E1000543	SJSH061-GR1	E1000543-002	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.876	ng/kg	JK	U	22
E1000543	SJSH061-GR1	E1000543-002	2,3,7,8-Tetrachlorodibenzo-p-furan	2.9	ng/kg	C	DNR	11
E1000543	SJSH060-GR1	E1000543-003	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.447	ng/kg	JK	U	22
E1000543	SJSH060-GR1	E1000543-003	2,3,7,8-Tetrachlorodibenzo-p-furan	1.69	ng/kg	C	DNR	11
E1000543	SJSH059-GR1	E1000543-004	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.107	ng/kg	JK	U	22
E1000543	SJSH059-GR1	E1000543-004	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.383	ng/kg	JK	U	22
E1000543	SJSH059-GR1	E1000543-004	2,3,7,8-Tetrachlorodibenzo-p-furan	1.6	ng/kg	C	DNR	11
E1000543	SJNE022-GR1	E1000543-008	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.135	ng/kg	JK	U	22
E1000543	SJNE022-GR1	E1000543-008	2,3,7,8-Tetrachlorodibenzo-p-furan	519	ng/kg	E	DNR	20
E1000543	SJNE022-GR1	E1000543-008	2,3,7,8-Tetrachlorodibenzo-p-furan	596	ng/kg	CE	DNR	11
E1000543	SJNE022-GR3	E1000543-009	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	19	ng/kg	BJK,D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	75.9	ng/kg	J,D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	31	ng/kg	JK,D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.32	ng/kg	U,D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	325	ng/kg	D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.94	ng/kg	U,D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	90.2	ng/kg	J,D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.654	ng/kg	JK	U	22
E1000543	SJNE022-GR3	E1000543-009	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.56	ng/kg	U,D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	3.61	ng/kg	JK,D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	13	ng/kg	J,D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	1,2,3,7,8-Pentachlorodibenzo-p-furan	173	ng/kg	D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	10.9	ng/kg	JK,D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	2,3,4,7,8-Pentachlorodibenzo-p-furan	73.6	ng/kg	JK,D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1970	ng/kg	E	DNR	20

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000543	SJNE022-GR3	E1000543-009	2,3,7,8-Tetrachlorodibenzo-p-furan	4690	ng/kg	C,D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	2,3,7,8-Tetrachlorodibenzo-p-furan	3680	ng/kg	E	DNR	20
E1000543	SJNE022-GR3	E1000543-009	2,3,7,8-Tetrachlorodibenzo-p-furan	5290	ng/kg	CE	DNR	11
E1000543	SJNE022-GR3	E1000543-009	Octachlorodibenzo-p-dioxin	311	ng/kg	B,D	DNR	11
E1000543	SJNE022-GR3	E1000543-009	Octachlorodibenzo-p-furan	53.5	ng/kg	J,D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	34.5	ng/kg	BJ,D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	60.6	ng/kg	JK,D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	37.1	ng/kg	J,D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.81	ng/kg	U,D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.302	ng/kg	JK	U	22
E1000543	SJNE022-GR2	E1000543-010	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	259	ng/kg	D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.18	ng/kg	J	J	10
E1000543	SJNE022-GR2	E1000543-010	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.12	ng/kg	U,D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	59.3	ng/kg	J,D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.94	ng/kg	U,D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	3.27	ng/kg	J,D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	13.5	ng/kg	JK,D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	1,2,3,7,8-Pentachlorodibenzo-p-furan	181	ng/kg	D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	12	ng/kg	JK,D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	2,3,4,7,8-Pentachlorodibenzo-p-furan	105	ng/kg	D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1450	ng/kg	E	DNR	20
E1000543	SJNE022-GR2	E1000543-010	2,3,7,8-Tetrachlorodibenzo-p-furan	3570	ng/kg	E	DNR	20
E1000543	SJNE022-GR2	E1000543-010	2,3,7,8-Tetrachlorodibenzo-p-furan	6210	ng/kg	C,D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	2,3,7,8-Tetrachlorodibenzo-p-furan	5420	ng/kg	CE	DNR	11
E1000543	SJNE022-GR2	E1000543-010	Octachlorodibenzo-p-dioxin	876	ng/kg	B,D	DNR	11
E1000543	SJNE022-GR2	E1000543-010	Octachlorodibenzo-p-furan	69.2	ng/kg	J,D	DNR	11
E1000543	SJGB004-GR1	E1000543-011	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.761	ng/kg	J	J	10
E1000543	SJGB004-GR1	E1000543-011	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.31	ng/kg	JK	U	22
E1000543	SJGB004-GR1	E1000543-011	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.146	ng/kg	JK	U	22
E1000543	SJGB004-GR1	E1000543-011	2,3,7,8-Tetrachlorodibenzo-p-furan	29.5	ng/kg	C	DNR	11
E1000547	SJSH044-CR1A	E1000547-001	2,3,7,8-Tetrachlorodibenzo-p-furan	0.274	ng/kg	CJK	DNR	11
E1000547	SJSH042-CR1A	E1000547-002	Octachlorodibenzo-p-furan	0.51	ng/kg	JK	U	22
E1000547	SJSH040-CR1A-1	E1000547-003	2,3,7,8-Tetrachlorodibenzo-p-furan	0.288	ng/kg	CJ	DNR	11
E1000547	SJSH038-CR1A	E1000547-004	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.228	ng/kg	J	J	10
E1000547	SJSH038-CR1A	E1000547-004	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.126	ng/kg	JK	U	22
E1000547	SJSH038-CR1A	E1000547-004	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.143	ng/kg	JK	U	22
E1000547	SJSH038-CR1A	E1000547-004	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.0779	ng/kg	JK	U	22
E1000547	SJSH038-CR1A	E1000547-004	2,3,7,8-Tetrachlorodibenzo-p-furan	0.243	ng/kg	CJ	DNR	11
E1000547	SJSH036-CR1A	E1000547-005	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.161	ng/kg	JK	U	22
E1000547	SJSH036-CR1A	E1000547-005	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.296	ng/kg	J	J	10
E1000547	SJSH036-CR1A	E1000547-005	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.186	ng/kg	JK	U	22
E1000547	SJSH036-CR1A	E1000547-005	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.211	ng/kg	JK	U	22
E1000547	SJSH036-CR1A	E1000547-005	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.142	ng/kg	JK	U	22
E1000547	SJSH036-CR1A	E1000547-005	2,3,7,8-Tetrachlorodibenzo-p-furan	0.496	ng/kg	CJ	DNR	11
E1000547	SJNE029-GR1	E1000547-006	2,3,7,8-Tetrachlorodibenzo-p-furan	5.57	ng/kg	C	DNR	11
E1000547	SJSH040-CR1A-2	E1000547-007	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.0684	ng/kg	JK	U	22
E1000547	SJSH040-CR1A-2	E1000547-007	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.393	ng/kg	JK	U	22
E1000547	SJSH040-CR1A-2	E1000547-007	2,3,7,8-Tetrachlorodibenzo-p-furan	0.981	ng/kg	C	DNR	11

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000553	SJNE007-CR1A	E1000553-001	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.243	ng/kg	JK	U	22
E1000553	SJNE007-CR1A	E1000553-001	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.22	ng/kg	J	J	10
E1000553	SJNE007-CR1A	E1000553-001	2,3,7,8-Tetrachlorodibenzo-p-furan	5.14	ng/kg	C	DNR	11
E1000553	SJNE007-CR1B	E1000553-002	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.178	ng/kg	JK	U	22
E1000553	SJNE007-CR1B	E1000553-002	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.594	ng/kg	JK	U	22
E1000553	SJNE007-CR1B	E1000553-002	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.255	ng/kg	JK	U	22
E1000553	SJNE007-CR1B	E1000553-002	2,3,7,8-Tetrachlorodibenzo-p-furan	13.6	ng/kg	C	DNR	11
E1000553	SJNE007-CR1C	E1000553-003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.48	ng/kg	J	J	10
E1000553	SJNE007-CR1C	E1000553-003	2,3,7,8-Tetrachlorodibenzo-p-furan	8.45	ng/kg	C	DNR	11
E1000553	SJNE007-CR1D	E1000553-004	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.64	ng/kg	J	J	10
E1000553	SJNE007-CR1D	E1000553-004	2,3,7,8-Tetrachlorodibenzo-p-furan	63.4	ng/kg	C	DNR	11
E1000553	SJNE007-CR1E	E1000553-005	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.742	ng/kg	JK	U	22
E1000553	SJNE007-CR1E	E1000553-005	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.23	ng/kg	JK	U	22
E1000553	SJNE007-CR1E	E1000553-005	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.24	ng/kg	J	J	10
E1000553	SJNE007-CR1E	E1000553-005	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.213	ng/kg	JK	U	22
E1000553	SJNE007-CR1E	E1000553-005	2,3,7,8-Tetrachlorodibenzo-p-furan	55.3	ng/kg	C	DNR	11
E1000553	SJNE007-CR1F	E1000553-006	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.176	ng/kg	JK	U	22
E1000553	SJNE007-CR1F	E1000553-006	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.207	ng/kg	JK	U	22
E1000553	SJNE007-CR1F	E1000553-006	2,3,7,8-Tetrachlorodibenzo-p-furan	4.67	ng/kg	C	DNR	11
E1000553	SJNE007-CR1G	E1000553-007	1,2,3,7,8-Pentachlorodibenzo-p-furan	1.14	ng/kg	JK	U	22
E1000553	SJNE007-CR1G	E1000553-007	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.435	ng/kg	JK	U	22
E1000553	SJNE007-CR1G	E1000553-007	2,3,7,8-Tetrachlorodibenzo-p-furan	34.8	ng/kg	C	DNR	11
E1000553	SJNE007-CR1H	E1000553-008	2,3,7,8-Tetrachlorodibenzo-p-furan	3.5	ng/kg	C	DNR	11
E1000553	SJNE007-CR1I	E1000553-009	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.64	ng/kg	JK	U	22
E1000553	SJNE007-CR1I	E1000553-009	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.312	ng/kg	JK	U	22
E1000553	SJNE007-CR1I	E1000553-009	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.569	ng/kg	JK	U	22
E1000553	SJNE007-CR1I	E1000553-009	2,3,7,8-Tetrachlorodibenzo-p-furan	1.57	ng/kg	CJ	DNR	11
E1000553	SJNE008-CR1A	E1000553-010	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.221	ng/kg	JK	U	22
E1000553	SJNE008-CR1A	E1000553-010	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.962	ng/kg	JK	U	22
E1000553	SJNE008-CR1A	E1000553-010	2,3,7,8-Tetrachlorodibenzo-p-furan	3.47	ng/kg	C	DNR	11
E1000553	SJNE008-CR1B	E1000553-011	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.18	ng/kg	JK	U	22
E1000553	SJNE008-CR1B	E1000553-011	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.206	ng/kg	JK	U	22
E1000553	SJNE008-CR1B	E1000553-011	2,3,7,8-Tetrachlorodibenzo-p-furan	0.782	ng/kg	CJK	DNR	11
E1000553	SJNE008-CR1C	E1000553-012	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.647	ng/kg	JK	U	22
E1000553	SJNE008-CR1C	E1000553-012	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.417	ng/kg	JK	U	22
E1000553	SJNE008-CR1C	E1000553-012	2,3,7,8-Tetrachlorodibenzo-p-furan	1.05	ng/kg	CJ	DNR	11
E1000553	SJNE008-CR1D	E1000553-013	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.183	ng/kg	JK	U	22
E1000553	SJNE008-CR1D	E1000553-013	2,3,7,8-Tetrachlorodibenzo-p-furan	0.404	ng/kg	CJ	DNR	11
E1000553	SJNE008-CR1D	E1000553-013	Octachlorodibenzo-p-furan	0.416	ng/kg	JK	U	22
E1000553	SJNE041-CR1A	E1000553-014	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.241	ng/kg	JK	U	22
E1000553	SJNE041-CR1A	E1000553-014	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.201	ng/kg	JK	U	22
E1000553	SJNE041-CR1A	E1000553-014	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.589	ng/kg	JK	U	22
E1000553	SJNE041-CR1A	E1000553-014	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.113	ng/kg	JK	U	22
E1000553	SJNE041-CR1A	E1000553-014	2,3,7,8-Tetrachlorodibenzo-p-furan	14	ng/kg	C	DNR	11
E1000553	SJNE041-CR1B	E1000553-015	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.183	ng/kg	JK	U	22
E1000553	SJNE041-CR1B	E1000553-015	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.326	ng/kg	JK	U	22
E1000553	SJNE041-CR1B	E1000553-015	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.156	ng/kg	JK	U	22
E1000553	SJNE041-CR1B	E1000553-015	2,3,7,8-Tetrachlorodibenzo-p-furan	8.87	ng/kg	C	DNR	11

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Dioxins

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000553	SJNE041-CR1C	E1000553-016	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.133	ng/kg	JK	U	22
E1000553	SJNE041-CR1C	E1000553-016	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.294	ng/kg	JK	U	22
E1000553	SJNE041-CR1C	E1000553-016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.362	ng/kg	JK	U	22
E1000553	SJNE041-CR1C	E1000553-016	2,3,7,8-Tetrachlorodibenzo-p-furan	0.745	ng/kg	CJ	DNR	11
E1000553	SJNE041-CR1D	E1000553-017	2,3,7,8-Tetrachlorodibenzo-p-furan	0.248	ng/kg	CJK	DNR	11
E1000553	SJNE041-CR1E	E1000553-018	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.938	ng/kg	JK	U	22
E1000553	SJNE041-CR1E	E1000553-018	2,3,7,8-Tetrachlorodibenzo-p-furan	0.244	ng/kg	CJ	DNR	11
E1000553	SJNE041-CR1F	E1000553-019	2,3,7,8-Tetrachlorodibenzo-p-furan	0.217	ng/kg	JK	U	22
E1000553	SJNE041-CR1F	E1000553-019	2,3,7,8-Tetrachlorodibenzo-p-furan	0.168	ng/kg	CJ	DNR	11
E1000554	SJNE012-CR1A	E1000554-001	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.233	ng/kg	JK	U	22
E1000554	SJNE012-CR1A	E1000554-001	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.277	ng/kg	JK	U	22
E1000554	SJNE012-CR1A	E1000554-001	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.646	ng/kg	JK	U	22
E1000554	SJNE012-CR1A	E1000554-001	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.276	ng/kg	JK	U	22
E1000554	SJNE012-CR1A	E1000554-001	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.214	ng/kg	JK	U	22
E1000554	SJNE012-CR1A	E1000554-001	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.289	ng/kg	JK	U	22
E1000554	SJNE012-CR1A	E1000554-001	2,3,7,8-Tetrachlorodibenzo-p-furan	9.92	ng/kg	C	DNR	11
E1000554	SJNE012-CR1B	E1000554-002	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.772	ng/kg	JK	U	22
E1000554	SJNE012-CR1B	E1000554-002	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.294	ng/kg	JK	U	22
E1000554	SJNE012-CR1B	E1000554-002	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.328	ng/kg	JK	U	22
E1000554	SJNE012-CR1B	E1000554-002	2,3,7,8-Tetrachlorodibenzo-p-furan	8.42	ng/kg	C	DNR	11
E1000554	SJNE012-CR1C	E1000554-003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.616	ng/kg	JK	U	22
E1000554	SJNE026-CR1A	E1000554-004	2,3,7,8-Tetrachlorodibenzo-p-furan	226	ng/kg	C	DNR	11
E1000554	SJNE026-CR1B	E1000554-005	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.542	ng/kg	JK	U	22
E1000554	SJNE026-CR1B	E1000554-005	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.472	ng/kg	JK	U	22
E1000554	SJNE026-CR1B	E1000554-005	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.387	ng/kg	JK	U	22
E1000554	SJNE026-CR1B	E1000554-005	2,3,7,8-Tetrachlorodibenzo-p-furan	150	ng/kg	C	DNR	11
E1000554	SJNE026-CR1C	E1000554-006	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.355	ng/kg	JK	U	22
E1000554	SJNE026-CR1C	E1000554-006	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.214	ng/kg	JK	U	22
E1000554	SJNE026-CR1C	E1000554-006	2,3,7,8-Tetrachlorodibenzo-p-furan	107	ng/kg	C	DNR	11
E1000554	SJNE026-CR1D	E1000554-007	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.319	ng/kg	JK	U	22
E1000554	SJNE026-CR1D	E1000554-007	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.106	ng/kg	JK	U	22
E1000554	SJNE026-CR1D	E1000554-007	2,3,7,8-Tetrachlorodibenzo-p-furan	37	ng/kg	C	DNR	11
E1000554	SJNE026-CR1E	E1000554-008	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.132	ng/kg	JK	U	22
E1000554	SJNE026-CR1E	E1000554-008	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.187	ng/kg	JK	U	22
E1000554	SJNE026-CR1E	E1000554-008	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.482	ng/kg	JK	U	22
E1000554	SJNE026-CR1E	E1000554-008	2,3,7,8-Tetrachlorodibenzo-p-furan	20.2	ng/kg	C	DNR	11
E1000554	SJNE026-CR1F	E1000554-009	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.222	ng/kg	JK	U	22
E1000554	SJNE026-CR1F	E1000554-009	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.536	ng/kg	JK	U	22
E1000554	SJNE026-CR1F	E1000554-009	2,3,7,8-Tetrachlorodibenzo-p-furan	24.8	ng/kg	C	DNR	11
E1000554	SJNE026-CR1G	E1000554-010	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0835	ng/kg	BJK	U	22
E1000554	SJNE026-CR1G	E1000554-010	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.384	ng/kg	JK	U	22
E1000554	SJNE026-CR1G	E1000554-010	2,3,7,8-Tetrachlorodibenzo-p-furan	1.67	ng/kg	C	DNR	11
E1000554	SJNE026-CR1G	E1000554-010	Octachlorodibenzo-p-furan	0.553	ng/kg	BJ	U	7
E1000557	SJNE033-CR1C	E1000557-001	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.22	ng/kg	JK	U	22
E1000557	SJNE033-CR1C	E1000557-001	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.585	ng/kg	JK	U	22
E1000557	SJNE033-CR1C	E1000557-001	2,3,4,7,8-Pentachlorodibenzo-p-furan	1.93	ng/kg	JK	U	22
E1000557	SJNE033-CR1C	E1000557-001	2,3,7,8-Tetrachlorodibenzo-p-furan	99.3	ng/kg	C	DNR	11
E1000557	SJNE033-CR1D	E1000557-002	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.239	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Dioxins

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000557	SJNE033-CR1D	E1000557-002	2,3,7,8-Tetrachlorodibenzo-p-furan	98	ng/kg	C	DNR	11
E1000557	SJNE033-CR1E	E1000557-003	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.705	ng/kg	JK	U	22
E1000557	SJNE033-CR1E	E1000557-003	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.979	ng/kg	JK	U	22
E1000557	SJNE033-CR1E	E1000557-003	2,3,7,8-Tetrachlorodibenzo-p-furan	91.5	ng/kg	C	DNR	11
E1000557	SJNE033-CR1F	E1000557-004	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1.35	ng/kg	JK	U	22
E1000557	SJNE033-CR1F	E1000557-004	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.832	ng/kg	JK	U	22
E1000557	SJNE033-CR1F	E1000557-004	2,3,7,8-Tetrachlorodibenzo-p-furan	79	ng/kg	C	DNR	11
E1000557	SJNE033-CR1G	E1000557-005	2,3,7,8-Tetrachlorodibenzo-p-furan	71.5	ng/kg	C	DNR	11
E1000557	SJNE033-CR1H	E1000557-006	2,3,7,8-Tetrachlorodibenzo-p-furan	138	ng/kg	C	DNR	11
E1000557	SJNE033-CR1I	E1000557-007	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.592	ng/kg	JK	U	22
E1000557	SJNE033-CR1I	E1000557-007	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.402	ng/kg	JK	U	22
E1000557	SJNE033-CR1I	E1000557-007	2,3,7,8-Tetrachlorodibenzo-p-furan	11.6	ng/kg	C	DNR	11
E1000557	SJNE033-CR1J	E1000557-008	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.623	ng/kg	BJK	U	22
E1000557	SJNE033-CR1J	E1000557-008	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.143	ng/kg	JK	U	22
E1000557	SJNE033-CR1J	E1000557-008	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.358	ng/kg	JK	U	22
E1000557	SJNE033-CR1J	E1000557-008	2,3,7,8-Tetrachlorodibenzo-p-furan	2.09	ng/kg	C	DNR	11
E1000557	SJNE050-CR1A	E1000557-009	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.598	ng/kg	JK	U	22
E1000557	SJNE050-CR1A	E1000557-009	2,3,7,8-Tetrachlorodibenzo-p-furan	61.3	ng/kg	C	DNR	11
E1000557	SJNE050-CR1B	E1000557-010	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.644	ng/kg	JK	U	22
E1000557	SJNE050-CR1B	E1000557-010	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.746	ng/kg	JK	U	22
E1000557	SJNE050-CR1B	E1000557-010	2,3,7,8-Tetrachlorodibenzo-p-furan	33.8	ng/kg	C	DNR	11
E1000557	SJNE030-CR1A	E1000557-011	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.13	ng/kg	BJ	U	7
E1000557	SJNE030-CR1A	E1000557-011	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0323	ng/kg	JK	U	22
E1000557	SJNE030-CR1A	E1000557-011	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.372	ng/kg	JK	U	22
E1000557	SJNE030-CR1A	E1000557-011	2,3,7,8-Tetrachlorodibenzo-p-furan	0.797	ng/kg	CJ	DNR	11
E1000557	SJNE030-CR1B	E1000557-012	2,3,7,8-Tetrachlorodibenzo-p-furan	0.306	ng/kg	CJK	DNR	11
E1000557	SJNE030-CR1B	E1000557-012	Octachlorodibenzo-p-furan	0.272	ng/kg	BJ	U	7
E1000557	SJNE030-CR1C	E1000557-013	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.102	ng/kg	JK	U	22
E1000557	SJNE030-CR1C	E1000557-013	2,3,7,8-Tetrachlorodibenzo-p-furan	0.19	ng/kg	CJ	DNR	11
E1000557	SJNE030-CR1C	E1000557-013	2,3,7,8-Tetrachlorodibenzo-p-furan	0.165	ng/kg	JK	U	22
E1000557	SJNE030-CR1D	E1000557-014	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0284	ng/kg	U	UJ	10
E1000557	SJNE030-CR1D	E1000557-014	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0303	ng/kg	J	J	10
E1000557	SJNE030-CR1D	E1000557-014	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0298	ng/kg	JK	U	22
E1000557	SJNE030-CR1D	E1000557-014	Octachlorodibenzo-p-furan	0.204	ng/kg	JK	U	22
E1000557	SJNE030-CR1E	E1000557-015	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0263	ng/kg	U	UJ	10
E1000557	SJNE030-CR1E	E1000557-015	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0151	ng/kg	U	UJ	10
E1000558	SJNE023-CR1A	E1000558-001	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.103	ng/kg	J	J	10
E1000558	SJNE023-CR1A	E1000558-001	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.116	ng/kg	JK	U	22
E1000558	SJNE023-CR1A	E1000558-001	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.402	ng/kg	JK	U	22
E1000558	SJNE023-CR1A	E1000558-001	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0344	ng/kg	U	UJ	10
E1000558	SJNE023-CR1A	E1000558-001	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.321	ng/kg	JK	U	22
E1000558	SJNE023-CR1A	E1000558-001	2,3,7,8-Tetrachlorodibenzo-p-furan	1.14	ng/kg	C	DNR	11
E1000558	SJNE023-CR1B	E1000558-002	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0471	ng/kg	U	UJ	10
E1000558	SJNE023-CR1B	E1000558-002	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.117	ng/kg	U	UJ	13
E1000558	SJNE023-CR1B	E1000558-002	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0499	ng/kg	U	UJ	10
E1000558	SJNE023-CR1B	E1000558-002	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.142	ng/kg	JK	U	22
E1000558	SJNE023-CR1B	E1000558-002	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.0899	ng/kg	U	UJ	13
E1000558	SJNE023-CR1B	E1000558-002	2,3,7,8-Tetrachlorodibenzo-p-furan	0.577	ng/kg	CJK	DNR	11

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Dioxins

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000558	SJNE023-CR1C	E1000558-003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0394	ng/kg	U	UJ	10
E1000558	SJNE023-CR1C	E1000558-003	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.031	ng/kg	U	UJ	10
E1000558	SJNE023-CR1D	E1000558-004	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0504	ng/kg	J	J	10
E1000558	SJNE023-CR1D	E1000558-004	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.132	ng/kg	JK	U	22
E1000558	SJNE023-CR1D	E1000558-004	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.025	ng/kg	U	UJ	10
E1000558	SJNE023-CR1E	E1000558-005	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0413	ng/kg	U	UJ	10
E1000558	SJNE023-CR1E	E1000558-005	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.034	ng/kg	U	UJ	10
E1000558	SJNE023-CR1E	E1000558-005	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.221	ng/kg	JK	U	22
E1000558	SJNE023-CR1E	E1000558-005	Octachlorodibenzo-p-furan	0.204	ng/kg	JK	U	22
E1000558	SJNE023-CR1F	E1000558-006	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0447	ng/kg	U	UJ	10
E1000558	SJNE023-CR1F	E1000558-006	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.113	ng/kg	JK	U	22
E1000558	SJNE023-CR1F	E1000558-006	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0292	ng/kg	U	UJ	10
E1000558	SJNE023-CR1F	E1000558-006	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.399	ng/kg	JK	U	22
E1000558	SJNE023-CR1G	E1000558-007	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0385	ng/kg	U	UJ	10
E1000558	SJNE023-CR1G	E1000558-007	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0325	ng/kg	U	UJ	10
E1000558	SJNE023-CR1G	E1000558-007	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.846	ng/kg	JK	U	22
E1000558	SJNE023-CR1H	E1000558-008	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0453	ng/kg	U	UJ	10
E1000558	SJNE023-CR1H	E1000558-008	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0365	ng/kg	U	UJ	10
E1000558	SJNE023-CR1H	E1000558-008	Octachlorodibenzo-p-furan	0.144	ng/kg	JK	U	22
E1000558	SJNE033-CR1A	E1000558-009	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	3.21	ng/kg	J	J	10
E1000558	SJNE033-CR1A	E1000558-009	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.412	ng/kg	JK	U	22
E1000558	SJNE033-CR1A	E1000558-009	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.402	ng/kg	JK	UJ	10,22
E1000558	SJNE033-CR1A	E1000558-009	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.753	ng/kg	JK	U	22
E1000558	SJNE033-CR1A	E1000558-009	2,3,7,8-Tetrachlorodibenzo-p-furan	47.7	ng/kg	C	DNR	11
E1000558	SJNE033-CR1B	E1000558-010	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.839	ng/kg	J	J	10
E1000558	SJNE033-CR1B	E1000558-010	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.136	ng/kg	J	J	10
E1000558	SJNE033-CR1B	E1000558-010	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.189	ng/kg	JK	U	22
E1000558	SJNE033-CR1B	E1000558-010	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.152	ng/kg	JK	U	22
E1000558	SJNE033-CR1B	E1000558-010	2,3,7,8-Tetrachlorodibenzo-p-furan	9.05	ng/kg	C	DNR	11
E1000558	SJNE050-CR1C	E1000558-011	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	5.15	ng/kg	J	J	10
E1000558	SJNE050-CR1C	E1000558-011	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.433	ng/kg	JK	UJ	10,22
E1000558	SJNE050-CR1C	E1000558-011	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.34	ng/kg	JK	U	22
E1000558	SJNE050-CR1C	E1000558-011	2,3,7,8-Tetrachlorodibenzo-p-furan	42.8	ng/kg	C	DNR	11
E1000558	SJNE050-CR1D	E1000558-012	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.825	ng/kg	J	J	10
E1000558	SJNE050-CR1D	E1000558-012	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.101	ng/kg	JK	U	22
E1000558	SJNE050-CR1D	E1000558-012	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.139	ng/kg	J	J	10
E1000558	SJNE050-CR1D	E1000558-012	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.243	ng/kg	JK	U	22
E1000558	SJNE050-CR1D	E1000558-012	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.162	ng/kg	JK	U	22
E1000558	SJNE050-CR1D	E1000558-012	2,3,7,8-Tetrachlorodibenzo-p-furan	9.68	ng/kg	C	DNR	11
E1000558	SJNE050-CR1E	E1000558-013	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	7.12	ng/kg	J	J	10
E1000558	SJNE050-CR1E	E1000558-013	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.596	ng/kg	JK	U	22
E1000558	SJNE050-CR1E	E1000558-013	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.702	ng/kg	J	J	10
E1000558	SJNE050-CR1E	E1000558-013	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.59	ng/kg	JK	U	22
E1000558	SJNE050-CR1E	E1000558-013	2,3,7,8-Tetrachlorodibenzo-p-furan	45.3	ng/kg	C	DNR	11
E1000558	SJNE050-CR1F	E1000558-014	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.14	ng/kg	J	J	10
E1000558	SJNE050-CR1F	E1000558-014	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.105	ng/kg	JK	U	22
E1000558	SJNE050-CR1F	E1000558-014	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.107	ng/kg	J	J	10
E1000558	SJNE050-CR1F	E1000558-014	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.293	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Dioxins

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000558	SJNE050-CR1F	E1000558-014	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.183	ng/kg	JK	U	22
E1000558	SJNE050-CR1F	E1000558-014	2,3,7,8-Tetrachlorodibenzo-p-furan	5.84	ng/kg	C	DNR	11
E1000558	SJNE050-CR1G	E1000558-015	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.115	ng/kg	J	J	10
E1000558	SJNE050-CR1G	E1000558-015	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0996	ng/kg	JK	U	22
E1000558	SJNE050-CR1G	E1000558-015	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0809	ng/kg	JK	U	22
E1000558	SJNE050-CR1G	E1000558-015	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0635	ng/kg	JK	UJ	10,22
E1000558	SJNE050-CR1G	E1000558-015	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.0958	ng/kg	JK	U	22
E1000558	SJNE050-CR1G	E1000558-015	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0494	ng/kg	JK	U	22
E1000558	SJNE050-CR1G	E1000558-015	2,3,7,8-Tetrachlorodibenzo-p-furan	0.362	ng/kg	CJ	DNR	11
E1000558	SJNE043-CR1A	E1000558-016	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.178	ng/kg	JK	UJ	10,22
E1000558	SJNE043-CR1A	E1000558-016	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.018	ng/kg	U	UJ	10
E1000558	SJNE043-CR1A	E1000558-016	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0958	ng/kg	JK	U	22
E1000558	SJNE043-CR1A	E1000558-016	2,3,7,8-Tetrachlorodibenzo-p-furan	2.58	ng/kg	C	DNR	11
E1000558	SJNE043-CR1A	E1000558-016	Octachlorodibenzo-p-furan	1.44	ng/kg	JK	U	22
E1000558	SJNE043-CR1B	E1000558-017	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.124	ng/kg	J	J	10
E1000558	SJNE043-CR1B	E1000558-017	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.058	ng/kg	JK	U	22
E1000558	SJNE043-CR1B	E1000558-017	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0231	ng/kg	U	UJ	10
E1000558	SJNE043-CR1B	E1000558-017	2,3,7,8-Tetrachlorodibenzo-p-furan	0.931	ng/kg	CJ	DNR	11
E1000558	SJNE043-CR1C	E1000558-018	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0351	ng/kg	U	UJ	10
E1000558	SJNE043-CR1C	E1000558-018	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0321	ng/kg	U	UJ	10
E1000558	SJNE043-CR1C	E1000558-018	2,3,7,8-Tetrachlorodibenzo-p-furan	0.254	ng/kg	CJ	DNR	11
E1000558	SJNE043-CR1E	E1000558-020	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.799	ng/kg	BJ	U	7
E1000559	SJVS016-GR1	E1000559-006	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.685	ng/kg	JK	U	22
E1000559	SJVS016-GR1	E1000559-006	2,3,7,8-Tetrachlorodibenzo-p-furan	2520	ng/kg	E	DNR	20
E1000559	SJVS016-GR1	E1000559-006	2,3,7,8-Tetrachlorodibenzo-p-furan	3310	ng/kg	CE	DNR	11
E1000566	SJNE029-CR1A	E1000566-001	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.214	ng/kg	JK	U	22
E1000566	SJNE029-CR1A	E1000566-001	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.255	ng/kg	JK	U	22
E1000566	SJNE029-CR1A	E1000566-001	2,3,7,8-Tetrachlorodibenzo-p-furan	1.03	ng/kg	CJ	DNR	11
E1000566	SJNE029-CR1B	E1000566-002	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.316	ng/kg	JK	U	22
E1000566	SJNE029-CR1B	E1000566-002	2,3,7,8-Tetrachlorodibenzo-p-furan	0.548	ng/kg	CJ	DNR	11
E1000566	SJNE029-CR1C	E1000566-003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.11	ng/kg	JK	U	22
E1000566	SJNE029-CR1C	E1000566-003	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.137	ng/kg	JK	U	22
E1000566	SJNE029-CR1C	E1000566-003	2,3,7,8-Tetrachlorodibenzo-p-furan	0.574	ng/kg	CJ	DNR	11
E1000566	SJNE029-CR1D	E1000566-004	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0595	ng/kg	JK	U	22
E1000566	SJNE029-CR1D	E1000566-004	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.112	ng/kg	JK	U	22
E1000566	SJNE029-CR1E	E1000566-005	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.118	ng/kg	JK	U	22
E1000566	SJNE029-CR1E	E1000566-005	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.185	ng/kg	JK	U	22
E1000566	SJNE029-CR1E	E1000566-005	Octachlorodibenzo-p-furan	0.0811	ng/kg	JK	U	22
E1000566	SJNE029-CR1F	E1000566-006	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.146	ng/kg	JK	U	22
E1000566	SJNE029-CR1F	E1000566-006	2,3,7,8-Tetrachlorodibenzo-p-furan	0.261	ng/kg	CJ	DNR	11
E1000566	SJNE029-CR1H	E1000566-008	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.105	ng/kg	JK	U	22
E1000566	SJNE029-CR1H	E1000566-008	2,3,7,8-Tetrachlorodibenzo-p-furan	0.111	ng/kg	CJK	DNR	11
E1000566	SJNE029-CR1I	E1000566-009	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.343	ng/kg	JK	U	22
E1000566	SJNE028-CR1A	E1000566-010	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.266	ng/kg	JK	U	22
E1000566	SJNE028-CR1A	E1000566-010	2,3,7,8-Tetrachlorodibenzo-p-furan	0.776	ng/kg	CJ	DNR	11
E1000566	SJNE028-CR1B	E1000566-011	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.231	ng/kg	JK	U	22
E1000566	SJNE028-CR1B	E1000566-011	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.465	ng/kg	JK	U	22
E1000566	SJNE028-CR1B	E1000566-011	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.225	ng/kg	JK	U	22

Qualified Data Summary Table
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Dioxins

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000566	SJNE028-CR1B	E1000566-011	2,3,7,8-Tetrachlorodibenzo-p-furan	0.504	ng/kg	JK	U	22
E1000566	SJNE028-CR1B	E1000566-011	2,3,7,8-Tetrachlorodibenzo-p-furan	0.586	ng/kg	CJK	DNR	11
E1000566	SJNE028-CR1B	E1000566-011	Octachlorodibenzo-p-furan	0.186	ng/kg	JK	U	22
E1000566	SJNE028-CR1C	E1000566-012	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.125	ng/kg	JK	U	22
E1000566	SJNE028-CR1D	E1000566-013	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0945	ng/kg	JK	U	22
E1000566	SJNE028-CR1D	E1000566-013	2,3,7,8-Tetrachlorodibenzo-p-furan	0.318	ng/kg	CJ	DNR	11
E1000566	SJNE028-CR1E	E1000566-014	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.195	ng/kg	JK	U	22
E1000566	SJNE028-CR1G	E1000566-016	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.134	ng/kg	JK	U	22
E1000566	SJNE028-CR1H	E1000566-017	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.215	ng/kg	JK	U	22
E1000566	SJNE028-CR1H	E1000566-017	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.529	ng/kg	JK	U	22
E1000566	SJNE032-CR1A	E1000566-018	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.181	ng/kg	JK	U	22
E1000566	SJNE032-CR1A	E1000566-018	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.625	ng/kg	JK	U	22
E1000566	SJNE032-CR1A	E1000566-018	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.05	ng/kg	JK	U	22
E1000566	SJNE032-CR1A	E1000566-018	2,3,7,8-Tetrachlorodibenzo-p-furan	686	ng/kg	CE	DNR	11
E1000566	SJNE032-CR1A	E1000566-018	2,3,7,8-Tetrachlorodibenzo-p-furan	552	ng/kg	E	DNR	20
E1000566	SJNE032-CR1B	E1000566-019	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.144	ng/kg	JK	U	22
E1000566	SJNE032-CR1B	E1000566-019	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.346	ng/kg	JK	U	22
E1000566	SJNE032-CR1B	E1000566-019	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.521	ng/kg	JK	U	22
E1000566	SJNE032-CR1B	E1000566-019	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.208	ng/kg	JK	U	22
E1000566	SJNE032-CR1B	E1000566-019	2,3,7,8-Tetrachlorodibenzo-p-furan	201	ng/kg	C	DNR	11
E1000566	SJNE032-CR1C	E1000566-020	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.274	ng/kg	JK	U	22
E1000566	SJNE032-CR1C	E1000566-020	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.268	ng/kg	JK	U	22
E1000566	SJNE032-CR1C	E1000566-020	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.145	ng/kg	JK	U	22
E1000566	SJNE032-CR1C	E1000566-020	2,3,7,8-Tetrachlorodibenzo-p-furan	105	ng/kg	C	DNR	11
E1000567	SJNE032-CR1D	E1000567-001	2,3,7,8-Tetrachlorodibenzo-p-furan	753	ng/kg	E	DNR	20
E1000567	SJNE032-CR1D	E1000567-001	2,3,7,8-Tetrachlorodibenzo-p-furan	965	ng/kg	CE	DNR	11
E1000567	SJNE032-CR1E	E1000567-002	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0625	ng/kg	JK	U	22
E1000567	SJNE032-CR1E	E1000567-002	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.135	ng/kg	JK	U	22
E1000567	SJNE032-CR1E	E1000567-002	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.147	ng/kg	JK	U	22
E1000567	SJNE032-CR1E	E1000567-002	2,3,7,8-Tetrachlorodibenzo-p-furan	253	ng/kg	C	DNR	11
E1000567	SJNE032-CR1F	E1000567-003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.2	ng/kg	JK	U	22
E1000567	SJNE032-CR1F	E1000567-003	2,3,7,8-Tetrachlorodibenzo-p-furan	999	ng/kg	CE	DNR	11
E1000567	SJNE032-CR1F	E1000567-003	2,3,7,8-Tetrachlorodibenzo-p-furan	744	ng/kg	E	DNR	20
E1000567	SJNE032-CR1G	E1000567-004	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.257	ng/kg	JK	U	22
E1000567	SJNE032-CR1G	E1000567-004	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.132	ng/kg	JK	U	22
E1000567	SJNE032-CR1G	E1000567-004	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.133	ng/kg	JK	U	22
E1000567	SJNE032-CR1G	E1000567-004	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.465	ng/kg	JK	U	22
E1000567	SJNE032-CR1G	E1000567-004	2,3,7,8-Tetrachlorodibenzo-p-furan	24.6	ng/kg	C	DNR	11
E1000567	SJNE032-CR1G	E1000567-004	Octachlorodibenzo-p-furan	1.08	ng/kg	JK	U	22
E1000567	SJNE032-CR1H	E1000567-005	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.272	ng/kg	JK	U	22
E1000567	SJNE032-CR1H	E1000567-005	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.298	ng/kg	JK	U	22
E1000567	SJNE032-CR1H	E1000567-005	2,3,7,8-Tetrachlorodibenzo-p-furan	12.7	ng/kg	C	DNR	11
E1000567	SJNE032-CR1I	E1000567-006	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.213	ng/kg	JK	U	22
E1000567	SJNE032-CR1I	E1000567-006	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.101	ng/kg	JK	U	22
E1000567	SJNE032-CR1I	E1000567-006	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.115	ng/kg	U	UJ	13
E1000567	SJNE032-CR1I	E1000567-006	2,3,7,8-Tetrachlorodibenzo-p-furan	10.3	ng/kg	C	DNR	11
E1000567	SJNE035-CR1A	E1000567-007	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.2	ng/kg	JK	U	22
E1000567	SJNE035-CR1A	E1000567-007	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1.92	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Dioxins

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000567	SJNE035-CR1A	E1000567-007	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.137	ng/kg	JK	U	22
E1000567	SJNE035-CR1A	E1000567-007	2,3,7,8-Tetrachlorodibenzo-p-furan	1.9	ng/kg	C	DNR	11
E1000567	SJNE035-CR1B	E1000567-008	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.112	ng/kg	JK	U	22
E1000567	SJNE035-CR1B	E1000567-008	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.348	ng/kg	JK	U	22
E1000567	SJNE035-CR1B	E1000567-008	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.234	ng/kg	JK	U	22
E1000567	SJNE035-CR1B	E1000567-008	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.237	ng/kg	JK	U	22
E1000567	SJNE035-CR1B	E1000567-008	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.204	ng/kg	JK	U	22
E1000567	SJNE035-CR1C	E1000567-009	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.198	ng/kg	JK	U	22
E1000567	SJNE035-CR1C	E1000567-009	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0788	ng/kg	JK	U	22
E1000567	SJNE035-CR1C	E1000567-009	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.611	ng/kg	JK	U	22
E1000567	SJNE035-CR1C	E1000567-009	Octachlorodibenzo-p-furan	0.249	ng/kg	JK	U	22
E1000567	SJNE035-CR1D	E1000567-010	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0872	ng/kg	JK	U	22
E1000567	SJNE035-CR1D	E1000567-010	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0555	ng/kg	JK	U	22
E1000567	SJNE035-CR1D	E1000567-010	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.134	ng/kg	JK	U	22
E1000567	SJNE035-CR1E	E1000567-011	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.209	ng/kg	U	UJ	13
E1000567	SJNE035-CR1E	E1000567-011	Octachlorodibenzo-p-dioxin	168	ng/kg	B	J	13
E1000567	SJNE035-CR1F	E1000567-012	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0427	ng/kg	JK	U	22
E1000567	SJNE035-CR1G	E1000567-013	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0394	ng/kg	JK	U	22
E1000567	SJNE035-CR1G	E1000567-013	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.177	ng/kg	JK	U	22
E1000567	SJNE035-CR1G	E1000567-013	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.61	ng/kg	JK	U	22
E1000567	SJNE035-CR1H	E1000567-014	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0758	ng/kg	JK	U	22
E1000567	SJNE035-CR1H	E1000567-014	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.233	ng/kg	JK	U	22
E1000567	SJNE035-CR1H	E1000567-014	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0664	ng/kg	JK	U	22
E1000567	SJNE035-CR1H	E1000567-014	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.409	ng/kg	JK	U	22
E1000567	SJNE035-CR1H	E1000567-014	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.11	ng/kg	JK	U	22
E1000567	SDFW-902C	E1000567-016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.9	pg	JK	U	22
E1000567	SDFW-902C	E1000567-016	2,3,7,8-Tetrachlorodibenzo-p-furan	7.98	pg	CJ	DNR	11
E1000567	SDFW-902C	E1000567-016	Octachlorodibenzo-p-dioxin	4.06	pg	BJ	U	7
E1000567	SDFW-904C	E1000567-017	Octachlorodibenzo-p-dioxin	2.74	pg	BJK	U	22
E1000567	SJNE032-CR1J	E1000567-018	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.429	ng/kg	J	J	10
E1000567	SJNE032-CR1J	E1000567-018	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.103	ng/kg	JK	U	22
E1000567	SJNE032-CR1J	E1000567-018	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0871	ng/kg	JK	UJ	10,22
E1000567	SJNE032-CR1J	E1000567-018	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.122	ng/kg	JK	U	22
E1000567	SJNE032-CR1J	E1000567-018	2,3,7,8-Tetrachlorodibenzo-p-furan	6.3	ng/kg	C	DNR	11
E1000568	SJVS001-GR1	E1000568-001	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	163	ng/kg	BJ,D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	140	ng/kg	B	J	10
E1000568	SJVS001-GR1	E1000568-001	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	309	ng/kg	D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	143	ng/kg	J,D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	4.73	ng/kg	U,D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1180	ng/kg	D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	4.73	ng/kg	U,D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	5.67	ng/kg	J	J	10
E1000568	SJVS001-GR1	E1000568-001	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	283	ng/kg	D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	4.74	ng/kg	U,D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	22.3	ng/kg	JK,D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	61.2	ng/kg	J,D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	1,2,3,7,8-Pentachlorodibenzo-p-furan	721	ng/kg	D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	32.5	ng/kg	J,D	DNR	11

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Dioxins

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000568	SJVS001-GR1	E1000568-001	2,3,4,7,8-Pentachlorodibenzo-p-furan	452	ng/kg	D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	2,3,7,8-Tetrachlorodibenzo-p-dioxin	7890	ng/kg	E	DNR	20
E1000568	SJVS001-GR1	E1000568-001	2,3,7,8-Tetrachlorodibenzo-p-furan	27100	ng/kg	E	DNR	20
E1000568	SJVS001-GR1	E1000568-001	2,3,7,8-Tetrachlorodibenzo-p-furan	24600	ng/kg	CEP	DNR	11
E1000568	SJVS001-GR1	E1000568-001	2,3,7,8-Tetrachlorodibenzo-p-furan	30300	ng/kg	C,D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	Octachlorodibenzo-p-dioxin	4010	ng/kg	B,D	DNR	11
E1000568	SJVS001-GR1	E1000568-001	Octachlorodibenzo-p-furan	217	ng/kg	J,D	DNR	11
E1000569	SJGB013 S4	E1000569-001	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	2.82	ng/kg	J	J	10
E1000569	SJGB013 S4	E1000569-001	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.19	ng/kg	JK	U	22
E1000569	SJGB013 S4	E1000569-001	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	3.78	ng/kg	J	J	10
E1000569	SJGB013 S4	E1000569-001	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.999	ng/kg	JK	UJ	13.22
E1000569	SJGB013 S4	E1000569-001	2,3,7,8-Tetrachlorodibenzo-p-furan	260	ng/kg	C	DNR	11
E1000569	SJGB014 S1	E1000569-002	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	36.1	ng/kg	BJK,D	DNR	11
E1000569	SJGB014 S1	E1000569-002	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	297	ng/kg		J	10
E1000569	SJGB014 S1	E1000569-002	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	384	ng/kg	J,D	DNR	11
E1000569	SJGB014 S1	E1000569-002	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	163	ng/kg	J,D	DNR	11
E1000569	SJGB014 S1	E1000569-002	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	6.09	ng/kg	U,D	DNR	11
E1000569	SJGB014 S1	E1000569-002	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	1520	ng/kg	D	DNR	11
E1000569	SJGB014 S1	E1000569-002	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	6.57	ng/kg	U,D	DNR	11
E1000569	SJGB014 S1	E1000569-002	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	381	ng/kg	J,D	DNR	11
E1000569	SJGB014 S1	E1000569-002	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	250	ng/kg		J	10
E1000569	SJGB014 S1	E1000569-002	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	6.28	ng/kg	U,D	DNR	11
E1000569	SJGB014 S1	E1000569-002	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	15.7	ng/kg	JK,D	DNR	11
E1000569	SJGB014 S1	E1000569-002	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	171	ng/kg	J,D	DNR	11
E1000569	SJGB014 S1	E1000569-002	1,2,3,7,8-Pentachlorodibenzo-p-furan	1220	ng/kg	D	DNR	11
E1000569	SJGB014 S1	E1000569-002	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	58.3	ng/kg	J,D	DNR	11
E1000569	SJGB014 S1	E1000569-002	2,3,4,7,8-Pentachlorodibenzo-p-furan	996	ng/kg	D	DNR	11
E1000569	SJGB014 S1	E1000569-002	2,3,7,8-Tetrachlorodibenzo-p-dioxin	14100	ng/kg	E	DNR	20
E1000569	SJGB014 S1	E1000569-002	2,3,7,8-Tetrachlorodibenzo-p-furan	65400	ng/kg	E	DNR	20
E1000569	SJGB014 S1	E1000569-002	2,3,7,8-Tetrachlorodibenzo-p-furan	38300	ng/kg	CEKP	DNR	11
E1000569	SJGB014 S1	E1000569-002	2,3,7,8-Tetrachlorodibenzo-p-furan	88500	ng/kg	CE,D	DNR	11
E1000569	SJGB014 S1	E1000569-002	Octachlorodibenzo-p-dioxin	266	ng/kg	BJK,D	DNR	11
E1000569	SJGB014 S1	E1000569-002	Octachlorodibenzo-p-furan	204	ng/kg	J,D	DNR	11
E1000569	SJGB014 S5	E1000569-003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.328	ng/kg	J	J	10
E1000569	SJGB014 S5	E1000569-003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.332	ng/kg	JK	U	22
E1000569	SJGB014 S5	E1000569-003	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.304	ng/kg	J	J	10
E1000569	SJGB014 S5	E1000569-003	2,3,7,8-Tetrachlorodibenzo-p-furan	54.3	ng/kg	C	DNR	11
E1000569	SJGB014 S5	E1000569-003	Octachlorodibenzo-p-furan	0.226	ng/kg	JK	U	22
E1000569	SJGB015 S5	E1000569-004	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0283	ng/kg	U	UJ	10
E1000569	SJGB015 S5	E1000569-004	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0103	ng/kg	U	UJ	10
E1000569	SJGB015 S5	E1000569-004	2,3,7,8-Tetrachlorodibenzo-p-furan	1.35	ng/kg	C	DNR	11
E1000569	SJGB016 S3	E1000569-005	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0477	ng/kg	U	UJ	10
E1000569	SJGB016 S3	E1000569-005	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0289	ng/kg	U	UJ	10
E1000569	SJGB016 S3	E1000569-005	2,3,7,8-Tetrachlorodibenzo-p-furan	0.29	ng/kg	CJK	DNR	11
E1000569	SJGB017 S5	E1000569-006	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0199	ng/kg	U	UJ	10
E1000569	SJGB017 S5	E1000569-006	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0211	ng/kg	U	UJ	10
E1000569	SJGB017 S5	E1000569-006	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.198	ng/kg	JK	U	22
E1000569	SJGB017 S5	E1000569-006	2,3,7,8-Tetrachlorodibenzo-p-furan	0.194	ng/kg	CJ	DNR	11

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Dioxins

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000569	SJNE001-GR1	E1000569-007	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.56	ng/kg	J	J	10
E1000569	SJNE001-GR1	E1000569-007	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.36	ng/kg	JK	U	22
E1000569	SJNE001-GR1	E1000569-007	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.135	ng/kg	U	UJ	10
E1000569	SJNE001-GR1	E1000569-007	2,3,7,8-Tetrachlorodibenzo-p-furan	8.68	ng/kg	C	DNR	11
E1000569	SJNE004-GR1	E1000569-008	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	2.17	ng/kg	J	J	10
E1000569	SJNE004-GR1	E1000569-008	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.237	ng/kg	JK	U	22
E1000569	SJNE004-GR1	E1000569-008	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.236	ng/kg	JK	UJ	10,22
E1000569	SJNE004-GR1	E1000569-008	2,3,7,8-Tetrachlorodibenzo-p-furan	16.7	ng/kg	C	DNR	11
E1000569	SJNE005-GR1	E1000569-009	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.4	ng/kg	J	J	10
E1000569	SJNE005-GR1	E1000569-009	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.184	ng/kg	JK	U	22
E1000569	SJNE005-GR1	E1000569-009	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.116	ng/kg	JK	U	22
E1000569	SJNE005-GR1	E1000569-009	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0896	ng/kg	JK	UJ	10,22
E1000569	SJNE005-GR1	E1000569-009	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.198	ng/kg	JK	U	22
E1000569	SJNE005-GR1	E1000569-009	2,3,7,8-Tetrachlorodibenzo-p-furan	5.51	ng/kg	C	DNR	11
E1000569	SJSH056-GR1	E1000569-010	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.478	ng/kg	J	J	10
E1000569	SJSH056-GR1	E1000569-010	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0336	ng/kg	U	UJ	10
E1000569	SJSH056-GR1	E1000569-010	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.202	ng/kg	JK	U	22
E1000569	SJSH056-GR1	E1000569-010	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.0564	ng/kg	JK	U	22
E1000569	SJSH056-GR1	E1000569-010	2,3,7,8-Tetrachlorodibenzo-p-furan	1.92	ng/kg	C	DNR	11
E1000569	SJSH057-GR1	E1000569-011	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1	ng/kg	J	J	10
E1000569	SJSH057-GR1	E1000569-011	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.09	ng/kg	J	J	10
E1000569	SJSH057-GR1	E1000569-011	2,3,7,8-Tetrachlorodibenzo-p-furan	5.42	ng/kg	C	DNR	11
E1000569	SJSH058-GR1	E1000569-012	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.13	ng/kg	J	J	10
E1000569	SJSH058-GR1	E1000569-012	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.182	ng/kg	JK	U	22
E1000569	SJSH058-GR1	E1000569-012	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.131	ng/kg	U	UJ	10
E1000569	SJSH058-GR1	E1000569-012	2,3,7,8-Tetrachlorodibenzo-p-furan	5.57	ng/kg	C	DNR	11
E1000569	SJGB008-GR1	E1000569-013	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	8.83	ng/kg		J	10
E1000569	SJGB008-GR1	E1000569-013	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0888	ng/kg	JK	U	22
E1000569	SJGB008-GR1	E1000569-013	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.224	ng/kg	JK	U	22
E1000569	SJGB008-GR1	E1000569-013	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	4.29	ng/kg	J	J	10
E1000569	SJGB008-GR1	E1000569-013	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.319	ng/kg	JK	U	22
E1000569	SJGB008-GR1	E1000569-013	2,3,7,8-Tetrachlorodibenzo-p-furan	609	ng/kg	CE	DNR	11
E1000569	SJGB008-GR1	E1000569-013	2,3,7,8-Tetrachlorodibenzo-p-furan	522	ng/kg	E	DNR	20
E1000569	SJGB005-GR1	E1000569-014	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.67	ng/kg	J	J	10
E1000569	SJGB005-GR1	E1000569-014	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.182	ng/kg	JK	U	22
E1000569	SJGB005-GR1	E1000569-014	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.199	ng/kg	JK	U	22
E1000569	SJGB005-GR1	E1000569-014	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.308	ng/kg	J	J	10
E1000569	SJGB005-GR1	E1000569-014	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.135	ng/kg	JK	U	22
E1000569	SJGB005-GR1	E1000569-014	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.536	ng/kg	JK	U	22
E1000569	SJGB005-GR1	E1000569-014	2,3,7,8-Tetrachlorodibenzo-p-furan	26.8	ng/kg	C	DNR	11
E1000569	SJGB007-GR1	E1000569-015	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	21	ng/kg		J	10
E1000569	SJGB007-GR1	E1000569-015	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.32	ng/kg	JK	U	22
E1000569	SJGB007-GR1	E1000569-015	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	16.6	ng/kg		J	10
E1000569	SJGB007-GR1	E1000569-015	2,3,7,8-Tetrachlorodibenzo-p-furan	1870	ng/kg	E	DNR	20
E1000569	SJGB007-GR1	E1000569-015	2,3,7,8-Tetrachlorodibenzo-p-furan	2660	ng/kg	CE	DNR	11
E1000569	SJNE050-GR1	E1000569-016	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.111	ng/kg	JK	UJ	10,22
E1000569	SJNE050-GR1	E1000569-016	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0641	ng/kg	U	UJ	10
E1000569	SJNE050-GR1	E1000569-016	2,3,7,8-Tetrachlorodibenzo-p-furan	2.29	ng/kg	C	DNR	11

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Dioxins

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000569	SJNE066-GR1	E1000569-017	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.159	ng/kg	JK	UJ	10,22
E1000569	SJNE066-GR1	E1000569-017	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0675	ng/kg	JK	U	22
E1000569	SJNE066-GR1	E1000569-017	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.014	ng/kg	U	UJ	10
E1000569	SJNE066-GR1	E1000569-017	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.072	ng/kg	JK	U	22
E1000569	SJNE066-GR1	E1000569-017	2,3,7,8-Tetrachlorodibenzo-p-furan	0.383	ng/kg	CJ	DNR	11
E1000570	SJSH064-GR1-1	E1000570-001	2,3,7,8-Tetrachlorodibenzo-p-furan	0.383	ng/kg	J	DNR	11
E1000570	SJSH063-GR1	E1000570-003	Octachlorodibenzo-p-furan	0.616	ng/kg	JK	U	22
E1000570	SJSH062-GR1	E1000570-004	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	2.68	ng/kg	J	J	10
E1000570	SJSH062-GR1	E1000570-004	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.2	ng/kg	JK	U	22
E1000570	SJSH062-GR1	E1000570-004	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.254	ng/kg	JK	U	22
E1000570	SJSH062-GR1	E1000570-004	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.134	ng/kg	JK	U	22
E1000570	SJSH062-GR1	E1000570-004	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0881	ng/kg	JK	UJ	10,22
E1000570	SJSH062-GR1	E1000570-004	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.154	ng/kg	JK	U	22
E1000570	SJSH062-GR1	E1000570-004	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.14	ng/kg	JK	U	22
E1000570	SJSH062-GR1	E1000570-004	2,3,7,8-Tetrachlorodibenzo-p-furan	0.616	ng/kg	CJ	DNR	11
E1000570	SJNE067-GR1	E1000570-005	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.306	ng/kg	J	J	10
E1000570	SJNE067-GR1	E1000570-005	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0183	ng/kg	U	UJ	10
E1000570	SJNE067-GR1	E1000570-005	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.192	ng/kg	JK	U	22
E1000570	SJNE067-GR1	E1000570-005	2,3,7,8-Tetrachlorodibenzo-p-furan	0.812	ng/kg	CJ	DNR	11
E1000570	SJNE069-GR1	E1000570-006	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0641	ng/kg	JK	UJ	10,22
E1000570	SJNE069-GR1	E1000570-006	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0143	ng/kg	JK	UJ	10,22
E1000570	SJNE069-GR1	E1000570-006	2,3,7,8-Tetrachlorodibenzo-p-furan	0.247	ng/kg	CJ	DNR	11
E1000570	SJNE070-GR1	E1000570-007	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.226	ng/kg	J	J	10
E1000570	SJNE070-GR1	E1000570-007	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0408	ng/kg	JK	U	22
E1000570	SJNE070-GR1	E1000570-007	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.081	ng/kg	JK	U	22
E1000570	SJNE070-GR1	E1000570-007	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0213	ng/kg	U	UJ	10
E1000570	SJNE070-GR1	E1000570-007	2,3,7,8-Tetrachlorodibenzo-p-furan	0.362	ng/kg	CJ	DNR	11
E1000570	SJNE070-GR1	E1000570-007	Octachlorodibenzo-p-furan	1.03	ng/kg	JK	U	22
E1000570	SJWRP-001	E1000570-008	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	190	ng/kg	P	J	14
E1000570	SJWRP-001	E1000570-008	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	64.9	ng/kg	P	J	14
E1000570	SJWRP-001	E1000570-008	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	2.16	ng/kg	JP	J	14
E1000570	SJWRP-001	E1000570-008	1,2,3,7,8-Pentachlorodibenzo-p-furan	47.2	ng/kg	P	J	14
E1000570	SJWRP-001	E1000570-008	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	36.9	ng/kg	P	J	14
E1000570	SJWRP-001	E1000570-008	2,3,7,8-Tetrachlorodibenzo-p-furan	196	ng/kg	C	DNR	11
E1000570	SDFW-906S	E1000570-009	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.459	pg	J	J	10
E1000570	SDFW-906S	E1000570-009	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.219	pg	U	UJ	10
E1000570	SDFW-906S	E1000570-009	Octachlorodibenzo-p-dioxin	4.64	pg	BJ	U	7
E1000570	SDFW-920S	E1000570-010	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.534	pg	BJK	U	22
E1000570	SDFW-920S	E1000570-010	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.259	pg	U	UJ	10
E1000570	SDFW-920S	E1000570-010	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.133	pg	U	UJ	10
E1000570	SDFW-920S	E1000570-010	Octachlorodibenzo-p-dioxin	3.26	pg	BJK	U	7,22
E1000571	SJSH055-CR1A	E1000571-001	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.79	ng/kg	J	J	10
E1000571	SJSH055-CR1A	E1000571-001	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.116	ng/kg	JK	U	22
E1000571	SJSH055-CR1A	E1000571-001	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.148	ng/kg	JK	U	22
E1000571	SJSH055-CR1A	E1000571-001	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0348	ng/kg	U	UJ	10
E1000571	SJSH055-CR1A	E1000571-001	2,3,7,8-Tetrachlorodibenzo-p-furan	0.773	ng/kg	CJ	DNR	11
E1000571	SJSH053-CR1A	E1000571-002	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0906	ng/kg	J	J	10
E1000571	SJSH053-CR1A	E1000571-002	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0227	ng/kg	U	UJ	10

Qualified Data Summary Table
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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000571	SJSH053-CR1A	E1000571-002	2,3,7,8-Tetrachlorodibenzo-p-furan	0.18	ng/kg	CJ	DNR	11
E1000571	SJSH051-CR1A	E1000571-003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.34	ng/kg	J	J	10
E1000571	SJSH051-CR1A	E1000571-003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.198	ng/kg	JK	U	22
E1000571	SJSH051-CR1A	E1000571-003	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.096	ng/kg	JK	U	22
E1000571	SJSH051-CR1A	E1000571-003	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.113	ng/kg	JK	UJ	10,22
E1000571	SJSH051-CR1A	E1000571-003	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.136	ng/kg	JK	U	22
E1000571	SJSH051-CR1A	E1000571-003	2,3,7,8-Tetrachlorodibenzo-p-furan	0.741	ng/kg	CJ	DNR	11
E1000571	SJSH051-CR1A	E1000571-003	2,3,7,8-Tetrachlorodibenzo-p-furan	0.667	ng/kg	JK	U	22
E1000571	SJSH047-CR1A	E1000571-006	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.178	ng/kg	J	J	10
E1000571	SJSH047-CR1A	E1000571-006	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0601	ng/kg	JK	U	22
E1000571	SJSH047-CR1A	E1000571-006	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0102	ng/kg	U	UJ	10
E1000571	SJSH047-CR1A	E1000571-006	2,3,7,8-Tetrachlorodibenzo-p-furan	0.238	ng/kg	CJK	DNR	11
E1000571	SJSH001-CR1A	E1000571-007	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.138	ng/kg	J	J	10
E1000571	SJSH001-CR1A	E1000571-007	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0667	ng/kg	JK	U	22
E1000571	SJSH001-CR1A	E1000571-007	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.105	ng/kg	JK	U	22
E1000571	SJSH001-CR1A	E1000571-007	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0108	ng/kg	U	UJ	10
E1000571	SJSH001-CR1A	E1000571-007	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.0392	ng/kg	JK	U	22
E1000571	SJSH001-CR1A	E1000571-007	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.607	ng/kg	JK	U	22
E1000571	SJSH001-CR1A	E1000571-007	2,3,7,8-Tetrachlorodibenzo-p-furan	1.76	ng/kg	C	DNR	11
E1000571	SJSH002-CR1A	E1000571-008	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.764	ng/kg	J	J	10
E1000571	SJSH002-CR1A	E1000571-008	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.1	ng/kg	JK	U	22
E1000571	SJSH002-CR1A	E1000571-008	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0883	ng/kg	J	J	10
E1000571	SJSH002-CR1A	E1000571-008	2,3,7,8-Tetrachlorodibenzo-p-furan	2.69	ng/kg	C	DNR	11
E1000571	SDFW-911C	E1000571-009	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.552	pg	BJK	U	22
E1000571	SDFW-911C	E1000571-009	Octachlorodibenzo-p-dioxin	3.9	pg	BJ	U	7
E1000571	SJSH049-CR1A	E1000571-010	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.29	ng/kg	JK	UJ	10,22
E1000571	SJSH049-CR1A	E1000571-010	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0497	ng/kg	JK	U	22
E1000571	SJSH049-CR1A	E1000571-010	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0249	ng/kg	JK	UJ	10,22
E1000571	SJSH049-CR1A	E1000571-010	2,3,7,8-Tetrachlorodibenzo-p-furan	4.43	ng/kg	C	DNR	11
E1000580	SJSH003-CR1A	E1000580-001	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.26	ng/kg	J	J	10
E1000580	SJSH003-CR1A	E1000580-001	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.226	ng/kg	JK	U	22
E1000580	SJSH003-CR1A	E1000580-001	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.42	ng/kg	JK	U	22
E1000580	SJSH003-CR1A	E1000580-001	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.14	ng/kg	JK	UJ	10,22
E1000580	SJSH003-CR1A	E1000580-001	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.0562	ng/kg	JK	U	22
E1000580	SJSH003-CR1A	E1000580-001	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.113	ng/kg	JK	U	22
E1000580	SJSH003-CR1A	E1000580-001	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.133	ng/kg	JK	U	22
E1000580	SJSH003-CR1A	E1000580-001	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.166	ng/kg	JK	U	22
E1000580	SJSH003-CR1A	E1000580-001	2,3,7,8-Tetrachlorodibenzo-p-furan	4.61	ng/kg	C	DNR	11
E1000580	SJSH004-CR1A	E1000580-002	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.903	ng/kg	J	J	10
E1000580	SJSH004-CR1A	E1000580-002	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.125	ng/kg	J	J	10
E1000580	SJSH004-CR1A	E1000580-002	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.068	ng/kg	JK	U	22
E1000580	SJSH004-CR1A	E1000580-002	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.0759	ng/kg	JK	U	22
E1000580	SJSH004-CR1A	E1000580-002	2,3,7,8-Tetrachlorodibenzo-p-furan	1.78	ng/kg	C	DNR	11
E1000580	SJSH005-CR1A-1	E1000580-003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.504	ng/kg	J	J	10
E1000580	SJSH005-CR1A-1	E1000580-003	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0975	ng/kg	JK	U	22
E1000580	SJSH005-CR1A-1	E1000580-003	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.312	ng/kg	J	J	10
E1000580	SJSH005-CR1A-1	E1000580-003	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.0798	ng/kg	JK	U	22
E1000580	SJSH005-CR1A-1	E1000580-003	2,3,7,8-Tetrachlorodibenzo-p-furan	1.92	ng/kg	C	DNR	11

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000580	SJSH005-CR1A-2	E1000580-004	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.38	ng/kg	J	J	10
E1000580	SJSH005-CR1A-2	E1000580-004	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.13	ng/kg	JK	U	22
E1000580	SJSH005-CR1A-2	E1000580-004	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0488	ng/kg	JK	U	22
E1000580	SJSH005-CR1A-2	E1000580-004	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.113	ng/kg	J	J	10
E1000580	SJSH005-CR1A-2	E1000580-004	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0438	ng/kg	JK	U	22
E1000580	SJSH005-CR1A-2	E1000580-004	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.248	ng/kg	JK	U	22
E1000580	SJSH005-CR1A-2	E1000580-004	2,3,7,8-Tetrachlorodibenzo-p-furan	0.837	ng/kg	CJ	DNR	11
E1000580	SJSH012-CR1A	E1000580-005	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.265	ng/kg	JK	U	22
E1000580	SJSH012-CR1A	E1000580-005	2,3,7,8-Tetrachlorodibenzo-p-furan	2.42	ng/kg	C	DNR	11
E1000580	SJSH014-CR1A-1	E1000580-006	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.123	ng/kg	JK	U	22
E1000580	SJSH014-CR1A-1	E1000580-006	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.137	ng/kg	JK	U	22
E1000580	SJSH014-CR1A-2	E1000580-007	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.134	ng/kg	JK	U	22
E1000580	SJSH014-CR1A-2	E1000580-007	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.195	ng/kg	JK	U	22
E1000580	SJSH014-CR1A-2	E1000580-007	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.28	ng/kg	JK	U	22
E1000580	SJSH014-CR1B-1	E1000580-008	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.157	ng/kg	JK	U	22
E1000580	SJSH014-CR1B-1	E1000580-008	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.252	ng/kg	JK	U	22
E1000580	SJSH014-CR1B-1	E1000580-008	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.232	ng/kg	JK	U	22
E1000580	SJSH014-CR1B-1	E1000580-008	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.269	ng/kg	JK	U	22
E1000580	SJSH014-CR1B-1	E1000580-008	2,3,7,8-Tetrachlorodibenzo-p-furan	1.48	ng/kg	C	DNR	11
E1000580	SJSH014-CR1B-2	E1000580-009	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.149	ng/kg	JK	U	22
E1000580	SJSH014-CR1B-2	E1000580-009	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.124	ng/kg	JK	U	22
E1000580	SJSH014-CR1B-2	E1000580-009	2,3,7,8-Tetrachlorodibenzo-p-furan	3.35	ng/kg	C	DNR	11
E1000580	SJSH017-CR1A	E1000580-010	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.558	ng/kg	JK	U	22
E1000580	SJSH017-CR1A	E1000580-010	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.276	ng/kg	JK	U	22
E1000580	SJSH017-CR1A	E1000580-010	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.39	ng/kg	JK	U	22
E1000580	SJSH017-CR1A	E1000580-010	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.297	ng/kg	JK	U	22
E1000580	SJSH017-CR1A	E1000580-010	2,3,7,8-Tetrachlorodibenzo-p-furan	18.9	ng/kg	C	DNR	11
E1000580	SJSH019-CR1A	E1000580-011	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.106	ng/kg	JK	U	22
E1000580	SJSH019-CR1A	E1000580-011	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.11	ng/kg	JK	U	22
E1000580	SJSH019-CR1A	E1000580-011	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.272	ng/kg	JK	U	22
E1000580	SJSH019-CR1A	E1000580-011	2,3,7,8-Tetrachlorodibenzo-p-furan	15.8	ng/kg	C	DNR	11
E1000580	SJSH021-CR1A	E1000580-012	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.259	ng/kg	JK	U	22
E1000580	SJSH021-CR1A	E1000580-012	2,3,7,8-Tetrachlorodibenzo-p-furan	26.5	ng/kg	C	DNR	11
E1000580	SJSH021-CR1A	E1000580-012	Octachlorodibenzo-p-furan	1.46	ng/kg	JK	U	22
E1000580	SJSH023-CR1A	E1000580-013	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.24	ng/kg	K	U	22
E1000580	SJSH023-CR1A	E1000580-013	2,3,7,8-Tetrachlorodibenzo-p-furan	6.25	ng/kg	C	DNR	11
E1000580	SJSH025-CR1A-1	E1000580-014	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.342	ng/kg	JK	U	22
E1000580	SJSH025-CR1A-1	E1000580-014	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.245	ng/kg	JK	U	22
E1000580	SJSH025-CR1A-1	E1000580-014	2,3,7,8-Tetrachlorodibenzo-p-furan	9.05	ng/kg	C	DNR	11
E1000580	SJSH027-CR1A	E1000580-015	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.462	ng/kg	JK	U	22
E1000580	SJSH027-CR1A	E1000580-015	Octachlorodibenzo-p-furan	0.248	ng/kg	JK	U	22
E1000580	SJSH027-CR1B	E1000580-016	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.304	ng/kg	JK	U	22
E1000580	SJSH027-CR1B	E1000580-016	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.51	ng/kg	JK	U	22
E1000580	SJSH029-CR1A	E1000580-017	2,3,7,8-Tetrachlorodibenzo-p-furan	0.819	ng/kg	CK	DNR	11
E1000580	SJSH029-CR1B	E1000580-018	2,3,7,8-Tetrachlorodibenzo-p-furan	3.76	ng/kg	C	DNR	11
E1000580	SJSH025-CR1A-2	E1000580-019	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.21	ng/kg	JK	U	22
E1000580	SJSH025-CR1A-2	E1000580-019	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.192	ng/kg	JK	U	22
E1000580	SJSH025-CR1A-2	E1000580-019	2,3,7,8-Tetrachlorodibenzo-p-furan	10.7	ng/kg	C	DNR	11

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000581	SJSH031-CR1A	E1000581-003	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	3.39	ng/kg	BJK	U	22
E1000581	SJSH033-CR1A	E1000581-006	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.64	ng/kg	K	U	22
E1000581	SJSH033-CR1A	E1000581-006	2,3,7,8-Tetrachlorodibenzo-p-furan	9.36	ng/kg	C	DNR	11
E1000581	SJSH033-CR1B	E1000581-007	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.176	ng/kg	JK	U	22
E1000581	SJSH033-CR1B	E1000581-007	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1	ng/kg	JK	U	22
E1000581	SJSH033-CR1B	E1000581-007	2,3,7,8-Tetrachlorodibenzo-p-furan	6	ng/kg	C	DNR	11
E1000581	SJSH035-CR1A-1	E1000581-008	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.609	ng/kg	JK	U	22
E1000581	SJSH035-CR1A-1	E1000581-008	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.577	ng/kg	JK	U	22
E1000581	SJSH035-CR1A-1	E1000581-008	2,3,7,8-Tetrachlorodibenzo-p-furan	27.4	ng/kg	C	DNR	11
E1000581	SJSH035-CR1A-1	E1000581-008	Octachlorodibenzo-p-furan	2.82	ng/kg	JK	U	22
E1000581	SJSH035-CR1A-2	E1000581-009	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.252	ng/kg	JK	U	22
E1000581	SJSH035-CR1A-2	E1000581-009	2,3,7,8-Tetrachlorodibenzo-p-furan	46.5	ng/kg	C	DNR	11
E1000581	SJSH035-CR1B-1	E1000581-010	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.407	ng/kg	JK	U	22
E1000581	SJSH035-CR1B-1	E1000581-010	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.112	ng/kg	JK	U	22
E1000581	SJSH035-CR1B-1	E1000581-010	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.465	ng/kg	JK	U	22
E1000581	SJSH035-CR1B-1	E1000581-010	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0679	ng/kg	JK	U	22
E1000581	SJSH035-CR1B-1	E1000581-010	2,3,7,8-Tetrachlorodibenzo-p-furan	26.3	ng/kg	C	DNR	11
E1000581	SJSH035-CR1B-2	E1000581-011	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.118	ng/kg	JK	U	22
E1000581	SJSH035-CR1B-2	E1000581-011	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.207	ng/kg	JK	U	22
E1000581	SJSH035-CR1B-2	E1000581-011	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0803	ng/kg	JK	U	22
E1000581	SJSH035-CR1B-2	E1000581-011	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.514	ng/kg	JK	U	22
E1000581	SJSH035-CR1B-2	E1000581-011	2,3,7,8-Tetrachlorodibenzo-p-furan	33	ng/kg	C	DNR	11
E1000581	SDFW-907C	E1000581-012	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.786	pg	BJ	U	7
E1000581	SDFW-907C	E1000581-012	Octachlorodibenzo-p-dioxin	3.02	pg	BJ	U	7
E1000581	SDFW-907C	E1000581-012	Octachlorodibenzo-p-furan	1.52	pg	BJ	U	7
E1000581	SDFW-908C	E1000581-013	Octachlorodibenzo-p-dioxin	3.46	pg	BJ	U	7
E1000581	SDFW-909C	E1000581-014	Octachlorodibenzo-p-dioxin	2.4	pg	BJ	U	7
E1000581	SDFW-910C	E1000581-015	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.833	pg	BJ	U	7
E1000581	SDFW-910C	E1000581-015	Octachlorodibenzo-p-dioxin	2.46	pg	BJ	U	7
E1000581	SDFW-910C	E1000581-015	Octachlorodibenzo-p-furan	1.6	pg	BJK	U	22
E1000605	SJSH008-CR1A	E1000605-001	2,3,7,8-Tetrachlorodibenzo-p-furan	30.8	ng/kg	C	DNR	11
E1000605	SJSH009-CR1A	E1000605-002	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.213	ng/kg	JK	U	22
E1000605	SJSH009-CR1A	E1000605-002	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.182	ng/kg	JK	U	22
E1000605	SJSH009-CR1A	E1000605-002	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0819	ng/kg	JK	U	22
E1000605	SJSH009-CR1A	E1000605-002	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.597	ng/kg	JK	U	22
E1000605	SJSH009-CR1A	E1000605-002	2,3,7,8-Tetrachlorodibenzo-p-furan	39	ng/kg	C	DNR	11
E1000605	SJSH010-CR1A	E1000605-003	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.129	ng/kg	JK	U	22
E1000605	SJSH010-CR1A	E1000605-003	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.343	ng/kg	JK	U	22
E1000605	SJSH010-CR1A	E1000605-003	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.118	ng/kg	JK	U	22
E1000605	SJSH010-CR1A	E1000605-003	2,3,7,8-Tetrachlorodibenzo-p-furan	53.9	ng/kg	C	DNR	11

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000500	SJGB014 S3	E1000500-002	2,3,3',4,4',5,5'-Heptachlorobiphenyl	5.21	ng/kg	JK	U	22
E1000500	SJGB014 S3	E1000500-002	3,3',4,4',5-Pentachlorobiphenyl	0.934	ng/kg	JK	U	22
E1000500	SJGB014 S6	E1000500-004	2,3',4,4',5,5'-Hexachlorobiphenyl	0.968	ng/kg	JK	U	22
E1000500	SJGB014 S6	E1000500-004	2,3',4,4',5-Pentachlorobiphenyl	14.3	ng/kg	BJ	U	7
E1000500	SJGB014 S6	E1000500-004	Coelution of PCB 156 and 157	2.48	ng/kg	JK	U	22
E1000500	SJGB016 S1	E1000500-005	2,3,3',4,4',5,5'-Heptachlorobiphenyl	389	ng/kg	J	DNR	11
E1000500	SJGB016 S1	E1000500-005	2,3,3',4,4'-Pentachlorobiphenyl	8150	ng/kg	B	DNR	11
E1000500	SJGB016 S1	E1000500-005	2,3',4,4',5,5'-Hexachlorobiphenyl	1410	ng/kg	J	DNR	11
E1000500	SJGB016 S1	E1000500-005	2,3',4,4',5'-Pentachlorobiphenyl	228	ng/kg	J	DNR	11
E1000500	SJGB016 S1	E1000500-005	2,3',4,4',5-Pentachlorobiphenyl	29100	ng/kg	B	DNR	20
E1000500	SJGB016 S1	E1000500-005	2,3,4,4',5-Pentachlorobiphenyl	395	ng/kg	JK	DNR	11
E1000500	SJGB016 S1	E1000500-005	3,3',4,4',5,5'-Hexachlorobiphenyl	70.3	ng/kg	U	DNR	11
E1000500	SJGB016 S1	E1000500-005	3,3',4,4',5,5'-Hexachlorobiphenyl	32.9	ng/kg	JK	U	22
E1000500	SJGB016 S1	E1000500-005	3,3',4,4',5-Pentachlorobiphenyl	121	ng/kg	U	DNR	11
E1000500	SJGB016 S1	E1000500-005	3,3',4,4',5-Pentachlorobiphenyl	29.3	ng/kg	JK	U	22
E1000500	SJGB016 S1	E1000500-005	3,3',4,4'-Tetrachlorobiphenyl	154	ng/kg	J	DNR	11
E1000500	SJGB016 S1	E1000500-005	3,4,4',5-Tetrachlorobiphenyl	18	ng/kg	U	DNR	11
E1000500	SJGB016 S1	E1000500-005	Coelution of PCB 156 and 157	4670	ng/kg	J	DNR	11
E1000500	SJGB016 S2	E1000500-006	2,3',4,4',5,5'-Hexachlorobiphenyl	8.24	ng/kg	JK	U	22
E1000500	SJGB016 S2	E1000500-006	3,3',4,4'-Tetrachlorobiphenyl	3.69	ng/kg	JK	U	22
E1000500	SJGB016 S4	E1000500-007	2,3',4,4',5-Pentachlorobiphenyl	16.3	ng/kg	BJK	U	22
E1000500	SJGB016 S5	E1000500-008	2,3',4,4',5,5'-Hexachlorobiphenyl	1.57	ng/kg	JK	U	22
E1000500	SJGB016 S5	E1000500-008	2,3',4,4',5-Pentachlorobiphenyl	42.9	ng/kg	BJ	U	7
E1000500	SJGB015 S1	E1000500-009	2,3',4,4',5-Pentachlorobiphenyl	23.6	ng/kg	BJ	U	7
E1000500	SJGB015 S1	E1000500-009	3,3',4,4'-Tetrachlorobiphenyl	2.04	ng/kg	JK	U	22
E1000500	SJGB015 S2	E1000500-010	2,3,3',4,4'-Pentachlorobiphenyl	1.5	ng/kg	BJK	U	22
E1000500	SJGB015 S2	E1000500-010	2,3',4,4',5-Pentachlorobiphenyl	7.93	ng/kg	BJ	U	7
E1000500	SJGB015 S2	E1000500-010	Coelution of PCB 156 and 157	0.992	ng/kg	JK	U	22
E1000500	SJGB015 S3	E1000500-011	2,3',4,4',5-Pentachlorobiphenyl	6.02	ng/kg	BJK	U	22
E1000500	SJGB015 S4	E1000500-012	2,3,3',4,4'-Pentachlorobiphenyl	2.09	ng/kg	BJK	U	22
E1000500	SJGB015 S4	E1000500-012	2,3',4,4',5-Pentachlorobiphenyl	7.49	ng/kg	BJ	U	7
E1000514	SJGB017 S1	E1000514-001	2,3',4,4',5-Pentachlorobiphenyl	27.1	ng/kg	BJ	U	7
E1000514	SJGB017 S1	E1000514-001	Coelution of PCB 156 and 157	5.36	ng/kg	JK	U	22
E1000514	SJGB017 S2	E1000514-002	2,3,3',4,4'-Pentachlorobiphenyl	5.65	ng/kg	BJK	U	22
E1000514	SJGB017 S2	E1000514-002	2,3',4,4',5-Pentachlorobiphenyl	16.9	ng/kg	BJ	U	7
E1000514	SJGB017 S2	E1000514-002	Coelution of PCB 156 and 157	2.11	ng/kg	JK	U	22
E1000514	SJGB017 S3	E1000514-003	2,3',4,4',5-Pentachlorobiphenyl	5.54	ng/kg	BJ	U	7
E1000514	SJGB017 S4	E1000514-004	2,3',4,4',5-Pentachlorobiphenyl	5.81	ng/kg	BJ	U	7
E1000514	SJGB013 S1	E1000514-005	2,3,3',4,4',5,5'-Heptachlorobiphenyl	163	ng/kg	JK	DNR	11
E1000514	SJGB013 S1	E1000514-005	2,3,3',4,4'-Pentachlorobiphenyl	8380	ng/kg	B	DNR	20
E1000514	SJGB013 S1	E1000514-005	2,3',4,4',5,5'-Hexachlorobiphenyl	1050	ng/kg	J	DNR	11
E1000514	SJGB013 S1	E1000514-005	2,3',4,4',5'-Pentachlorobiphenyl	229	ng/kg	U	DNR	11
E1000514	SJGB013 S1	E1000514-005	2,3',4,4',5-Pentachlorobiphenyl	21100	ng/kg	B	DNR	20
E1000514	SJGB013 S1	E1000514-005	2,3,4,4',5-Pentachlorobiphenyl	264	ng/kg	JK	DNR	11
E1000514	SJGB013 S1	E1000514-005	3,3',4,4',5,5'-Hexachlorobiphenyl	41.2	ng/kg	U	DNR	11
E1000514	SJGB013 S1	E1000514-005	3,3',4,4',5-Pentachlorobiphenyl	199	ng/kg	U	DNR	11
E1000514	SJGB013 S1	E1000514-005	3,3',4,4',5-Pentachlorobiphenyl	22.4	ng/kg	JK	U	22
E1000514	SJGB013 S1	E1000514-005	3,3',4,4'-Tetrachlorobiphenyl	113	ng/kg	J	DNR	11
E1000514	SJGB013 S1	E1000514-005	3,4,4',5-Tetrachlorobiphenyl	23.8	ng/kg	U	DNR	11

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000514	SJGB013 S1	E1000514-005	Coelution of PCB 156 and 157	3180	ng/kg	J	DNR	11
E1000514	SJGB013 S2	E1000514-006	2,3,3',4,4',5,5'-Heptachlorobiphenyl	83.1	ng/kg	U	DNR	11
E1000514	SJGB013 S2	E1000514-006	2,3,3',4,4'-Pentachlorobiphenyl	3340	ng/kg	B	DNR	11
E1000514	SJGB013 S2	E1000514-006	2,3',4,4',5,5'-Hexachlorobiphenyl	765	ng/kg	J	DNR	11
E1000514	SJGB013 S2	E1000514-006	2,3',4,4',5'-Pentachlorobiphenyl	132	ng/kg	U	DNR	11
E1000514	SJGB013 S2	E1000514-006	2,3',4,4',5-Pentachlorobiphenyl	12300	ng/kg	B	DNR	20
E1000514	SJGB013 S2	E1000514-006	2,3,4,4',5-Pentachlorobiphenyl	129	ng/kg	U	DNR	11
E1000514	SJGB013 S2	E1000514-006	3,3',4,4',5,5'-Hexachlorobiphenyl	126	ng/kg	U	DNR	11
E1000514	SJGB013 S2	E1000514-006	3,3',4,4',5-Pentachlorobiphenyl	106	ng/kg	U	DNR	11
E1000514	SJGB013 S2	E1000514-006	3,3',4,4'-Tetrachlorobiphenyl	54.9	ng/kg	U	DNR	11
E1000514	SJGB013 S2	E1000514-006	3,4,4',5-Tetrachlorobiphenyl	55.1	ng/kg	U	DNR	11
E1000514	SJGB013 S2	E1000514-006	3,4,4',5-Tetrachlorobiphenyl	6.41	ng/kg	JK	U	22
E1000514	SJGB013 S2	E1000514-006	Coelution of PCB 156 and 157	2220	ng/kg		DNR	11
E1000514	SJGB013 S3	E1000514-007	2,3,3',4,4',5,5'-Heptachlorobiphenyl	14	ng/kg	JK	U	22
E1000514	SJGB013 S5	E1000514-008	2,3',4,4',5,5'-Hexachlorobiphenyl	6.87	ng/kg	JK	U	22
E1000515	SJNE012-GR1	E1000515-011	2,3,3',4,4',5,5'-Heptachlorobiphenyl	1.63	ng/kg	JK	U	22
E1000515	SJNE012-GR1	E1000515-011	2,3,4,4',5-Pentachlorobiphenyl	2.26	ng/kg	JK	U	22
E1000515	SJNE012-GR1	E1000515-011	Coelution of PCB 156 and 157	13.6	ng/kg	BJK	U	22
E1000516	SJNE007-GR1	E1000516-016	2,3,3',4,4',5,5'-Heptachlorobiphenyl	8.33	ng/kg	JK	U	22
E1000516	SJNE007-GR1	E1000516-016	2,3',4,4',5'-Pentachlorobiphenyl	17.1	ng/kg	JK	U	22
E1000516	SJNE007-GR1	E1000516-016	3,3',4,4'-Tetrachlorobiphenyl	32.8	ng/kg	JK	U	22
E1000516	SDFW-901S	E1000516-019	2,3,3',4,4'-Pentachlorobiphenyl	24.5	pg	JK	U	22
E1000516	SDFW-901S	E1000516-019	2,3',4,4',5-Pentachlorobiphenyl	99.8	pg	BJ	U	7
E1000524	SJNE060-GR1	E1000524-005	2,3',4,4',5,5'-Hexachlorobiphenyl	10.1	ng/kg	JK	U	22
E1000524	SJNE060-GR1	E1000524-005	2,3',4,4',5'-Pentachlorobiphenyl	4.68	ng/kg	JK	U	22
E1000524	SJNE061-GR1	E1000524-006	2,3',4,4',5,5'-Hexachlorobiphenyl	4.54	ng/kg	JK	U	22
E1000524	SJNE061-GR1	E1000524-006	Coelution of PCB 156 and 157	7.22	ng/kg	BJ	U	7
E1000524	SJNE062-GR1-1	E1000524-007	2,3,3',4,4'-Pentachlorobiphenyl	12.8	ng/kg	BJ	U	7
E1000524	SJNE062-GR1-1	E1000524-007	2,3',4,4',5-Pentachlorobiphenyl	35.8	ng/kg	BJ	U	7
E1000524	SJNE062-GR1-1	E1000524-007	3,3',4,4'-Tetrachlorobiphenyl	3.15	ng/kg	JK	U	22
E1000524	SJNE062-GR1-1	E1000524-007	Coelution of PCB 156 and 157	2.63	ng/kg	BJK	U	22
E1000524	SJNE062-GR1-2	E1000524-008	2,3,3',4,4'-Pentachlorobiphenyl	15.3	ng/kg	BJ	U	7
E1000524	SJNE062-GR1-2	E1000524-008	2,3',4,4',5-Pentachlorobiphenyl	37	ng/kg	BJ	U	7
E1000524	SJNE062-GR1-2	E1000524-008	Coelution of PCB 156 and 157	2.4	ng/kg	BJK	U	22
E1000524	SJNE063-GR1	E1000524-011	2,3',4,4',5'-Pentachlorobiphenyl	3.58	ng/kg	JK	U	22
E1000524	SJNE068-GR1	E1000524-012	2,3',4,4',5'-Pentachlorobiphenyl	1.75	ng/kg	JK	U	22
E1000524	SJNE068-GR1	E1000524-012	2,3,4,4',5-Pentachlorobiphenyl	3.05	ng/kg	JK	U	22
E1000524	SJNE068-GR1	E1000524-012	3,3',4,4'-Tetrachlorobiphenyl	12.5	ng/kg	JK	U	22
E1000532	SJNE043-GR1	E1000532-004	2,3,3',4,4'-Pentachlorobiphenyl	13.5	ng/kg	JK	U	22
E1000532	SJNE043-GR1	E1000532-004	2,3',4,4',5-Pentachlorobiphenyl	37.8	ng/kg	BJK	U	22
E1000532	SJNE041-GR1	E1000532-007	2,3',4,4',5,5'-Hexachlorobiphenyl	17.1	ng/kg	JK	U	22
E1000532	SJNE041-GR1	E1000532-007	3,3',4,4'-Tetrachlorobiphenyl	12.5	ng/kg	JK	U	22
E1000532	SJNE033-GR1	E1000532-011	2,3',4,4',5,5'-Hexachlorobiphenyl	12.2	ng/kg	JK	U	22
E1000532	SJNE033-GR1	E1000532-011	3,3',4,4'-Tetrachlorobiphenyl	33.8	ng/kg	JK	U	22
E1000532	SJNE035-GR1	E1000532-013	2,3,3',4,4'-Pentachlorobiphenyl	28.6	ng/kg	JK	U	22
E1000532	SJNE035-GR1	E1000532-013	Coelution of PCB 156 and 157	9.17	ng/kg	JK	U	22
E1000532	SJNE030-GR1	E1000532-015	2,3,3',4,4'-Pentachlorobiphenyl	13	ng/kg	JK	U	22
E1000532	SJNE028-GR1	E1000532-016	2,3',4,4',5-Pentachlorobiphenyl	54.8	ng/kg	BJK	U	22
E1000532	SJNE023-GR1	E1000532-020	3,3',4,4'-Tetrachlorobiphenyl	7.38	ng/kg	JK	U	22

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000533	SDFW-903S	E1000533-001	2,3',4,4',5-Pentachlorobiphenyl	96.4	pg	BJ	U	7
E1000543	SJNE022-GR1	E1000543-008	3,3',4,4',5-Pentachlorobiphenyl	10.9	ng/kg	J	J	13
E1000543	SJNE022-GR1	E1000543-008	3,3',4,4'-Tetrachlorobiphenyl	94.5	ng/kg	JK	U	22
E1000543	SJNE022-GR3	E1000543-009	3,3',4,4',5,5'-Hexachlorobiphenyl	16.3	ng/kg	JK	U	22
E1000543	SJNE022-GR2	E1000543-010	3,3',4,4',5,5'-Hexachlorobiphenyl	6.76	ng/kg	JK	U	22
E1000543	SJNE022-GR2	E1000543-010	3,3',4,4',5-Pentachlorobiphenyl	15.6	ng/kg	JK	U	22
E1000547	SJNE029-GR1	E1000547-006	2,3',4,4',5,5'-Hexachlorobiphenyl	4.8	ng/kg	JK	U	22
E1000547	SJNE029-GR1	E1000547-006	2,3,4,4',5-Pentachlorobiphenyl	2.07	ng/kg	JK	U	22
E1000567	SDFW-902C	E1000567-016	2,3',4,4',5-Pentachlorobiphenyl	123	pg	BJ	U	7
E1000567	SDFW-904C	E1000567-017	2,3',4,4',5-Pentachlorobiphenyl	125	pg	BJ	U	7
E1000569	SJGB013 S4	E1000569-001	3,3',4,4'-Tetrachlorobiphenyl	4.65	ng/kg	JK	U	22
E1000569	SJGB014 S1	E1000569-002	2,3,3',4,4',5,5'-Heptachlorobiphenyl	1600	ng/kg	J	DNR	11
E1000569	SJGB014 S1	E1000569-002	2,3,3',4,4'-Pentachlorobiphenyl	136000	ng/kg	BE	DNR	20
E1000569	SJGB014 S1	E1000569-002	2,3',4,4',5,5'-Hexachlorobiphenyl	13000	ng/kg		DNR	11
E1000569	SJGB014 S1	E1000569-002	2,3',4,4',5'-Pentachlorobiphenyl	2590	ng/kg	JK	DNR	11
E1000569	SJGB014 S1	E1000569-002	2,3',4,4',5-Pentachlorobiphenyl	335000	ng/kg	BE	DNR	20
E1000569	SJGB014 S1	E1000569-002	2,3,4,4',5-Pentachlorobiphenyl	4170	ng/kg	J	DNR	11
E1000569	SJGB014 S1	E1000569-002	3,3',4,4',5,5'-Hexachlorobiphenyl	140	ng/kg	U	DNR	11
E1000569	SJGB014 S1	E1000569-002	3,3',4,4',5-Pentachlorobiphenyl	692	ng/kg	U	DNR	11
E1000569	SJGB014 S1	E1000569-002	3,3',4,4'-Tetrachlorobiphenyl	1280	ng/kg	J	DNR	11
E1000569	SJGB014 S1	E1000569-002	3,4,4',5-Tetrachlorobiphenyl	77.3	ng/kg	U	DNR	11
E1000569	SJGB014 S1	E1000569-002	Coelution of PCB 156 and 157	40300	ng/kg		DNR	11
E1000569	SJGB014 S5	E1000569-003	2,3,3',4,4'-Pentachlorobiphenyl	42.8	ng/kg	BJK	U	22
E1000569	SJGB014 S5	E1000569-003	2,3',4,4',5-Pentachlorobiphenyl	158	ng/kg	BJ	U	7
E1000569	SJGB014 S5	E1000569-003	Coelution of PCB 156 and 157	22.3	ng/kg	JK	U	22
E1000569	SJGB015 S5	E1000569-004	2,3,3',4,4'-Pentachlorobiphenyl	8.18	ng/kg	BJK	U	22
E1000569	SJGB015 S5	E1000569-004	2,3',4,4',5-Pentachlorobiphenyl	31.6	ng/kg	BJ	U	7
E1000569	SJGB016 S3	E1000569-005	2,3,3',4,4'-Pentachlorobiphenyl	9.22	ng/kg	BJ	U	7
E1000569	SJGB016 S3	E1000569-005	2,3',4,4',5-Pentachlorobiphenyl	33.5	ng/kg	BJ	U	7
E1000569	SJGB017 S5	E1000569-006	2,3,3',4,4'-Pentachlorobiphenyl	9.52	ng/kg	BJK	U	22
E1000569	SJGB017 S5	E1000569-006	2,3',4,4',5-Pentachlorobiphenyl	44.8	ng/kg	BJ	U	7
E1000569	SJNE050-GR1	E1000569-016	2,3,3',4,4'-Pentachlorobiphenyl	23.2	ng/kg	BJ	U	7
E1000569	SJNE050-GR1	E1000569-016	2,3',4,4',5-Pentachlorobiphenyl	72.4	ng/kg	BJ	U	7
E1000569	SJNE066-GR1	E1000569-017	2,3,3',4,4'-Pentachlorobiphenyl	25.2	ng/kg	BJK	U	22
E1000569	SJNE066-GR1	E1000569-017	2,3',4,4',5-Pentachlorobiphenyl	83.4	ng/kg	BJ	U	7
E1000569	SJNE066-GR1	E1000569-017	Coelution of PCB 156 and 157	15.5	ng/kg	JK	U	22
E1000570	SJNE067-GR1	E1000570-005	2,3,3',4,4'-Pentachlorobiphenyl	24.9	ng/kg	BJ	U	7
E1000570	SJNE067-GR1	E1000570-005	2,3',4,4',5,5'-Hexachlorobiphenyl	5.49	ng/kg	JK	U	22
E1000570	SJNE067-GR1	E1000570-005	2,3',4,4',5-Pentachlorobiphenyl	66.5	ng/kg	BJ	U	7
E1000570	SJNE069-GR1	E1000570-006	2,3,3',4,4'-Pentachlorobiphenyl	10.7	ng/kg	BJK	U	22
E1000570	SJNE069-GR1	E1000570-006	2,3',4,4',5-Pentachlorobiphenyl	33.4	ng/kg	BJK	U	22
E1000570	SJNE069-GR1	E1000570-006	Coelution of PCB 156 and 157	5.28	ng/kg	JK	UJ	13,22
E1000570	SJNE070-GR1	E1000570-007	2,3,3',4,4',5,5'-Heptachlorobiphenyl	8.06	ng/kg	U	UJ	13
E1000570	SJNE070-GR1	E1000570-007	2,3,3',4,4'-Pentachlorobiphenyl	27.2	ng/kg	BJK	UJ	13,22
E1000570	SJNE070-GR1	E1000570-007	2,3',4,4',5,5'-Hexachlorobiphenyl	6.5	ng/kg	U	UJ	13
E1000570	SJNE070-GR1	E1000570-007	2,3',4,4',5-Pentachlorobiphenyl	78.4	ng/kg	BJ	U	7
E1000570	SJNE070-GR1	E1000570-007	2,3,4,4',5-Pentachlorobiphenyl	8.69	ng/kg	U	UJ	13
E1000570	SJNE070-GR1	E1000570-007	3,3',4,4',5,5'-Hexachlorobiphenyl	8.36	ng/kg	U	UJ	13
E1000570	SJNE070-GR1	E1000570-007	Coelution of PCB 156 and 157	12.2	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
PCB Congeners

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
E1000570	SJWRP-001	E1000570-008	2,3,3',4,4',5,5'-Heptachlorobiphenyl	663	ng/kg	JK	DNR	11
E1000570	SJWRP-001	E1000570-008	2,3,3',4,4'-Pentachlorobiphenyl	17100	ng/kg	B	DNR	11
E1000570	SJWRP-001	E1000570-008	2,3',4,4',5,5'-Hexachlorobiphenyl	2460	ng/kg	J	DNR	11
E1000570	SJWRP-001	E1000570-008	2,3',4,4',5'-Pentachlorobiphenyl	728	ng/kg	J	DNR	11
E1000570	SJWRP-001	E1000570-008	2,3',4,4',5-Pentachlorobiphenyl	70300	ng/kg	BE	DNR	20
E1000570	SJWRP-001	E1000570-008	2,3,4,4',5-Pentachlorobiphenyl	949	ng/kg	J	DNR	11
E1000570	SJWRP-001	E1000570-008	3,3',4,4',5,5'-Hexachlorobiphenyl	53.7	ng/kg	U	DNR	11
E1000570	SJWRP-001	E1000570-008	3,3',4,4',5,5'-Hexachlorobiphenyl	217	ng/kg	JK	U	22
E1000570	SJWRP-001	E1000570-008	3,3',4,4',5-Pentachlorobiphenyl	316	ng/kg	U	DNR	11
E1000570	SJWRP-001	E1000570-008	3,3',4,4'-Tetrachlorobiphenyl	6260	ng/kg		DNR	11
E1000570	SJWRP-001	E1000570-008	3,3',4,4'-Tetrachlorobiphenyl	12200	ng/kg		J	13
E1000570	SJWRP-001	E1000570-008	3,4,4',5-Tetrachlorobiphenyl	366	ng/kg	JK	UJ	13,22
E1000570	SJWRP-001	E1000570-008	3,4,4',5-Tetrachlorobiphenyl	156	ng/kg	JK	DNR	11
E1000570	SJWRP-001	E1000570-008	Coelution of PCB 156 and 157	6820	ng/kg		DNR	11
E1000570	SDFW-920S	E1000570-010	2,3,3',4,4',5,5'-Heptachlorobiphenyl	105	pg	U	UJ	13
E1000570	SDFW-920S	E1000570-010	2,3',4,4',5,5'-Hexachlorobiphenyl	75.6	pg	U	UJ	13
E1000571	SDFW-911C	E1000571-009	2,3',4,4',5-Pentachlorobiphenyl	92.2	pg	BJ	U	7
E1000581	SDFW-907C	E1000581-012	2,3,3',4,4'-Pentachlorobiphenyl	24.7	pg	JK	U	22
E1000581	SDFW-907C	E1000581-012	2,3',4,4',5,5'-Hexachlorobiphenyl	6.16	pg	JK	U	22
E1000581	SDFW-907C	E1000581-012	2,3',4,4',5-Pentachlorobiphenyl	88.2	pg	BJ	U	7
E1000581	SDFW-907C	E1000581-012	3,3',4,4'-Tetrachlorobiphenyl	4.8	pg	JK	U	22
E1000581	SDFW-907C	E1000581-012	Coelution of PCB 156 and 157	15.6	pg	BJ	U	7
E1000581	SDFW-908C	E1000581-013	2,3',4,4',5-Pentachlorobiphenyl	69.6	pg	BJK	U	22
E1000581	SDFW-908C	E1000581-013	Coelution of PCB 156 and 157	14.2	pg	BJK	U	22
E1000581	SDFW-909C	E1000581-014	2,3',4,4',5-Pentachlorobiphenyl	103	pg	BJ	U	7
E1000581	SDFW-909C	E1000581-014	Coelution of PCB 156 and 157	22.5	pg	BJ	U	7
E1000581	SDFW-910C	E1000581-015	2,3',4,4',5-Pentachlorobiphenyl	83.7	pg	BJ	U	7
E1000581	SDFW-910C	E1000581-015	Coelution of PCB 156 and 157	18.3	pg	BJ	U	7

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Metals

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1004785	SJGB014 S2	K1004785-001	Thallium	3	mg/kg	U	UJ	17
K1004785	SJGB014 S2	K1004785-001DUP	Thallium	3	mg/kg	U	UJ	17
K1004785	SJGB014 S3	K1004785-002	Thallium	3	mg/kg	U	UJ	17
K1004785	SJGB014 S4	K1004785-003	Chromium	3.1	mg/kg		J	14
K1004785	SJGB014 S4	K1004785-003	Thallium	3	mg/kg	U	UJ	17
K1004785	SJGB014 S6	K1004785-004	Chromium	3.2	mg/kg		J	14
K1004785	SJGB014 S6	K1004785-004	Thallium	3	mg/kg	U	UJ	17
K1004785	SJGB016 S1	K1004785-005	Thallium	3	mg/kg	U	UJ	17
K1004785	SJGB016 S2	K1004785-006	Thallium	3	mg/kg	U	UJ	17
K1004785	SJGB016 S4	K1004785-007	Thallium	3	mg/kg	U	UJ	17
K1004785	SJGB016 S5	K1004785-008	Thallium	3	mg/kg	U	UJ	17
K1004785	SJGB015 S1	K1004785-009	Thallium	3	mg/kg	U	UJ	17
K1004785	SJGB015 S2	K1004785-010	Chromium	3.9	mg/kg		J	14
K1004785	SJGB015 S2	K1004785-010	Thallium	3	mg/kg	U	UJ	17
K1004785	SJGB015 S3	K1004785-011	Thallium	3	mg/kg	U	UJ	17
K1004785	SJGB015 S4	K1004785-012	Thallium	3	mg/kg	U	UJ	17
K1004825	SJNE008-GR1	K1004825-001	Thallium	3	mg/kg	U	UJ	17
K1004825	SJNE008-GR1	K1004825-001DUP	Thallium	3	mg/kg	U	UJ	17
K1004825	SJNE009-GR1	K1004825-002	Thallium	3	mg/kg	U	UJ	17
K1004825	SJNE009-GR1	K1004825-002	Vanadium	1.9	mg/kg	J	J	7
K1004825	SJNE010-GR1	K1004825-003	Cadmium	1.4	mg/kg		J	17
K1004825	SJNE010-GR1	K1004825-003	Thallium	4	mg/kg	U	UJ	17
K1004825	SJNE011-GR1	K1004825-004	Cadmium	0.9	mg/kg	J	J	17
K1004825	SJNE011-GR1	K1004825-004	Thallium	3	mg/kg	U	UJ	17
K1004825	SJNE012-GR1	K1004825-005	Thallium	3	mg/kg	U	UJ	17
K1004825	SJNE012-GR1	K1004825-005	Vanadium	2.7	mg/kg		J	7
K1004825	SJNE014-GR1	K1004825-006	Cadmium	1.3	mg/kg		J	17
K1004825	SJNE014-GR1	K1004825-006	Thallium	3	mg/kg	U	UJ	17
K1004825	SJNE017-GR1	K1004825-007	Cadmium	1	mg/kg	J	J	17
K1004825	SJNE017-GR1	K1004825-007	Thallium	3	mg/kg	U	UJ	17
K1004825	SJNE020-GR1-1	K1004825-008	Cadmium	0.8	mg/kg	J	J	17
K1004825	SJNE020-GR1-1	K1004825-008	Thallium	3	mg/kg	U	UJ	17
K1004825	SJNE020-GR1-2	K1004825-009	Cadmium	0.6	mg/kg	J	J	17
K1004825	SJNE020-GR1-2	K1004825-009	Thallium	3	mg/kg	U	UJ	17
K1004825	SJNE021-GR1	K1004825-010	Cadmium	0.7	mg/kg	J	J	17
K1004825	SJNE021-GR1	K1004825-010	Thallium	3	mg/kg	U	UJ	17
K1004825	SJNE015-GR1	K1004825-011	Thallium	3	mg/kg	U	UJ	17
K1004830	SJGB017 S1	K1004830-001	Thallium	3	mg/kg	U	UJ	17
K1004830	SJGB017 S2	K1004830-002	Thallium	3	mg/kg	U	UJ	17
K1004830	SJGB017 S3	K1004830-003	Thallium	3	mg/kg	U	UJ	17
K1004830	SJGB017 S4	K1004830-004	Thallium	3	mg/kg	U	UJ	17
K1004830	SJGB013 S1	K1004830-005	Thallium	3	mg/kg	U	UJ	7,17
K1004830	SJGB013 S2	K1004830-006	Thallium	4	mg/kg	U	UJ	7,17
K1004830	SJGB013 S3	K1004830-007	Thallium	3	mg/kg	U	UJ	7,17
K1004830	SJGB013 S5	K1004830-008	Copper	1.7	mg/kg	J	U	7
K1004830	SJGB013 S5	K1004830-008	Thallium	4	mg/kg	U	UJ	7,17
K1004830	SJGB013 S5	K1004830-008	Vanadium	2.8	mg/kg		J	14
K1004878	SJNE052-GR1	K1004878-001	Thallium	2.8	mg/kg	U	UJ	17

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Metals

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1004878	SJNE052-GR1	K1004878-001DUP	Thallium	3	mg/kg	U	UJ	17
K1004878	SJNE057-GR1	K1004878-002	Thallium	3.3	mg/kg	U	UJ	17
K1004878	SJNE057-GR1	K1004878-002	Vanadium	2.3	mg/kg		J	7,14
K1004878	SJNE058-GR1	K1004878-003	Cadmium	1	mg/kg	J	J	17
K1004878	SJNE058-GR1	K1004878-003	Thallium	3.5	mg/kg	U	UJ	17
K1004878	SJNE059-GR1	K1004878-004	Cadmium	0.8	mg/kg	J	J	17
K1004878	SJNE059-GR1	K1004878-004	Thallium	2.9	mg/kg	U	UJ	17
K1004878	SJNE056-GR1	K1004878-005	Chromium	1.16	mg/kg		J	16
K1004878	SJNE056-GR1	K1004878-005	Mercury	0.008	mg/kg	J	U	7
K1004878	SJNE056-GR1	K1004878-005	Thallium	3.2	mg/kg	U	UJ	17
K1004878	SJNE056-GR1	K1004878-005	Vanadium	0.9	mg/kg	J	J	7,14
K1004878	SJNE055-GR1	K1004878-006	Cadmium	0.7	mg/kg	J	J	17
K1004878	SJNE055-GR1	K1004878-006	Thallium	3.1	mg/kg	U	UJ	17
K1004878	SJNE046-GR1	K1004878-007	Cadmium	0.7	mg/kg	J	J	17
K1004878	SJNE046-GR1	K1004878-007	Thallium	3.4	mg/kg	U	UJ	17
K1004878	SJNE037-GR1	K1004878-008	Cadmium	0.8	mg/kg	J	J	17
K1004878	SJNE037-GR1	K1004878-008	Thallium	2.8	mg/kg	U	UJ	17
K1004878	SJNE031-GR1	K1004878-009	Thallium	3.3	mg/kg	U	UJ	17
K1004878	SJNE031-GR1	K1004878-009	Vanadium	5.4	mg/kg		J	7
K1004878	SJNE025-GR1	K1004878-010	Cadmium	0.9	mg/kg	J	J	17
K1004878	SJNE025-GR1	K1004878-010	Thallium	3.4	mg/kg	U	UJ	17
K1004878	SJNE019-GR1	K1004878-011	Thallium	4	mg/kg	U	UJ	17
K1004878	SJNE019-GR1	K1004878-011	Vanadium	5.6	mg/kg		J	7
K1004878	SJNE018-GR1	K1004878-012	Thallium	3.2	mg/kg	U	UJ	17
K1004878	SJNE018-GR1	K1004878-012	Vanadium	5.8	mg/kg		J	7
K1004878	SJNE016-GR1	K1004878-013	Thallium	2.8	mg/kg	U	UJ	17
K1004878	SJNE016-GR1	K1004878-013	Vanadium	7.4	mg/kg		J	7
K1004878	SJNE013-GR1	K1004878-014	Copper	2.7	mg/kg		U	7
K1004878	SJNE013-GR1	K1004878-014	Thallium	3.3	mg/kg	U	UJ	17
K1004878	SJNE013-GR1	K1004878-014	Vanadium	5.6	mg/kg		J	7
K1004878	SJNE006-GR1	K1004878-015	Cadmium	0.8	mg/kg	J	J	17
K1004878	SJNE006-GR1	K1004878-015	Thallium	2.8	mg/kg	U	UJ	17
K1004878	SJNE007-GR1	K1004878-016	Thallium	3.5	mg/kg	U	UJ	17
K1004878	SJNE007-GR1	K1004878-016	Vanadium	7.7	mg/kg		J	7
K1004878	SJNE002-GR1	K1004878-017	Chromium	0.73	mg/kg		J	16
K1004878	SJNE002-GR1	K1004878-017	Mercury	0.004	mg/kg	J	U	7
K1004878	SJNE002-GR1	K1004878-017	Thallium	3.5	mg/kg	U	UJ	17
K1004878	SJNE002-GR1	K1004878-017	Vanadium	0.5	mg/kg	U	UJ	7,14
K1004878	SJNE003-GR1	K1004878-018	Copper	3.5	mg/kg		U	7
K1004878	SJNE003-GR1	K1004878-018	Thallium	3.5	mg/kg	U	UJ	17
K1004878	SJNE003-GR1	K1004878-018	Vanadium	2.3	mg/kg	J	J	7,14
K1004878	SDFW-901S	K1004878-019	Barium	0.6	ug	J	U	7
K1004878	SDFW-901S	K1004878-019	Chromium	1.25	ug		U	6
K1004878	SDFW-901S	K1004878-019	Magnesium	163	ug		U	6
K1004878	SDFW-901S	K1004878-019	Manganese	0.52	ug	J	U	7
K1004878	SDFW-901S	K1004878-019	Zinc	2.4	ug		U	6
K1005012	SJNE051-GR1	K1005012-001	Cadmium	0.4	mg/kg	J	J	7
K1005012	SJNE051-GR1	K1005012-001DUP	Cadmium	0.4	mg/kg	J	J	7

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Metals

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005012	SJNE045-GR1	K1005012-002	Cadmium	0.2	mg/kg	U	UJ	7
K1005012	SJNE045-GR1	K1005012-002	Copper	2.5	mg/kg		J	7,14
K1005012	SJNE044-GR1	K1005012-003	Cadmium	0.6	mg/kg	J	J	7,17
K1005012	SJNE043-GR1	K1005012-004	Cadmium	0.2	mg/kg	U	UJ	7
K1005012	SJNE043-GR1	K1005012-004	Cobalt	1.1	mg/kg	J	U	7
K1005012	SJNE043-GR1	K1005012-004	Copper	1.8	mg/kg	J	J	7,14
K1005012	SJNE042-GR1-1	K1005012-005	Cadmium	0.6	mg/kg	J	J	7,17
K1005012	SJNE042-GR1-2	K1005012-006	Cadmium	0.4	mg/kg	J	J	7,17
K1005012	SJNE041-GR1	K1005012-007	Cadmium	0.7	mg/kg	J	J	7,17
K1005012	SJNE040-GR1	K1005012-008	Cadmium	0.6	mg/kg	J	J	7,17
K1005012	SJNE039-GR1	K1005012-009	Cadmium	0.8	mg/kg	J	J	7,17
K1005012	SJNE032-GR1	K1005012-010	Cadmium	0.2	mg/kg	J	J	7
K1005012	SDFW-903S	K1005012-011	Arsenic	0.16	ug	J	U	7
K1005012	SDFW-903S	K1005012-011	Barium	0.5	ug	J	U	7
K1005012	SDFW-903S	K1005012-011	Chromium	2.4	ug		U	6
K1005012	SDFW-903S	K1005012-011	Magnesium	274	ug		UJ	6,16
K1005012	SDFW-903S	K1005012-011	Manganese	0.41	ug	J	U	7
K1005012	SDFW-903S	K1005012-011	Mercury	0.008	ug	U	UJ	7
K1005012	SDFW-903S	K1005012-011	Zinc	2.7	ug		U	6
K1005012	SJNE033-GR1	K1005012-013	Cadmium	0.4	mg/kg	J	J	7
K1005012	SJNE034-GR1	K1005012-014	Cadmium	0.3	mg/kg	J	J	7
K1005012	SJNE034-GR1	K1005012-014	Copper	2.8	mg/kg		J	7,14
K1005012	SJNE035-GR1	K1005012-015	Cadmium	0.2	mg/kg	U	UJ	7
K1005012	SJNE036-GR1	K1005012-016	Cadmium	0.2	mg/kg	U	UJ	7
K1005012	SJNE036-GR1	K1005012-016	Copper	0.8	mg/kg	J	J	7,14
K1005012	SJNE030-GR1	K1005012-017	Cadmium	0.2	mg/kg	U	UJ	7
K1005012	SJNE030-GR1	K1005012-017	Copper	2.3	mg/kg	J	J	7,14
K1005012	SJNE028-GR1	K1005012-018	Cadmium	0.2	mg/kg	U	UJ	7
K1005012	SJNE027-GR1	K1005012-019	Cadmium	0.2	mg/kg	U	UJ	7
K1005012	SJNE027-GR1	K1005012-019	Copper	4.3	mg/kg		J	14
K1005012	SJNE026-GR1	K1005012-020	Cadmium	0.2	mg/kg	J	J	7
K1005012	SJNE026-GR1	K1005012-020	Copper	3.5	mg/kg		J	14
K1005012	SJNE024-GR1	K1005012-021	Cadmium	0.2	mg/kg	U	UJ	7
K1005012	SJNE024-GR1	K1005012-021	Cobalt	1.6	mg/kg	J	U	7
K1005012	SJNE024-GR1	K1005012-021	Copper	2.6	mg/kg		J	14
K1005012	SJNE023-GR1	K1005012-022	Cadmium	0.4	mg/kg	J	J	7
K1005028	SJNE038-GR1	K1005028-001	Aluminum	10700	mg/kg	N	J	8
K1005028	SJNE038-GR1	K1005028-001	Arsenic	3.71	mg/kg		J	16
K1005028	SJNE038-GR1	K1005028-001	Cadmium	0.8	mg/kg	J	J	7,17
K1005028	SJNE038-GR1	K1005028-001	Manganese	268	mg/kg	*	J	9
K1005028	SJNE060-GR1	K1005028-002	Aluminum	4770	mg/kg	N	J	8
K1005028	SJNE060-GR1	K1005028-002	Arsenic	2.18	mg/kg		J	16
K1005028	SJNE060-GR1	K1005028-002	Cadmium	0.4	mg/kg	J	J	7
K1005028	SJNE060-GR1	K1005028-002	Manganese	153	mg/kg	*	J	9
K1005028	SJNE061-GR1	K1005028-003	Aluminum	4180	mg/kg	N	J	8
K1005028	SJNE061-GR1	K1005028-003	Arsenic	1.61	mg/kg		J	16
K1005028	SJNE061-GR1	K1005028-003	Cadmium	0.2	mg/kg	U	UJ	7
K1005028	SJNE061-GR1	K1005028-003	Manganese	88.5	mg/kg	*	J	9

Qualified Data Summary Table
San Jacinto Waste Pits - Sediment
Metals

SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005028	SJNE062-GR1-1	K1005028-004	Aluminum	919	mg/kg	N	J	8
K1005028	SJNE062-GR1-1	K1005028-004	Arsenic	0.51	mg/kg		J	16
K1005028	SJNE062-GR1-1	K1005028-004	Cadmium	0.2	mg/kg	U	UJ	7
K1005028	SJNE062-GR1-1	K1005028-004	Copper	0.7	mg/kg	U	UJ	14
K1005028	SJNE062-GR1-1	K1005028-004	Manganese	83.9	mg/kg	*	J	9
K1005028	SJNE062-GR1-1	K1005028-004	Mercury	0.007	mg/kg	J	U	7
K1005028	SJNE062-GR1-1	K1005028-004DUP	Aluminum	990	mg/kg		J	8
K1005028	SJNE062-GR1-1	K1005028-004DUP	Arsenic	0.53	mg/kg		J	16
K1005028	SJNE062-GR1-1	K1005028-004DUP	Cadmium	0.3	mg/kg	U	UJ	7
K1005028	SJNE062-GR1-1	K1005028-004DUP	Copper	1.4	mg/kg	J	J	14
K1005028	SJNE062-GR1-1	K1005028-004DUP	Manganese	311	mg/kg		J	9
K1005028	SJNE062-GR1-2	K1005028-005	Aluminum	921	mg/kg	N	J	8
K1005028	SJNE062-GR1-2	K1005028-005	Arsenic	0.45	mg/kg		J	16
K1005028	SJNE062-GR1-2	K1005028-005	Cadmium	0.2	mg/kg	U	UJ	7
K1005028	SJNE062-GR1-2	K1005028-005	Copper	0.6	mg/kg	U	UJ	14
K1005028	SJNE062-GR1-2	K1005028-005	Manganese	92.2	mg/kg	*	J	9
K1005028	SJNE062-GR1-2	K1005028-005	Mercury	0.005	mg/kg	J	U	7
K1005028	SJNE062-GR1-2	K1005028-005	Vanadium	1.8	mg/kg	J	J	7
K1005028	SJNE065-GR1	K1005028-006	Aluminum	4560	mg/kg	N	J	8
K1005028	SJNE065-GR1	K1005028-006	Arsenic	1.79	mg/kg		J	16
K1005028	SJNE065-GR1	K1005028-006	Cadmium	0.3	mg/kg	J	J	7
K1005028	SJNE065-GR1	K1005028-006	Manganese	198	mg/kg	*	J	9
K1005028	SJNE064-GR1	K1005028-007	Aluminum	5490	mg/kg	N	J	8
K1005028	SJNE064-GR1	K1005028-007	Arsenic	2.11	mg/kg		J	16
K1005028	SJNE064-GR1	K1005028-007	Cadmium	0.3	mg/kg	J	J	7
K1005028	SJNE064-GR1	K1005028-007	Manganese	137	mg/kg	*	J	9
K1005028	SJNE063-GR1	K1005028-008	Aluminum	5010	mg/kg	N	J	8
K1005028	SJNE063-GR1	K1005028-008	Arsenic	3.06	mg/kg		J	16
K1005028	SJNE063-GR1	K1005028-008	Cadmium	0.3	mg/kg	J	J	7
K1005028	SJNE063-GR1	K1005028-008	Manganese	372	mg/kg	*	J	9
K1005028	SJNE068-GR1	K1005028-009	Aluminum	3520	mg/kg	N	J	8
K1005028	SJNE068-GR1	K1005028-009	Arsenic	1.23	mg/kg		J	16
K1005028	SJNE068-GR1	K1005028-009	Cadmium	0.3	mg/kg	J	J	7
K1005028	SJNE068-GR1	K1005028-009	Manganese	105	mg/kg	*	J	9
K1005028	SJNE053-GR1	K1005028-010	Aluminum	5500	mg/kg	N	J	8
K1005028	SJNE053-GR1	K1005028-010	Arsenic	1.97	mg/kg		J	16
K1005028	SJNE053-GR1	K1005028-010	Cadmium	0.2	mg/kg	J	J	7
K1005028	SJNE053-GR1	K1005028-010	Manganese	174	mg/kg	*	J	9
K1005028	SJNE047-GR1	K1005028-011	Aluminum	10500	mg/kg	N	J	8
K1005028	SJNE047-GR1	K1005028-011	Arsenic	4.15	mg/kg		J	16
K1005028	SJNE047-GR1	K1005028-011	Cadmium	0.6	mg/kg	J	J	7,17
K1005028	SJNE047-GR1	K1005028-011	Manganese	523	mg/kg	*	J	9
K1005028	SJNE048-GR1	K1005028-012	Aluminum	10900	mg/kg	N	J	8
K1005028	SJNE048-GR1	K1005028-012	Arsenic	3.47	mg/kg		J	16
K1005028	SJNE048-GR1	K1005028-012	Cadmium	0.6	mg/kg	J	J	7,17
K1005028	SJNE048-GR1	K1005028-012	Manganese	462	mg/kg	*	J	9
K1005028	SJNE054-GR1	K1005028-013	Aluminum	6490	mg/kg	N	J	8
K1005028	SJNE054-GR1	K1005028-013	Arsenic	1.94	mg/kg		J	16

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005028	SJNE054-GR1	K1005028-013	Cadmium	0.3	mg/kg	J	J	7
K1005028	SJNE054-GR1	K1005028-013	Copper	3.9	mg/kg		J	14
K1005028	SJNE054-GR1	K1005028-013	Manganese	115	mg/kg	*	J	9
K1005028	SJNE049-GR1	K1005028-014	Aluminum	8610	mg/kg	N	J	8
K1005028	SJNE049-GR1	K1005028-014	Arsenic	3.48	mg/kg		J	16
K1005028	SJNE049-GR1	K1005028-014	Cadmium	0.6	mg/kg	J	J	7,17
K1005028	SJNE049-GR1	K1005028-014	Manganese	400	mg/kg	*	J	9
K1005106	SJNE022-GR1	K1005106-001	Arsenic	1.52	mg/kg	*	J	9
K1005106	SJNE022-GR1	K1005106-001	Magnesium	1080	mg/kg		J	16
K1005106	SJNE022-GR1	K1005106-001	Manganese	304	mg/kg		J	16
K1005106	SJNE022-GR1	K1005106-001	Thallium	3.2	mg/kg	U	UJ	17
K1005106	SJNE022-GR1	K1005106-001DUP	Arsenic	1.99	mg/kg		J	9
K1005106	SJNE022-GR1	K1005106-001DUP	Chromium	4	mg/kg		J	9
K1005106	SJNE022-GR3	K1005106-002	Arsenic	2	mg/kg	*	J	9
K1005106	SJNE022-GR3	K1005106-002	Magnesium	2070	mg/kg		J	16
K1005106	SJNE022-GR3	K1005106-002	Manganese	385	mg/kg		J	16
K1005106	SJNE022-GR3	K1005106-002	Thallium	2.9	mg/kg	U	UJ	17
K1005106	SJNE022-GR2	K1005106-003	Arsenic	1.79	mg/kg	*	J	9
K1005106	SJNE022-GR2	K1005106-003	Magnesium	1280	mg/kg		J	16
K1005106	SJNE022-GR2	K1005106-003	Manganese	167	mg/kg		J	16
K1005106	SJNE022-GR2	K1005106-003	Thallium	3.2	mg/kg	U	UJ	17
K1005106	SJGB004-GR1	K1005106-004	Arsenic	4.64	mg/kg	*	J	9
K1005106	SJGB004-GR1	K1005106-004	Magnesium	3460	mg/kg		J	16
K1005106	SJGB004-GR1	K1005106-004	Manganese	282	mg/kg		J	16
K1005106	SJGB004-GR1	K1005106-004	Thallium	2.9	mg/kg	U	UJ	17
K1005106	SJSH061-GR1	K1005106-005	Arsenic	0.9	mg/kg	*	J	9
K1005106	SJSH061-GR1	K1005106-005	Copper	2.8	mg/kg		U	7
K1005106	SJSH061-GR1	K1005106-005	Magnesium	765	mg/kg		J	16
K1005106	SJSH061-GR1	K1005106-005	Manganese	65.6	mg/kg		J	16
K1005106	SJSH061-GR1	K1005106-005	Thallium	3	mg/kg	U	UJ	17
K1005106	SJSH060-GR1	K1005106-006	Arsenic	0.58	mg/kg	*	J	9
K1005106	SJSH060-GR1	K1005106-006	Chromium	1.32	mg/kg	*	J	9
K1005106	SJSH060-GR1	K1005106-006	Copper	1.8	mg/kg	J	U	7
K1005106	SJSH060-GR1	K1005106-006	Magnesium	425	mg/kg		J	16
K1005106	SJSH060-GR1	K1005106-006	Manganese	16.4	mg/kg		J	16
K1005106	SJSH060-GR1	K1005106-006	Thallium	3.3	mg/kg	U	UJ	17
K1005106	SJSH060-GR1	K1005106-006	Vanadium	1.7	mg/kg	J	J	7
K1005106	SJSH059-GR1	K1005106-007	Arsenic	0.4	mg/kg	*	J	9
K1005106	SJSH059-GR1	K1005106-007	Chromium	1.06	mg/kg	*	J	9
K1005106	SJSH059-GR1	K1005106-007	Copper	1.4	mg/kg	J	U	7
K1005106	SJSH059-GR1	K1005106-007	Magnesium	362	mg/kg		J	16
K1005106	SJSH059-GR1	K1005106-007	Manganese	22.9	mg/kg		J	16
K1005106	SJSH059-GR1	K1005106-007	Thallium	3.1	mg/kg	U	UJ	17
K1005106	SJSH059-GR1	K1005106-007	Vanadium	1.5	mg/kg	J	J	7
K1005175	SJSH044-CR1A	K1005175-003	Aluminum	358	mg/kg	N	J	8
K1005175	SJSH044-CR1A	K1005175-003	Copper	0.7	mg/kg	U	UJ	14
K1005175	SJSH044-CR1A	K1005175-003	Vanadium	0.5	mg/kg	U	UJ	7
K1005175	SJSH044-CR1A	K1005175-003DUP	Aluminum	352	mg/kg		J	8

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005175	SJSH044-CR1A	K1005175-003DUP	Copper	0.7	mg/kg	U	UJ	14
K1005175	SJSH044-CR1A	K1005175-003DUP	Vanadium	0.5	mg/kg	U	UJ	7
K1005175	SJSH042-CR1A	K1005175-007	Aluminum	516	mg/kg	N	J	8
K1005175	SJSH042-CR1A	K1005175-007	Copper	0.7	mg/kg	U	UJ	14
K1005175	SJSH042-CR1A	K1005175-007	Vanadium	0.8	mg/kg	J	J	7
K1005175	SJSH040-CR1A-1	K1005175-011	Aluminum	167	mg/kg	N	J	8
K1005175	SJSH040-CR1A-1	K1005175-011	Chromium	0.37	mg/kg		U	7
K1005175	SJSH040-CR1A-1	K1005175-011	Copper	0.6	mg/kg	U	UJ	14
K1005175	SJSH040-CR1A-1	K1005175-011	Thallium	4.8	mg/kg	J	U	7
K1005175	SJSH040-CR1A-1	K1005175-011	Vanadium	0.4	mg/kg	U	UJ	7
K1005175	SJSH040-CR1A-1	K1005175-011	Zinc	2.5	mg/kg		UJ	7
K1005175	SJSH040-CR1A-2	K1005175-012	Aluminum	251	mg/kg	N	J	8
K1005175	SJSH040-CR1A-2	K1005175-012	Chromium	0.37	mg/kg		U	7
K1005175	SJSH040-CR1A-2	K1005175-012	Copper	4.4	mg/kg		J	14
K1005175	SJSH040-CR1A-2	K1005175-012	Vanadium	0.5	mg/kg	U	UJ	7
K1005175	SJSH038-CR1A	K1005175-017	Aluminum	416	mg/kg	N	J	8
K1005175	SJSH038-CR1A	K1005175-017	Copper	3.5	mg/kg		J	14
K1005175	SJSH038-CR1A	K1005175-017	Vanadium	1.2	mg/kg	J	J	7
K1005175	SJSH036-CR1A	K1005175-021	Aluminum	272	mg/kg	N	J	8
K1005175	SJSH036-CR1A	K1005175-021	Copper	0.7	mg/kg	U	UJ	14
K1005175	SJSH036-CR1A	K1005175-021	Thallium	4.7	mg/kg	J	U	7
K1005175	SJNE029-GR1	K1005175-023	Aluminum	4700	mg/kg	N	J	8
K1005237	SJNE007-CR1A	K1005237-001	Aluminum	1150	mg/kg	N	J	8
K1005237	SJNE007-CR1A	K1005237-001	Arsenic	1.59	mg/kg		J	9
K1005237	SJNE007-CR1A	K1005237-001	Chromium	3.4	mg/kg		J	14
K1005237	SJNE007-CR1A	K1005237-001	Magnesium	580	mg/kg		J	16
K1005237	SJNE007-CR1A	K1005237-001	Manganese	38.3	mg/kg	*	J	9
K1005237	SJNE007-CR1A	K1005237-001	Nickel	3.1	mg/kg	J	U	7
K1005237	SJNE007-CR1A	K1005237-001	Thallium	3.6	mg/kg	U	UJ	17
K1005237	SJNE007-CR1A	K1005237-001	Vanadium	2.5	mg/kg		J	7,14
K1005237	SJNE007-CR1A	K1005237-001DUP	Aluminum	1090	mg/kg		J	8
K1005237	SJNE007-CR1A	K1005237-001DUP	Arsenic	0.84	mg/kg		J	9
K1005237	SJNE007-CR1A	K1005237-001DUP	Chromium	2.9	mg/kg		J	14
K1005237	SJNE007-CR1A	K1005237-001DUP	Magnesium	587	mg/kg		J	16
K1005237	SJNE007-CR1A	K1005237-001DUP	Manganese	20.4	mg/kg		J	9
K1005237	SJNE007-CR1A	K1005237-001DUP	Nickel	2.2	mg/kg	J	U	7
K1005237	SJNE007-CR1A	K1005237-001DUP	Thallium	4	mg/kg	U	UJ	17
K1005237	SJNE007-CR1A	K1005237-001DUP	Vanadium	2.4	mg/kg		J	7,14
K1005237	SJNE007-CR1B	K1005237-002	Aluminum	3340	mg/kg	N	J	8
K1005237	SJNE007-CR1B	K1005237-002	Arsenic	2.03	mg/kg		J	9
K1005237	SJNE007-CR1B	K1005237-002	Magnesium	1670	mg/kg		J	16
K1005237	SJNE007-CR1B	K1005237-002	Manganese	61.7	mg/kg	*	J	9
K1005237	SJNE007-CR1B	K1005237-002	Thallium	3.5	mg/kg	U	UJ	17
K1005237	SJNE007-CR1C	K1005237-003	Aluminum	2010	mg/kg	N	J	8
K1005237	SJNE007-CR1C	K1005237-003	Arsenic	1.35	mg/kg		J	9
K1005237	SJNE007-CR1C	K1005237-003	Magnesium	1010	mg/kg		J	16
K1005237	SJNE007-CR1C	K1005237-003	Manganese	30	mg/kg	*	J	9
K1005237	SJNE007-CR1C	K1005237-003	Thallium	3.2	mg/kg	U	UJ	17

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005237	SJNE007-CR1D	K1005237-004	Aluminum	4790	mg/kg	N	J	8
K1005237	SJNE007-CR1D	K1005237-004	Arsenic	2.17	mg/kg		J	9
K1005237	SJNE007-CR1D	K1005237-004	Magnesium	2200	mg/kg		J	16
K1005237	SJNE007-CR1D	K1005237-004	Manganese	92	mg/kg	*	J	9
K1005237	SJNE007-CR1D	K1005237-004	Thallium	3.2	mg/kg	U	UJ	17
K1005237	SJNE007-CR1E	K1005237-005	Aluminum	5170	mg/kg	N	J	8
K1005237	SJNE007-CR1E	K1005237-005	Arsenic	2.23	mg/kg		J	9
K1005237	SJNE007-CR1E	K1005237-005	Magnesium	2280	mg/kg		J	16
K1005237	SJNE007-CR1E	K1005237-005	Manganese	294	mg/kg	*	J	9
K1005237	SJNE007-CR1E	K1005237-005	Thallium	3.3	mg/kg	U	UJ	17
K1005237	SJNE007-CR1F	K1005237-006	Aluminum	1100	mg/kg	N	J	8
K1005237	SJNE007-CR1F	K1005237-006	Arsenic	0.78	mg/kg		J	9
K1005237	SJNE007-CR1F	K1005237-006	Magnesium	553	mg/kg		J	16
K1005237	SJNE007-CR1F	K1005237-006	Manganese	16.6	mg/kg	*	J	8
K1005237	SJNE007-CR1F	K1005237-006	Nickel	2	mg/kg	J	U	7
K1005237	SJNE007-CR1F	K1005237-006	Thallium	3.6	mg/kg	U	UJ	17
K1005237	SJNE007-CR1F	K1005237-006	Vanadium	2.8	mg/kg		J	7,14
K1005237	SJNE007-CR1G	K1005237-007	Aluminum	8820	mg/kg	N	J	8
K1005237	SJNE007-CR1G	K1005237-007	Arsenic	3.44	mg/kg		J	9
K1005237	SJNE007-CR1G	K1005237-007	Cadmium	0.7	mg/kg	J	J	17
K1005237	SJNE007-CR1G	K1005237-007	Magnesium	4190	mg/kg		J	16
K1005237	SJNE007-CR1G	K1005237-007	Manganese	191	mg/kg	*	J	9
K1005237	SJNE007-CR1G	K1005237-007	Thallium	3	mg/kg	U	UJ	17
K1005237	SJNE007-CR1H	K1005237-008	Aluminum	11700	mg/kg	N	J	8
K1005237	SJNE007-CR1H	K1005237-008	Arsenic	4.31	mg/kg		J	9
K1005237	SJNE007-CR1H	K1005237-008	Cadmium	0.6	mg/kg	J	J	17
K1005237	SJNE007-CR1H	K1005237-008	Magnesium	5550	mg/kg		J	16
K1005237	SJNE007-CR1H	K1005237-008	Manganese	180	mg/kg	*	J	9
K1005237	SJNE007-CR1H	K1005237-008	Thallium	3.1	mg/kg	U	UJ	17
K1005237	SJNE007-CR1I	K1005237-009	Aluminum	11200	mg/kg	N	J	8
K1005237	SJNE007-CR1I	K1005237-009	Arsenic	4.25	mg/kg		J	9
K1005237	SJNE007-CR1I	K1005237-009	Cadmium	0.6	mg/kg	J	J	17
K1005237	SJNE007-CR1I	K1005237-009	Magnesium	5440	mg/kg		J	16
K1005237	SJNE007-CR1I	K1005237-009	Manganese	116	mg/kg	*	J	9
K1005237	SJNE007-CR1I	K1005237-009	Thallium	3	mg/kg	U	UJ	17
K1005237	SJNE008-CR1A	K1005237-010	Aluminum	5180	mg/kg	N	J	8
K1005237	SJNE008-CR1A	K1005237-010	Arsenic	3.91	mg/kg		J	9
K1005237	SJNE008-CR1A	K1005237-010	Magnesium	2660	mg/kg		J	16
K1005237	SJNE008-CR1A	K1005237-010	Manganese	152	mg/kg	*	J	9
K1005237	SJNE008-CR1A	K1005237-010	Thallium	3.5	mg/kg	U	UJ	17
K1005237	SJNE008-CR1B	K1005237-011	Aluminum	6320	mg/kg	N	J	8
K1005237	SJNE008-CR1B	K1005237-011	Arsenic	2.77	mg/kg		J	9
K1005237	SJNE008-CR1B	K1005237-011	Magnesium	3430	mg/kg		J	16
K1005237	SJNE008-CR1B	K1005237-011	Manganese	338	mg/kg	*	J	9
K1005237	SJNE008-CR1B	K1005237-011	Thallium	3.5	mg/kg	U	UJ	17
K1005237	SJNE008-CR1C	K1005237-012	Aluminum	5630	mg/kg	N	J	8
K1005237	SJNE008-CR1C	K1005237-012	Arsenic	1.94	mg/kg		J	9
K1005237	SJNE008-CR1C	K1005237-012	Magnesium	3010	mg/kg		J	16

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005237	SJNE008-CR1C	K1005237-012	Manganese	150	mg/kg	*	J	9
K1005237	SJNE008-CR1C	K1005237-012	Thallium	3.4	mg/kg	U	UJ	17
K1005237	SJNE008-CR1D	K1005237-013	Aluminum	7890	mg/kg	N	J	8
K1005237	SJNE008-CR1D	K1005237-013	Arsenic	3.29	mg/kg		J	9
K1005237	SJNE008-CR1D	K1005237-013	Magnesium	4840	mg/kg		J	16
K1005237	SJNE008-CR1D	K1005237-013	Manganese	412	mg/kg	*	J	9
K1005237	SJNE008-CR1D	K1005237-013	Thallium	3.4	mg/kg	U	UJ	17
K1005237	SJNE041-CR1A	K1005237-014	Aluminum	4050	mg/kg	N	J	8
K1005237	SJNE041-CR1A	K1005237-014	Arsenic	1.64	mg/kg		J	9
K1005237	SJNE041-CR1A	K1005237-014	Magnesium	1750	mg/kg		J	16
K1005237	SJNE041-CR1A	K1005237-014	Manganese	97.6	mg/kg	*	J	9
K1005237	SJNE041-CR1A	K1005237-014	Thallium	3.5	mg/kg	U	UJ	17
K1005237	SJNE041-CR1B	K1005237-015	Aluminum	3170	mg/kg	N	J	8
K1005237	SJNE041-CR1B	K1005237-015	Arsenic	1.28	mg/kg		J	9
K1005237	SJNE041-CR1B	K1005237-015	Magnesium	1270	mg/kg		J	16
K1005237	SJNE041-CR1B	K1005237-015	Manganese	53.2	mg/kg	*	J	9
K1005237	SJNE041-CR1B	K1005237-015	Thallium	3.3	mg/kg	U	UJ	17
K1005237	SJNE041-CR1C	K1005237-016	Aluminum	4420	mg/kg	N	J	8
K1005237	SJNE041-CR1C	K1005237-016	Arsenic	2.11	mg/kg		J	9
K1005237	SJNE041-CR1C	K1005237-016	Magnesium	1980	mg/kg		J	16
K1005237	SJNE041-CR1C	K1005237-016	Manganese	72.6	mg/kg	*	J	9
K1005237	SJNE041-CR1C	K1005237-016	Thallium	3.2	mg/kg	U	UJ	17
K1005237	SJNE041-CR1D	K1005237-017	Aluminum	2060	mg/kg	N	J	8
K1005237	SJNE041-CR1D	K1005237-017	Arsenic	1.01	mg/kg		J	9
K1005237	SJNE041-CR1D	K1005237-017	Magnesium	910	mg/kg		J	16
K1005237	SJNE041-CR1D	K1005237-017	Manganese	18.1	mg/kg	*	J	9
K1005237	SJNE041-CR1D	K1005237-017	Thallium	3.1	mg/kg	U	UJ	17
K1005237	SJNE041-CR1E	K1005237-018	Aluminum	7250	mg/kg	N	J	8
K1005237	SJNE041-CR1E	K1005237-018	Arsenic	1.77	mg/kg		J	9
K1005237	SJNE041-CR1E	K1005237-018	Magnesium	2800	mg/kg		J	16
K1005237	SJNE041-CR1E	K1005237-018	Manganese	97.4	mg/kg	*	J	9
K1005237	SJNE041-CR1E	K1005237-018	Thallium	3.3	mg/kg	U	UJ	17
K1005237	SJNE041-CR1F	K1005237-019	Aluminum	665	mg/kg	N	J	8
K1005237	SJNE041-CR1F	K1005237-019	Magnesium	263	mg/kg		J	16
K1005237	SJNE041-CR1F	K1005237-019	Manganese	8.41	mg/kg	*	J	9
K1005237	SJNE041-CR1F	K1005237-019	Thallium	3.1	mg/kg	U	UJ	17
K1005237	SJNE041-CR1F	K1005237-019	Vanadium	1.3	mg/kg	J	J	7
K1005237	SJNE041-CR1F	K1005237-019	Zinc	1.6	mg/kg	J	J	7
K1005237	SJNE012-CR1A	K1005237-020	Aluminum	3330	mg/kg	N	J	8
K1005237	SJNE012-CR1A	K1005237-020	Arsenic	2.03	mg/kg		J	9
K1005237	SJNE012-CR1A	K1005237-020	Magnesium	1600	mg/kg		J	16
K1005237	SJNE012-CR1A	K1005237-020	Manganese	88.8	mg/kg	*	J	9
K1005237	SJNE012-CR1A	K1005237-020	Thallium	3.5	mg/kg	U	UJ	17
K1005237	SJNE012-CR1B	K1005237-021	Cadmium	0.8	mg/kg	J	J	17
K1005237	SJNE012-CR1B	K1005237-021	Thallium	3.1	mg/kg	U	UJ	17
K1005237	SJNE012-CR1B	K1005237-021	Vanadium	28.5	mg/kg		J	16
K1005237	SJNE012-CR1B	K1005237-021	Zinc	34.1	mg/kg		J	16
K1005237	SJNE012-CR1B	K1005237-021DUP	Cadmium	0.7	mg/kg	J	J	17

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005237	SJNE012-CR1B	K1005237-021DUP	Thallium	3	mg/kg	U	UJ	17
K1005237	SJNE012-CR1B	K1005237-021DUP	Vanadium	26.8	mg/kg		J	16
K1005237	SJNE012-CR1B	K1005237-021DUP	Zinc	31.2	mg/kg		J	16
K1005237	SJNE012-CR1C	K1005237-022	Copper	5.8	mg/kg		U	7
K1005237	SJNE012-CR1C	K1005237-022	Thallium	3.3	mg/kg	U	UJ	17
K1005237	SJNE012-CR1C	K1005237-022	Vanadium	17.1	mg/kg		J	16
K1005237	SJNE012-CR1C	K1005237-022	Zinc	13.4	mg/kg		J	16
K1005237	SJNE026-CR1A	K1005237-023	Cadmium	0.7	mg/kg	J	J	17
K1005237	SJNE026-CR1A	K1005237-023	Thallium	3.3	mg/kg	U	UJ	17
K1005237	SJNE026-CR1A	K1005237-023	Vanadium	17	mg/kg		J	16
K1005237	SJNE026-CR1A	K1005237-023	Zinc	76.7	mg/kg		J	16
K1005237	SJNE026-CR1B	K1005237-024	Cadmium	0.6	mg/kg	J	J	17
K1005237	SJNE026-CR1B	K1005237-024	Thallium	3	mg/kg	U	UJ	17
K1005237	SJNE026-CR1B	K1005237-024	Vanadium	17.3	mg/kg		J	16
K1005237	SJNE026-CR1B	K1005237-024	Zinc	62.9	mg/kg		J	16
K1005237	SJNE026-CR1C	K1005237-025	Thallium	3	mg/kg	U	UJ	17
K1005237	SJNE026-CR1C	K1005237-025	Vanadium	11.2	mg/kg		J	16
K1005237	SJNE026-CR1C	K1005237-025	Zinc	35.4	mg/kg		J	16
K1005237	SJNE026-CR1D	K1005237-026	Cadmium	0.6	mg/kg	J	J	17
K1005237	SJNE026-CR1D	K1005237-026	Thallium	2.8	mg/kg	U	UJ	17
K1005237	SJNE026-CR1D	K1005237-026	Vanadium	22.1	mg/kg		J	16
K1005237	SJNE026-CR1D	K1005237-026	Zinc	32.2	mg/kg		J	16
K1005237	SJNE026-CR1E	K1005237-027	Cadmium	0.5	mg/kg	J	J	17
K1005237	SJNE026-CR1E	K1005237-027	Thallium	2.9	mg/kg	U	UJ	17
K1005237	SJNE026-CR1E	K1005237-027	Vanadium	23.8	mg/kg		J	16
K1005237	SJNE026-CR1E	K1005237-027	Zinc	29.2	mg/kg		J	16
K1005237	SJNE026-CR1F	K1005237-028	Thallium	3.2	mg/kg	U	UJ	17
K1005237	SJNE026-CR1F	K1005237-028	Vanadium	11.8	mg/kg		J	16
K1005237	SJNE026-CR1F	K1005237-028	Zinc	14.4	mg/kg		J	16
K1005237	SJNE026-CR1G	K1005237-029	Mercury	0.008	mg/kg	J	J	7
K1005237	SJNE026-CR1G	K1005237-029	Thallium	3.4	mg/kg	U	UJ	17
K1005237	SJNE026-CR1G	K1005237-029	Vanadium	8.5	mg/kg		J	16
K1005237	SJNE026-CR1G	K1005237-029	Zinc	8.3	mg/kg		J	16
K1005263	SJVS001-GR1	K1005263-001	Aluminum	6160	mg/kg	N	J	8
K1005281	SJNE023-CR1A	K1005281-001	Thallium	2.8	mg/kg	U	UJ	17
K1005281	SJNE023-CR1A	K1005281-001DUP	Thallium	2.8	mg/kg	U	UJ	17
K1005281	SJNE023-CR1B	K1005281-002	Nickel	2	mg/kg	J	J	7
K1005281	SJNE023-CR1B	K1005281-002	Thallium	3.4	mg/kg	U	UJ	17
K1005281	SJNE023-CR1C	K1005281-003	Nickel	1.9	mg/kg	J	J	7
K1005281	SJNE023-CR1C	K1005281-003	Thallium	3.3	mg/kg	U	UJ	17
K1005281	SJNE023-CR1D	K1005281-004	Nickel	2.4	mg/kg	J	J	7
K1005281	SJNE023-CR1D	K1005281-004	Thallium	3.4	mg/kg	U	UJ	17
K1005281	SJNE023-CR1E	K1005281-005	Thallium	3.4	mg/kg	U	UJ	17
K1005281	SJNE023-CR1F	K1005281-006	Thallium	3.1	mg/kg	U	UJ	17
K1005281	SJNE023-CR1G	K1005281-007	Thallium	3.2	mg/kg	U	UJ	17
K1005281	SJNE023-CR1H	K1005281-008	Thallium	3.5	mg/kg	U	UJ	17
K1005281	SJNE033-CR1A	K1005281-009	Cadmium	0.7	mg/kg	J	J	17
K1005281	SJNE033-CR1A	K1005281-009	Thallium	3	mg/kg	U	UJ	17

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005281	SJNE033-CR1B	K1005281-010	Cadmium	0.6	mg/kg	J	J	17
K1005281	SJNE033-CR1B	K1005281-010	Thallium	3.2	mg/kg	U	UJ	17
K1005281	SJNE033-CR1C	K1005281-011	Cadmium	0.7	mg/kg	J	J	17
K1005281	SJNE033-CR1C	K1005281-011	Thallium	3.1	mg/kg	U	UJ	17
K1005281	SJNE033-CR1D	K1005281-012	Cadmium	1	mg/kg	J	J	17
K1005281	SJNE033-CR1D	K1005281-012	Thallium	3.2	mg/kg	U	UJ	17
K1005281	SJNE033-CR1E	K1005281-013	Cadmium	0.8	mg/kg	J	J	17
K1005281	SJNE033-CR1E	K1005281-013	Thallium	3.2	mg/kg	U	UJ	17
K1005281	SJNE033-CR1F	K1005281-014	Cadmium	0.8	mg/kg	J	J	17
K1005281	SJNE033-CR1F	K1005281-014	Thallium	2.9	mg/kg	U	UJ	17
K1005281	SJNE033-CR1G	K1005281-015	Cadmium	0.7	mg/kg	J	J	17
K1005281	SJNE033-CR1G	K1005281-015	Thallium	2.8	mg/kg	U	UJ	17
K1005281	SJNE033-CR1H	K1005281-016	Cadmium	0.7	mg/kg	J	J	17
K1005281	SJNE033-CR1H	K1005281-016	Thallium	2.9	mg/kg	U	UJ	17
K1005281	SJNE033-CR1I	K1005281-017	Cadmium	0.5	mg/kg	J	J	17
K1005281	SJNE033-CR1I	K1005281-017	Thallium	2.6	mg/kg	U	UJ	17
K1005281	SJNE033-CR1J	K1005281-018	Cadmium	0.5	mg/kg	J	J	17
K1005281	SJNE033-CR1J	K1005281-018	Thallium	3.1	mg/kg	U	UJ	17
K1005281	SJNE050-CR1A	K1005281-019	Cadmium	0.9	mg/kg	J	J	17
K1005281	SJNE050-CR1A	K1005281-019	Thallium	3.4	mg/kg	U	UJ	17
K1005281	SJNE050-CR1B	K1005281-020	Cadmium	1	mg/kg	J	J	17
K1005281	SJNE050-CR1B	K1005281-020	Thallium	3.3	mg/kg	U	UJ	17
K1005282	SJNE050-CR1C	K1005282-001	Cadmium	0.8	mg/kg	J	J	17
K1005282	SJNE050-CR1C	K1005282-001	Thallium	3	mg/kg	U	UJ	17
K1005282	SJNE050-CR1C	K1005282-001	Vanadium	23.7	mg/kg		J	16
K1005282	SJNE050-CR1C	K1005282-001DUP	Cadmium	0.9	mg/kg	J	J	17
K1005282	SJNE050-CR1C	K1005282-001DUP	Vanadium	23	mg/kg		J	16
K1005282	SJNE050-CR1D	K1005282-002	Vanadium	15.6	mg/kg		J	16
K1005282	SJNE050-CR1E	K1005282-003	Cadmium	0.7	mg/kg	J	J	17
K1005282	SJNE050-CR1E	K1005282-003	Thallium	3	mg/kg	U	UJ	17
K1005282	SJNE050-CR1E	K1005282-003	Vanadium	21.7	mg/kg		J	16
K1005282	SJNE050-CR1F	K1005282-004	Cadmium	0.6	mg/kg	J	J	17
K1005282	SJNE050-CR1F	K1005282-004	Thallium	3	mg/kg	U	UJ	17
K1005282	SJNE050-CR1F	K1005282-004	Vanadium	21	mg/kg		J	16
K1005282	SJNE050-CR1G	K1005282-005	Vanadium	15	mg/kg		J	16
K1005282	SJNE043-CR1A	K1005282-006	Chromium	1.19	mg/kg		J	16
K1005282	SJNE043-CR1A	K1005282-006	Copper	1.8	mg/kg	J	U	7
K1005282	SJNE043-CR1A	K1005282-006	Mercury	0.006	mg/kg	J	J	7
K1005282	SJNE043-CR1A	K1005282-006	Vanadium	2.6	mg/kg		J	14,16
K1005282	SJNE043-CR1B	K1005282-007	Chromium	1.24	mg/kg		J	16
K1005282	SJNE043-CR1B	K1005282-007	Copper	1.5	mg/kg	J	U	7
K1005282	SJNE043-CR1B	K1005282-007	Mercury	0.006	mg/kg	J	J	7
K1005282	SJNE043-CR1B	K1005282-007	Vanadium	2.8	mg/kg		J	16
K1005282	SJNE043-CR1C	K1005282-008	Copper	1.5	mg/kg	J	U	7
K1005282	SJNE043-CR1C	K1005282-008	Mercury	0.004	mg/kg	J	J	7
K1005282	SJNE043-CR1C	K1005282-008	Vanadium	4.5	mg/kg		J	16
K1005282	SJNE043-CR1D	K1005282-009	Copper	1.5	mg/kg	J	U	7
K1005282	SJNE043-CR1D	K1005282-009	Mercury	0.003	mg/kg	J	J	7

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005282	SJNE043-CR1D	K1005282-009	Vanadium	3.3	mg/kg		J	14,16
K1005282	SJNE043-CR1E	K1005282-010	Chromium	1.3	mg/kg		J	16
K1005282	SJNE043-CR1E	K1005282-010	Copper	1.6	mg/kg	J	U	7
K1005282	SJNE043-CR1E	K1005282-010	Mercury	0.003	mg/kg	J	J	7
K1005282	SJNE043-CR1E	K1005282-010	Vanadium	3.9	mg/kg		J	14,16
K1005282	SJNE030-CR1A	K1005282-011	Copper	2.3	mg/kg		U	7
K1005282	SJNE030-CR1A	K1005282-011	Vanadium	6.2	mg/kg		J	16
K1005282	SJNE030-CR1B	K1005282-012	Mercury	0.005	mg/kg	J	J	7
K1005282	SJNE030-CR1B	K1005282-012	Vanadium	3.8	mg/kg		J	14,16
K1005282	SJNE030-CR1C	K1005282-013	Mercury	0.006	mg/kg	J	J	7
K1005282	SJNE030-CR1C	K1005282-013	Vanadium	7	mg/kg		J	16
K1005282	SJNE030-CR1D	K1005282-014	Mercury	0.008	mg/kg	J	J	7
K1005282	SJNE030-CR1D	K1005282-014	Vanadium	6.7	mg/kg		J	16
K1005282	SJNE030-CR1E	K1005282-015	Chromium	0.36	mg/kg		J	16
K1005282	SJNE030-CR1E	K1005282-015	Copper	0.8	mg/kg	J	U	7
K1005282	SJNE030-CR1E	K1005282-015	Mercury	0.002	mg/kg	J	J	7
K1005282	SJNE030-CR1E	K1005282-015	Vanadium	0.5	mg/kg	U	UJ	14,16
K1005284	SJVS016-GR1	K1005284-006	Aluminum	5760	mg/kg	N	J	8
K1005284	SJVS016-GR1	K1005284-006	Thallium	2.8	mg/kg	U	UJ	17
K1005351	SJNE001-GR1	K1005351-001	Cadmium	0.5	mg/kg	J	J	17
K1005351	SJNE001-GR1	K1005351-001	Thallium	3.2	mg/kg	U	UJ	17
K1005351	SJNE001-GR1	K1005351-001DUP	Cadmium	0.6	mg/kg	J	J	17
K1005351	SJNE001-GR1	K1005351-001DUP	Chromium	10.9	mg/kg		J	16
K1005351	SJNE001-GR1	K1005351-001DUP	Thallium	3.2	mg/kg	U	UJ	17
K1005351	SJNE004-GR1	K1005351-002	Thallium	3.1	mg/kg	U	UJ	17
K1005351	SJNE005-GR1	K1005351-003	Thallium	3.2	mg/kg	U	UJ	17
K1005351	SJSH056-GR1	K1005351-004	Cadmium	0.7	mg/kg	J	J	17
K1005351	SJSH056-GR1	K1005351-004	Thallium	3.4	mg/kg	U	UJ	17
K1005351	SJSH057-GR1	K1005351-005	Cadmium	0.5	mg/kg	J	J	17
K1005351	SJSH057-GR1	K1005351-005	Thallium	3	mg/kg	U	UJ	17
K1005351	SJSH058-GR1	K1005351-006	Cadmium	0.5	mg/kg	J	J	17
K1005351	SJSH058-GR1	K1005351-006	Thallium	3.1	mg/kg	U	UJ	17
K1005351	SJGB008-GR1	K1005351-007	Nickel	2.3	mg/kg	J	J	7
K1005351	SJGB008-GR1	K1005351-007	Thallium	3.2	mg/kg	U	UJ	17
K1005351	SJGB008-GR1	K1005351-007	Vanadium	4	mg/kg		J	7,14
K1005351	SJGB005-GR1	K1005351-008	Thallium	3.1	mg/kg	U	UJ	17
K1005351	SJGB007-GR1	K1005351-009	Cadmium	0.8	mg/kg	J	J	17
K1005351	SJGB007-GR1	K1005351-009	Thallium	3.2	mg/kg	U	UJ	17
K1005351	SJNE050-GR1	K1005351-010	Copper	1.8	mg/kg	J	U	7
K1005351	SJNE050-GR1	K1005351-010	Mercury	0.008	mg/kg	J	U	7
K1005351	SJNE050-GR1	K1005351-010	Nickel	1	mg/kg	J	J	7
K1005351	SJSH064-GR1-1	K1005351-011	Chromium	0.64	mg/kg		J	16
K1005351	SJSH064-GR1-1	K1005351-011	Copper	1.1	mg/kg	J	U	7
K1005351	SJSH064-GR1-1	K1005351-011	Mercury	0.003	mg/kg	J	U	7
K1005351	SJSH064-GR1-1	K1005351-011	Nickel	0.6	mg/kg	U	UJ	7
K1005351	SJSH064-GR1-1	K1005351-011	Thallium	4.5	mg/kg	J	U	7
K1005351	SJSH064-GR1-1	K1005351-011	Vanadium	0.4	mg/kg	U	R	14
K1005351	SJSH064-GR1-2	K1005351-012	Chromium	0.68	mg/kg		J	16

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K1005351	SJSH064-GR1-2	K1005351-012	Copper	0.7	mg/kg	U	U	7
K1005351	SJSH064-GR1-2	K1005351-012	Mercury	0.009	mg/kg	J	U	7
K1005351	SJSH064-GR1-2	K1005351-012	Nickel	0.6	mg/kg	U	UJ	7
K1005351	SJSH064-GR1-2	K1005351-012	Thallium	3.3	mg/kg	U	UJ	17
K1005351	SJSH064-GR1-2	K1005351-012	Vanadium	0.4	mg/kg	U	R	14
K1005351	SJSH063-GR1	K1005351-013	Chromium	0.76	mg/kg		J	16
K1005351	SJSH063-GR1	K1005351-013	Copper	2.5	mg/kg		U	7
K1005351	SJSH063-GR1	K1005351-013	Mercury	0.003	mg/kg	J	U	7
K1005351	SJSH063-GR1	K1005351-013	Nickel	0.5	mg/kg	U	UJ	7
K1005351	SJSH063-GR1	K1005351-013	Thallium	3.1	mg/kg	U	UJ	17
K1005351	SJSH063-GR1	K1005351-013	Vanadium	0.4	mg/kg	U	R	14
K1005351	SJSH062-GR1	K1005351-014	Chromium	0.82	mg/kg		J	16
K1005351	SJSH062-GR1	K1005351-014	Copper	2.2	mg/kg	J	U	7
K1005351	SJSH062-GR1	K1005351-014	Mercury	0.009	mg/kg	J	U	7
K1005351	SJSH062-GR1	K1005351-014	Nickel	0.6	mg/kg	U	UJ	7
K1005351	SJSH062-GR1	K1005351-014	Thallium	3.4	mg/kg	U	UJ	17
K1005351	SJSH062-GR1	K1005351-014	Vanadium	0.5	mg/kg	J	J	7,14
K1005351	SJNE067-GR1	K1005351-015	Copper	2.7	mg/kg		U	7
K1005351	SJNE067-GR1	K1005351-015	Mercury	0.008	mg/kg	J	U	7
K1005351	SJNE067-GR1	K1005351-015	Nickel	0.8	mg/kg	J	J	7
K1005351	SJNE067-GR1	K1005351-015	Thallium	3.3	mg/kg	U	UJ	17
K1005351	SJNE067-GR1	K1005351-015	Vanadium	2.6	mg/kg		J	7,14
K1005351	SJNE069-GR1	K1005351-016	Chromium	0.64	mg/kg		J	16
K1005351	SJNE069-GR1	K1005351-016	Copper	0.7	mg/kg	U	U	7
K1005351	SJNE069-GR1	K1005351-016	Mercury	0.003	mg/kg	J	U	7
K1005351	SJNE069-GR1	K1005351-016	Thallium	3.6	mg/kg	U	UJ	17
K1005351	SJNE069-GR1	K1005351-016	Vanadium	1	mg/kg	J	J	7,14
K1005351	SJNE070-GR1	K1005351-017	Copper	1.6	mg/kg	J	U	7
K1005351	SJNE070-GR1	K1005351-017	Mercury	0.008	mg/kg	J	U	7
K1005351	SJNE070-GR1	K1005351-017	Thallium	3.1	mg/kg	U	UJ	17
K1005351	SJNE070-GR1	K1005351-017	Vanadium	3.7	mg/kg		J	7,14
K1005351	SJWRP-001	K1005351-018	Thallium	3	mg/kg	U	UJ	17
K1005351	SDFW-906S	K1005351-019	Arsenic	0.11	ug	J	U	7
K1005351	SDFW-906S	K1005351-019	Barium	0.3	ug	J	U	7
K1005351	SDFW-906S	K1005351-019	Chromium	0.61	ug		U	6
K1005351	SDFW-906S	K1005351-019	Magnesium	13.3	ug		U	6
K1005351	SDFW-906S	K1005351-019	Manganese	1.63	ug		U	7
K1005351	SDFW-906S	K1005351-019	Mercury	0.008	ug	U	UJ	7
K1005351	SDFW-906S	K1005351-019	Zinc	0.9	ug	J	U	6
K1005351	SDFW-920S	K1005351-020	Arsenic	0.1	ug	J	U	7
K1005351	SDFW-920S	K1005351-020	Barium	0.2	ug	J	U	7
K1005351	SDFW-920S	K1005351-020	Manganese	0.33	ug	J	U	7
K1005351	SDFW-920S	K1005351-020	Mercury	0.008	ug	U	UJ	7
K1005351	SJNE066-GR1	K1005351-021	Chromium	3.8	mg/kg		J	16
K1005351	SJNE066-GR1	K1005351-021	Copper	2.5	mg/kg		U	7
K1005351	SJNE066-GR1	K1005351-021	Mercury	0.009	mg/kg	J	U	7
K1005351	SJNE066-GR1	K1005351-021	Thallium	3.9	mg/kg	J	U	7
K1005353	SJGB013 S4	K1005353-004	Aluminum	4480	mg/kg	N	J	8

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005353	SJGB013 S4	K1005353-004	Cadmium	0.2	mg/kg	U	UJ	7
K1005353	SJGB014 S1	K1005353-006	Aluminum	5080	mg/kg	N	J	8
K1005353	SJGB014 S5	K1005353-010	Aluminum	5600	mg/kg	N	J	8
K1005353	SJGB014 S5	K1005353-010	Cadmium	0.2	mg/kg	J	J	7
K1005353	SJGB015 S5	K1005353-015	Aluminum	3120	mg/kg	N	J	8
K1005353	SJGB015 S5	K1005353-015	Cadmium	0.2	mg/kg	U	UJ	7
K1005353	SJGB015 S5	K1005353-015	Copper	2.8	mg/kg		J	14
K1005353	SJGB015 S5	K1005353-015	Thallium	3.1	mg/kg	J	U	7
K1005353	SJGB016 S3	K1005353-018	Aluminum	3140	mg/kg	N	J	8
K1005353	SJGB016 S3	K1005353-018	Cadmium	0.2	mg/kg	U	UJ	7
K1005353	SJGB016 S3	K1005353-018	Copper	3	mg/kg		J	14
K1005353	SJGB017 S5	K1005353-024	Aluminum	2860	mg/kg	N	J	8
K1005353	SJGB017 S5	K1005353-024	Cadmium	0.2	mg/kg	U	UJ	7
K1005353	SJGB017 S5	K1005353-024	Copper	2.2	mg/kg		J	14
K1005357	SJNE029-CR1A	K1005357-001	Thallium	2.8	mg/kg	U	UJ	17
K1005357	SJNE029-CR1A	K1005357-001DUP	Thallium	2.8	mg/kg	U	UJ	17
K1005357	SJNE029-CR1B	K1005357-002	Cadmium	0.7	mg/kg	J	J	17
K1005357	SJNE029-CR1B	K1005357-002	Thallium	2.8	mg/kg	U	UJ	17
K1005357	SJNE029-CR1C	K1005357-003	Thallium	3.2	mg/kg	U	UJ	17
K1005357	SJNE029-CR1D	K1005357-004	Copper	2.8	mg/kg		U	7
K1005357	SJNE029-CR1D	K1005357-004	Thallium	3.4	mg/kg	U	UJ	17
K1005357	SJNE029-CR1E	K1005357-005	Copper	3.2	mg/kg		U	7
K1005357	SJNE029-CR1E	K1005357-005	Thallium	3.5	mg/kg	U	UJ	17
K1005357	SJNE029-CR1F	K1005357-006	Copper	2.6	mg/kg		U	7
K1005357	SJNE029-CR1F	K1005357-006	Thallium	3.5	mg/kg	U	UJ	17
K1005357	SJNE029-CR1G	K1005357-007	Copper	2.4	mg/kg		U	7
K1005357	SJNE029-CR1G	K1005357-007	Thallium	3.4	mg/kg	U	UJ	17
K1005357	SJNE029-CR1H	K1005357-008	Copper	4.4	mg/kg		U	7
K1005357	SJNE029-CR1H	K1005357-008	Thallium	3.5	mg/kg	U	UJ	17
K1005357	SJNE029-CR1I	K1005357-009	Copper	4.4	mg/kg		U	7
K1005357	SJNE029-CR1I	K1005357-009	Thallium	3.3	mg/kg	U	UJ	17
K1005357	SJNE028-CR1A	K1005357-010	Copper	4.2	mg/kg		U	7
K1005357	SJNE028-CR1A	K1005357-010	Thallium	3.1	mg/kg	U	UJ	17
K1005357	SJNE028-CR1B	K1005357-011	Copper	2.8	mg/kg		U	7
K1005357	SJNE028-CR1B	K1005357-011	Thallium	3.1	mg/kg	U	UJ	17
K1005357	SJNE028-CR1C	K1005357-012	Copper	3.8	mg/kg		U	7
K1005357	SJNE028-CR1C	K1005357-012	Thallium	3.1	mg/kg	U	UJ	17
K1005357	SJNE028-CR1D	K1005357-013	Copper	1.7	mg/kg	J	U	7
K1005357	SJNE028-CR1D	K1005357-013	Thallium	3.3	mg/kg	U	UJ	17
K1005357	SJNE028-CR1D	K1005357-013	Vanadium	4	mg/kg		J	7,14
K1005357	SJNE028-CR1E	K1005357-014	Copper	2.7	mg/kg		U	7
K1005357	SJNE028-CR1E	K1005357-014	Thallium	3.7	mg/kg	J	J	17
K1005357	SJNE028-CR1F	K1005357-015	Copper	4.6	mg/kg		U	7
K1005357	SJNE028-CR1F	K1005357-015	Thallium	3.5	mg/kg	U	UJ	17
K1005357	SJNE028-CR1G	K1005357-016	Thallium	3.1	mg/kg	U	UJ	17
K1005357	SJNE028-CR1H	K1005357-017	Copper	4.7	mg/kg		U	7
K1005357	SJNE028-CR1H	K1005357-017	Thallium	3.1	mg/kg	U	UJ	17
K1005357	SJNE032-CR1A	K1005357-018	Thallium	2.9	mg/kg	U	UJ	17

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005357	SJNE032-CR1B	K1005357-019	Thallium	3.1	mg/kg	U	UJ	17
K1005357	SJNE032-CR1C	K1005357-020	Thallium	3.1	mg/kg	U	UJ	17
K1005359	SJNE032-CR1D	K1005359-001DUP	Thallium	0.4	mg/kg	U	UJ	14
K1005359	SJNE032-CR1E	K1005359-002	Thallium	0.4	mg/kg	U	UJ	14
K1005359	SJNE032-CR1F	K1005359-003	Thallium	0.4	mg/kg	U	UJ	14
K1005359	SJNE032-CR1G	K1005359-004	Thallium	0.4	mg/kg	U	UJ	14
K1005359	SJNE032-CR1H	K1005359-005	Thallium	0.4	mg/kg	U	UJ	14
K1005359	SJNE032-CR1I	K1005359-006	Thallium	0.4	mg/kg	U	UJ	14
K1005359	SJNE035-CR1B	K1005359-008	Thallium	0.4	mg/kg	U	UJ	14
K1005359	SDFW-902C	K1005359-016	Aluminum	2.5	ug	J	J	7
K1005359	SDFW-902C	K1005359-016	Arsenic	0.2	ug	J	U	7
K1005359	SDFW-902C	K1005359-016	Barium	0.2	ug	J	U	7
K1005359	SDFW-902C	K1005359-016	Chromium	1.24	ug		U	6
K1005359	SDFW-902C	K1005359-016	Copper	0.2	ug	J	U	7
K1005359	SDFW-902C	K1005359-016	Magnesium	190	ug		U	6
K1005359	SDFW-902C	K1005359-016	Mercury	0.008	ug	U	UJ	7
K1005359	SDFW-902C	K1005359-016	Thallium	0.4	ug	U	UJ	14
K1005359	SDFW-902C	K1005359-016	Zinc	2.3	ug		U	6
K1005359	SDFW-904C	K1005359-017	Aluminum	1.3	ug	J	J	7
K1005359	SDFW-904C	K1005359-017	Arsenic	0.15	ug	J	U	7
K1005359	SDFW-904C	K1005359-017	Chromium	0.6	ug		U	6
K1005359	SDFW-904C	K1005359-017	Copper	0.5	ug		U	7
K1005359	SDFW-904C	K1005359-017	Magnesium	7.8	ug		U	6
K1005359	SDFW-904C	K1005359-017	Manganese	0.16	ug		U	7
K1005359	SDFW-904C	K1005359-017	Mercury	0.008	ug	U	UJ	7
K1005359	SDFW-904C	K1005359-017	Thallium	0.4	ug	U	UJ	14
K1005359	SDFW-904C	K1005359-017	Zinc	0.4	ug		U	7
K1005359	SJNE032-CR1J	K1005359-018	Thallium	0.4	mg/kg	U	UJ	14
K1005390	SJSH055-CR1A	K1005390-001	Aluminum	1110	mg/kg	N	J	8,16
K1005390	SJSH055-CR1A	K1005390-001	Barium	20.6	mg/kg		J	16
K1005390	SJSH055-CR1A	K1005390-001	Magnesium	454	mg/kg		J	16
K1005390	SJSH055-CR1A	K1005390-001	Manganese	40.3	mg/kg		J	16
K1005390	SJSH055-CR1A	K1005390-001DUP	Aluminum	1130	mg/kg		J	8,16
K1005390	SJSH055-CR1A	K1005390-001DUP	Barium	21.8	mg/kg		J	16
K1005390	SJSH055-CR1A	K1005390-001DUP	Magnesium	456	mg/kg		J	16
K1005390	SJSH055-CR1A	K1005390-001DUP	Manganese	42.1	mg/kg		J	16
K1005390	SJSH053-CR1A	K1005390-004	Aluminum	663	mg/kg	N	J	8,16
K1005390	SJSH053-CR1A	K1005390-004	Barium	8.12	mg/kg		J	16
K1005390	SJSH053-CR1A	K1005390-004	Magnesium	247	mg/kg		J	16
K1005390	SJSH053-CR1A	K1005390-004	Manganese	19.1	mg/kg		J	16
K1005390	SJSH051-CR1A	K1005390-006	Aluminum	2830	mg/kg	N	J	8,16
K1005390	SJSH051-CR1A	K1005390-006	Barium	46.7	mg/kg		J	16
K1005390	SJSH051-CR1A	K1005390-006	Magnesium	1080	mg/kg		J	16
K1005390	SJSH051-CR1A	K1005390-006	Manganese	52.1	mg/kg		J	16
K1005390	SJSH049-CR1A	K1005390-009	Aluminum	898	mg/kg	N	J	8,16
K1005390	SJSH049-CR1A	K1005390-009	Barium	18.9	mg/kg		J	16
K1005390	SJSH049-CR1A	K1005390-009	Magnesium	340	mg/kg		J	16
K1005390	SJSH049-CR1A	K1005390-009	Manganese	49.1	mg/kg		J	16

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005390	SJSH049-CR1A	K1005390-009	Mercury	0.004	mg/kg	J	J	7
K1005390	SJSH047-CR1A	K1005390-011	Aluminum	516	mg/kg	N	J	8,16
K1005390	SJSH047-CR1A	K1005390-011	Barium	12.4	mg/kg		J	16
K1005390	SJSH047-CR1A	K1005390-011	Magnesium	175	mg/kg		J	16
K1005390	SJSH047-CR1A	K1005390-011	Manganese	11.7	mg/kg		J	16
K1005390	SJSH001-CR1A	K1005390-015	Aluminum	4410	mg/kg	N	J	8,16
K1005390	SJSH001-CR1A	K1005390-015	Barium	53.4	mg/kg		J	16
K1005390	SJSH001-CR1A	K1005390-015	Magnesium	1360	mg/kg		J	16
K1005390	SJSH001-CR1A	K1005390-015	Manganese	120	mg/kg		J	16
K1005390	SJSH002-CR1A	K1005390-016	Aluminum	2860	mg/kg	N	J	8,16
K1005390	SJSH002-CR1A	K1005390-016	Magnesium	1150	mg/kg		J	16
K1005390	SJSH002-CR1A	K1005390-016	Manganese	67.9	mg/kg		J	16
K1005390	SDFW-911C	K1005390-017	Arsenic	0.1	ug	J	U	7
K1005390	SDFW-911C	K1005390-017	Barium	0.2	ug	J	U	7
K1005390	SDFW-911C	K1005390-017	Chromium	0.92	ug		U	6
K1005390	SDFW-911C	K1005390-017	Magnesium	139	ug		UJ	6,16
K1005390	SDFW-911C	K1005390-017	Manganese	0.2	ug	J	U	7
K1005390	SDFW-911C	K1005390-017	Mercury	0.008	ug	U	UJ	7
K1005390	SDFW-911C	K1005390-017	Zinc	1.1	ug	J	U	6
K1005525	SJSH023-CR1A	K1005525-004	Manganese	403	mg/kg	N*	J	8,9
K1005525	SJSH023-CR1A	K1005525-004DUP	Manganese	79.4	mg/kg		J	8,9
K1005525	SJSH025-CR1A-1	K1005525-008	Manganese	181	mg/kg	N*	J	8,9
K1005525	SJSH025-CR1A-2	K1005525-009	Manganese	167	mg/kg	N*	J	8,9
K1005525	SJSH027-CR1A	K1005525-014	Manganese	591	mg/kg	N*	J	8,9
K1005525	SJSH027-CR1A	K1005525-014	Mercury	0.009	mg/kg	J	U	7
K1005525	SJSH027-CR1B	K1005525-015	Manganese	110	mg/kg	N*	J	8,9
K1005525	SJSH029-CR1A	K1005525-018	Manganese	125	mg/kg	N*	J	8,9
K1005525	SJSH029-CR1A	K1005525-018	Mercury	0.009	mg/kg	J	U	7
K1005525	SJSH029-CR1B	K1005525-019	Manganese	54.5	mg/kg	N*	J	8,9
K1005525	SJSH029-CR1B	K1005525-019	Mercury	0.006	mg/kg	J	U	7
K1005525	SDFW-907C	K1005525-022	Barium	0.3	ug	J	U	7
K1005525	SDFW-907C	K1005525-022	Chromium	1.13	ug		U	6
K1005525	SDFW-907C	K1005525-022	Magnesium	132	ug		U	6
K1005525	SDFW-907C	K1005525-022	Mercury	0.008	ug	U	UJ	7
K1005525	SDFW-907C	K1005525-022	Zinc	2.1	ug		U	6
K1005525	SDFW-908C	K1005525-023	Barium	0.1	ug	J	U	7
K1005525	SDFW-908C	K1005525-023	Chromium	1.6	ug		U	6
K1005525	SDFW-908C	K1005525-023	Magnesium	139	ug		U	6
K1005525	SDFW-908C	K1005525-023	Mercury	0.008	ug	U	UJ	7
K1005525	SDFW-908C	K1005525-023	Zinc	1.4	ug		U	6
K1005525	SJSH031-CR1A	K1005525-024	Manganese	116	mg/kg	N*	J	8,9
K1005525	SJSH031-CR1B	K1005525-025	Manganese	151	mg/kg	N*	J	8,9
K1005525	SJSH031-CR1B	K1005525-025	Mercury	0.008	mg/kg	J	U	7
K1005525	SDFW-909C	K1005525-026	Barium	0.2	ug	J	U	7
K1005525	SDFW-909C	K1005525-026	Chromium	2.1	ug		U	6
K1005525	SDFW-909C	K1005525-026	Cobalt	0.1	ug	J	U	7
K1005525	SDFW-909C	K1005525-026	Magnesium	97.1	ug		U	6
K1005525	SDFW-909C	K1005525-026	Mercury	0.008	ug	U	UJ	7

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005525	SDFW-909C	K1005525-026	Zinc	0.7	ug		U	6
K1005525	SJSH033-CR1A	K1005525-029	Manganese	179	mg/kg	N*	J	8,9
K1005525	SJSH033-CR1B	K1005525-030	Manganese	68.4	mg/kg	N*	J	8,9
K1005525	SJSH033-CR1B	K1005525-030	Mercury	0.006	mg/kg	J	U	7
K1005525	SJSH035-CR1A-1	K1005525-033	Manganese	280	mg/kg	N*	J	8,9
K1005525	SJSH035-CR1A-2	K1005525-034	Manganese	197	mg/kg	N*	J	8,9
K1005525	SJSH035-CR1B-1	K1005525-035	Manganese	69.1	mg/kg	N*	J	8,9
K1005525	SJSH035-CR1B-1	K1005525-035	Mercury	0.007	mg/kg	J	U	7
K1005525	SJSH035-CR1B-2	K1005525-036	Manganese	102	mg/kg	N*	J	8,9
K1005525	SDFW-910C	K1005525-037	Barium	0.2	ug	J	U	7
K1005525	SDFW-910C	K1005525-037	Chromium	1.72	ug		U	6
K1005525	SDFW-910C	K1005525-037	Cobalt	0.1	ug	J	U	7
K1005525	SDFW-910C	K1005525-037	Magnesium	128	ug		U	6
K1005525	SDFW-910C	K1005525-037	Mercury	0.008	ug	U	UJ	7
K1005525	SDFW-910C	K1005525-037	Zinc	1.4	ug		U	6
K1005697	SJSH008-CR1A	K1005697-001	Manganese	167	mg/kg	N*	J	8,9
K1005697	SJSH009-CR1A	K1005697-002	Manganese	60.6	mg/kg	N*	J	8,9
K1005697	SJSH010-CR1A	K1005697-003	Manganese	196	mg/kg	N*	J	8,9

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1004878	SJNE002-GR1	K1004878-017	Gravel	23.3	percent		J	9
K1004878	SJNE002-GR1	K1004878-017DUP	Gravel	3.93	percent		J	9
K1004878	SJNE002-GR1	K1004878-017TPL	Gravel	6.78	percent		J	9
K1005028	SJNE049-GR1	K1005028-014	Clay	22.1	percent		J	9
K1005028	SJNE049-GR1	K1005028-014	Silt	63.7	percent		J	9
K1005028	SJNE049-GR1	K1005028-014DUP	Clay	38.1	percent		J	9
K1005028	SJNE049-GR1	K1005028-014DUP	Silt	44.6	percent		J	9
K1005028	SJNE049-GR1	K1005028-014TPL	Clay	42.9	percent		J	9
K1005028	SJNE049-GR1	K1005028-014TPL	Silt	47.8	percent		J	9
K1005237	SJNE008-CR1B	K1005237-011	Gravel	21.4	percent		J	9
K1005237	SJNE008-CR1B	K1005237-011	Very coarse sand	17.3	percent		J	9
K1005237	SJNE008-CR1B	K1005237-011DUP	Gravel	42.2	percent		J	9
K1005237	SJNE008-CR1B	K1005237-011DUP	Very coarse sand	8.19	percent		J	9
K1005237	SJNE008-CR1B	K1005237-011TPL	Gravel	43	percent		J	9
K1005237	SJNE008-CR1B	K1005237-011TPL	Very coarse sand	15.9	percent		J	9
K1005237	SJNE026-CR1G	K1005237-029	Clay	19.2	percent		J	9
K1005237	SJNE026-CR1G	K1005237-029	Coarse sand	6.27	percent		J	9
K1005237	SJNE026-CR1G	K1005237-029	Gravel	8.67	percent		J	9
K1005237	SJNE026-CR1G	K1005237-029	Very coarse sand	10.9	percent		J	9
K1005237	SJNE026-CR1G	K1005237-029DUP	Clay	8.88	percent		J	9
K1005237	SJNE026-CR1G	K1005237-029DUP	Coarse sand	3.72	percent		J	9
K1005237	SJNE026-CR1G	K1005237-029DUP	Gravel	36	percent		J	9
K1005237	SJNE026-CR1G	K1005237-029DUP	Very coarse sand	5.04	percent		J	9
K1005237	SJNE026-CR1G	K1005237-029TPL	Clay	10.1	percent		J	9
K1005237	SJNE026-CR1G	K1005237-029TPL	Coarse sand	3.55	percent		J	9
K1005237	SJNE026-CR1G	K1005237-029TPL	Gravel	26.1	percent		J	9
K1005237	SJNE026-CR1G	K1005237-029TPL	Silt	13.8	percent		J	9
K1005281	SJNE023-CR1A	K1005281-001	Gravel	0	percent		J	9
K1005281	SJNE023-CR1A	K1005281-001DUP	Gravel	10.8	percent		J	9
K1005281	SJNE023-CR1A	K1005281-001TPL	Gravel	6.45	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011	Clay	30.5	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011	Coarse sand	1.35	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011	Fine Sand	37.2	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011	Med. Sand	13	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011	Silt	3.77	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011	Very fine sand	14.7	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011DUP	Clay	14.7	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011DUP	Coarse sand	14.4	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011DUP	Fine Sand	17.2	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011DUP	Med. Sand	28.2	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011DUP	Silt	6.75	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011DUP	Very fine sand	6.52	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011TPL	Clay	19.8	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011TPL	Fine Sand	34.1	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011TPL	Med. Sand	8.84	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011TPL	Silt	22.2	percent		J	9
K1005282	SJNE030-CR1A	K1005282-011TPL	Very fine sand	15.5	percent		J	9
K1005353	SJGB013 S4	K1005353-004	Fine Sand	12.4	percent		J	9

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SDG	Sample ID	Lab ID	Analyte	Value	Units	Lab Qualifier	Validation Qualifier	Validation Reason
K1005353	SJGB013 S4	K1005353-004DUP	Fine Sand	7.03	percent		J	9
K1005353	SJGB013 S4	K1005353-004TPL	Fine Sand	10.5	percent		J	9
K1005523	SJSH014-CR1B-1	K1005523-015	Organic carbon	0.434	percent		J	1
K1005523	SJSH014-CR1B-1	K1005523-015DUP	Organic carbon	0.47	percent		J	1
K1005523	SJSH014-CR1B-1	K1005523-015QUAD	Organic carbon	0.463	percent		J	1
K1005523	SJSH014-CR1B-1	K1005523-015TPL	Organic carbon	0.463	percent		J	1
K1005525	SJSH025-CR1A-2	K1005525-009DUP	Solids	79.6	percent		J	1

EcoChem, INC.
Environmental Data Quality

APPENDIX C
COMMUNICATION RECORDS

Jim Hall

From: Melissa Swanson
Sent: Friday, June 11, 2010 11:46 AM
To: Jim Hall
Subject: FW: COCs for K1005009
Attachments: e500 coc pdf; e514 coc pdf

Jim,

Please print this email, flag as communication, and submit with your worksheets.

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Darren Biles [mailto:dbiles@caslab.com]
Sent: Friday, June 11, 2010 11:43 AM
To: Melissa Swanson
Cc: Greg Salata
Subject: RE: COCs for K1005009

Hi Melissa,
Attached are the referenced COCs.

Regards,

Darren Biles
HRGC/HRMS/Project Chemist

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
713-266-1599 (office)
281-994-2954 (direct)
www.caslab.com

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 x3376 (office)
360-636-1068 (FAX)
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From: Melissa Swanscn [mailto:mswanson@ecochem.net]
Sent: Thursday, June 03, 2010 1:47 PM
To: Craig Hutchings; Greg Salata
Subject: COCs for K1005009

Hi Craig & Greg,

We are missing COCs and sample receipt logs for 4 samples in SDG K1005009. The samples were collected on May 10-11 and received by CAS on May 12-13. The samples in question are:

SJBG-013-S1
SJBG-015-S1
SJGB-016-S1 (also does this sample have a typo the GB are reversed relative to the other samples.)
SJBG-017-S1

A .pdf of the associated COC and sample receipt forms would be sufficient.

Thanks,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave. Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Friday, June 11, 2010 12:58 PM
To: Greg Salata
Cc: Amanda Juell; Craig Hutchings; Anita Sheldon; Darren Biles
Subject: RE: COCs for K1005009

Hi Greg,

Is someone else following up on this? Any progress?

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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or otherwise disseminating it. Please notify sender that you received this communication in error.

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Saturday, June 05, 2010 1:33 PM
To: Melissa Swanson
Cc: ajuell@kelso.caslab.com; Craig Hutchings; Anita Sheldon; Darren Biles; Greg Salata
Subject: RE: COCs for K1005009

Melissa,
I'm looking for these COCs. They should have been in the report, so they are either mis-filed or there was a problem with the scan (two pages stuck together). If we can't get this resolved in Kelso I'll get replicate copies sent from Houston.

Greg

Please note that I will be out of the office June 18.

Gregory Salata, Ph.D.

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number:

Date: 5/10/10
Project Name: San Jacinto Waste Pits
Project Number: 090557-01
Project Manager: David Keith
Phone Number: 228.818.9626
Shipment Method:

ANCHOR QEA

Test Parameters

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Atterberg Limits	Moisture Content (D2216)	Grainsize	Specific Gravity	Consolidation	CuTriax	Sediment Permeability	Dioxin/Furans	PCB Congeners	PCB Aroclors	SVOCs	Metals	TOC	Total Solids (160.3)	Bis-2-ethylhexyl phthalate	Archive	VOCs				Comments/Preservation
1	SJGB0 14-S2	5/10/10 1015	SED	7								X	X			X	X	X	X	X	X				Hold VOCs
2	SJGB0 14-S3	1030		6								X	X			X	X	X	X	X	X				↓
3	SJGB0 14-S4	1035		1								X	X			X	X	X	X						Dioxins 1", Hg 2"
~~4~~	~~SJGB0 14-S5~~	~~1140~~		~~1~~															5/10/10						
5	SJGB0 14-S6	1150		6								X	X			X	X	X	X	X	X				Hold VOCs
6	SJGB0 16-S1	1210		6								X	X			X	X	X	X	X	X				
7	SJGB0 16-S2	1230		4								X	X			X	X	X	X	X	X				
8	SJGB0 16-S4	1400		7								X	X			X	X	X	X	X	X				
9	SJGB0 16-S5	1410		6								X	X			X	X	X	X	X	X				
10	SJGB0 15-S1	1515		6								X	X			X	X	X	X	X	X				
11	SJGB0 15-S2	1525		5								X	X			X	X	X	X		X				
12	SJGB0 15-S3	1540		2								X	X			X	X	X	X						
13	SJGB0 15-S4	1610		1								X	X			X	X	X	X						↓ Dioxins 1", Hg 2"
14	~~SJGB0~~ TBS-051010	5/7/10 —																			X				Hold
15	SJGB0																								

Notes:

Added per [illegible] on 5/12/10

Relinquished By	Company	Received By	Company
Wesley McDonald WES MACDONALD	Anchor QEA, LLC 5/11/10 0620	[illegible] Lonestar	Lonestar 5/11/10 620
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time
Relinquished By	Company	Received By	Company CAS Hockley
		[illegible]	5/11/10 [illegible]
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Hand delivered

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original. [illegible]

Page ___ of ___

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number:

Date: 5/11/10
Project Name: San Jacinto Waste Pits
Project Number: 090557-01
Project Manager: David Keith
Phone Number: 228.818.9626
Shipment Method:

ANCHOR QEA

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Test Parameters: Atterberg Limits	Moisture Content (D2216)	Grainsize	Specific Gravity	Consolidation	CuTriax	Sediment Permeability	Dioxin/Furans	PCB Congeners	PCB Aroclors	SVOCs	Metals	TOC	Total Solids (160.3)	Bis-2-ethylhexyl phthalate	Archive	VOCs				Comments/Preservation
1	SJGB0 17-S1	5/11/10 0850	SED	7			X					X	X			X	X	X	X	X	X				Hold VOCs
2	SJGB0 17-S2	0845		7			X					X	X			X	X	X	X	X	X				↓
3	SJGB0 17-S3	0900		2			X					X	X			X	X	X	X						Dioxins 1st, Hg 2nd
4	SJGB0 17-S4	0915		2			X					X	X			X	X	X	X						↓
5	SJGB0 13-S1	1045		5			X					X	X			X	X	X	X		X				Hold VOCs
6	SJGB0 13-S2	1100		6			X					X	X			X	X	X	X		X				↓
7	SJGB0 13-S3	1150		5			X					X	X			X	X	X	X		X				Dioxins 1st, Hg 2nd
8	SJGB0 13-S5	1230	↓	1								X	X			X	X	X	X						Hold
9	~~SJGB0~~ TB6-05/10	5/7/10 —	W	2																	X				
10	SJGB0																								
11	SJGB0																								
12	SJGB0																								
13	SJGB0																								
14	SJGB0																								
15	SJGB0																								

Notes: * Do not use grainsize jar for chemistry analyses.

Relinquished By	Company	Received By	Company
D. Peterson	Anchor QEA, LLC	Neil Hesthorne	BESI
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time
5/11/10 1730		5-11-10 1730	
N. Hesthorne	BESI	Duncan Biles	CAS
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time
5-11-10 1832		5/11/10 18 32	

3°C

no seals

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

Melissa Swanson

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Tuesday, June 22, 2010 8:59 AM
To: Melissa Swanson
Cc: Greg Salata; Darren Biles
Subject: RE: K1005253
Attachments: RE Sample SJNE036-GR1.htm

Melissa,
Thanks for following up on this. Please be sure to document all of your communications in the DV file. Also, attached is my email requesting the change for the file.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Tuesday, June 22, 2010 8:22 AM
To: Darren Biles; Greg Salata
Cc: Craig Hutchings
Subject: RE: K1005253

Hi Greg & Darren,

There was no indication in the data package that the client had requested the ID be changed. In the past I have seen emails with these requests submitted as part of the case narrative. Without that there is no way for us, as validators, to know what's going on beyond 'hmm, why'd the lab do that, it doesn't match the COC?'. In future please include these client requests in the case narrative.

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 550 Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Darren Biles [mailto:dbiles@caslab.com]
Sent: Tuesday, June 22, 2010 8:10 AM
To: Greg Salata
Cc: Melissa Swanson; Craig Hutchings
Subject: RE: K1005253

Here you go. The ID for sample SJNE-036-GR1 was changed to SNJE-025-GR1 as per client's request.

Darren Biles
HRGC/HRMS/Project Chemist

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
713-266-1599 (office)
281-994-2954 (direct)
www.caslab.com

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From: Greg Salata
Sent: Tuesday, June 22, 2010 9:26 AM
To: Darren Biles
Cc: Melissa Swanson; Craig Hutchings
Subject: RE: K1005253

Darren,
I've reviewed our records and I can't find the COC for the sample listed below. Can you forward me a copy of this?

Greg

Please note that I will be out of the office July 6-13.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
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360-577-7222 x3376 (office)
360-636-1068 (FAX)
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, June 17, 2010 9:05 AM
To: Greg Salata; Craig Hutchings
Subject: FW: K1005253

Hi Greg & Craig.

Still missing a page of COC. Please see below.

Melissa

From: Jim Hall
Sent: Thursday, June 17, 2010 9:00 AM
To: Melissa Swanson
Subject: RE: K1005253

I've looked through all the attached pdfs and I can't find the COC for sample K1005253-010 SJNE-025-GR1. The data package says it was collected on 5/12/10 and rec'd on 5/14/10.

From: Joss Moore
Sent: Wednesday, May 19, 2010 7:50 AM
To: Craig Hutchings
Subject: RE: Sample SJNE036-GR1

The SJNE-036 collected on 5/12/10 at 1301 should be labeled as SJNE-025 for all analyses. The SJNE-036 collected 5/14/10 is ir fact 036.

From: Craig Hutchings
Sent: Tuesday, May 18, 2010 5:45 PM
To: Joss Moore
Subject: RE: Sample SJNE036-GR1

Joss,
It is on both COCs. Can you check the field cruise log?
Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Joss Moore
Sent: Tuesday, May 18, 2010 11:18 AM
To: Craig Hutchings
Subject: RE: Sample SJNE036-GR1

Ha, looks like an impromptu field rep to me, let me know how the second chain looks and then check our filed cruise log.

From: Craig Hutchings
Sent: Monday, May 17, 2010 7:18 PM
To: Joss Moore
Subject: Sample SJNE036-GR1

Joss,
Can you check the COCs for SJRWP for sample SJNE036-GR1. CAS has it logged in twice, once collected on 5/12 and once on 5/14. The ID is correct on the 5/14 COC but I haven't gotten a copy of the 5/12 COC from CAS yet.
Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

Jim Hall

From: Melissa Swanson
Sent: Tuesday, June 22, 2010 8:12 AM
To: Jim Hall
Subject: FW: K1005253
Attachments: coc.pdf

that missing COC ...

From: Darren Biles [mailto:dbiles@caslab.com]
Sent: Tuesday, June 22, 2010 8:10 AM
To: Greg Salata
Cc: Melissa Swanson; Craig Hutchings
Subject: RE: K1005253

Here you go. The ID for sample SJNE-036-GR1 was changed to SNJE-025-GR1 as per client's request.

Darren Biles
HRGC/HRMS/Project Chemist

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
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From: Greg Salata
Sent: Tuesday, June 22, 2010 9:26 AM
To: Darren Biles
Cc: Melissa Swanson; Craig Hutchings
Subject: RE: K1005253

Darren,
I've reviewed our records and I can't find the COC for the sample listed below. Can you forward me a copy of this?

Greg

Please note that I will be out of the office July 6-13.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
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Kelso, WA 98626
360-577-7222 x3376 (office)
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, June 17, 2010 9:05 AM
To: Greg Salata; Craig Hutchings
Subject: FW: K1005253

Hi Greg & Craig.

Still missing a page of COC. Please see below.

Melissa

From: Jim Hall
Sent: Thursday, June 17, 2010 9:00 AM
To: Melissa Swanson
Subject: RE: K1005253

I've looked through all the attached pdfs and I can't find the COC for sample K1005253-010 SJNE-025-GR1. The data package says it was collected on 5/12/10 and rec'd on 5/14/10

Jim Hall

From: Melissa Swanson
Sent: Tuesday, June 15, 2010 10:55 AM
To: Jim Hal
Subject: FW: K1005253
Attachments: COC K1004878.pdf; COC K1005012.pdf; COC K1005028.pdf; COC K1005028 rev.pdf; COC K1004825.pdf

---

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Tuesday, June 15, 2010 10:52 AM
To: Melissa Swanson; Craig Hutchings
Subject: RE: K1005253

Melissa,
Here are the origina COCs

Greg

Please note that I will be out of the office June 18

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 x3376 (office)
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Tuesday, June 15, 2010 10:29 AM
To: Melissa Swanson; Greg Salata; Craig Hutchings
Subject: RE: K1005253

Hi Greg,

Just to follow up on your phone message ... Great to hear all the samples were within temp control limits. You said the COCs were with the initial service orders into which the samples had been received. Could you scan and email me a .pdf of those COCs? We have not received those other data packages yet.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. '02 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Melissa Swanson
Sent: Tuesday, June 15, 2010 8:24 AM
To: Greg Salata; 'Craig Hutchings'
Subject: K1005253

Hi Greg,

We are missing COCs from this SDG. There were 43 samples in this data packages and some were received by CAS outside of temp control limits. Is it possible to identify which samples came in the temp outlier cooler so we don't need to qualify any more samples than is absolutely necessary?

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. '02 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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or otherwise disseminating it. Please notify sender that you received this communication in error.

Melissa Swanson

From: Darren Biles [dbiles@caslab.com]
Sent: Tuesday, June 22, 2010 8:31 AM
To: Melissa Swanson; Greg Salata
Cc: Craig Hutchings
Subject: RE: K1005253

Melissa,
I apologize for the :onfusion. We will make sure client requests like these are included in the case narrative.

Regards,

Darren Biles
HRGC/HRMS/Project Chemist

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
713-266-1599 (office)
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Tuesday, June 22, 2010 10:22 AM
To: Darren Biles; Greg Salata
Cc: Craig Hutchings
Subject: RE: K1005253

Hi Greg & Darren,

There was no indication in the data package that the client had requested the ID be changed. In the past I have seen emails with these requests submitted as part of the case narrative. Without that there is no way for us, as validators, to know what's going on beyond 'hmm, why'd the lab do that, it doesn't match the COC?'. In future please include these client requests in the case narrative.

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660 Seattle, WA 98104
DIRECT 206.233.9332 ext. 102 • FAX 206.233.0114
EMAIL mswanson@ecochem.net

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From: Darren Biles [mailto:dbiles@caslab.com]
Sent: Tuesday, June 22, 2010 8:10 AM
To: Greg Salata
Cc: Melissa Swanson; Craig Hutchings
Subject: RE: K1005253

Here you go. The ID for sample SJNE-036-GR1 was changed to SNJE-025-GR1 as per client's request.

Darren Biles
HRGC/HRMS/Project Chemist

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
713-266-1599 (office)
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From: Greg Salata
Sent: Tuesday, June 22, 2010 9:26 AM
To: Darren Biles
Cc: Melissa Swanson; Craig Hutchings
Subject: RE: K1005253

Darren,
I've reviewed our records and I can't find the COC for the sample listed below. Can you forward me a copy of this?

Greg

Please note that I will be out of the office July 6-13.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 x3376 (office)
360-636-1068 (FAX)
www.caslab.com

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, June 17, 2010 9:05 AM
To: Greg Salata; Craig Hutchings
Subject: FW: K1005253

Hi Greg & Craig,

Still missing a page of COC. Please see below.

Melissa

From: Jim Hall
Sent: Thursday, June 17, 2010 9:00 AM
To: Melissa Swanson
Subject: RE: K1005253

I've looked through all the attached pdfs and I can't find the COC for sample K1005253-010 SJNE-025-GR1. The data package says it was collected on 5/12/10 and rec'd on 5/14/10.

From: Craig Hutchings
Sent: Wednesday, May 19, 2010 9:45 AM
To: 'Greg Salata'; 'Darren Biles'
Subject: Sample E1000516-010 / K1004878-010

Greg and Darren,
The sample labeled "SJNE-038-GR1" collected on 5/12/2010 should be labeled "SJNE-025-GR1" for all analyses. This sample was logged in as E1000516-010 and K1004878-010.
Please make this change in you LIMS and on the COC.
Thank you.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Joss Moore
Sent: Wednesday, May 19, 2010 7:50 AM
To: Craig Hutchings
Subject: RE: Sample SJNE036-GR1

The SJNE-036 collected on 5/12/10 at 1301 should be labeled as SJNE-025 for all analyses. The SJNE-036 collected 5/14/10 is in fact 036.

From: Craig Hutchings
Sent: Tuesday, May 18, 2010 5:45 PM
To: Joss Moore
Subject: RE: Sample SJNE036-GR1

Joss,
It is on both COCs. Can you check the field cruise log?
Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Joss Moore
Sent: Tuesday, May 18, 2010 11:18 AM
To: Craig Hutchings
Subject: RE: Sample SJNE036-GR1

Ha, looks like an impromptu field rep to me, let me know how the second chain looks and then check our filed cruise log.

From: Craig Hutchings
Sent: Monday, May 17, 2010 7:18 PM
To: Joss Moore
Subject: Sample SJNE036-GR1

Joss,
Can you check the COCs for SJRWP for sample SJNE036-GR1. CAS has it logged in twice, once collected on 5/12 and once on 5/14. The ID is correct on the 5/14 COC but I haven't gotten a copy of the 5/12 COC from CAS yet.
Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

dorothy kerlin

From: Melissa Swanson
Sent: Monday, August 09, 2010 2:07 PM
To: dorothy kerlin
Subject: FW: SJWP, K1005028, SVOC-short list, Surrogate issue
Attachments: S011000384_1008091358000.pdf

please include email train, no need to print all the pages of the attachment.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext 102 • FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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or otherwise disseminating it. Please notify sender that you received this communication in error.

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Monday, August 09, 2010 2:05 PM
To: Melissa Swanson
Cc: Craig Hutchings
Subject: RE: SJWP, K1005028, SVOC-short list, Surrogate issue

Updated.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Monday, August 09, 2010 9:49 AM
To: Greg Salata
Cc: Craig Hutchings
Subject: RE: SJWP, K1005028, SVOC-short list, Surrogate issue

Thanks!

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Monday, August 09, 2010 9:46 AM
To: Melissa Swanson
Cc: Craig Hutchings
Subject: RE: SJWP, K1005028, SVOC-short list, Surrogate issue

Melissa,
They reported the wrong list and in my haste to get it reported I didn't check it before it went out. They are regenerating the report with the correct list now.

Greg

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Monday, August 09, 2010 8:53 AM
To: Greg Salata
Cc: Craig Hutchings
Subject: RE: SJWP, K1005028, SVOC-short list, Surrogate issue

Hi Greg,

Did Craig tell you of our problems last Fri, a fire in the electrical vault in the basement, no power all day Fri. We are back online, power on, servers up again.

Had you emailed the resub for this package?

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660 Seattle, WA 98104
DIRECT: 206.233.9332 ext.102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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or otherwise disseminating it. Please notify sender that you received this communication in error.

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Thursday, August 05, 2010 3:27 PM

To: Melissa Swanson
Subject: RE: SJWP, K1005028, SVOC-short list, Surrogate issue

I'm writing the report up right now. You'll have it in the morning.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, August 05, 2010 3:16 PM
To: Greg Salata; Craig Hutchings
Subject: RE: SJWP, K1005028, SVOC-short list, Surrogate issue

Hi Greg,

Do you have an idea when we can anticipate this data?

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660 Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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or otherwise disseminating it. Please notify sender that you received this communication in error.

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Tuesday, August 03, 2010 12:54 PM
To: Craig Hutchings; Melissa Swanson
Subject: RE: SJWP, K1005028, SVOC-short list, Surrogate issue

Will do.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 x3376 (office)
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From: Craig Hutchings [mailto:chutchings@integral-corp.com]
Sent: Tuesday, August 03, 2010 12:44 PM
To: Greg Salata; Melissa Swanson
Subject: RE: SJWP, K1005028, SVOC-short list, Surrogate issue

Greg,

Surrogate recoveries <10% are cause to reject data, while analyses outside of holding time generally only result in estimated data. Please submit a PDF of the re-extrcted sample data and associated QC to myself and EcoChem for review as estimated data is far preferable to rejected data.

Thanks.

Craig Hutchings | Scientist

Integral Consulting Inc. | www.integral-corp.com

1205 West Bay Drive NW | Olympia, WA 98502

Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Greg Salata [mailto:gsalata@caslab.com]

Sent: Tuesday, August 03, 2010 12:23 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP, K1005028, SVOC-short list, Surrogate issue

Melissa,

In instances where we are using the data to confirm that the failure was isolated to the surrogates, we typically don't include the data from the out-of-hold analysis. The data is flagged to indicate the failure, and the situation is narrated. If you need the raw data I'll see what we have that is reviewed and presentable and forward this to you. Let me know.

Greg

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Tuesday, August 03, 2010 8:09 AM
To: Greg Salata; Craig Hutchings
Subject: SJWP, K1005028, SVOC-short list, Surrogate issue

Greg,

Could you look into the issue below, please? A .pdf resubmission is sufficient, no need to follow with a hard copy.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660 Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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Sent: Monday, August 02, 2010 4:16 PM
To: Melissa Swanson
Subject: SJWP, K10C5028, SVOC-short list, Surrogate issue

Melissa,

The 06/09/10 SVOC short list analysis surrogate recoveries were outside the control limits for sample SJNE-062-GR1-2. All were less than the control limits and two were less than 10%. In the case narrative, the laboratory stated that sample was re-extracted and re-analyzed outside of the holding time and the surrogate recoveries were within control. The re-extract data was not included in the data package provided. Could the laboratory please provide the data for the re-extract?

Thank you,

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Integral Consulting, Incorporated	**Service Request:**	K1005028
Project:	San Jacinto Waste Pits/C643 0901	**Date Collected:**	05/13/2010
Sample Matrix:	Sediment	**Date Received:**	05/15/2010

Semi-Volatile Organic Compounds by GC/MS

Sample Name:	SJNE-062-GR1-2	**Units:**	mg/Kg
Lab Code:	K1005028-005	**Basis:**	Dry
Extraction Method:	EPA 3541	**Level:**	Low
Analysis Method:	8270C		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phenol	ND	U	0.33	0.020	1	06/11/10	06/29/10	KWG1005894	*
Naphthalene	ND	U	0.33	0.015	1	06/11/10	06/29/10	KWG1005894	*
2,4-Dichlorophenol	ND	U	0.33	0.017	1	06/11/10	06/29/10	KWG1005894	*
2,4,6-Trichlorophenol	ND	U	0.33	0.015	1	06/11/10	06/29/10	KWG1005894	*
2,4,5-Trichlorophenol	ND	U	0.33	0.018	1	06/11/10	06/29/10	KWG1005894	*
2,6-Dinitrotoluene	ND	U	0.33	0.016	1	06/11/10	06/29/10	KWG1005894	*
Acenaphthene	ND	U	0.33	0.014	1	06/11/10	06/29/10	KWG1005894	*
2,4-Dinitrotoluene	ND	U	0.33	0.015	1	06/11/10	06/29/10	KWG1005894	*
2,3,4,6-Tetrachlorophenol	ND	U	1.0	0.046	1	06/11/10	06/29/10	KWG1005894	*
Fluorene	ND	U	0.33	0.013	1	06/11/10	06/29/10	KWG1005894	*
Hexachlorobenzene	ND	U	0.33	0.015	1	06/11/10	06/29/10	KWG1005894	*
Pentachlorophenol	ND	U	2.0	0.13	1	06/11/10	06/29/10	KWG1005894	*
Phenanthrene	ND	U	0.33	0.010	1	06/11/10	06/29/10	KWG1005894	*
Carbazole	ND	U	0.33	0.012	1	06/11/10	06/29/10	KWG1005894	*
Bis(2-ethylhexyl) Phthalate	ND	U	0.33	0.019	1	06/11/10	06/29/10	KWG1005894	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Phenol-d6	77	23-90	06/29/10	Acceptable
2-Fluorobiphenyl	77	32-104	06/29/10	Acceptable
2,4,6-Tribromophenol	82	20-123	06/29/10	Acceptable
Terphenyl-d14	90	37-133	06/29/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Integral Consulting, Incorporated
Project: San Jacinto Waste Pits/C643 0901
Sample Matrix: Sediment

Service Request: K1005028

Surrogate Recovery Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 1541
Analysis Method: 8270C

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1		Sur2		Sur3	Sur4
SJNE-062-GR1-2	K1005028-003	77		77		82	90
Method Blank	KWG1005894-5	80		86		89	93
SJNE-062-GR1-2MS	KWG1005894-1	92	*	106	*	96	118
SJNE-062-GR1-2DMS	KWG1005894-2	92	*	87		90	109
Lab Control Sample	KWG1005894-3	81		88		113	98
Duplicate Lab Control Sample	KWG1005894-4	80		82		116	96

Surrogate Recovery Control Limits (%)

Sur1 = Phenol-d6	23-90
Sur2 = 2-Fluorobiphenyl	32-104
Sur3 = 2,4,6-Tribromophenol	20-123
Sur4 = Terphenyl-d14	37-133

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

Greg Salata

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Wednesday, May 26, 2010 3:03 PM
To: Greg Salata
Subject: RE: San Jacinto Sample Receipt Forms
Attachments: Cancel Analyses on San Jacinto Samples recieved outside temperature limits

Greg,
Here you go.
K1005175, K1005028: Pradeep sent these to me on Friday and I reviewed them then. Note one change below to K1005175.

K1005021, K1005237, K1005028, K1005235, k1005253, K1005281, & K1005282 are good.

K1005175: Add TOC, 6010/6020 metals, 7471 Hg, grain size, 8270 BEHP only, and PCDD/F to SJSH040-CR1A-2 (K1005175-012). This means an aliquot will need to be sent to Houston.

K1005106: Add 72 hour TAT VOCs to SJGB-004-GR1 (K1005106-004), SJSH-061-GR1 (K1005106-005), SJSH-060-GR1 (K1005106-006) & SJSH-059-GR1 (K1005106-007). Analyses for SJSH-064-GR1, SJSH064-GR2, SJSH063-GR1, SJSH062-GR1, SJGB-005-GR1, SJGB-007-GR2, SJGB-008-GR1, SJSH-058-GR1, SJSH057-GR1, and SJSJ-056-GR1 were canceled on 5/21 in the attached email.

K1005262: I would have canceled all samples except SJVS001-GR1, but it's too late for that now.

K1005263: Cancel all samples except SJVS001-GR1.

K1005283: I would have canceled all samples except SJVS016-GR1, but again it's too late for that now

K1005284: Cancel all analyses except SJVS016-GR1

That hit some of the samples that I requested rush VOCs on, but the samples below were not in those SDG and should have either arrived at Kelso already or should be arriving tomorrow.
SJGB005-GR1
SJGB007-GR1
SJGB008-GR1
SJNE001-GR1
SJNE004-GR1
SJNE005-GR1
SJNE050-GR1
SJNE066-GR1
SJNE067-GR1
SJNE069-GR1
SJNE070-GR1
SJSH056-GR1
SJSH057-GR1
SJSH058-GR1
SJSH062-GR1
SJSH063-GR1
SJSH064-GR1
SJSH064-GR1

Thanks, let me know if you have questions.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502

dorothy kerlin

From: Melissa Swanson
Sent: Monday, August 02, 2010 10:41 AM
To: dorothy kerlin
Subject: FW: SJWP, K1005353, COC dispcrepancy

Please include this email in with your worksheets.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660 Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Craig Hutchings [mailto:chutchings@integral-corp.com]
Sent: Monday, August 02, 2010 10:40 AM
To: Melissa Swanson
Subject: RE: SJWP, K1005353, COC dispcrepancy

Melissa,

CAS was correct in their assumption. Thanks for checking. The schedule for all validation this week is great, let me know if there's anything else I can do to speed it along.

Craig Hutchings | Scientist

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Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Monday, August 02, 2010 10:09 AM
To: Craig Hutchings
Subject: RE: SJWP, K1005353, COC dispcrepancy

Craig,

Did the lab make the correct presumption below or do we need to make changes?

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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or otherwise disseminating it. Please notify sender that you received this communication in error.

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Friday, July 30, 2010 10:45 AM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP, K1005353, COC dispcrepancy

Melissa,
The naming wasn't consistent with the rest of the work, so we assumed the "1" had been left out of the sample

ID and added it in during login.

Greg

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, July 29, 2010 1:37 PM
To: Craig Hutchings; Greg Salata
Subject: FW: SJWP, K1005353, COC dispcrepancy

Hi Greg,

Could you look into the sample naming discrepancy below?

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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or otherwise disseminating it. Please notify sender that you received this communication in error.

Sent: Thursday, July 29, 2010 1:34 PM
To: Melissa Swanson
Subject: SJWP, K1005353, COC dispcrepancy

Melissa,

Could the lab please verify the sample ID for K1005353-024?

COC= SJGB07-S5

Raw data= SJGB017 S5

Sample was collected 05/22/10 at 12:45.

Greg Salata

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Monday, June 07, 2010 9:20 AM
To: Greg Salata
Subject: RE: Sample Confirmation from Columbia Analytical Services for San Jacinto Waste Pits (K1005390)

Greg,
I missed these on Saturday, but please take SHSH-052-CR1A (K1005390-006) off of hold and analyzed for metals, Hg, TOC, percent solids, grain size, and BeHP.

Please log SDSW-911C (K1005390-017) for full project list SVOCs.

Please change SJSH049-CR1A for BEHP only instead of full list SVOCs.

Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

-----Original Message-----
From: gsalata@caslab.com [mailto:gsalata@caslab.com]
Sent: Sunday, June 06, 2010 2:17 AM
To: Craig Hutchings
Subject: Sample Confirmation from Columbia Analytical Services for San Jacinto Waste Pits (K1005390)

I've contacted Houston to see if they have refrigerated sample for the Grain Size on -009. I'll let you know Monday what they have available.

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Jim Hall

From: Melissa Swanson
Sent: Wednesday, July 21, 2010 10:52 AM
To: Jim Hall
Subject: FW: CAS; VOCs; K1005422; Lab Resquest
Attachments: K1005106 receipt.pdf

does this do it?

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660 Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 • FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Wednesday, July 21, 2010 10:40 AM
To: Melissa Swanson; Craig Hutchings
Subject: RE: CAS; VOCs; K1005422; Lab Resquest

Melissa,
It looks like these were originally received under K1005106. See attached.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 x3376 (office)
360-636-1068 (FAX)
www.caslab.com

Call me today to save up to 25% on sample shipping.

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Wednesday, July 21, 2010 8:22 AM
To: Greg Salata; Craig Hutchings
Subject: RE: CAS; VOCs; K1005422; Lab Resquest

There were 4 samples that were not cancelled. I presume those were not at room temp, those are the samples we need the sample receipt form for.

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave. Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext 102 • FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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or otherwise disseminating it. Please notify sender that you received this communication in error.

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Wednesday, July 21, 2010 8:19 AM
To: Melissa Swanson; Craig Hutchings
Subject: RE: CAS; VOCs; K1005422; Lab Resquest

The samples were received after three days lost in shipping, so the temperatures were all room temperature. Do you need me to find the cooler receipts for these, or is this sufficient?

Gregory Salata, Ph.D.

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attachments and are hereby notified that any disclosure, copying or distribution of this communication, or the taking of any action based on it, is strictly prohibited. Thank you.

From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Wednesday, July 21, 2010 8:09 AM
To: Greg Salata; Craig Hutchings
Subject: FW: CAS; VOCs; K1005422; Lab Resquest

Hi Greg,

We did get the COCs for this SDG, but I think the sample receipt form fell through the cracks. Given the discussion in the narative about cancelled samples due to temp, it would be beneficial to know what those temps are.

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660 Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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or otherwise disseminating it. Please notify sender that you received this communication in error.

From: Jim Hall
Sent: Friday, July 02, 2010 8:35 AM
To: Melissa Swanson
Subject: CAS; VOCs; K1005422; Lab Resquest

There are no COC's for K1005422 – samples SJGB004-GR1, SJSH059-GR1, SJSH060-GR1, and SJSH061-GR1. The only item included with the case narrative is an email cancelling some analysis on samples received out of temperature.

A Copy of the COC along with the sample receipt form is needed for data validation.

Jim

CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

Columbia Analytical Services™ 19408 Park Row, Ste 320 • Houston, TX 77084 • (713) 266-1599 • FAX (713) 266-0130

DATE 5/17/10 PAGE 2 OF 2

PROJECT NAME San Jacinto Waste Pits
PROJECT # C643-0901
COMPANY/ADDRESS Integral
411 1st Ave S. Ste 350
Seattle WA PHONE 2016230 9600
REPORT TO Jennifer Sampson

ANALYSIS REQUEST

SAMPLE I.D.	DATE	TIME	SAMPLE MATRIX	NUMBER OF CONTAINERS	8290	1613B	1613 TCDD only	1668 WHO	1668 Full List	TOC, metals, moisture, % moisture, Grains, rxn	Grains, rxn	BEHP	All SVOCs + PCB aroclors	PCDD/F	Archive SVOC + PCB aroclors	PCDD/F + PCB aroclors	VOC HOLD	VOC RUSH	Archive			REMARKS
SJSH062-GR1	5/17/10	1620	SED	7						X	X	X		X	X		X		X			
SJSH061-GR1		1530								X	X	X		X	X		X		X			
SJSH060-GR1		1543								X	X	X		X	X		X		X			
SJSH059-GR1		1559								X	X	X		X	X		X		X			
SJSH058-GR1		1620								X	X	X		X	X		X		X			
SJSH057-GR1		1644								X	X	X		X	X		X		X			
SJSH056-GR1		1700								X	X	X		X	X		X		X			

RELINQUISHED BY:	RECEIVED BY:	TURNAROUND REQUIREMENTS (in working days)	DELIVERABLES	INVOICE INFORMATION:	SAMPLE RECEIPT:
Signature: [signature]	Signature: [signature]	RUSH ..... 5 Days	___ I. Analytical Report	P.O #	Opened by:
Printed Name: Sane Sybel	Printed Name: Arthi Kaler	RUSH ..... 10 Days	___ II. Analytical Report + QC	Bill To:	Inspected by:
Firm: 5/18/10 0700	Firm: CAS Houston	STD ..... 15 DAYS	___ IV. Data Validation Report (includes All Raw Data)		Date:
Date/Time: Integral	Date/Time: 5/18/10 [illegible]				Time:

RELINQUISHED BY:	RECEIVED BY:
Signature	Signature
Printed Name	Printed Name
Firm	Firm
Date/Time	Date/Time

SPECIAL INSTRUCTIONS/COMMENTS:
Follow Project Specific analysis for primary + secondary analytes

SAMPLER'S SIGNATURE

DISTRIBUTION: WHITE - return to originator; YELLOW - retained by originator

coc11-09

CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM

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DATE 5/17/10 PAGE 1 OF 2

PROJECT NAME San Jacinto Waste Pits
PROJECT # C643 0901
COMPANY/ADDRESS Integral
411 1st Ave S Ste 550
Seattle WA PHONE 206 230 9600
REPORT TO Jennifer Sampson

ANALYSIS REQUEST

SAMPLE I.D.	DATE	TIME	SAMPLE MATRIX	NUMBER OF CONTAINERS	8290	1613B	1613 TCDD only	1668 WHO	1668 Full List	TOC + metals (Fe, Al, Mn) & conductivity	Grain size	BEHP All SVOCs + PCB aroclors	PCDDF	PCDDF + PCB congeners	Archive SVOCs + PCB aroclors	VOCs HOLD	VOCs RUSH	Archive	REMARKS
SJNE 022-GR1	5/17/10	0923	SED	6						X	X		X				X	X			
SJNE 022-GR3	"	0951	"	6						X	X		X				X	X			
SJNE 022-GR2	"	1010	"	6						X	X		X				X	X			
SJGB004 GR1	"	1200	"	7						X	X	X		X		X	X	X			
SJGB005 GR1	"	1215	"	7						X	X	X		X		X	X	X			
SJGB007 GR1	"	1229	"	7						X	X	X		X		X	X	X			
SJGB008 GR1	"	1249	"	7						X	X	X		X		X	X	X			
SH SJGB006 GR1-1	"	1346	"	7						X	X	X		X		X	X	X			
SH SJGB004 GR1-2	"	1350	"	7						X	X	X		X		X	X	X			
SH SJGB003 GR1	"	1406	"	7						X	X	X		X		X	X	X			

RELINQUISHED BY: Signature: [signature] Printed Name: Jane Sund Firm: Integral Date/Time: 5/18/10 0700

RECEIVED BY: Signature: [signature] Printed Name: Mikalu Hutchings Firm: ASI Date/Time: 5/18/10 1015a

TURNAROUND REQUIREMENTS (in working days)
RUSH ..... 5 Days
RUSH ..... 10 Days
STD ..... 15 DAYS

DELIVERABLES
___ I. Analytical Report
___ II. Analytical Report + QC
___ IV. Data Validation Report (includes All Raw Data)

INVOICE INFORMATION:
P.O.#
Bill To

SAMPLE RECEIPT:
Opened by:
Inspected by:
Date:
Time:

RELINQUISHED BY: Signature / Printed Name / Firm / Date/Time

RECEIVED BY: Signature / Printed Name / Firm / Date/Time

SPECIAL INSTRUCTIONS/COMMENTS:
Follow project specific analysis for primary + secondary analytes

SAMPLER'S SIGNATURE: [signature]

Comments

* "GB" changed to "SJ" per Mikalu Hutchings - Duncan Rils 5/19/10

WHITE - return to originator, YELLOW - retained by originator

ascTI-85

PC Theg

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client / Project: Houston Service Request K10 05106

Received: 5/19/10 Opened: 5/19/10 By: DJ

1. Samples were received via? *Mail* *Fed Ex* (*UPS*) *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (N) N If yes, how many and where? 27
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
14.1	14.2	273		1227X7X2154 0163436	
0.8	1.4	279		1264627	
-0.5	1.4	290		0944840	
-0.6	0.4	291		1610805	

7. Packing material used: *Inserts* (*Baggies*) *Bubble Wrap* *Gel Packs* (*Wet Ice*) *Sleeves* *Other* _____
8. Were custody papers properly filled out (ink, signed, etc)? NA Y (N)(1)
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA (Y) N
10. Were all sample labels complete (i e analysis, preservation, etc)? NA (Y) N
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y (N)(2)
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
13. Were the pH-preserved bottles (*see SOP GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
14. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
15. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time
~~SJGB-005-GR1~~	All bottles	X								
~~SJGB-007-GR1~~	↓	X								
~~SJGB-008-GR1~~		X								

Notes, Discrepancies, & Resolutions: (1) one coc does not have analysis marked.

(2) Did not rec. bottles for ~~SJGB-001-GR1-F~~, ~~SJGB-004-GR1~~, ~~SJGB-003-GR1~~, ~~SJSH-002-GR1~~, SJSH-058-GR1, SJSH-057-GR1, SJSH-056-GR1
* Client revised sample ids to match what we rec'd. SJGB became SJSH
Refer to e-mail sent by Darren / Houston

dorothy kerlin

From: Melissa Swanson
Sent: Friday, July 30, 2010 10:06 AM
To: dorothy kerlin
Subject: FW: SJWP, K1005697, COC, RAW DATA, EDD discrepancy

Dorothy,

Please print this message and include with your worksheets.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660 Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Craig Hutchings [mailto:chutchings@integral-corp.com]
Sent: Friday, July 30, 2010 10:05 AM
To: Melissa Swanson; Greg Salata
Subject: RE: SJWP, K1005697, COC, RAW DATA, EDD discrepancy.

Melissa and Greg,

Don't worry about this one, it is related to the way the data is imported into the database. Since the lab report matches the COC all is well.

Craig Hutchings | Scientist

Integral Consulting Inc. | www.integral-corp.com

1205 West Bay Drive NW | Olympia, WA 98502

Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Friday, July 30, 2010 9:58 AM
To: Greg Salata; Craig Hutchings
Subject: SJWP, K1005697, COC, RAW DATA, EDD discrepancy.

Hi Greg,

Could you look into the following naming discrepancies?

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave. Suite 660 Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 • FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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Sent: Thursday, July 29, 2010 2:40 PM
To: Melissa Swanson
Subject: SJWP, K1005697, COC, RAW DATA, EDD discrepancy.

Melissa,

Could the lab please check the sample IDs for this SDG? The Sample IDs from the raw data, and COC agree but the sample IDs from the EDD printout are different. They were sampled on 06/01/10.

		Sample ID Raw	

Sample	Sample ID COC	Data	Sample ID EDD
K1005697-001	SJSH-008	SJSH-008	SJSH-008-CR1A
K1005697-002	SJSH-009	SJSH-009	SJSH-009-CR1A
K1005697-003	SJSH-010	SJSH-010	SJSH-010-CR1A

lab_pkg	sample_no	labsample	analyte_name	meas_va	units	lab_fla	detection	reportin	validator
K1005697	SJSH008-CR1A	K1005697-001	bis(2-Ethylhexyl)ph	0.066	mg/kg	J	0.019	0.34	
K1005697	SJSH009-CR1A	K1005697-002	bis(2-Ethylhexyl)ph	0.26	mg/kg	J	0.02	0.35	
K1005697	SJSH010-CR1A	K1005697-003	bis(2-Ethylhexyl)ph	0.22	mg/kg	J	0.019	0.33	

Not on COC or Raw Data.

OK per client.

DJK 07.29.10

Jim Hall

From: Melissa Swanson
Sent: Tuesday, July 20, 2010 8:14 AM
To: Jim Hall
Subject: FW: K1004785 MS/DMS issue

Jim,

Please include this email with your worksheets.

Melissa

From: Craig Hutchings [mailto:chutchings@integral-corp.com]
Sent: Thursday, July 15, 2010 3:32 PM
To: Greg Salata; Melissa Swanson
Cc: Chris Wendle
Subject: RE: K1004785 MS/DMS issue

There is no need to re-extract the sample. Pleases just note the MS/MSD results in the data validation report.
Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Thursday, July 15, 2010 3:18 PM
To: Melissa Swanson; Craig Hutchings
Subject: K1004785 MS/DMS issue

Melissa,
The lab has confirmed that there was no Aroclor 1254 in the MS/DMS, but it was definitely in the parent sample. This can occur if the sample, despite being mixed thoroughly, has a "hot spot" of Aroclor 1254 that made it into the sample, but not the aliquots for the MS/DMS. We could re-extract/analyze the sample, but my suspicion is that it would come up ND based on the MS/DMS.

Greg

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
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360-577-7222 x3376 (office)
360-636-1068 (FAX)
www.caslab.com

From: Craig Hutchings
Sent: Wednesday, May 19, 2010 9:45 AM
To: 'Greg Salata'; 'Darren Biles'
Subject: Sample E1000516-010 / K1004878-010

Greg and Darren,
The sample labeled "SJNE-036-GR1" collected on 5/12/2010 should be labeled "SJNE-025-GR1" for all analyses. This sample was logged in as E1000516-010 and K1004878-010.
Please make this change in you LIMS and on the COC.
Thank you.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Joss Moore
Sent: Wednesday, May 19, 2010 7:50 AM
To: Craig Hutchings
Subject: RE: Sample SJNE036-GR1

The SJNE-036 collectec on 5/12/10 at 1301 should be labeled as SJNE-025 for all analyses. The SJNE-036 collected 5/14/10 is in fact 036.

From: Craig Hutchings
Sent: Tuesday, May 18, 2010 5:45 PM
To: Joss Moore
Subject: RE: Sample SJNE036-GR1

Joss,
It is on both COCs. Can you check the field cruise log?
Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Joss Moore
Sent: Tuesday, May 18, 2010 11:18 AM
To: Craig Hutchings
Subject: RE: Sample SJNE036-GR1

Ha, looks like an impromptu field rep to me, let me know how the second chain looks and then check our filed cruise log.

From: Craig Hutchings
Sent: Monday, May 17, 2010 7:18 PM
To: Joss Moore
Subject: Sample SJNE036-GR1

Joss,
Can you check the COCs for SJRWP for sample SJNE036-GR1. CAS has it logged in twice, once collected on 5/12 and once on 5/14. The ID is correct on the 5/14 COC but I haven't gotten a copy of the 5/12 COC from CAS yet.
Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

Melissa Swanson

From: Nicole Brown [nbrown@caslab.com]
Sent: Thursday, July 08, 2010 9:34 AM
To: Melissa Swanson
Subject: RE: E100)500 dioxins

Good morning,

Attached is the amendment Darren Biles created for this report. This includes the dilution for samples -002 anc -003. This file contains everything you need. It might be too large of a file to email. If it fails to go through with this email I will senc it to you via our secure file BDS transfer internet system.

Nicole Brown
Project Chemist

Columbia Analytical Services, Inc.
19408 Park Row Ste. 320
Houston, TX 77084
281-994-2959
www.caslab.com

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, July 08, 2010 11:23 AM
To: Craig Hutchings; Darren Biles
Cc: Nicole Brown
Subject: E1000500 dioxins

Hello all,

From SDG E1000500 I am missing the summary forms and raw data for:

1) the dilution for sample SJGB014-S3 (E1000500-002) of 2378-TCDF result = 1550, initial result 1090 E
2) the dilution for sample SJGB014-S4 (E1000500-003) of 2378-TCDF result = 468, initial result 517 E

Please resubmit as .pdf.
Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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Client:	Anchor Environmental	**Service Request:**	E1000500
Project:	San Jacinto Waste Pits/090557-01	**Date Collected:**	5/10/10 1030
Sample Matrix:	Sediment	**Date Received:**	5/11/10
Sample Name:	SJGB014-S3	**Units:**	ng/Kg
Lab Code:	E1000500-002	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**358**	0.0407	1	1	358
1,2,3,7,8-PeCDD	**3.77**	0.0453	1	1	3.77
1,2,3,4,7,8-HxCDD	**0.196**	0.112	1	0.1	0.0196
1,2,3,6,7,8-HxCDD	**0.721**	0.149	1	0.1	0.0721
1,2,3,7,8,9-HxCDD	**1.27**	0.130	1	0.1	0.127
1,2,3,4,6,7,8-HpCDD	**23.2**	0.253	1	0.01	0.232
OCDD	**539**	0.184	1	0.0003	0.162
2,3,7,8-TCDF	**1550**	2.05	10	0.1	155
1,2,3,7,8-PeCDF	**29.2**	0.0303	1	0.03	0.876
2,3,4,7,8-PeCDF	**23.5**	0.0389	1	0.3	7.05
1,2,3,4,7,8-HxCDF	**44.1**	0.180	1	0.1	4.41
1,2,3,6,7,8-HxCDF	**11.5**	0.192	1	0.1	1.15
1,2,3,7,8,9-HxCDF	**0.434**	0.259	1	0.1	0.0434
2,3,4,6,7,8-HxCDF	**2.20**	0.204	1	0.1	0.220
1,2,3,4,6,7,8-HpCDF	**13.8**	0.170	1	0.01	0.138
1,2,3,4,7,8,9-HpCDF	**4.11**	0.249	1	0.01	0.0411
OCDF	**9.04**	0.131	1	0.0003	0.00271
		Total TEQ			531

2005 WHO TEFs, ND = 0

Comments:

Melissa Swanson

From: Melissa Swanson
Sent: Thursday, July 08, 2010 2:27 PM
To: 'Craig Hutchings'; Darren Biles
Cc: 'Nicole Brown'
Subject: E1000524

Hi Darren,

The case narrative states that the analysis of several samples was canceled by the client. Could you send me a copy of the email with that directive? I think this data package predates the request that that information be included.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave. Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

As Environmental Quality Assurance Specialists, EcoChem, Inc. is dedicated to developing data into reliable and accessible environmental information. Through proper planning and focused QA coordination and oversight, we ensure data of known quality and usability. We prepare specific QA/QC documents and implement data management solutions that accomplish your program needs.

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Melissa Swanson

From: Nicole Brown [nbrown@caslab.com]
Sent: Tuesday, July 13, 2010 6:22 AM
To: Melissa Swanson
Cc: Darren Biles
Subject: RE: SJWP unresolved requests

Melissa,

I apologize for not getting back with you sooner.

The note in the project folder regarding the cancelled samples for E1000524 states: "The noted samples were cancelled because the VOC aliquots were received out of temp in Kelso." (dated 5/13/10)

Apparantly, these were cancelled since they arrived out of temperature.

Feel free to call with any questions or concerns.

Best regards,

Nicole Brown
Project Chemist

Columbia Analytical Services, Inc.
19408 Park Row Ste. 320
Houston, TX 77084
281-994-2959
www.caslab.com

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Monday, July 12, 2010 6:20 PM
To: Greg Salata; Darren Biles
Cc: Craig Hutchings; Nicole Brown; Pradeep Divvela
Subject: SJWP unresolved requests

Hello All,

Attached please find of list of outstanding questions we have put to the lab (both Kelso & Houston). Several items have been outstanding for over a week and are holding up the validation of the data. Can you give me a time frame as to when we might anticipate answers to our questions.

Regards,
Melissa

Melissa Swanson

From: Craig Hutchings
Sent: Tuesday, May 18, 2010 2:54 PM
To: 'Greg Salata'
Cc: Darren Biles
Subject: RE: Temps from missing Integral/San Jacinto coolers...

Greg and Darren,
Please cancel ALL analyses on the samples that were in the missing coolers. This includes the PCDD/Fs and PCB congeners. Integral is planning on resampling.
Please confirm that this is the complete list of samples that arrived outside of the temperature limits:
SJNE001-GR1
SJNE004-GR4
SJNE005-GR1
SJNE063-GR1
SJNE068-GR1
SJNE067-GR1
SJNE066-GR1
SJNE069-GR1
SJNE070-GR1
SJNE050-GR1
SDFW906S

It is very important that this not happen again. Do either of you know what happened to the coolers? I have an email that indicates it may have been due to UPS not being able to read the labels or no labels being on the coolers. Is that the case? Either way please take care in packing all future shipments.

It will be very expensive to recollect the samples and Integral may attempt to recoup these costs.

Craig Hutchings | Scientist
Integral Consulting Inc. www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Tuesday, May 18, 2010 2:11 PM
To: Craig Hutchings
Subject: RE: Temps from missing Integral/San Jacinto coolers...

The handwritten numbers next to the number of containers column. If there is no number, that sample was received today.

Please note that I will be out of the office May 21, 2010.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 x3376 (office)
360-636-1068 (FAX)

www.caslab.com

Call me today to save up to 25% on sample shipping.

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From: Craig Hutchings [mailto:chutchings@integral-corp.com]
Sent: Tuesday, May 18, 2010 2:09 PM
To: Greg Salata
Subject: RE: Temps from missing Integral/San Jacinto coolers...

Do you mean the numbers in the 8290 column?

Craig Hutchings | Scientist
Integral Consulting Inc. www.integral-corp.com
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HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Tuesday, May 18, 2010 2:02 PM
To: Craig Hutchings
Subject: RE: Temps from missing Integral/San Jacinto coolers...

Craig,
The samples with the hand written numbers were received Saturday, with the corresponding numbers of bottles. The rest were received today.

Greg

Please note that I will be out of the office May 21, 2010.

Gregory Salata, Ph.D.

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From: Craig Hutchings [mailto:chutchings@integral-corp.com]
Sent: Tuesday, May 18, 2010 1:58 PM
To: Greg Salata; Darren Biles
Subject: RE: Temps from missing Integral/San Jacinto coolers...

Can you tell me what samples were in the coolers and what analyses?

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Sent: Tuesday, May 18, 2010 1:47 PM
To: Craig Hutchings; Darren Biles
Subject: FW: Temps from missing Integral/San Jacinto coolers...

Here is the cooler information for the missing coolers that showed up today. How should we proceed?

Please note that I will be out of the office May 21, 2010.

Gregory Salata, Ph.D.

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From: John Jones
Sent: Tuesday, May 18, 2010 12:30 PM
To: Greg Salata
Subject: Temps from missing Integral/San Jacinto coolers...

Hi Greg,

We have cooler temps of 16.9 and 16.5, both temperature blanks were received at 17.6.

John Edward Jones
Sample Management Office

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 (office)
360-577-3303 (direct)
jjones@caslab.com
www.caslab.com

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From: Craig Hutchings
Sent: Wednesday, May 19, 2010 9:45 AM
To: 'Greg Salata'; 'Darren Biles'
Subject: Sample E1000516-010 / K1004878-010

Greg and Darren,
The sample labeled "SJNE-036-GR1" collected on 5/12/2010 should be labeled "SJNE-025-GR1" for all analyses. This sample was logged in as E1000516-010 and K1004878-010.
Please make this change in you LIMS and on the COC.
Thank you.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Joss Moore
Sent: Wednesday, May 19, 2010 7:50 AM
To: Craig Hutchings
Subject: RE: Sample SJNE036-GR1

The SJNE-036 collected on 5/12/10 at 1301 should be labeled as SJNE-025 for all analyses. The SJNE-036 collected 5/14/10 is in fact 036.

From: Craig Hutchings
Sent: Tuesday, May 18, 2010 5:45 PM
To: Joss Moore
Subject: RE: Sample SJNE036-GR1

Joss,
It is on both COCs. Can you check the field cruise log?
Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Joss Moore
Sent: Tuesday, May 18, 2010 11:18 AM
To: Craig Hutchings
Subject: RE: Sample SJNE036-GR1

Ha, looks like an impromptu field rep to me, let me know how the second chain looks and then check our filed cruise log.

From: Craig Hutchings
Sent: Monday, May 17, 2010 7:18 PM
To: Joss Moore
Subject: Sample SJNE036-GR1

Joss,
Can you check the COCs for SJRWP for sample SJNE036-GR1. CAS has it logged in twice, once collected on 5/12 and once on 5/14. The ID is correct on the 5/14 COC but I haven't gotten a copy of the 5/12 COC from CAS yet.
Thanks.

Craig Hutchings | Scientist
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1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

Melissa Swanson

From: Nicole Brown [nbrown@caslab.com]
Sent: Thursday, July 08, 2010 9:34 AM
To: Melissa Swanson
Subject: RE: E1000500 dioxins

Good morning,

Attached is the amendment Darren Biles created for this report. This includes the dilution for samples -002 and -003. This file contains everything you need. It might be too large of a file to email. If it fails to go through with this email I will send it to you via our secure file BDS transfer internet system.

Nicole Brown
Project Chemist

Columbia Analytical Services, Inc.
19408 Park Row Ste. 320
Houston, TX 77084
281-994-2959
www.caslab.com

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, July 08, 2010 11:23 AM
To: Craig Hutchings; Darren Biles
Cc: Nicole Brown
Subject: E1000500 dioxins

Hello all,

From SDG E1000500 I am missing the summary forms and raw data for:

1) the dilution for sample SJGB014-S3 (E1000500-002) of 2378-TCDF result = 1550, initial result 1090 E
2) the dilution for sample SJGB014-S4 (E1000500-003) of 2378-TCDF result = 468, initial result 517 E

Please resubmit as .pdf.
Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660 Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

As Environmental Quality Assurance Specialists, EcoChem, Inc. is dedicated to developing data into reliable and accessible environmental information. Through proper planning and focused QA coordination and oversight, we ensure data of known quality and usability. We prepare specific QA/QC documents.

Client:	Anchor Environmental	**Service Request:**	E1000500
Project:	San Jacinto Waste Pits/090557-01	**Date Collected:**	5/10/10 1210
Sample Matrix:	Sediment	**Date Received:**	5/11/10
Sample Name:	SJGB0 6-51	**Units:**	ng/Kg
Lab Code:	E1000500-005	**Basis:**	Dry
Run Type:	Dilution	**Percent Solids:**	57.0

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method:	1668A	**Date Analyzed:**	6/15/10 2211
Prep Method:	Method	**Date Extracted:**	5/13/10
Sample Amount:	6.349g	**Instrument Name:**	E-HRMS-02
		GC Column:	SPB-OCTYL
Data File Name:	U222932	**Blank File Name:**	U222835
ICAL Date:	10/19/09	**Cal Ver. File Name:**	U222927

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 81	ND	U	18.0	6910			10
PCB 77	**154**	J	16.5	6910	0.69	1.000	10
PCB 123	**228**	J	147	6910	1.44	1.000	10
PCB 118	**23000**	B	134	6910	1.56	1.001	10
PCB 114	**395**	JK	136	6910	1.85	1.001	10
PCB 105	**8150**	B	143	2760	1.59	1.000	10
PCB 126	ND	U	121	6910			10
PCB 167	**1410**	J	69.3	6910	1.29	1.001	10
PCBs 156 + 157	**4670**	J	95.3	6910	1.31	1.000	10
PCB 169	ND	U	70.3	6910			10
PCB 189	**389**	J	60.0	6910	1.05	1.001	10

Comments:

Client:	Anchor Environmental	**Service Request:**	E1000500
Project:	San Jacinto Waste Pits/090557-01	**Date Collected:**	5/10/10 1210
Sample Matrix:	Sediment	**Date Received:**	5/11/10
Sample Name:	SJGB0 6-8.1	**Units:**	Percent
Lab Code:	E1000500-005	**Basis:**	Dry
Run Type:	Dilution	**Percent Solids:**	57.0

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method:	1668A	**Date Analyzed:**	6/15/10 2211
Prep Method:	Method	**Date Extracted:**	5/13/10
Sample Amount:	6.349g	**Instrument Name:**	E-HRMS-02
		GC Column:	SPB-OCTYL
Data File Name:	U222932	**Blank File Name:**	U222835
ICAL Date:	10/19/09	**Cal Ver. File Name:**	U222927

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 81L	15300	10598.362	69		25-150	0.77	1.330
PCB 77L	15300	10886.931	71		25-150	0.78	1.352
PCB 123L	11500	9381.815	82		25-150	1.56	1.136
PCB 118L	11200	9574.820	85		25-150	1.60	1.146
PCB 114L	11000	9370.145	85		25-150	1.55	1.162
PCB 105L	10900	9359.845	86		25-150	1.56	1.181
PCB 126L	15300	10712.972	70		25-150	1.60	1.272
PCB 167L	14900	8083.904	54		25-150	1.24	1.070
PCBs 156L + 157L	28600	17581.809	62		25-150	1.28	1.099
PCB 169L	13200	8642.927	66		25-150	1.30	1.175
PCB 189L	17900	9592.575	54		25-150	1.03	0.962
PCB 111L	12000	850.243	7	Y	30-135	1.56	1.078
PCB 178L	15200	808.470	5	Y	30-135	1.00	1.010

Comments:

Melissa Swanson

From: Melissa Swanson
Sent: Thursday, July 08, 2010 2:27 PM
To: 'Craig Hutchings'; Darren Biles
Cc: 'Nicole Brown'
Subject: E1000524

Hi Darren,

The case narrative states that the analysis of several samples was canceled by the client. Could you send me a copy of the email with that directive? I think this data package predates the request that that information be included.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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Melissa Swanson

From: Nicole Brown [nbrown@caslab.com]
Sent: Tuesday, July 13, 2010 6:22 AM
To: Melissa Swanson
Cc: Darren Biles
Subject: RE: SJWP unresolved requests

Melissa,

I apologize for not getting back with you sooner.

The note in the project folder regarding the cancelled samples for E1000524 states: "The noted samples were cancelled because the VOC aliquots were received out of temp in Kelso." (dated 5/18/10)

Apparantly, these were cancelled since they arrived out of temperature.

Feel free to call with any questions or concerns.

Best regards,

Nicole Brown
Project Chemist

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19408 Park Row Ste. 320
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To: Greg Salata; Darren Biles
Cc: Craig Hutchings; Nicole Brown; Pradeep Divvela
Subject: SJWP unresolved requests

Hello All,

Attached please find of list of outstanding questions we have put to the lab (both Kelso & Houston). Several items have been outstanding for over a week and are holding up the validation of the data. Can you give me a time frame as to when we might anticipate answers to our questions.

Regards,
Melissa

Melissa Swanson

From: Craig Hutchings
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Cc: Darren Biles
Subject: RE: Temps from missing Integral/San Jacinto coolers...

Greg and Darren,
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Please confirm that this is the complete list of samples that arrived outside of the temperature limits:
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SJNE068-GR1
SJNE067-GR1
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SDFW906S

It is very important that this not happen again. Do either of you know what happened to the coolers? I have an email that indicates it may have been due to UPS not being able to read the labels or no labels being on the coolers. Is that the case? Either way please take care in packing all future shipments.

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Gregory Salata, Ph.D.

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Craig,
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From: John Jones
Sent: Tuesday, May 18, 2010 12:30 PM
To: Greg Salata
Subject: Temps from missing Integral/San Jacinto coolers...

Hi Greg,

We have cooler temps of 16.9 and 16.5, both temperature blanks were received at 17.6.

John Edward Jones
Sample Management Office

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 (office)
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dorothy kerlin

From: Melissa Swanson
Sent: Tuesday, June 29, 2010 8:20 AM
To: dorothy kerlin
Subject: FW: SJWP metals

From: Craig Hutchings [mailto:chutchings@integral-corp.com]
Sent: Friday, June 25, 2010 12:13 PM
To: Melissa Swanson
Cc: Eric Strout
Subject: RE: SJWP metals

Melissa & Eric,
Antimony screened out of the COPC list, see tables 9, 10, & 11. It was purposely not included in Table 18.

For Mg, do whatever EcoChem would usually do.

I'll send a copy of K1004825 to Eric shortly.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, June 24, 2010 10:08 AM
To: Craig Hutchings
Subject: SJWP metals

Hi Craig,

Antimony was listed in Table 5 (chemicals of interest), but not in Table 18 (Analytes, Conc Goals, etc). If was not included in the Forms 1 or the EDD. Was this analyte removed from the list?

Also, magnesium was not spiked in the matrix spike, it was included in the LCS, so we do have a measure of accuracy. Would you like anything more than a mention of this in the reports?

Still haven't seen the resub .pdf of the BEHP portion of K1004825.

I will be out of the office Fri 6/25 and back in the office Tues 6/29. If resubs will be coming Fri or Mon, please cc Eric.

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave. Suite 660, Seattle, WA 98104

DIRECT: 206.233.9332 ext. 102 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

As Environmental Quality Assurance Specialists, EcoChem, Inc. is dedicated to developing data into reliable and accessible environmental information.
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or otherwise disseminating it. Please notify sender that you received this communication in error.

dorothy kerlin

From: Melissa Swanson
Sent: Wednesday, June 30, 2010 7:32 AM
To: dorothy kerlin
Subject: FW: SJWP TOC SDG K1004830

Does this answer your question about the quad replicates?

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Tuesday, June 29, 2010 1:33 PM
To: Melissa Swanson; Craig Hutchings
Cc: Sydney Hopkins
Subject: RE: SJWP TOC SDG K1004830

Melissa,

We run a "CCV" with 20% carbon urea to check the instrument performance, but no other calibration is done. We also spike samples with a spiking standard for the MS and a purchased LCS to verify analysis. What is the discrepancy you are seeing? If you get me details and page numbers I'll get it checked out on this end.

Greg

Please note that I will be out of the office July 6-13.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 x3376 (office)
360-636-1068 (FAX)
www.caslab.com

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Tuesday, June 29, 2010 12:25 PM
To: Craig Hutchings; Greg Salata
Subject: RE: SJWP TOC SDG K1004830

SDGs K1004785 and K1004825 have discrepancies in the reported values as well.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 • FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Melissa Swanson
Sent: Tuesday, June 29, 2010 10:12 AM
To: 'Craig Hutchings'; 'Greg Salata'
Subject: RE: SJWP TOC SDG K1004830

Hello Greg,

It seems we have no calibration information for any TOC packages. Could you send the calibration data to us as .pdf files please?

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 • FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Melissa Swanson
Sent: Tuesday, June 29, 2010 9:37 AM
To: 'Craig Hutchings'; Greg Salata
Subject: SJWP TOC SDG K1004830

Hello Gentlemen,

Our validator came across the issue listed below. It looks similar to the problem we had in the first go round of SJWP data. The first 4 samples recalc'd properly but the rest didn't. Greg could you look into this please?

" I recalculated the TOC quadruplicate RSDs for this SDG and the recalculated RSDs did not match the reported results for samples K1004830-005 through K1004830-008. In addition, the recalculated RSD results agree with the calculated quad RSDs summarized on the TOC analysis run log. "

Regards,

Melissa

Melissa Swanson
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EMAIL: mswanson@ecochem.net

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or otherwise disseminating it. Please notify sender that you received this communication in error.

dorothy kerlin

From: Melissa Swanson
Sent: Wednesday, June 30, 2010 7:34 AM
To: dorothy kerlin
Subject: FW: SJWP TOC SDG K1004830

I started with the oldest emails and worked up. You should be receiving new TOC data soon-ish.

Please disregard last email. :)

M

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Tuesday, June 29, 2010 4:57 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP TOC SDG K1004830

Melissa,
I missed an e-mail somewhere earlier but figured this out. There was an error in the quadruplicate reporting for the TOC that has been fixed, but we're reviewing all of the San Jacinto data to see what was affected. I'll get you updated pages in the morning. I apologize for the error.

Greg

Please note that I will be out of the office July 6-13.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
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Kelso, WA 98626
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Tuesday, June 29, 2010 12:25 PM
To: Craig Hutchings; Greg Salata
Subject: RE: SJWP TOC SDG K1004830

SDGs K1004785 and K1004825 have discrepancies in the reported values as well.

Regards,

Melissa

Melissa Swanson

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Project Chemist

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From: Melissa Swanson
Sent: Tuesday, June 29, 2010 10:12 AM
To: 'Craig Hutchings'; 'Greg Salata'
Subject: RE: SJWP TOC SDG K1004830

Hello Greg,

It seems we have no calibration information for any TOC packages. Could you send the calibration data to us as .pdf files please?

Regards,

Melissa

Melissa Swanson
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Project Chemist

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From: Melissa Swanson
Sent: Tuesday, June 29, 2010 9:37 AM
To: 'Craig Hutchings'; Greg Salata
Subject: SJWP TOC SDG K1004830

Hello Gentlemen,

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" I recalculated the TOC quadruplicate RSDs for this SDG and the recalculated RSDs did not match the reported results for samples K1004830-005 through K1004830-008. In addition, the recalculated RSD results agree with the calculated quad RSDs summarized on the TOC analysis run log. "

Regards,

Melissa

Melissa Swanson
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lab_pkg	sample_no	labsample	analyte_name	meas_va	units	lab_fla	detection	reporting	validator_
K1004830	SJGB017 S1	K1004830-001	Gravel	0	percent				
K1004830	SJGB017 S1	K1004830-001	Very coarse sand	0.04	percent				
K1004830	SJGB017 S1	K1004830-001	Coarse sand	0.52	percent				
K1004830	SJGB017 S1	K1004830-001	Med. Sand	1.22	percent				
K1004830	SJGB017 S1	K1004830-001	Fine Sand	7.96	percent				
K1004830	SJGB017 S1	K1004830-001	Very fine sand	12.6	percent				
K1004830	SJGB017 S1	K1004830-001	Silt	29	percent				
K1004830	SJGB017 S1	K1004830-001	Clay	38.8	percent				
K1004830	SJGB017 S2	K1004830-002	Gravel	0	percent				
K1004830	SJGB017 S2	K1004830-002	Very coarse sand	0.4	percent				
K1004830	SJGB017 S2	K1004830-002	Coarse sand	2.09	percent				
K1004830	SJGB017 S2	K1004830-002	Med. Sand	1.61	percent				
K1004830	SJGB017 S2	K1004830-002	Fine Sand	6.01	percent				
K1004830	SJGB017 S2	K1004830-002	Very fine sand	10.1	percent				
K1004830	SJGB017 S2	K1004830-002	Silt	34	percent				
K1004830	SJGB017 S2	K1004830-002	Clay	48.6	percent				
K1004830	SJGB017 S3	K1004830-003	Gravel	0	percent				
K1004830	SJGB017 S3	K1004830-003	Very coarse sand	0	percent				
K1004830	SJGB017 S3	K1004830-003	Coarse sand	0.43	percent				
K1004830	SJGB017 S3	K1004830-003	Med. Sand	1.75	percent				
K1004830	SJGB017 S3	K1004830-003	Fine Sand	28.6	percent				
K1004830	SJGB017 S3	K1004830-003	Very fine sand	20.7	percent				
K1004830	SJGB017 S3	K1004830-003	Silt	19.5	percent				
K1004830	SJGB017 S3	K1004830-003	Clay	20.3	percent				
K1004830	SJGB017 S4	K1004830-004	Gravel	0	percent				
K1004830	SJGB017 S4	K1004830-004	Very coarse sand	0.07	percent				
K1004830	SJGB017 S4	K1004830-004	Coarse sand	0.45	percent				
K1004830	SJGB017 S4	K1004830-004	Med. Sand	2.09	percent				
K1004830	SJGB017 S4	K1004830-004	Fine Sand	17.6	percent				
K1004830	SJGB017 S4	K1004830-004	Very fine sand	18.2	percent				
K1004830	SJGB017 S4	K1004830-004	Silt	30.6	percent				
K1004830	SJGB017 S4	K1004830-004	Clay	25.3	percent				
K1004830	SJGB013 S1	K1004830-005	Gravel	0	percent				
K1004830	SJGB013 S1	K1004830-005	Very coarse sand	0.11	percent				
K1004830	SJGB013 S1	K1004830-005	Coarse sand	0.14	percent				
K1004830	SJGB013 S1	K1004830-005	Med. Sand	3.09	percent				
K1004830	SJGB013 S1	K1004830-005	Fine Sand	13.1	percent				
K1004830	SJGB013 S1	K1004830-005	Very fine sand	24.7	percent				
K1004830	SJGB013 S1	K1004830-005	Silt	36.2	percent				
K1004830	SJGB013 S1	K1004830-005	Clay	14.1	percent				
K1004830	SJGB013 S2	K1004830-006	Gravel	0	percent				
K1004830	SJGB013 S2	K1004830-006	Very coarse sand	0.18	percent				
K1004830	SJGB013 S2	K1004830-006	Coarse sand	0.27	percent				
K1004830	SJGB013 S2	K1004830-006	Med. Sand	9.87	percent				
K1004830	SJGB013 S2	K1004830-006	Fine Sand	15.2	percent				
K1004830	SJGB013 S2	K1004830-006	Very fine sand	23.6	percent				
K1004830	SJGB013 S2	K1004830-006	Silt	28	percent				
K1004830	SJGB013 S2	K1004830-006	Clay	15.3	percent				
K1004830	SJGB013 S3	K1004830-007	Gravel	0	percent				
K1004830	SJGB013 S3	K1004830-007	Very coarse sand	0	percent				
K1004830	SJGB013 S3	K1004830-007	Coarse sand	0.47	percent				
K1004830	SJGB013 S3	K1004830-007	Med. Sand	6.59	percent				

DJK 06.24.10

lab_pkg	sample_no	labsample	analyte_name	meas_val	units	lab_fl	detection	reporting	validator
K1004830	SJGB017 S1	K1004830-001	Organic carbon	2.25	percent		0.02	0.05	
K1004830	SJGB017 S1	K1004830-001DUP	Organic carbon	2.33	percent		0.02	0.05	
K1004830	SJGB017 S1	K1004830-001QUAD	Organic carbon	2.33	percent		0.02	0.05	
K1004830	SJGB017 S1	K1004830-001TPL	Organic carbon	2.32	percent		0.02	0.05	
K1004830	SJGB017 S2	K1004830-002	Organic carbon	3.24	percent		0.02	0.05	
K1004830	SJGB017 S2	K1004830-002DUP	Organic carbon	3.27	percent		0.02	0.05	
K1004830	SJGB017 S2	K1004830-002QUAD	Organic carbon	3.27	percent		0.02	0.05	
K1004830	SJGB017 S2	K1004830-002TPL	Organic carbon	3.26	percent		0.02	0.05	
K1004830	SJGB017 S3	K1004830-003	Organic carbon	0.922	percent		0.02	0.05	
K1004830	SJGB017 S3	K1004830-003DUP	Organic carbon	0.88	percent		0.02	0.05	
K1004830	SJGB017 S3	K1004830-003QUAD	Organic carbon	0.87	percent		0.02	0.05	
K1004830	SJGB017 S3	K1004830-003TPL	Organic carbon	0.913	percent		0.02	0.05	
K1004830	SJGB017 S4	K1004830-004	Organic carbon	0.91	percent		0.02	0.05	
K1004830	SJGB017 S4	K1004830-004DUP	Organic carbon	0.927	percent		0.02	0.05	
K1004830	SJGB017 S4	K1004830-004QUAD	Organic carbon	0.895	percent		0.02	0.05	
K1004830	SJGB017 S4	K1004830-004TPL	Organic carbon	0.932	percent		0.02	0.05	
K1004830	SJGB013 S1	K1004830-005	Organic carbon	1.49	percent		0.02	0.05	
K1004830	SJGB013 S1	K1004830-005DUP	Organic carbon	1.72	percent		0.02	0.05	
K1004830	SJGB013 S1	K1004830-005QUAD	Organic carbon	1.52	percent		0.02	0.05	
K1004830	SJGB013 S1	K1004830-005TPL	Organic carbon	1.56	percent		0.02	0.05	
K1004830	SJGB013 S2	K1004830-006	Organic carbon	1.25	percent		0.02	0.05	
K1004830	SJGB013 S2	K1004830-006DUP	Organic carbon	1.27	percent		0.02	0.05	
K1004830	SJGB013 S2	K1004830-006QUAD	Organic carbon	1.39	percent		0.02	0.05	
K1004830	SJGB013 S2	K1004830-006TPL	Organic carbon	1.24	percent		0.02	0.05	
K1004830	SJGB013 S3	K1004830-007	Organic carbon	0.558	percent		0.02	0.05	
K1004830	SJGB013 S3	K1004830-007DUP	Organic carbon	0.649	percent		0.02	0.05	
K1004830	SJGB013 S3	K1004830-007QUAD	Organic carbon	0.569	percent		0.02	0.05	
K1004830	SJGB013 S3	K1004830-007TPL	Organic carbon	0.602	percent		0.02	0.05	
K1004830	SJGB013 S5	K1004830-008	Organic carbon	0.176	percent		0.02	0.05	
K1004830	SJGB013 S5	K1004830-008DUP	Organic carbon	0.161	percent		0.02	0.05	
K1004830	SJGB013 S5	K1004830-008QUAD	Organic carbon	0.17	percent		0.02	0.05	
K1004830	SJGB013 S5	K1004830-008TPL	Organic carbon	0.167	percent		0.02	0.05	

DJK 06.24.10

lab_pkg	sample_no	labsample	analyte_name	meas_va	units	lab_fla	detection	reporting	validator_
K1004830	SJGB017 S1	K1004830-001	Solids	64.2	percen				
K1004830	SJGB017 S1	K1004830-001DUP	Solids	63.6	percen				
K1004830	SJGB017 S2	K1004830-002	Solids	56	percen				
K1004830	SJGB017 S3	K1004830-003	Solids	71	percen				
K1004830	SJGB017 S4	K1004830-004	Solids	67.1	percen				
K1004830	SJGB013 S1	K1004830-005	Solids	67.9	percen				
K1004830	SJGB013 S2	K1004830-006	Solids	70	percen				
K1004830	SJGB013 S3	K1004830-007	Solids	74.4	percen				
K1004830	SJGB013 S5	K1004830-008	Solids	80.7	percen				

DJK 06.24.10

dorothy kerlin

From: Melissa Swanson
Sent: Wednesday, June 30, 2010 3:10 PM
To: dorothy kerlin
Subject: FW: SJWP Grain size raw data SDG K1004830

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Wednesday, June 30, 2010 3:10 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP Grain size raw data SDG K1004830

Melissa,
The second set of results with the weights is the raw data. Everything is going directly into the computer now.

Greg

Please note that I will be out of the office July 6-13.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Wednesday, June 30, 2010 1:41 PM
To: Craig Hutchings; Greg Salata
Subject: SJWP Grain size raw data SDG K1004830

Hi Greg,

We appear to be missing raw data sheets for the grain size analysis in SDG K1004830. Included was a summary page of the sample weights.

Regards,

Melissa

Melissa Swanson

dorothy kerlin

From: Jim Hall
Sent: Tuesday, June 29, 2010 3:53 PM
To: dorothy kerlin
Subject: FW: K1005253
Attachments: coc.pdf

From: Melissa Swanson
Sent: Tuesday, June 22, 2010 8:12 AM
To: Jim Hall
Subject: FW: K1005253 /E100478

that missing COC ...

From: Darren Biles [mailto:dbiles@caslab.com]
Sent: Tuesday, June 22, 2010 8:10 AM
To: Greg Salata
Cc: Melissa Swanson; Craig Hutchings
Subject: RE: K1005253

Here you go. The ID for sample SJNE-036-GR1 was changed to SNJE-025-GR1 as per client's request.

Darren Biles
HRGC/HRMS/Project Chemist

Columbia Analytical Services, Inc.
19408 Park Row, Suite 320
Houston, TX 77084
713-266-1599 (office)
281-994-2954 (direct)
www.caslab.com

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From: Greg Salata
Sent: Tuesday, June 22, 2010 9:26 AM
To: Darren Biles
Cc: Melissa Swanson; Craig Hutchings
Subject: RE: K1005253

Darren,
I've reviewed our records and I can't find the COC for the sample listed below. Can you forward me a copy of this?

Greg

Please note that I will be out of the office July 6-13.

Gregory Salata, Ph.D.

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, June 17, 2010 9:05 AM
To: Greg Salata; Craig Hutchings
Subject: FW: K1005253

Hi Greg & Craig,

Still missing a page of COC. Please see below.

Melissa

From: Jim Hall
Sent: Thursday, June 17, 2010 9:00 AM
To: Melissa Swanson
Subject: RE: K1005253

I've looked through all the attached pdfs and I can't find the COC for sample K1005253-010 SJNE-025-GR1. The data package says it was collected on 5/12/10 and rec'd on 5/14/10.

dorothy kerlin

From: Melissa Swanson
Sent: Thursday, July 01, 2010 2:21 PM
To: Melissa Swanson; Jim Hall; dorothy kerlin; Rose Defawe
Cc: Chris Wendle
Subject: RE: 22130-2 EDD verification

Word from the client is that we do not need to worry about missing field IDs in the data base. Please note the correct values on the EDD print (for the first result only), do not correct the database.

Thank you!

M

From: Melissa Swanson
Sent: Thursday, July 01, 2010 1:11 PM
To: Jim Hall; dorothy kerlin; Rose Defawe; Melissa Swanson
Cc: Chris Wendle
Subject: 22130-2 EDD verification

Hello All,

While printing EDDs for verification I noticed there were some holes in the sample_no (field ID) field, the labsample (lab ID) field was populated. Please email to me the SDG, missing field ID, and fraction you are working on when you come across these. I want to be able to notify the client and determine whether we should correct the database or if they will do it on their end.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave. Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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Sent: Friday, July 02, 2010 11:42 AM
To: Craig Hutchings; Melissa Swanson
Cc: Pradeep Divvela
Subject: RE: SDGK1004878 Thallium issue

There are other wipes in other SDGs. I assume we will handle these in the same fashion?

Please note that I will be out of the office July 6-13.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 x3376 (office)
360-636-1068 (FAX)
www.caslab.com

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---

From: Craig Hutchings [mailto:chutchings@integral-corp.com]
Sent: Friday, July 02, 2010 11:20 AM
To: Greg Salata; Melissa Swanson
Cc: Pradeep Divvela
Subject: RE: SDGK1004878 Thallium issue

Greg,

Please report the wipe with an elevated MRL. This sample is a field blank and even at the elevated MRL the concentration of Tl would not be high enough to affect the sample results. Furthermore, all samples are non-detect for Tl in this SDG.

Craig Hutchings | Scientist

Integral Consulting Inc. | www.integral-corp.com

1205 West Bay Drive NW | Olympia, WA 98502

Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Friday, July 02, 2010 10:37 AM
To: Melissa Swanson; Craig Hutchings
Cc: Pradeep Divvela
Subject: RE: SDGK1004878 Thallium issue

Craig/Melissa,
The lab reviewed the data and confirms that there was an interference they missed during reporting. There are two options at this point. We can elevate the MRLs to account for the interference, or we can re-run the digests by Axial-ICP (there was no interference on the sample we checked using this approach). This will depend primarily on the action limit required for Thallium. Please let me know how you want to proceed and we'll get this fixed.

Greg

Please note that I will be out of the office July 6-13.

Gregory Salata, Ph.D.

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, July 01, 2010 2:20 PM
To: Greg Salata; Craig Hutchings
Subject: SDGK1004878 Thallium issue

Hi Greg,

Please see below of Tl question.

Thallium was reading a factor of 10x negative the MDL for the wipe sample SDFW-0901S (K1004878-001). The issue appears to be non-spectral as the concentrations of the interferents were low in the sample. Summarized below are the results and adjusted MDL based on the negative value and a 2x dilution factor. The MDL and RL should be raised to 40 ug.

Tl result from instrument	Reported MDL	Reported RL	MDL based on neg value
-0.2059 mg/L(MDL=0.020 mg/L)	4 ug	20 ug	40 ug

The lab needs to address why they did not adjust the MDL and RL based on the negative result. Also can we ask the lab why they did not spike for Mg in the LCS/LCSD for the wipe?

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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or otherwise disseminating it. Please notify sender that you received this communication in error.

dorothy kerlin

From: dorothy kerlin
Sent: Tuesday, July 06, 2010 3:15 PM
To: Melissa Swanson
Subject: SJWP K1004878 TOC corrected QA/QC report pages

Melissa,

The pages that require correction are:

TOC QA/QC Report page 44 Continuing Calibration Verification (CCV)

CCV3 analyzed 05/27/10 Measured Value = ND

CCV4 analyzed 05/27/10 Measured Value = ND

TOC QA/QC Report page 45 Continuing Calibration Blank (CCB)

CCB3 analyzed 05/27/10 Blank Value = 19.1%

CCB4 analyzed 05/27/10 Blank Value = 19.5%

Can the lab please re-submit the corrected forms?

Thank you,

Dorothy Kerlin

From: dorothy kerlin
Sent: Friday, July 02, 2010 10:32 AM
To: Melissa Swanson
Subject: RE: San Jacinto Phase 2 SDG K1004878

I did not bring this SDG home so I will give you the information on Tuesday.

Dorothy

From: Melissa Swanson
Sent: Thu 7/1/2010 5:03 PM
To: dorothy kerlin

dorothy kerlin

From: Melissa Swanson
Sent: Tuesday, July 13, 2010 7:14 AM
To: dorothy kerlin
Subject: FW: K1004878.01 Revision RE: TOC CCV/CCB
Importance: High
Attachments: K1004878.01.pdf

I have saved the file in the edata folder on the data drive as well. Please let me know if this is everything you need for this SDG.

Melissa

From: Eleanor Peterson [mailto:epeterson@caslab.com]
Sent: Monday, July 12, 2010 5:55 PM
To: chutchings@integral-corp.com; Melissa Swanson
Cc: Greg Salata
Subject: K1004878.01 Revision RE: TOC CCV/CCB
Importance: High

Eleanor Peterson
Copy Center

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Integral Consulting, Incorporated
Project : San Jacinto Waste Pits

Service Request : K1004878
Date Collected : NA
Date Received : NA

Carbon, Total Organic
9060M
Units: Percent

CONTINUING CALIBRATION VERIFICATION (CCV)

	Date Analyzed	True Value	Measured Value	Percent Recovery
CCV1 Result	5/26/2010	20.0	19.6	98
CCV2 Result	5/26/2010	20.0	19.4	97
CCV3 Result	5/26/2010	20.0	19.7	99
CCV4 Result	5/26/2010	20.0	19.4	97
CCV5 Result	5/26/2010	20.0	20.1	101
CCV6 Result	5/26/2010	20.0	19.6	98
CCV7 Result	5/26/2010	20.0	19.9	100
CCV8 Result	5/26/2010	20.0	19.6	98
CCV9 Result	5/26/2010	20.0	19.6	98
CCV1 Result	5/27/2010	20.0	19.3	97
CCV2 Result	5/27/2010	20.0	19.0	95
CCV3 Result	5/27/2010	20.0	19.1	96
CCV4 Result	5/27/2010	20.0	19.4	97
CCV5 Result	5/27/2010	20.0	19.4	97
CCV6 Result	5/27/2010	20.0	19.5	98
CCV7 Result	5/27/2010	20.0	19.1	96
CCV8 Result	5/27/2010	20.0	18.9	95
CCV9 Result	5/27/2010	20.0	19.2	96

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Integral Consulting, ncorporated
Project : San Jacinto Waste Pits

Service Request : K1004878
Date Collected : NA
Date Received : NA

Carbon, Total Organic
9060M
Units: Percent

CONTINUING CALIBRATION BLANK (CCB)

	Date Analyzed	MRL	Blank Value
CCB1 Result	5/26/2010	0.050	ND
CCB2 Result	5/26/2010	0.050	ND
CCB3 Result	5/26/2010	0.050	ND
CCB4 Result	5/26/2010	0.050	ND
CCB5 Result	5/26/2010	0.050	ND
CCB6 Result	5/26/2010	0.050	ND
CCB7 Result	5/26/2010	0.050	ND
CCB8 Result	5/26/2010	0.050	ND
CCB9 Result	5/26/2010	0.050	ND
CCB1 Result	5/27/2010	0.050	ND
CCB2 Result	5/27/2010	0.050	ND
CCB3 Result	5/27/2010	0.050	ND
CCB4 Result	5/27/2010	0.050	ND
CCB5 Result	5/27/2010	0.050	ND
CCB6 Result	5/27/2010	0.050	ND
CCB7 Result	5/27/2010	0.050	ND
CCB8 Result	5/27/2010	0.050	ND
CCB9 Result	5/27/2010	0.050	ND

Jeremy Maute

From: Melissa Swanson
Sent: Monday, August 02, 2010 10:06 AM
To: Jeremy Maute
Subject: FW: K1005012 TI
Attachments: Crystal Reports - casform141vtier3.pdf; Crystal Reports - casform2bxtier3.pdf; Crystal Reports - casform3xtier3V3.pdf; Crystal Reports - casform4xtier.pdf

Jeremy,

Please print these attachments and include them with your worksheets, print this email as well.

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660 Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Monday, August 02, 2010 10:03 AM
To: Melissa Swanson
Subject: FW: K1005012 TI

Melissa,
Here are the updated forms.

Greg

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
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360-636-1068 (FAX)
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---

From: Eileen Arnold
Sent: Monday, August 02, 2010 8:24 AM
To: Greg Salata
Subject: K1005012 TI

Here are the corrected Forms for K1005012S

Eileen M. Arnold

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1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 (office)
360-577-7222 (direct)
www.caslab.com

Jeremy Maute

From: Melissa Swanson
Sent: Monday, August 02, 2010 10:06 AM
To: Jeremy Maute
Subject: FW: SJWP, K1005012, Metals, Requesting Summary data.

Please include this email with your worksheets, too.

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660 Seattle, WA 98104
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From: Melissa Swanson
Sent: Friday, July 30, 2010 10:02 AM
To: 'Greg Salata'; 'Craig Hutchings'
Subject: FW: SJWP, K1005012, Metals, Requesting Summary data.

Greg,

We are missing thallium on a number of summary forms. Please resubmit these forms as .pdf files only, no need to send hardcopy as well.

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660 Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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Sent: Friday, July 30, 2010 9:26 AM
To: Melissa Swanson
Cc: dorothy kerlin; Chris Ransom
Subject: SJWP, K1005012, Metals, Requesting Summary data.

Hi Melissa,

The metals data package for K1005012 did not include the thallium in several summary forms. Thallium was not listed in the CRDL standard form II , on the blanks section form III part 2 , and in the ICSA/ICSAB interference check samples form IV. This applies only to the field samples from ((6010B on 6/8/10), (6C20 on 6/2/10), and (7470A on 6/8/10)). Thallium results were included in all results for blank wipe sample which underwent analysis on separate runs.

Jeremy Maute

From: Melissa Swanson
Sent: Tuesday, July 20, 2010 10:21 AM
To: Jim Hall; dorothy kerlin; Mark Brindle; Rose Defawe; Jeremy Maute; Melissa Swanson
Subject: FW: filter wipe associations

Hello All,

There is a master field blank (see below), please prioritize the package(s) containing this master blank so we can then associate it with the filter wipes and hopefully any hits there will go away. I know we are all super slammed right now, but please do the best you can.

SDFW-920S (E1000570-010 & K1005351-20)

Thanks a bunch,

Melissa

Jeremy Maute

From: Melissa Swanson
Sent: Thursday, July 22, 2010 12:57 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Cc: Melissa Swanson
Subject: SJWP K1005263 metals & SVOC

Hi All,

While Dorothy was printing EDDs for verification she discovered there were not as many samples in the dbase as were listed on the status sheet. I contacted the lab and they confirmed that most of the analyses were cancelled. The lab is looking for the supporting documentation which I will pass onto you all. Please print a copy and clip to your worksheets with a post it along the edge marked comm log.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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Jeremy Maute

From: Melissa Swanson
Sent: Friday, July 23, 2010 1:39 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Subject: FW: SJWP K1005263 metals & SVOCs
Attachments: S011000384_1007231323000.pdf

Please print this email and attachment and include with your worksheets for this data package (that goes for aroclors, too).

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Friday, July 23, 2010 1:33 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP K1005263 metals & SVOCs

See attached for cancellation.

Gregory Salata, Ph.D.

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, July 22, 2010 12:23 PM
To: Craig Hutchings; Greg Salata
Subject: SJWP K1005263 metals & SVOCs

Hi Greg & Craig,

While printing EDDs for verification I learned that SDG K10005263 had only one sample in the EDD (SJVS001-GR1 K1005263-001) for metals and SVOCs (full SVOC list, not just BEHP). I looked at the hard copy and we have received hard copy only for this single sample. The COC lists 11 samples and the narrative states 11 samples were received. There were no accompanying emails mentioning canceled analyses. Were 10 analyses canceled?

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

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Greg Salata

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Wednesday, May 26, 2010 3:03 PM
To: Greg Salata
Subject: RE: San Jacinto Sample Receipt Forms
Attachments: Cancel Analyses on San Jacinto Samples recieved outside temperature limits

Greg,
Here you go:
K1005175, K1005028: Pradeep sent these to me on Friday and I reviewed them then. Note one change below to K1005175.

K1005021, K1005237, K1005028, K1005235, k1005253, K1005281, & K1005282 are good.

K1005175: Add TOC, 6010/6020 metals, 7471 Hg, grain size, 8270 BEHP only, and PCDD/F to SJSH040-CR1A-2 (K1005175-012). This means an aliquot will need to be sent to Houston.

K1005106: Add 72 hour TAT VOCs to SJGB-004-GR1 (K1005106-004), SJSH-061-GR1 (K1005105-005), SJSH-060-GR1 (K1005106-006) & SJSH-059-GR1 (K1005106-007). Analyses for SJSH-064-GR1, SJSH064-GR2, SJSH063-GR1, SJSH062-GR1, SJGB-005-GR1, SJGB-007-GR2, SJGB-008-GR1, SJSH-058-GR1, SJSH057-GR1, and SJSJ-056-GR1 were canceled on 5/21 in the attached email.

K1005262: I would have canceled all samples except SJVS001-GR1, but it's too late for that now.

K1005263: Cancel all samples except SJVS001-GR1.

K1005283: I would have canceled all samples except SJVS016-GR1, but again it's too late for that now

K1005284: Cancel all analyses except SJVS016-GR1

That hit some of the samples that I requested rush VOCs on, but the samples below were not in those SDG and should have either arrived at Kelso already or should be arriving tomorrow.
SJGB005-GR1
SJGB007-GR1
SJGB008-GR1
SJNE001-GR1
SJNE004-GR1
SJNE005-GR1
SJNE050-GR1
SJNE066-GR1
SJNE067-GR1
SJNE069-GR1
SJNE070-GR1
SJSH056-GR1
SJSH057-GR1
SJSH058-GR1
SJSH062-GR1
SJSH063-GR1
SJSH064-GR1
SJSH064-GR1

Thanks, let me know if ycu have questions.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502

Melissa Swanson

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Sunday, May 09, 2010 11:51 AM
To: Melissa Swanson
Subject: Wipe blanks

Melissa,
Regarding the wipe blarks, to properly evaluate them you should know how much sample was processed through the equipment and divide ug/wipe by kg processed. Anchor took the samples and hasn't gotten back to me about the mass processed. Since I know that they collected an 8 oz & a 4 oz jar they collected at least 12 oz of sample. Assuming a mass of 1.33 g/cc and knowing that there are 29.57 cc/fluid oz that works out to a mass of 472 g (0.472 kg). This is a conservative estimate, but will work. Please double check my math and if it works out use that mass in your calculation and include this email in the records.

Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

Jeremy Maute

From: Melissa Swanson
Sent: Tuesday, July 20, 2010 10:21 AM
To: Jim Hall; dorothy kerlin; Mark Brindle; Rose Defawe; Jeremy Maute; Melissa Swanson
Subject: FW: filter wipe associations

Hello All,

There is a master field blank (see below), please prioritize the package(s) containing this master blank so we can then associate it with the filter wipes and hopefully any hits there will go away. I know we are all super slammed right now, but please do the best you can.

SDFW-920S (E1000570-010 & K1005351-20)

Thanks a bunch,

Melissa

Jeremy Maute

From: Melissa Swanson
Sent: Thursday, July 22, 2010 12:57 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Cc: Melissa Swanson
Subject: SJWP K1005263 metals & SVOC

Hi All,

While Dorothy was printing EDDs for verification she discovered there were not as many samples in the dbase as were listed on the status sheet. I contacted the lab and they confirmed that most of the analyses were cancelled. The lab is looking for the supporting documentation which I will pass onto you all. Please print a copy and clip to your worksheets with a post it along the edge marked comm log.

Regards,

Melissa

Melissa Swanson
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Project Chemist

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EMAIL: mswanson@ecochem.net

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Jeremy Maute

From: Melissa Swanson
Sent: Tuesday, July 20, 2010 10:21 AM
To: Jim Hall; dorothy kerlin; Mark Brindle; Rose Defawe; Jeremy Maute; Melissa Swanson
Subject: FW: filter wipe associations

Hello All,

There is a master field blank (see below), please prioritize the package(s) containing this master blank so we can then associate it with the filter wipes and hopefully any hits there will go away. I know we are all super slammed right now, but please do the best you can.

SDFW-920S (E1000570-010 & K1005351-20)

Thanks a bunch,

Melissa

Melissa Swanson

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Sunday, May 09, 2010 11:51 AM
To: Melissa Swanson
Subject: Wipe blanks

Melissa,
Regarding the wipe blanks, to properly evaluate them you should know how much sample was processed through the equipment and divide ug/wipe by kg processed. Anchor took the samples and hasn't gotten back to me about the mass processed. Since I know that they collected an 8 oz & a 4 oz jar they collected at least 12 oz of sample. Assuming a mas of 1.33 g/cc and knowing that there are 29.57 cc/fluid oz that works out to a mass of 472 g (0.472 kg). This is a conservative estimate, but will work. Please double check my math and if it works out use that mass in your calculation and include this email in the records.

Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

Jeremy Maute

From: Melissa Swanson
Sent: Thursday, July 22, 2010 12:57 PM
To: dorothy ketlin; Jeremy Maute; Mark Brindle
Cc: Melissa Swanson
Subject: SJWP K1005263 metals & SVOC

Hi All,

While Dorothy was printing EDDs for verification she discovered there were not as many samples in the dbase as were listed on the status sheet. I contacted the lab and they confirmed that most of the analyses were cancelled. The lab is looking for the supporting documentation which I will pass onto you all. Please print a copy and clip to your worksheets with a post it along the edge marked comm log.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave. Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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Jeremy Maute

From: Melissa Swanson
Sent: Friday, July 23, 2010 1:39 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Subject: FW: SJWP K1005263 metals & SVOCs
Attachments: S011000384_1007231323000.pdf

Please print this email and attachment and include with your worksheets for this data package (that goes for dreclors, too).

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
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EMAIL: mswanson@ecochem.net

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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Friday, July 23, 2010 1:33 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP K1005263 metals & SVOCs

See attached for cancellation.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 x3376 (office)
360-636-1068 (FAX)
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, July 22, 2010 12:23 PM
To: Craig Hutchings; Greg Salata
Subject: SJWP K1005263 metals & SVOCs

Hi Greg & Craig,

While printing EDDs for verification I learned that SDG K10005263 had only one sample in the EDD (SJVS001-GR1 K1005263-001) for metals and SVOCs (full SVOC list, not just BEHP). I looked at the hard copy and we have received hard copy only for this single sample. The COC lists 11 samples and the narrative states 11 samples were received. There were no accompanying emails mentioning canceled analyses. Were 10 analyses canceled?

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

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Greg Salata

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Wednesday, May 26, 2010 3:03 PM
To: Greg Salata
Subject: RE: San Jacinto Sample Receipt Forms
Attachments: Cancel Analyses on San Jacinto Samples recieved outside temperature limits

Greg,
Here you go:
K1005175, K1005028: Pradeep sent these to me on Friday and I reviewed them then. Note one change below to K1005175.

K1005021, K1005237, K1005026, K1005235, k1005253, K1005281, & K1005282 are good.

K1005175: Add TOC, 6010/6020 metals, 7471 Hg, grain size, 8270 BEHP only, and PCDD/F to SJSH040-CR1A-2 (K1005175-012). This means an aliquot will need to be sent to Houston.

K1005106: Add 72 hour TAT VOCs to SJGB-004-GR1 (K1005106-004), SJSH-061-GR1 (K1005106-005), SJSH-060-GR1 (K1005106-006) & SJSH-059-GR1 (K1005106-007). Analyses for SJSH-064-GR1, SJSH064-GR2, SJSH063-GR1, SJSH062-GR1, SJGB-005-GR1, SJGB-007-GR2, SJGB-008-GR1, SJSH-058-GR1, SJSH057-GR1, and SJSJ-056-GR1 were canceled on 5/21 in the attached email.

K1005262: I would have canceled all samples except SJVS001-GR1, but it's too late for that now.

K1005263: Cancel all samples except SJVS001-GR1.

K1005283: I would have canceled all samples except SJVS016-GR1, but again it's too late for that now

K1005284: Cancel all analyses except SJVS016-GR1

That hit some of the samples that I requested rush VOCs on, but the samples below were not in those SDG and should have either arrived at Kelso already or should be arriving tomorrow.
SJGB005-GR1
SJGB007-GR1
SJGB008-GR1
SJNE001-GR1
SJNE004-GR1
SJNE005-GR1
SJNE050-GR1
SJNE068-GR1
SJNE067-GR1
SJNE069-GR1
SJNE070-GR1
SJSH056-GR1
SJSH057-GR1
SJSH058-GR1
SJSH062-GR1
SJSH063-GR1
SJSH064-GR1
SJSH064-GR1

Thanks, let me know if you have questions.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502

Jeremy Maute

From: Melissa Swanson
Sent: Monday, August 09, 2010 2:08 PM
To: Jeremy Maute
Subject: FW: SJWP, K1005028, Metals: 6010, 6020, 7471A, Requesting missing summary forms
Attachments: S011000384_1008091402000.pdf

please print this email and include with your worksheets, include the printed pages of the attachment as well.

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 • FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Monday, August 09, 2010 2:07 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP, K1005028, Metals: 6010, 6020, 7471A, Requesting missing summary forms

Data attached.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 x3376 (office)
360-636-1068 (FAX)
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communication, or the taking of any action based on it, is strictly prohibited. Thank you.

From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Monday, August 09, 2010 11:14 AM
To: Craig Hutchings; Greg Salata
Subject: FW: SJWP, K1005028, Metals: 6010, 6020, 7471A, Requesting missing summary forms

Greg,

Please see the request below. Could you provide the forms listed below as .pdf files today? We are endeavoring to complete our primary today so we can send the qualified EDD to Craig by Wed.

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 • FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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Sent: Monday, August 09, 2010 11:11 AM
To: Melissa Swanson
Subject: SJWP, K1005028, Metals: 6010, 6020, 7471A, Requesting missing summary forms

Hi Melissa,

The detection limit summary forms were not included in the summary package for K1005028. Specifically, we are missing the detection limit summary forms for 6010, 6020, and 7471A analysis. The analysis was performed by CAS labs: 7471 on 5/2/10, (6010 and 6020) on 6/2/10. Could you ask the lab to provide these summary forms?

Thanks.

dorothy kerlin

From: Melissa Swanson
Sent: Tuesday, August 03, 2010 8:25 AM
To: dorothy kerlin
Subject: FW: K1005106 Revision
Importance: High
Attachments: K1005106.01.pdf; K1005106.01.zip

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

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DIRECT: 206.233.9332 ext. 102 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Craig Hutchings [mailto:chutchings@integral-corp.com]
Sent: Monday, August 02, 2010 5:33 PM
To: Melissa Swanson
Cc: Greg Salata
Subject: FW: K1005106 Revision
Importance: High

Melissa,
It doesn't look like this went your way. Please make the appropriate change to the EDD.
Thanks.

DJL 08.03.10

Craig Hutchings | Scientist
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HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Anita Sheldon [mailto:asheldon@caslab.com]
Sent: Monday, August 02, 2010 5:26 PM

To: Craig Hutchings
Cc: Greg Salata
Subject: K1005106 Revision
Importance: High

The sample ID and result for K1005106-003 have been updated.
We apologize for any inconvenience.
Thank you

Anita Sheldon
Administrative Supervisor
Electronic Deliverables

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222
www.caslab.com

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Columbia Analytical Services

August 2, 2010 Analytical Report for Service Request No: K1005106

Craig Hutchings
Integral Consulting, Incorporated
1205 West Bay Drive NW
Olympia, WA 98502-4670

RE: San Jacinto Waste Pits/C643 0901

Dear Craig:

Enclosed are the revised pages for the samples submitted to our laboratory on May 19, 2010. For your reference, these analyses have been assigned our service request number K1005106.

The sample ID and result for K1005106-003 have been updated.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376. You may also contact me via Email at GSalata@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Gregory Salata, Ph.D.
Project Chemist

GS/afs

Melissa Swanson

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Monday, August 02, 2010 2:34 PM
To: Melissa Swanson; Greg Salata
Subject: RE: SJWP outstanding lab items

Melissa,
Yes, please correct the EDD and be sure to note it in the validation report.

Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Monday, August 02, 2010 2:27 PM
To: Greg Salata; Craig Hutchings
Subject: RE: SJWP outstanding lab items

Hi Greg,

Just to follow up your phone call and ensure I understood everything properly. Items 1, 3, and 4 have been addressed and we should see new copies of the appropriate forms within the next day or so. Item 5 was previously addressed in an email from you dated 7/30/10; I had thought this was a different but similar issue. Item 2 will be passed on to folks in the lab to address.

Craig, regarding Item 3) TOC results raw data not equal to the EDD. Greg stated the raw data is the correct value. Do you want EcoChem to correct the value in the database?
Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Monday, August 02, 2010 11:47 AM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP outstanding lab items

I'll review this and call you in a few minutes with updates/data.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Monday, August 02, 2010 10:27 AM
To: Greg Salata; Craig Hutchings
Subject: SJWP outstanding lab items

Hello Gentlemen,

We are hoping to have all our primary validation completed this week. However, we still have a few items looking for resolution. There are five (5) items on the attached list. I've included the information that was in the original emails as well.

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 • FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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==========

4) On 7/29/10 re K1005359, TOC, Date Analyzed

Hi Greg,

It appears the date year was incorrectly entered for some samples. Please see below. A resubmission as .pdf is sufficient, no need to follow with a hardcopy as well.

From: dorothy kerlin
Sent: Wednesday, July 28, 2010 12:52 PM
To: Melissa Swanson
Subject: SJWP, K1005359, TOC, Date Analyzed

Melissa,

For samples K1005359-007 through 014 all of the Analytical Report pages including QC summary results, have a date analyzed of 06/19/20. The date analyzed on the first page of the TOC run log (page 74 of the data package) has a date analyzed of 06/19/20. The second and third pages of the analysis run log have a date analyzed of 06/19/10 (pages 75 and 76 of the data package).

==========

5) on 7/29/10

Hi Greg,

Could you look into the sample naming discrepancy below?

Regards,
Melissa

Sent: Thursday, July 29, 2010 1:34 PM
To: Melissa Swanson
Subject: SJWP, K1005353, COC discrepancy

Melissa,

Could the lab please verify the sample ID for K1005353-024?
COC= SJGB07-S5
Raw data= SJGB017 S5
Sample was collected 05/22/10 at 12:45

1) discrepancies in the TOC quaduplicate results. I'd send Greg and email on 7/22/10 regarding some errors in the resubs.

==========

2) on 7/26/10 I sent an email regarding the TOC blank summary form results for 6/8/10 and 6/9/10

Comparison of Continuing Calibration Blank (CCB) Summary Results and raw data results for % Carbon:
06-08-10 CCB3 = 0.020 J; raw data = 0.001 (<0.020)
06-08-10 CCB5 = 0.020 J; raw data = 0.013 (< 0.020)
06-09-10 CCB2 = 0.020 J: raw data = 0.004 (< 0.020)

==========

3) on 7/27/10 I sent an email with multiple questions:

A couple of items below:
1) a mercury sample variation from raw data to EDD
2) Sample ID possible transcription error
3) TOC summary form vs EDD & rounding

Regarding item 3) I presume the last 4 results were an issue of the system being set to 2 sig figs vs 3 from the raw data. If we had not also seen the variation between the EDD and the summary on the first sample we likely wouldn't have brought the rounding issue to your attention.

From: dorothy kerlin
Sent: Tuesday, July 27, 2010 11:51 AM
To: Melissa Swanson
Subject: SJWP, K1005106, Mercury, TOC, EDD verification form check; metals cover page

Melissa,

Could the laboratory please check the following?

EDD mercury result for sample SJNE-022-GR2 (K1005106-003). The raw data and Form 1 mercury result = **0.178** mg/kg; EDD result = **0.247** mg/kg.

Also, could they please check the sample name for SJNE-022-GR2 (K1005106-003) on the Cover Page of the Inorganic Analysis Data Package? The sample name for this particular sample was listed as SJNE-022-GR3S on the Cover Page of the Inorganic Analysis Data Package.

Could the lab please verify the TOC EDD result for sample K1005106-003DUP? The raw data and QUAD summary report results differ from the EDD result. Also could they check the QUAD summary report results for the following samples as they differ slightly from the raw data and EDD results; possibly due to rounding? The discrepancies are in bold.

TOC Results:

Change per MCS in database.

Sample ID	QUAD Summary Rpt	Raw Data	EDD Result
K1005106-003DUP	1.89	1.89	**1.55**
K1005106-006	**0.170**	0.171	0.171
K1005106-006DUP	**0.180**	0.183	0.183
K1005106-007	**0.100**	0.101	0.101
K1005106-007DUP	**0.110**	0.112	0.112

Greg Salata

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Wednesday, May 26, 2010 3:03 PM
To: Greg Salata
Subject: RE: San Jacinto Sample Receipt Forms
Attachments: Cancel Analyses on San Jacinto Samples recieved outside temperature limits

Greg,
Here you go:
K1005175, K1005028: Pradeep sent these to me on Friday and I reviewed them then. Note one change below to K1005175

K1005021, K1005237, K1005028, K1005235, k1005253, K1005281, & K1005282 are good.

K1005175: Add TOC, 6010/6020 metals, 7471 Hg, grain size, 8270 BEHP only, and PCDD/F to SJSH040-CR1A-2 (K1005175-012). This means an aliquot will need to be sent to Houston.

K1005106: Add 72 hour TAT VOCs to SJGB-004-GR1 (K1005106-004), SJSH-061-GR1 (K1005106-005), SJSH-060-GR1 (K1005106-006) & SJSH-059-GR1 (K1005106-007). Analyses for SJSH-064-GR1, SJSH064-GR2, SJSH063-GR1, SJSH062-GR1, SJGB-005-GR1, SJGB-007-GR2, SJGB-008-GR1, SJSH-058-GR1, SJSH057-GR1, and SJSJ-056-GR1 were canceled on 5/21 in the attached email.

K1005262: I would have canceled all samples except SJVS001-GR1, but it's too late for that now.

K1005263: Cancel all samples except SJVS001-GR1.

K1005283: I would have canceled all samples except SJVS016-GR1, but again it's too late for that now

K1005284: Cancel all analyses except SJVS016-GR1

That hit some of the samples that I requested rush VOCs on, but the samples below were not in those SDG and should have either arrived at Kelso already or should be arriving tomorrow.
SJGB005-GR1
SJGB007-GR1
SJGB008-GR1
SJNE001-GR1
SJNE004-GR1
SJNE005-GR1
SJNE050-GR1
SJNE066-GR1
SJNE067-GR1
SJNE069-GR1
SJNE070-GR1
SJSH056-GR1
SJSH057-GR1
SJSH058-GR1
SJSH062-GR1
SJSH063-GR1
SJSH064-GR1
SJSH064-GR1

Thanks, let me know if you have questions.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502

Greg Salata

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Wednesday, May 26, 2010 3:03 PM
To: Greg Salata
Subject: RE: San Jacinto Sample Receipt Forms
Attachments: Cancel Analyses on San Jacinto Samples recieved outside temperature limits

Greg,
Here you go:
K1005175, K1005028: Praceep sent these to me on Friday and I reviewed them then. Note one change below to K1005175.

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K1005106: Add 72 hour TAT VOCs to SJGB-004-GR1 (K1005106-004), SJSH-061-GR1 (K1005106-005), SJSH-060-GR1 (K1005106-006) & SJSH-059-GR1 (K1005106-007). Analyses for SJSH-054-GR1, SJSH064-GR2, SJSH063-GR1, SJSH062-GR1, SJGB-005-GR1, SJGB-007-GR2, SJGB-008-GR1, SJSH-058-GR1, SJSH057-GR1, and SJSJ-056-GR1 were canceled on 5/21 in the attached email.

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K1005263: Cancel all samples except SJVS001-GR1.

K1005283: I would have canceled all samples except SJVS016-GR1, but again it's too late for that now.

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That hit some of the samples that I requested rush VOCs on, but the samples below were not in those SDG and should have either arrived at Kelso already or should be arriving tomorrow.
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SJGB007-GR1
SJGB008-GR1
SJNE001-GR1
SJNE004-GR1
SJNE005-GR1
SJNE050-GR1
SJNE066-GR1
SJNE067-GR1
SJNE069-GR1
SJNE070-GR1
SJSH056-GR1
SJSH057-GR1
SJSH058-GR1
SJSH062-GR1
SJSH063-GR1
SJSH064-GR1
SJSH064-GR1

Thanks, let me know if you have questions.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502

dorothy kerlin

From: Melissa Swanson
Sent: Tuesday, July 13, 2010 11:14 AM
To: dorothy kerlin
Subject: FW: Revised Re: K1005237 San Jacinto Waste Pits/C643 0901
Importance: High
Attachments: K1005237.01.pdf

TOC MS/MSD request response

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Kimberly DiNino [mailto:kgressett@caslab.com]
Sent: Tuesday, July 13, 2010 11:08 AM
To: chutchings@integral-corp.com; Melissa Swanson
Cc: Greg Salata
Subject: Revised Re: K1005237 San Jacinto Waste Pits/C643 0901
Importance: High

Kimberly DiNino
Copy Center

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 (office)
360-501-3378 (direct)
www.caslab.com

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Jeremy Maute

From: Melissa Swanson
Sent: Thursday, July 22, 2010 12:57 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Cc: Melissa Swanson
Subject: SJWP K1005263 metals & SVOC

Hi All,

While Dorothy was printing EDDs for verification she discovered there were not as many samples in the dbase as were listed on the status sheet. I contacted the lab and they confirmed that most of the analyses were cancelled. The lab is looking for the supporting documentation which I will pass onto you all. Please print a copy and clip to your worksheets with a post it along the edge marked comm log.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 • FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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Jeremy Maute

From: Melissa Swanson
Sent: Friday, July 23, 2010 1:39 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Subject: FW: SJWP K1005263 metals & SVOCs
Attachments: S011C0384_1007231323000.pdf

Please print this email and attachment and include with your worksheets for this data package (that goes for aroclors, too).

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

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DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Friday, July 23, 2010 1:33 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP K1005263 metals & SVOCs

See attached for cancellation.

Gregory Salata, Ph.D.

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, July 22, 2010 12:23 PM
To: Craig Hutchings; Greg Salata
Subject: SJWP K1005263 metals & SVOCs

Hi Greg & Craig,

While printing EDDs for verification I learned that SDG K10005263 had only one sample in the EDD (SJVS001-GR1 K1005263-001) for metals and SVOCs (full SVOC list, not just BEHP). I looked at the hard copy and we have received hard copy only for this single sample. The COC lists 11 samples and the narrative states 11 samples were received. There were no accompanying emails mentioning canceled analyses. Were 10 analyses canceled?

Regards,

Melissa

Melissa Swanson
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Project Chemist

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Greg Salata

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Wednesday, May 26, 2010 3:03 PM
To: Greg Salata
Subject: RE: San Jacinto Sample Receipt Forms
Attachments: Cancel Analyses on San Jacinto Samples recieved outside temperature limits

Greg,
Here you go:
K1005175, K1005028: Pradeep sent these to me on Friday and I reviewed them then. Note one change below to K1005175.

K1005021, K1005237, K1005028, K1005235, k1005253, K1005281, & K1005282 are good.

K1005175: Add TOC, 6010/6020 metals, 7471 Hg, grain size, 8270 BEHP only, and PCDD/F to SJSH040-CR1A-2 (K1005175-012). This means an aliquot will need to be sent to Houston.

K1005106: Add 72 hour TAT VOCs to SJGB-004-GR1 (K1005106-004), SJSH-061-GR1 (K1005106-005), SJSH-060-GR1 (K1005106-006) & SJSH-059-GR1 (K1005106-007). Analyses for SJSH-064-GR1, SJSH064-GR2, SJSH063-GR1, SJSH062-GR1, SJGB-005-GR1, SJGB-007-GR2, SJGB-008-GR1, SJSH-058-GR1, SJSH057-GR1, and SJSJ-056-GR1 were canceled on 5/21 in the attached email.

K1005262: I would have canceled all samples except SJVS001-GR1, but it's too late for that now.

K1005263: Cancel all samples except SJVS001-GR1.

K1005283: I would have canceled all samples except SJVS016-GR1, but again it's too late for that row.

K1005284: Cancel all anayses except SJVS016-GR1

That hit some of the samples that I requested rush VOCs on, but the samples below were not in those SDG and should have either arrived at Kelso already or should be arriving tomorrow.
SJGB005-GR1
SJGB007-GR1
SJGB008-GR1
SJNE001-GR1
SJNE004-GR1
SJNE005-GR1
SJNE050-GR1
SJNE066-GR1
SJNE067-GR1
SJNE069-GR1
SJNE070-GR1
SJSH056-GR1
SJSH057-GR1
SJSH058-GR1
SJSH062-GR1
SJSH063-GR1
SJSH064-GR1
SJSH064-GR1

Thanks, let me know if you have questions.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502

Jeremy Maute

From: Melissa Swanson

Sent: Tuesday, July 20, 2010 10:21 AM

To: Jim Hall; dorothy kerlin; Mark Brindle; Rose Defawe; Jeremy Maute; Melissa Swanson

Subject: FW: filter wipe associations

Hello All,

There is a master field blank (see below), please prioritize the package(s) containing this master blank so we can then associate it with the filter wipes and hopefully any hits there will go away. I know we are all super slammed right now, but please do the best you can.

SDFW-920S (E1000570-010 & K1005351-20)

Thanks a bunch,

Melissa

Jeremy Maute

From: Melissa Swanson
Sent: Thursday, July 22, 2010 12:57 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Cc: Melissa Swanson
Subject: SJWP K1005263 metals & SVOC

Hi All,

While Dorothy was printing EDDs for verification she discovered there were not as many samples in the dbase as were listed on the status sheet. I contacted the lab and they confirmed that most of the analyses were cancelled. The lab is looking for the supporting documentation which I will pass onto you all. Please print a copy and clip to your worksheets with a post it along the edge marked comm log.

Regards,

Melissa

Melissa Swanson
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Project Chemist

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Jeremy Maute

From: Melissa Swanson
Sent: Friday, July 23, 2010 1:39 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Subject: FW: SJWP K1005263 metals & SVOCs
Attachments: S011000384_1007231323000.pdf

Please print this email and attachment and include with your worksheets for this data package (that goes for aroclors, too).

Regards,

Melissa

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Project Chemist

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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Friday, July 23, 2010 1:33 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP K1005263 metals & SVOCs

See attached for cancellation.

Gregory Salata, Ph.D.

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, July 22, 2010 12:23 PM
To: Craig Hutchings; Greg Salata
Subject: SJWP K1005263 metals & SVOCs

Hi Greg & Craig,

While printing EDDs for verification I learned that SDG K10005263 had only one sample in the EDD (SJVS001-GR1 K1005263-001) for metals and SVOCs (full SVOC list, not just BEHP). I looked at the hard copy and we have received hard copy only for this single sample. The COC lists 11 samples and the narrative states 11 samples were received. There were no accompanying emails mentioning canceled analyses. Were 10 analyses canceled?

Regards,

Melissa

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Greg Salata

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Wednesday, May 26, 2010 3:03 PM
To: Greg Salata
Subject: RE: San Jacinto Sample Receipt Forms
Attachments: Cancel Analyses on San Jacinto Samples recieved outside temperature limits

Greg,
Here you go.
K1005175, K1005028: Pradeep sent these to me on Friday and I reviewed them then. Note one change below to K1005175.

K1005021, K1005237, K1005028, K1005235, k1005253, K1005281, & K1005282 are good.

K1005175: Add TOC, 6010/6020 metals, 7471 Hg, grain size, 8270 BEHP only, and PCDD/F to SJSH040-CR1A-2 (K1005175-012). This means an aliquot will need to be sent to Houston.

K1005106: Add 72 hour TAT VOCs to SJGB-004-GR1 (K1005106-004), SJSH-061-GR1 (K1005106-005), SJSH-060-GR1 (K1005106-006) & SJSH-059-GR1 (K1005106-007). Analyses for SJSH-064-GR1, SJSH064-GR2, SJSH063-GR1, SJSH062-GR1, SJGB-005-GR1, SJGB-007-GR2, SJGB-008-GR1, SJSH-058-GR1, SJSH057-GR1, and SJSJ-056-GR1 were canceled on 5/21 in the attached email.

K1005262: I would have canceled all samples except SJVS001-GR1, but it's too late for that now.

K1005263: Cancel all samples except SJVS001-GR1.

K1005283: I would have canceled all samples except SJVS016-GR1, but again it's too late for that row.

K1005284: Cancel all analyses except SJVS016-GR1

That hit some of the samples that I requested rush VOCs on, but the samples below were not in those SDG and should have either arrived at Kelso already or should be arriving tomorrow.
SJGB005-GR1
SJGB007-GR1
SJGB008-GR1
SJNE001-GR1
SJNE004-GR1
SJNE005-GR1
SJNE050-GR1
SJNE066-GR1
SJNE067-GR1
SJNE069-GR1
SJNE070-GR1
SJSH056-GR1
SJSH057-GR1
SJSH058-GR1
SJSH062-GR1
SJSH063-GR1
SJSH064-GR1
SJSH064-GR1

Thanks, let me know if you have questions.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1201 West Bay Drive NW | Olympia, WA 98502

dorothy kerlin

From: Melissa Swanson
Sent: Monday, July 26, 2010 10:19 AM
To: dorothy kerlin
Subject: FW: SJWP, K1005281, 6010B TI instrument blanks and CRDL
Attachments: S011000384_1007261011000.pdf

Please let me know if you are still missing anything.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Monday, July 26, 2010 10:18 AM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP, K1005281, 6010B TI instrument blanks and CRDL

Melissa,
Here are the updated forms. I apologize for the error.

Greg

Gregory Salata, Ph.D.

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Monday, July 26, 2010 9:26 AM
To: Craig Hutchings; Greg Salata
Subject: SJWP, K1005281, 6010B Tl instrument blanks and CRDL

Hi Greg & Craig.

Hope you had a lovely weekend. Please see below for a problem with thallium.

Regards.

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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Sent: Monday, July 26, 2010 9:17 AM
To: Melissa Swanson
Subject: SJWP, K1005281, 6010B Tl instrument blanks and CRDL

Melissa,

Thallium was not reported on the Metals -3- Blanks summary forms for the 06/15/10 6010B analysis.

Thallium was not reported on the Metals -2b- CRDL Standard for AA and ICP summary form for the 06/15/10

6010B analysis.

In addition, thallium was not checked off as analyzed on the Metals-14- Analysis Run log for any of the instrument blanks or CRDL standard for 06/15/10 6010B analysis.

Could the lab please regenerate the metals summary forms 2b, 3 and 14 to include thallium?

Thank you,

Dorothy Kerlin

dorothy kerlin

From: Melissa Swanson
Sent: Monday, August 02, 2010 3:02 PM
To: dorothy kerlin
Subject: FW: SJWP outstanding lab items
Attachments: S011000384_1008021454000.pdf

See item 2 from the list on I:\Integral\22130-San Jacinto\22130-2 Sed Sampling\lab items-08022010.doc

Is this everything you need?

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

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DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Monday, August 02, 2010 3:00 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP outstanding lab items

Item #2.

Gregory Salata, Ph.D.

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Monday, August 02, 2010 2:27 PM
To: Greg Salata; Craig Hutchings
Subject: RE: SJWP outstanding lab items

Hi Greg,

Just to follow up your phone call and ensure I understood everything properly. Items 1, 3, and 4 have been addressed and we should see new copies of the appropriate forms within the next day or so. Item 5 was previously addressed in an email from you dated 7/30/10; I had thought this was a different but similar issue. Item 2 will be passed on to folks in the lab to address.

Craig, regarding item 3) TOC results raw data not equal to the EDD. Greg stated the raw data is the correct value. Do you want EcoChem to correct the value in the database?

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

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DIRECT: 206.233.9332 ext. 102 · FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Monday, August 02, 2010 11:47 AM
To: Melissa Swanson; Craig Hutchings

Subject: RE: SJWP outstanding lab items

I'll review this and call you in a few minutes with updates/data.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Monday, August 02, 2010 10:27 AM
To: Greg Salata; Craig Hutchings
Subject: SJWP outstanding lab items

Hello Gentlemen,

We are hoping to have all our primary validation completed this week. However, we still have a few items looking for resolution. There are five (5) items on the attached list. I've included the information that was in the original emails as well.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave. Suite 660, Seattle, WA 98104
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1) discrepancies in the TOC quaduplicate results. I'd send Greg and email on 7/22/10 regarding some errors in the resubs.

==========

2) on 7/26/10 I sent an email regarding the TOC blank summary form results for 6/8/10 and 6/9/10

Comparison of Continuing Calibration Blank (CCB) Summary Results and raw data results for % Carbon:
06-09-10 CCB3 = **0.020 J**; raw data = 0.001 (<0.020)
06-08-10 CCB5 = **0.020 J**; raw data = 0.013 (< 0.020)
06-09-10 CCB2 = **0.020 J**; raw data = 0.004 (< 0.020)

==========

3) on 7/27/10 I sent an email with multiple questions:

A couple of items below:
1) a mercury sample variation from raw data to EDD
2) Sample ID possible transcription error
3) TOC summary form vs EDD & rounding

Regarding item 3) I presume the last 4 results were an issue of the system being set to 2 sig figs vs 3 from the raw data. If we had not also seen the variation between the EDD and the summary on the first sample we likely wouldn't have brought the rounding issue to your attention.

From: dorothy kerlin
Sent: Tuesday, July 27, 2010 11:51 AM
To: Melissa Swanson
Subject: SJWP, K1005106, Mercury, TOC, EDD verification form check; metals cover page

Melissa,

Could the laboratory please check the following?

EDD mercury result for sample SJNE-022-GR2 (K1005106-003). The raw data and Form 1 mercury result = **0.178** mg/kg; EDD resut = **0.247** mg/kg.

Also, could they please check the sample name for SJNE-022-GR2 (K1005106-003) on the Cover Page of the Inorganic Analysis Data Package? The sample name for this particular sample was listed as SJNE-022-GR3S on the Cover Page of the Inorganic Analysis Data Package.

Could the lab please verify the TOC EDD result for sample K1005106-003DUP? The raw data and QUAD summary report results differ from the EDD result. Also could they check the QUAD summary report results for the following samples as they differ slightly from the raw data and EDD results; possibly due to rounding? The discrepancies are in bold.

TOC Results:

Sample ID	QUAD Summary Rpt	Raw Data	EDD Result
K1005106-003DUP	1.89	1.89	**1.55**
K1005106-006	**0.170**	0.171	0.171
K1005106-006DUP	**0.180**	0.183	0.183
K1005106-007	**0.100**	0.101	0.101
K1005106-007DUP	**0.110**	0.112	0.112

Change per MCS in database.

Jeremy Maute

From: Melissa Swanson
Sent: Thursday, July 22, 2010 12:57 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Cc: Melissa Swanson
Subject: SJWP K100E263 metals & SVOC

Hi All,

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Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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Jeremy Maute

From: Melissa Swanson
Sent: Friday, July 23, 2010 1:39 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Subject: FW: SJWP K1005263 metals & SVOCs
Attachments: S011000384_1007231323000.pdf

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Sent: Friday, July 23, 2010 1:33 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP K1005263 metals & SVOCs

See attached for cancellation.

Gregory Salata, Ph.D.

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1317 S. 13th Ave
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360-577-7222 x3376 (office)
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Greg Salata

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To: Greg Salata
Subject: RE: San Jacinto Sample Receipt Forms
Attachments: Cancel Analyses on San Jacinto Samples recieved outside temperature limits

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SJNE066-GR1
SJNE067-GR1
SJNE069-GR1
SJNE070-GR1
SJSH056-GR1
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SJSH058-GR1
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Thanks, let me know if you have questions.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502

Jeremy Maute

From: Melissa Swanson
Sent: Tuesday, July 20, 2010 10:21 AM
To: Jim Hall; dorothy kerlin; Mark Brindle; Rose Defawe; Jeremy Maute; Melissa Swanson
Subject: FW: filter wipe associations

Hello All,

There is a master field blank (see below), please prioritize the package(s) containing this master blank so we can then associate it with the filter wipes and hopefully any hits there will go away. I know we are all super slammed right now, but please do the best you can.

SDFW-920S (E1000570-010 & K1005351-20)

Thanks a bunch,

Melissa

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To: dorothy kerlir; Jeremy Maute; Mark Brindle
Cc: Melissa Swanson
Subject: SJWP K1006263 metals & SVOC

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1205 West Bay Drive NW | Olympia, WA 98502

dorothy kerlin

From: dorothy kerlin
Sent: Wednesday, July 28, 2010 12:52 PM
To: Melissa Swanson
Subject: SJWP, K1005359, TOC, Date Analyzed

Melissa,

For samples K1005359-007 through 014 all of the Analytical Report pages including QC summary results, have a date analyzed of 06/19/20. The date analyzed on the first page of the TOC run log (page 74 of the data package) has a date analyzed of 06/19/20. The second and third pages of the analysis run log have a date analyzed of 06/19/10 (pages 75 and 76 of the data package).

Dorothy Kerlin

Lab submitted the corrected forms on 08.04.10.
DJK

dorothy kerlin

From: Melissa Swanson
Sent: Wednesday, August 04, 2010 11:57 AM
To: dorothy kerlin
Subject: FW: K1005359.01 Revision RE: San Jacinto Waste Pits/C643 0901
Importance: High
Attachments: K1005359.01.pdf

Now with the correct analysis date!

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

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From: Eleanor Peterson [mailto:epeterson@caslab.com]
Sent: Wednesday, August 04, 2010 11:56 AM
To: chutchings@integral-corp.com; Melissa Swanson
Cc: Greg Salata
Subject: K1005359.01 Revision RE: San Jacinto Waste Pits/C643 0901
Importance: High

Eleanor Peterson
Copy Center

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Melissa Swanson

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Sunday, May 09, 2010 11:51 AM
To: Melissa Swanson
Subject: Wipe blanks

Melissa,
Regarding the wipe blanks, to properly evaluate them you should know how much sample was processed through the equipment and divide ug/wipe by kg processed. Anchor took the samples and hasn't gotten back to me about the mass processed. Since I know that they collected an 8 oz & a 4 oz jar they collected at least 12 oz of sample. Assuming a mass of 1.33 g/cc and knowing that there are 29.57 cc/fluid oz that works out to a mass of 472 g (0.472 kg). This is a conservative estimate, but will work. Please double check my math and if it works out use that mass in your calculation and include this email in the records.

Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

Jeremy Maute

From: Melissa Swanson
Sent: Tuesday, July 20, 2010 10:21 AM
To: Jim Hall; dorcthy kerlin; Mark Brindle; Rose Defawe; Jeremy Maute; Melissa Swanson
Subject: FW: filter wipe associations

Hello All,

There is a master field blank (see below), please prioritize the package(s) containing this master blank so we can then associate it with the filter wipes and hopefully any hits there will go away. I know we are all super slammed right now, but please do the best you can.

SDFW-920S (E1000570-010 & K1005351-20)

Thanks a bunch,

Melissa

Jeremy Maute

From: Melissa Swanson
Sent: Thursday, July 22, 2010 12:57 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Cc: Melissa Swanson
Subject: SJWP K1005263 metals & SVOC

Hi All,

While Dorothy was printing EDDs for verification she discovered there were not as many samples in the dbase as were listed on the status sheet. I contacted the lab and they confirmed that most of the analyses were cancelled. The lab is looking for the supporting documentation which I will pass onto you all. Please print a copy and clip to your worksheets with a post it along the edge marked comm log.

Regards,

Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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or otherwise disseminating it. Please notify sender that you received this communication in error.

Jeremy Maute

From: Melissa Swanson
Sent: Friday, July 23, 2010 1:39 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Subject: FW: SJWP K1005263 metals & SVOCs
Attachments: S011000384_1007231323000.pdf

Please print this email and attachment and include with your worksheets for this data package (that goes for aroclor, too).

Regards,

Melissa

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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Friday, July 23, 2010 1:33 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP K1005263 metals & SVOCs

See attached for cancellation.

Gregory Salata, Ph.D.

Columbia Analytical Services, Inc.
1317 S. 13th Ave
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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Thursday, July 22, 2010 12:23 PM
To: Craig Hutchings; Greg Salata
Subject: SJWP K1005263 metals & SVOCs

Hi Greg & Craig,

While printing EDDs for verification I learned that SDG K10005263 had only one sample in the EDD (SJVS001-GR1 K1005263-001) for metals and SVOCs (full SVOC list, not just BEHP). I looked at the hard copy and we have received hard copy only for this single sample. The COC lists 11 samples and the narrative states 11 samples were received. There were no accompanying emails mentioning canceled analyses. Were 10 analyses canceled?

Regards,

Melissa

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Greg Salata

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Wednesday, May 26, 2010 3:03 PM
To: Greg Salata
Subject: RE: San Jacinto Sample Receipt Forms
Attachments: Cancel Anayses on San Jacinto Samples recieved outside temperature limits

Greg,
Here you go:
K1005175, K1005028: Praceep sent these to me on Friday and I reviewed them then. Note one change below to K1005175.

K1005021, K1005237, K1005028, K1005235, k1005253, K1005281, & K1005282 are good.

K1005175: Add TOC, 6010/6020 metals, 7471 Hg, grain size, 8270 BEHP only, and PCDD/F to SJSH040-CR1A-2 (K1005175-012). This means an aliquot will need to be sent to Houston.

K1005106: Add 72 hour TAT VOCs to SJGB-004-GR1 (K1005106-004), SJSH-061-GR1 (K1005106-005), SJSH-060-GR1 (K1005106-006) & SJSH-059-GR1 (K1005106-007). Analyses for SJSH-064-GR1, SJSH064-GR2, SJSH063-GR1, SJSH062-GR1, SJGB-005-GR1, SJGB-007-GR2, SJGB-008-GR1, SJSH-058-GR1, SJSH057-GR1, and SJSJ-056-GR1 were canceled on 5/21 in the attached email.

K1005262: I would have canceled all samples except SJVS001-GR1, but it's too late for that now.

K1005263: Cancel all samples except SJVS001-GR1.

K1005283: I would have canceled all samples except SJVS016-GR1, but again it's too late for that now.

K1005284: Cancel all analyses except SJVS016-GR1

That hit some of the samples that I requested rush VOCs on, but the samples below were not in those SDG and should have either arrived at Kelso already or should be arriving tomorrow.
SJGB005-GR1
SJGB007-GR1
SJGB008-GR1
SJNE001-GR1
SJNE004-GR1
SJNE005-GR1
SJNE050-GR1
SJNE066-GR1
SJNE067-GR1
SJNE069-GR1
SJNE070-GR1
SJSH056-GR1
SJSH057-GR1
SJSH058-GR1
SJSH062-GR1
SJSH063-GR1
SJSH064-GR1
SJSH064-GR1

Thanks, let me know if you have questions.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502

Jeremy Maute

From: Melissa Swanson
Sent: Thursday, July 22, 2010 12:57 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Cc: Melissa Swanson
Subject: SJWP K1005263 metals & SVOC

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K1005106: Add 72 hour TAT VOCs to SJGB-004-GR1 (K1005106-004), SJSH-061-GR1 (K1005106-005), SJSH-060-GR1 (K1005106-006) & SJSH-059-GR1 (K1005106-007). Analyses for SJSH-064-GR1, SJSH064-GR2, SJSH063-GR1, SJSH062-GR1, SJGB-005-GR1, SJGB-007-GR2, SJGB-008-GR1, SJSH-058-GR1, SJSH057-3R1, and SJSJ-056-GR1 were canceled on 5/21 in the attached email.

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SJNE004-GR1
SJNE005-GR1
SJNE050-GR1
SJNE066-GR1
SJNE067-GR1
SJNE069-GR1
SJNE070-GR1
SJSH056-GR1
SJSH057-GR1
SJSH058-GR1
SJSH062-GR1
SJSH063-GR1
SJSH064-GR1
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Thanks, let me know if you have questions.

Craig Hutchings | Scientist
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Subject: FW: SJWP K1005263 metals & SVOCs
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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Friday, July 23, 2010 1:33 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP K1005263 metals & SVOCs

See attached for cancellation.

Gregory Salata, Ph.D.

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Sent: Thursday, July 22, 2010 12:23 PM
To: Craig Hutchings; Greg Salata
Subject: SJWP K1005263 metals & SVOCs

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Melissa Swanson

From: Greg Salata [gsalata@caslab.com]
Sent: Tuesday, August 10, 2010 4:55 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP, K1005523, TOC, Request for verification of result

The analysis date is 6/22. The 7/27 date must have been an error/artifact introduced during report regeneration.

Please note that I will be out of the office August 20.

Gregory Salata, Ph.D.

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From: Melissa Swanson [mailto:mswanson@ecochem.net]
Sent: Tuesday, August 10, 2010 3:59 PM
To: Greg Salata; Craig Hutchings
Subject: RE: SJWP, K1005523, TOC, Request for verification of result

Greg,

We need to deliver the qualified EDD tomorrow. Any chance you have heard back on the below topic?

Did the resub EDD get sent to Tom Schultz for the K1005028, SVOC-short list, Surrogate issue?

Regards,
Melissa

Melissa Swanson
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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Tuesday, August 10, 2010 8:35 AM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP, K1005523, TOC, Request for verification of result

Not yet. I asked about it yesterday afternoon but never heard back. I forwarded your e-mail.

Gregory Salata, Ph.D.

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Sent: Tuesday, August 10, 2010 8:21 AM
To: Melissa Swanson; Craig Hutchings; Greg Salata
Subject: RE: SJWP, K1005523, TOC, Request for verification of result

Hi Greg,

Any word on the below? I didn't want it to fall through the cracks.

Thanks,

Melissa

From: Melissa Swanson
Sent: Monday, August 09, 2010 10:16 AM
To: Craig Hutchings; 'Greg Salata'
Subject: FW: SJWP, K1005523, TOC, Request for verification of result

Hi Greg,

A couple of things:
1) SJSH019-CR1A (lab ID=K1005523-024TRP) TOC results, the EDD has a value of 0.431% for the triplicate sample.

The value of K1005523-024TRP is 0.373 on form 1
2) Sample SJSH014-CR1B-1 was analyzed for TOC on 6/22/10 in original summary forms. On the resubmitted forms SJSH014-CR1B-1 was analyzed for TOC on 7/27/10, which is correct?

Regards,
Melissa

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Sent: Monday, August 09, 2010 10:12 AM
To: Melissa Swanson
Subject: SJWP, K1005523, TOC, Request for verification of result
Hi Melissa,

A comparison of the lab EDD with the hard copy lab data package revealed a discrepancy. For sample SJSH019-CR1A (lab ID=K1005523-024TRP) TOC results, the EDD printout notes a value of 0.431% for the triplicate sample. The value o K1005523-024TRP is 0.373 on form 1. The TOC analysis was performed on 6/22/10 by CAS. Could you see if the lab would check this data and find out if it was just a transcription error on the EDD?

Also, CAS resubmitted full summary forms for K1005523 TOC results (email correspondence on 8/4/10). The new TOC RSDs are included in the resub forms. The new RSDs have been verified to be correct. Besides quadruplicate RSDs, one discrepancy exists between initial summary forms received and the resubmitted forms. Sample SJSH014-CR1B-1 was analyzed for TOC on 6/22/10 in original summary forms. This analysis date falls within holding time control limits. On the resubmitted forms SJSH014-CR1B-1 was analyzed for TOC on 7/27/10, putting the analysis date outside of prescribed holding time control limits. Which analysis date (and which set of summary forms) should be used? The resubmitted summary forms would warrant qualification due to holding time requirements.

Thank you.

Melissa Swanson

From: Greg Salata [gsalata@caslab.com]
Sent: Tuesday, August 10, 2010 4:53 PM
To: Melissa Swanson; Craig Hutchings
Subject: RE: SJWP, K1005523, TOC, Request for verification of result

Melissa,
The result of 0.373 appears to be the correct result, based on the raw data. I'm getting the other issue sorted out now.

Please note that I will be out of the office August 20.

Gregory Salata, Ph.D.

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Thank you.

Jeremy Maute

From: dorothy kerlin
Sent: Thursday, August 05, 2010 8:24 AM
To: Jeremy Maute
Subject: FW: K1005523.01 Revision RE: San Jacinto Waste Pits/C643 0901
Importance: High
Attachments: K1005523.01.pdf

For SDG K1005523.

Dorothy

From: Melissa Swanson
Sent: Wednesday, August 04, 2010 12:00 PM
To: dorothy kerlin
Subject: FW: K1005523.01 Revision RE: San Jacinto Waste Pits/C643 0901
Importance: High

more

Regards,
Melissa

Melissa Swanson
EcoChem, Inc.
Project Chemist

710 Second Ave, Suite 660, Seattle, WA 98104
DIRECT: 206.233.9332 ext. 102 - FAX: 206.233.0114
EMAIL: mswanson@ecochem.net

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From: Eleanor Peterson [mailto:epeterson@caslab.com]
Sent: Wednesday, August 04, 2010 12:00 PM
To: chutchings@integral-corp.com; Melissa Swanson
Cc: Greg Salata
Subject: K1005523.01 Revision RE: San Jacinto Waste Pits/C643 0901
Importance: High

Eleanor Peterson
Copy Center

Columbia Analytical Services, Inc.
1317 S. 13th Ave
Kelso, WA 98626
360-577-7222 (office)
360-577-3378 (direct)
www.caslab.com

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Jeremy Maute

From: Melissa Swanson
Sent: Tuesday, July 20, 2010 10:21 AM
To: Jim Hall; dorothy kerlin; Mark Brindle; Rose Defawe; Jeremy Maute; Melissa Swanson
Subject: FW: filter wipe associations

Hello All,

There is a master field blank (see below), please prioritize the package(s) containing this master blank so we can then associate it with the filter wipes and hopefully any hits there will go away. I know we are all super slammed right now, but please do the best you can.

SDFW-920S (E1000570-010 & K1005351-20)

Thanks a bunch,

Melissa

Melissa Swanson

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Sunday, May 09, 2010 11:51 AM
To: Melissa Swanson
Subject: Wipe blanks

Melissa,
Regarding the wipe blanks, to properly evaluate them you should know how much sample was processed through the equipment and divide ug/wipe by kg processed. Anchor took the samples and hasn't gotten back to me about the mass processed. Since I know that they collected an 8 oz & a 4 oz jar they collected at least 12 oz of sample. Assuming a mass of 1.33 g/cc and knowing that there are 29.57 cc/fluid oz that works out to a mass of 472 g (0.472 kg). This is a conservative estimate, but will work. Please double check my math and if it works out use that mass in your calculation and include this email in the records.

Thanks.

Craig Hutchings | Scientist
Integral Consulting Inc. | www.integral-corp.com
1205 West Bay Drive NW | Olympia, WA 98502
Tel: 360.705.3534, ext. 17 | Cell: 360.485.3679 | Fax: 360.705.3669

HEALTH ENVIRONMENT TECHNOLOGY SUSTAINABILITY

Jeremy Maute

From: Melissa Swanson
Sent: Thursday, July 22, 2010 12:57 PM
To: dorothy kerlin; Jeremy Maute; Mark Brindle
Cc: Melissa Swanson
Subject: SJWP K1005263 metals & SVOC

Hi All,

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From: Greg Salata [mailto:gsalata@caslab.com]
Sent: Friday, July 23, 2010 1:33 PM
To: Melissa Swanson; Craig Hutchings
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Gregory Salata, Ph.D.

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Greg Salata

From: Craig Hutchings [chutchings@integral-corp.com]
Sent: Wednesday, May 26, 2010 3:03 PM
To: Greg Salata
Subject: RE: San Jacinto Sample Receipt Forms
Attachments: Cancel Analyses on San Jacinto Samples recieved outside temperature limits

Greg,
Here you go:
K1005175, K1005028: Pradeep sent these to me on Friday and I reviewed them then. Note one change below to K1005175.

K1005021, K1005237, K1005028, K1005235, k1005253, K1005281, & K1005282 are good.

K1005175: Add TOC, 6010/6020 metals, 7471 Hg, grain size, 8270 BEHP only, and PCDD/F to SJSH040-CR1A-2 (K1005175-012). This means an aliquot will need to be sent to Houston.

K1005106: Add 72 hour TAT VOCs to SJGB-004-GR1 (K1005106-004), SJSH-061-GR1 (K1005106-005), SJSH-060-GR1 (K1005106-006) & SJSH-059-GR1 (K1005106-007). Analyses for SJSH-064-GR1, SJSH064-GR2, SJSH063-GR1, SJSH062-GR1, SJGB-005-GR1, SJGB-007-GR2, SJGB-008-GR1, SJSH-058-GR1, SJSH057-GR1, and SJSJ-056-GR1 were canceled on 5/21 in the attached email.

K1005262: I would have canceled all samples except SJVS001-GR1, but it's too late for that now.

K1005263: Cancel all samples except SJVS001-GR1.

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That hit some of the samples that I requested rush VOCs on, but the samples below were not in those SDG and should have either arrived at Kelso already or should be arriving tomorrow.
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SJGB007-GR1
SJGB008-GR1
SJNE001-GR1
SJNE004-GR1
SJNE005-GR1
SJNE050-GR1
SJNE066-GR1
SJNE067-GR1
SJNE069-GR1
SJNE070-GR1
SJSH056-GR1
SJSH057-GR1
SJSH058-GR1
SJSH062-GR1
SJSH063-GR1
SJSH064-GR1
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Thanks, let me know if you have questions.

Craig Hutchings | Scientist
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1205 West Bay Drive NW | Olympia, WA 98502

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SJGB007-GR1
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SJNE001-GR1
SJNE004-GR1
SJNE005-GR1
SJNE050-GR1
SJNE066-GR1
SJNE067-GR1
SJNE069-GR1
SJNE070-GR1
SJSH056-GR1
SJSH057-GR1
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SJSH064-GR1
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Thanks, let me know if you have questions.

Craig Hutchings | Scientist
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Through proper planning and focused QA coordination and oversight, we ensure data of known quality and usability. We prepare specific QA/QC documents
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DATA VALIDATION REPORT

Cedar Bayou Sediment Sampling

Prepared for
McGinnes Industrial Maintenance Corporation
International Paper Company

Prepared by

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February 2012

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ACRONYMS AND ABBREVIATIONS

CAS	Columbia Analytical Services, Inc.
CCAL	continuing calibration
DNR	do-not-report
EMPC	estimated maximum possible concentration
GC/MS	gas chromatograph/mass spectrometer
HpCDD	heptachlorodibenzo-p-dioxin
HxCDF	hexachlorodibenzo-p-furan
ICAL	initial calibration
MRL	method reporting limit
MS	matrix spike
MSD	matrix spike duplicate
OCDD	octachlorodibenzo-p-dioxin
OPR	ongoing precision and control
PCDD	polychlorinated dibenzodioxin
PCDF	polychlorinated dibenzofuran
QA/QC	quality assurance and quality control
RPD	relative percent difference
RRT	relative retention time
RT	retention time
SAP	sampling and analysis plan

SDG	sample delivery group
TCDF	tetrachlorodibenzo-p-furan
TOC	total organic carbon
USEPA	U.S. Environmental Protection Agency

1 INTRODUCTION

1.1 INTRODUCTION

This report presents the findings of the data validation of sediments and associated quality control samples analyzed for polychlorinated dibenzodioxins (PCDDs) and dibenzofurans (PCDFs) by U.S. Environmental Protection Agency (USEPA) Method 1613B (USEPA 1994) and total organic carbon (TOC) by USEPA Method 9060 (USEPA 2004a). The PCDD/F analyses were performed by Columbia Analytical Services (CAS) in Houston, Texas and reported in sample delivery group (SDG) E1000931. The TOC analyses were performed by CAS' laboratory in Kelso, Washington and reported in SDG K1009260. The samples reviewed are summarized in Table 1-1.

The samples received a Level IV (Stage 4) validation which included a review of all laboratory summary forms and raw data; re-calculation of a minimum of 10% of instrument calibration, sample results, and quality control (QC) results; and a review of compound identifications. The data validation was based upon criteria described in the Sampling and Analysis Plan (SAP): Sediment Study San Jacinto River Waste Pits Superfund Site (Integral and Anchor QEA, April 2010); USEPA National Functional Guidelines for Chlorinated Dioxin/Furan Data Review (USEPA, September 2005); and USEPA National Functional Guidelines for Inorganic Data Review (USEPA, October 2004b), and the referenced analytical methods.

Qualifiers resulting from the validation process were entered into the project database. A reason code providing an explanation for qualification was also entered into the database. Data qualifier definitions are provided in Table 1-2 and reason code definitions are provided in Table 1-3. EcoChem, Inc. of Seattle, Washington validated the majority of sediment samples associated with this project; therefore, EcoChem's data qualifier and reason code definitions are used in this data validation report to maintain consistency.

The quality assurance and quality control (QA/QC) parameters reviewed are discussed in Section 2. Overall data quality assessment and usability of the dataset are discussed in Section 3. References are provided in Section 4.

2 FINDINGS

2.1 PARAMETERS REVIEWED

The data were reviewed with respect to the QA/QC parameters described below. A summary of the QA/QC parameters and whether data validation criteria were met is presented in Table 2-1.

2.2 SAMPLE RECEIPT AND HOLDING TIMES

Samples were received in good condition and with complete chain of custody forms. The samples for TOC analyses were received at CAS Kelso at 0.7 °C, below the lower control limit of 2°C. This temperature was determined to have no impact on the data and no qualifiers were assigned.

All samples were extracted and analyzed within the holding times specified in the SAP.

2.3 LABORATORY BLANKS

Method blanks were analyzed at the appropriate frequency and were free from contamination, with the exceptions noted below.

PCDD/F: Octachlorodibenzo-p-dioxin (OCDD) was detected in the laboratory blank associated with the sediment samples. All sample results for OCDD were greater than five times the concentration reported in the blank and no qualifiers were assigned. OCDD was detected in the laboratory blank associated with the filter wipe sample, and an estimated maximum possible concentration (EMPC) for 1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin (HpCDD) was also reported in this blank. The concentration of OCDD in the filter blank, sample SJCB-EB-001, was less than five times the blank concentration and the OCDD result in the filter blank was qualified as not detected (U-7). 1,2,3,4,6,7,8-HpCDD was not detected in the filter blank.

2.4 FIELD BLANKS

One equipment filter wipe (SJCB-EB-01)) was analyzed for dioxins and furans. After qualifiers based on the method blank were assigned a positive value for total HpCDD remained. The concentrations of total HpCDD in all sediment samples were much greater than the concentration in the filter wipe and no qualifiers were assigned.

2.5 LABELED COMPOUNDS

Labeled compounds were added to all samples for PCDD/F analyses and the recoveries in all samples were within the control limits specified in Table 7 of USEPA Method 1613B (USEPA 1994).

2.6 MATRIX SPIKES/MATRIX SPIKE DUPLICATES

Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed with the TOC analyses and the percent recoveries and relative percent difference (RPD) value met the laboratory control limits. MS/MSD analyses were not performed for PCDD/F analyses. Analytical accuracy was evaluated with the ongoing precision and recovery (OPR) samples.

2.7 ONGOING PRECISION AND CONTROL / LABORATORY CONTROL SAMPLES

PCDD/F: The recoveries of all analytes in the OPR samples met the criteria set forth in Table 6 of the method (USEPA 1994).

TOC: The recovery of TOC in the laboratory control sample met the laboratory control limits.

2.8 LABORATORY DUPLICATES

TOC: A matrix spike duplicate (Section 2.6) was analyzed in place of a laboratory duplicate and was used to assess analytical precision.

2.9 FIELD DUPLICATES

One set of field homogenization duplicates (split samples) were submitted, samples SJCB 001-082610 and SJCB 004-082610. For this project the target control limits for field replicates are RPDs less than 50%, for values greater than five times the method reporting limit (MRL). For values less then five times the MRL, the absolute difference should be less than the twice the MRL. These control limits were met for all analytes.

2.10 METHOD REPORTING LIMITS (MRL) AND METHODOLOGY

PCDD/F: Reporting limits for all samples met the limits set forth in Table 2 of the method (USEPA 1994). Relative retention times (RRT) generally met the limits set forth in Table 2 of the method (USEPA 1994). The RRTs of 13C-1,2,3,4,6,7,8-HpCDD and 13C-1,2,3,4,7,8-hexachloro-p-dibenzofuran (HxCDF) were outside the control limits specified in the method; however, the

RRTs for these compounds were consistent in the initial calibration (ICAL), all continuing calibrations (CCAL), and samples thus no qualifiers were assigned.

All ion abundance ratios for detected analytes met the limits set forth in Table 9 of the method (USEPA 1994) or laboratory specific control criteria, except for analytes reported as EMPC by the laboratory. Analytes reported as EMPCs were flagged with a *K* by the laboratory and were restated as not detected (U-22).

All detected results for 2,3,7,8-tetrachlorodibenzo-p-furan (TCDF) were confirmed on a DB-225 column as required by the method (USEPA 1994). Detected results for 2,3,7,8-TCDF from the DB-5 column were qualified do-not-report (DNR-11) to indicate that they should not be used.

Lock mass interferences near, but not at, the retention time (RT) of 1,2,3,7,8,9-HxCDF were noted in samples SJCB 001-082610 and SJCB 002-082610. The recoveries of the labeled compound 13C-1,2,3,7,8,9-HxCDF were acceptable in all samples, and as the lock mass disturbances were near, but not at the RT for 1,2,3,7,8,9-HxCDF no data were qualified. Several other lock mass disturbances were observed but their RT was not near any target analyte.

TOC: Quadruplicate analyses were performed on all samples as specified in USEPA Method 9060 (USEPA2004a).

2.11 INSTRUMENT PERFORMANCE

PCDD/F: Gas chromatograph/mass spectrometer (GC/MS) performance checks generally met the method specified criteria. The window defining mixture and isomer specificity check were combined in a single column performance solution. Homologue group windows were defined at the start of each 12-hour shift. Valley heights for all 2,3,7,8-substituted isomers were less than 25% and the absolute retention times of $^{13}C_{12}$-1,2,3,4-TCDD were greater than 25.0 minutes on the DB-5 column and greater than 15.0 minutes on the DB-225 column.

The resolution of mass 318.9792 was less than the method specified limit of 10,000 in the mass resolution checks associated with the ICAL. The mass resolutions for all masses were greater than or equal to 10,000 in the checks associated with all sample analyses and no qualifiers were assigned.

2.12 INITIAL CALIBRATION

PCDD/F: All ICAL percent relative standard deviation values met the method specified criteria of less than or equal to 20% for analytes calibrated by isotope dilution and 35% for analytes calibrated by internal standard.

2.13 CONTINUING CALIBRATION

PCDD/F: All CCAL standards met the criteria set forth in Table 6 of the method (USEPA 1994). All analytes in the calibration standards met the ion abundance criteria set forth in Table 9 of the method (USEPA 1994) and all signal-to-noise ratios were greater than 10.

TOC: The recoveries in all CCAL were within the control limits of 90% to 110%.

2.14 RECALCULATION CHECKS

Recalculation checks were performed for 10% of the target analytes in all ICALs, and in 10% of the CCALs, samples, OPR/LCS, and MS/MSD. Results were also checked for transcription errors. No calculation or transcription errors were noted.

2.15 COMPOUND IDENTIFICATION

The compound identification was reviewed for 10% of the samples analyzed for PCDD/F, no discrepancies were noted.

3 OVERALL ASSESSMENT

3.1 DATA QUALIFICATION

A total of 133 results were reported. Ten results were qualified as not detected due to ion abundance ratio outliers and four results were qualified as do-not-report (DNR) to indicate which result should be used when multiple results exist. A usable result exists for all results qualified DNR and no results were rejected (R) so completeness was 100%. A summary of all qualified results is presented in Table 3-1.

3.2 DATA USABILITY

The data meet the criteria set forth in the referenced quality assurance documents, with the exceptions noted above. All results are acceptable for their intended use, as qualified.

4 REFERENCES

Integral and Anchor QEA, 2010. Sampling and Analysis Plan: Sediment Study. San Jacinto River Waste Pits Superfund Site. Prepared for McGinnes Industrial Maintenance Corporation, International Paper Company, and U.S. Environmental Protection Agency, Region 6. Anchor QEA, Ocean Springs, MS, and Integral Consulting Inc., Seattle, WA.

USEPA. 1994. Method 1613, Revision B, Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS. U.S. Environmental Protection Agency, Office of Water, Washington, DC. October 1994.

USEPA 2004a. SW-846: Test Methods for Evaluating Solid Wastes Physical/Chemical Methods, Method 9060A, Total Organic Carbon, Revision 1, November 2004

USEPA. 2004b. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. USEPA-540-R-04-004. October 2004. Office of Superfund Remediation and Technology Innovation, U.S. Environmental Protection Agency, Washington, DC.

USEPA. 2005. USEPA Analytical Services Branch National Functional Guidelines for Chlorinated Dibenzo-*p*-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) Data Review. EPA 540/R-05/001. U.S. Environmental Protection Agency,Office of Superfund Remediation and Technology Innovation, Washington, DC. September 2005.

Table 1-1. Sample Summary

Sample ID	Date Sampled	CAS Houston ID	CAS Kelso ID
SJCB 001-082610	8/26/2010	E1000931-001	K1009260-001
SJCB 002-082610	8/26/2010	E1000931-002	K1009260-002
SJCB 003-082610	8/26/2010	E1000931-003	K1009260-003
SJCB 004-082610	8/26/2010	E1000931-004	K1009260-004
SJCB-EB-001	8/26/2010	E1000931-005	--

Table 1-2. Definition of Data Qualifiers

Data Qualifier	Definition
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents the approximate concentration.
DNR	Do not report; a more appropriate result is reported from another analysis or dilution.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 1-3. Definition of Data Validation Reason Codes

Reason Code	Definition
1	Holding Time/Sample Preservation
2	Chromatographic pattern in sample does not match pattern of calibration standard.
3	Compound Confirmation
4	Tentatively Identified Compound (TIC) (associated with NJ only)
5A	Calibration (initial)
5B	Calibration (continuing)
6	Field Blank Contamination
7	Lab Blank Contamination (e.g., method blank, instrument, etc.)
8	Matrix Spike(MS & MSD) Recoveries
9	Precision (all replicates)
10	Laboratory Control Sample Recoveries
11	A more appropriate result is reported (associated with “R” and “DNR” only)
12	Reference Material
13	Surrogate Spike Recoveries (a.k.a., labeled compounds & recovery standards)
14	Other (define in validation report)
15	GFAA Post Digestion Spike Recoveries
16	ICP Serial Dilution % Difference
17	ICP Interference Check Standard Recovery
18	Trip Blank Contamination
19	Internal Standard Performance (e.g., area, retention time, recovery)
20	Linear Range Exceeded
21	Potential False Positives
22	Elevated Detection Limit Due to Interference (i.e., laboratory, chemical and/or matrix)

Table 2-1. QA/QC Parameters Reviewed

QA/QC Parameter	Analytical Parameter PCDD/F EPA 1613B	Analytical Parameter TOC EPA 9060
Sample Receipt & Holding Times	+	D
Laboratory Blanks	Q	+
Field Blanks	D	N/A
Labeled Compounds	+	N/A
MS/MSD	N/A	+
OPR / LCS	+	+
Laboratory Duplicates	N/A	N/A
Field Duplicates	+	+
MRL & Methodology	Q	+
Instrument Performance	D	N/A
Initial Calibration	+	N/A
Continuing Calibration	+	+
Recalculation Checks	+	+
Compound Identification	+	N/A

Notes:

+ – All QA/QC criteria met

D – Data are discussed below. QA/QC criteria were not met; however no data were qualified.

Q – Data were qualified and are discussed below.

LCS – laboratory control sample

MRL – method reporting limit

MS/MSD – matrix spike/matrix spike duplicate

OPR - ongoing precision and recovery

QA/QC – quality assurance and quality control

Table 3-1. Summary of Qualified Data

SDG	Sample	Analyte	Result	Estimated Detction Limit	Lab Qualifier	DV Qualifier	DV Qualifier Reason	Units	Basis
E1000931	SJCB 001-082610	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.209	0.105	JK	U	22	ng/kg	DryWt
E1000931	SJCB 001-082610	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.191	0.104	JK	U	22	ng/kg	DryWt
E1000931	SJCB 001-082610	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.349	0.131	JK	U	22	ng/kg	DryWt
E1000931	SJCB 001-082610	2,3,7,8-Tetrachlorodibenzo-p-furan	1.27	0.123	CJ	DNR	11	ng/kg	DryWt
E1000931	SJCB 002-082610	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.371	0.0883	JK	U	22	ng/kg	DryWt
E1000931	SJCB 002-082610	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.132	0.0571	JK	U	22	ng/kg	DryWt
E1000931	SJCB 002-082610	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.158	0.103	JK	U	22	ng/kg	DryWt
E1000931	SJCB 002-082610	2,3,7,8-Tetrachlorodibenzo-p-furan	0.891	0.101	CJ	DNR	11	ng/kg	DryWt
E1000931	SJCB 003-082610	2,3,7,8-Tetrachlorodibenzo-p-furan	1.22	0.177	CJK	DNR	11	ng/kg	DryWt
E1000931	SJCB 004-082610	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.163	0.0506	JK	U	22	ng/kg	DryWt
E1000931	SJCB 004-082610	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.226	0.12	JK	U	22	ng/kg	DryWt
E1000931	SJCB 004-082610	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.221	0.104	JK	U	22	ng/kg	DryWt
E1000931	SJCB 004-082610	2,3,7,8-Tetrachlorodibenzo-p-furan	1.02	0.0904	CJ	DNR	11	ng/kg	DryWt
E1000931	SJCB-EB-001	Octachlorodibenzo-p-dioxin	7.14	1.1	BJ	U	7	pg	AsReceived

CHEMISTRY DATA VALIDATION REPORTS FOR GROUNDWATER

EcoChem, INC.
Environmental Data Quality

DATA VALIDATION REPORT

SAN JACINTO RIVER WASTE PITS
Groundwater Study

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EcoChem Project: C22130-7

March 18, 2011

Approved for Release

Melissa Swanson

Basis for Data Validation

This report summarizes the results of the validation (Stage 2A, Stage 2B, and Stage 3/4) performed on groundwater and soil and quality control (QC) sample data for the San Jacinto River Groundwater Study. A complete list of samples is provided in the **Sample Index**. Laboratory batch ID numbers and associated level of validation are provided at the beginning of each technical section

Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington and Columbia Analytical Services, Inc., Houston, Texas. The analytical methods and EcoChem project chemists are listed below.

Analysis	Method of Analysis	Primary Review	Secondary Review
Semivolatile Organic Compounds	SW8270C	R. Frans	E. Strout
Polychlorinated Biphenyls (Aroclors)	SW8082	M. Brindle	C. Mott
Dioxin & Furan Compounds	EPA1613B	M. Swanson/ M. Brindle	
Metals	SW6010B, SW6020A, ICP-AES CLAA, ICPMS CLAA, SW7470A/SW7471A	J. Maute	
Total Organic Carbon (TOC)	EPA9060		
Grain Size	PSEP		
Total Solids	EPA160.3M		
Total Suspended Solids	SM2540D		

The data were reviewed using guidance and quality control criteria documented in the analytical methods; the *Sampling and Analysis Plan: Revised Draft Groundwater Study San Jacinto River Waste Pits Superfund Site* (Integral/AnchorQEA, November 2010); *USEPA National Functional Guidelines for Chlorinated Dioxin/Furan Data Review* (USEPA, September 2005); *National Functional Guidelines for Organic Data Review* (USEPA 1999); and *USEPA National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004).

EcoChem's goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned an R, the data are to be rejected and should not be used for any site evaluation purposes. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Data qualifier definitions, reason codes, and validation criteria are included as **Appendix A**. The qualified data summary table is included as **Appendix B.** Data Validation Worksheets and the associated communication records will be kept on file at EcoChem, Inc. A qualified laboratory electronic data deliverable (EDD) was also submitted with this report.

Sample Index
San Jacinto River Waste Pits - Groundwater Study
CAS Kelso

SDG	Sample ID	Matrix	SVOC	BEHP	PCB	Metal	TOC	Grain Size	Total Suspended Solids	Total Solids
K1100062	SJMWD02S 2930	Soil						✓		✓
K1100062	SJMWD02S 3435	Soil						✓		✓
K1100062	SJMWD02S 3940	Soil						✓		✓
K1100062	SJMWD02S 4445	Soil						✓		✓
K1100062	SJMWS02-0-6	Soil		✓		✓	✓	✓		✓
K1100062	SJMWS02-6-12	Soil		✓		✓	✓	✓		✓
K1100062	SJMWD02S 0005	Soil						✓		✓
K1100062	SJMWD02S 0910	Soil						✓		✓
K1100062	SJMWD02S 1415	Soil						✓		✓
K1100062	SJMWD02S 1920	Soil						✓		✓
K1100062	SJMWD02S 2425	Soil						✓		✓
K1100062	SJMWD02 D1	Soil						✓		✓
K1100062	SJMWD02S 4950	Soil						✓		✓
K1100165	SJMWD02S 5455	GW						✓		✓
K1100165	SJMWD02S 5960	GW						✓		✓
K1100165	SJMWD02S 6465	GW						✓		✓
K1100165	SJMWD02S 6970	GW						✓		✓
K1100165	SJMWS04-W0000	GW	✓		✓				✓	
K1100165	SJMWS04-W0000	GW				✓				
K1100243	SJMWD03S 0005	Soil						✓		
K1100243	SJMWD03S 0910	Soil						✓		
K1100243	SJMWD03S 1415	Soil						✓		
K1100243	SJMWD03S 1920	Soil						✓		
K1100243	SJMWD03S 2425	Soil						✓		
K1100243	SJMWD03S 2930	Soil						✓		
K1100243	SJMWD03S 3435	Soil						✓		
K1100243	SJMWD03S 3940	Soil						✓		
K1100243	SJMWD03S 4445	Soil						✓		
K1100243	SJMWD03S 4950	Soil						✓		
K1100243	SJMWD03S 5455	Soil						✓		
K1100243	SJMWD03S 5960	Soil						✓		
K1100243	SJMWS03-0-6	Soil		✓		✓	✓	✓		✓
K1100243	SJMWS03-6-12	Soil		✓		✓	✓	✓		✓
K1100243	SJMWD01S 0005	Soil						✓		
K1100243	SJMWD01 D2	Soil						✓		
K1100243	SJMWD01S 0910	Soil						✓		
K1100243	SJMWD01S 1415	Soil						✓		
K1100243	SJMWD01S 1920	Soil						✓		
K1100243	SJMWD01S 2425	Soil						✓		
K1100243	SJMWD01S 2930	Soil						✓		
K1100243	SJMWD01S 3435	Soil						✓		
K1100243	SJMWD01S 3940	Soil						✓		
K1100243	SJMWS02-W0000	GW	✓		✓	✓			✓	
K1100243	SJMWS02-D1	GW	✓		✓	✓			✓	
K1100243	SJMWD02-W0000	GW	✓		✓	✓			✓	
K1100296	SJMWD01S 4445	Soil						✓		
K1100296	SJMWD01S 4950	Soil						✓		

Sample Index
San Jacinto River Waste Pits - Groundwater Study
CAS Kelso

SDG	Sample ID	Matrix	SVOC	BEHP	PCB	Metal	TOC	Grain Size	Total Suspended Solids	Total Solids
K1100296	SJMWD01S 5455	Soil						✓		
K1100296	SJMWD01S 5960	Soil						✓		
K1100296	SJMWD01S 6465	Soil						✓		
K1100296	SJMWS01-0-6	Soil		✓		✓	✓	✓		✓
K1100296	SJMWS01-6-12	Soil		✓		✓	✓	✓		✓
K1100296	SJMWS03-W0000	GW	✓		✓	✓			✓	
K1100296	SJMWD03-W0000	GW	✓		✓	✓			✓	
K1100296	DRILL H2O	GW	✓		✓	✓			✓	
K1100296	MWFW-9001	Wipe				✓				
K1100354	SJMWS01-W0000	GW	✓		✓	✓			✓	
K1100354	SJMWD01-W0000	GW	✓		✓	✓			✓	

Sample Index
San Jacinto Waste Pits - Groundwater Study
CAS Houston

SDG	Sample ID	Laboratory ID	Matrix	Dioxin
E1100001	SJMWS02-0-6	E1100001-005	Soil	✓
E1100001	SJMWS02-6-12	E1100001-006	Soil	✓
E1100005	SJMWS04-W0000	E1100005-005	GW	✓
E1100015	SJMWS02-W0000	E1100015-009	GW	✓
E1100015	SJMWS02-D1	E1100015-010	GW	✓
E1100015	SJMWD02-W0000	E1100015-011	GW	✓
E1100022	SJMWS03-0-6	E1100022-005	Soil	✓
E1100022	SJMWS03-6-12	E1100022-006	Soil	✓
E1100026	SJMWS03-W0000	E1100026-001	GW	✓
E1100026	SJMWD03-W0000	E1100026-002	GW	✓
E1100026	DRILL H2O	E1100026-003	GW	✓
E1100026	MWFW-9001	E1100026-004	GW	✓
E1100027	SJMWS01-0-6	E1100027-006	Soil	✓
E1100027	SJMWS01-6-12	E1100027-007	Soil	✓
E1100038	SJMWS01-W0000	E1100038-001	GW	✓
E1100038	SJMWD01-W0000	E1100038-002	GW	✓

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Groundwater Study - Water Samples
Semivolatile Organic Compounds by Method SW8270C

This report documents the review of analytical data from the analyses of water samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1100165	1 Groundwater	Stage 2B
K1100243	3 Groundwater	Stage 2B
K1100296	3 Water	Stage 4
K1100354	2 Groundwater	Stage 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative**.**

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Receipt, Preservation, and Holding Times		Laboratory Control Samples (LCS/LCSD)
	GC/MS Instrument Performance Check	1	Field Replicates
	Initial Calibration (ICAL)		Internal Standards
	Continuing Calibration (CCAL)		Target Analyte List
1	Laboratory Blanks		Reporting Limits (MDL and MRL)
1	Field Blanks		Compound Identification
1	Surrogate Compounds		Reported Results
1	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)	1	Calculation Verification (Full validation only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

The validation guidance documents state that sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.7°C. These outliers did not impact data quality; therefore no qualifiers were assigned.

Laboratory Blanks

To assess the impact of each blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration detected in the blank (10x for phthalates). If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-7) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

Method blanks were analyzed at the appropriate frequency. With the exception noted below, no target analytes were detected in the method blanks.

SDG K1100354: Phenol was detected in the method blank. Phenol was not detected in the associated samples. No data were qualified.

Field Blanks

No samples identified as field blanks were submitted.

Surrogate Compounds

SDG K1100165: The percent recovery (%R) value for the surrogate terphenyl-d14 in Sample SJMWS04-W0000 was less than the lower control limit. No data were qualified for this single outlier.

SDG K1100354: The %R value for the surrogate 2-fluorobiphenyl in the method blank was greater than the upper control limit. No data were qualified for this QC sample.

Matrix Spike/Matrix Spike Duplicates

All SDGs: Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Precision and accuracy were evaluated using the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) value control limit is 50% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1100243: One pair of field replicates was submitted, Samples SJMWS02-W0000 and SJMWS02-D1. All field precision was acceptable.

Calculation Verification

SDG K1100296: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by the surrogate and LCS/LCSD recovery values. Precision was also acceptable as demonstrated by the LCS/LCSD and field replicate RPD values.

All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Groundwater Study - Soil Samples
Bis(2-Ethylhexyl)Phthalate by Method SW8270C

This report documents the review of data from the analyses of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1100062	2 Soil	Stage 2B
K1100243	2 Soil	Stage 2B
K1100296	2 Soil	Stage 4

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative**.**

SGG K1100296: The chain-of-custody (COC) form indicated that SVOC analysis was requested for the filter wipe, MWFW-9001. However, the client had requested the laboratory place this sample in archive pending future analysis. No further action was taken.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Receipt, Preservation, and Holding Times		Laboratory Control Samples (LCS/LCSD)
	GC/MS Instrument Performance Check	1	Field Replicates
	Initial Calibration (ICAL)		Internal Standards
	Continuing Calibration (CCAL)		Target Analyte List
	Laboratory Blanks		Reporting Limits (MDL and MRL)
1	Field Blanks		Compound Identification
	Surrogate Compounds		Reported Results
	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)	1	Calculation Verification (Full validation only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

The validation guidance documents state that sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.6°C. These outliers did not impact data quality; therefore no qualifiers were assigned.

Field Blanks

No samples identified as field blanks were submitted.

Field Replicates

No samples identified as field replicates were submitted.

Calculation Verification

SDG K1100296: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method Accuracy was acceptable as demonstrated by the surrogate, matrix spike/matrix spike duplicate (MS/MSD), and laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovery values. Precision was also acceptable as demonstrated by the MS/MSD and LCS/LCSD RPD values.

All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Groundwater Study - Water Samples
PCB Aroclors by Method SW8082

This report documents the review of analytical data from the analyses of water samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Analytical Resources, Inc., Tukwila, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1100243	3 Groundwater	Stage 2B
K1100296	3 Water	Stage 4
K1100354	2 Groundwater	Stage 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table

1	Sample Receipt, Preservation, and Holding Times		Matrix Spikes/Matrix Spike Duplicate (MS/MSD)
	Initial Calibration (ICAL)	1	Field Replicates
	Continuing Calibration (CCAL)	1	Reporting Limits
	Laboratory Blanks		Compound Identification
1	Field Blanks		Reported Results
	Surrogate Compounds	1	Calculation Verification (Full Validation only)
1	Laboratory Control Samples (LCS/LCSD)		

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.6°C. These outliers did not impact data quality; therefore no qualifiers were assigned.

Field Blanks

No samples identified as field blanks were submitted.

Laboratory Control Sample

SDG K1100296: The relative percent difference (RPD) values for Aroclor 1016 and Aroclor 1260 were greater than the 30% upper control limit in the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analysis. These analytes were not detected in the associated samples; no data were qualified.

Field Replicates

The following acceptance criteria were used to evaluate precision: the RPD control limit is 50% for results greater than 5x the reporting limit (RL). For results less than 5x the RL, the absolute difference between the sample and replicate must be less than the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1100243: One set of field duplicates, SJMWS02-W0000 & SJMWS02-D1, was submitted. No target analytes were detected, field precision was acceptable.

Reporting Limits

SDG K1100296: In Samples SJMWD03-W0000 and Drill H_2O the reporting limits for several Aroclors were elevated due to matrix interference.

Calculation Verification

SDG K1100296: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by the surrogate and LCS/LCSD recovery values. With the exception noted above, precision was also acceptable as demonstrated by the LCS/LCSD and field replicate RPD values.

All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Groundwater Study - Water Samples
Dioxin/Furan Compounds by EPA 1613B

This report documents the review of analytical data from the analyses of water samples and the associated laboratory quality control (QC) samples. Columbia Analytical Services, Houston, Texas, analyzed the samples. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
E1100005	1 Groundwater	Stage 2B
E1100015	3 Groundwater	Stage 4
E1100022	1 Reference Water	Stage 2A
E1100026	3 Water 1 Filter Wipe Blank	Stage 2B Stage 2A
E1100038	2 Groundwater	Stage 4

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times	1	Matrix Spike/Matrix Spike Duplicate (MS/MSD)
	GC/MS Instrument Performance Check		Laboratory Control Samples (LCS/LCSD)
	Initial Calibration (ICAL)	1	Reference Material (RM)
	Calibration Verification (CVER)	1	Field Replicates
	Isomer Specificity		Target Analyte List
2	Laboratory Blanks		Reported Results
1	Field Blanks	2	Compound Identification
	Labeled Compound Recovery	1	Calculation Verification (EPA Stage 4 only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures greater than the upper limit, the highest at 10°C. These outliers did not impact data quality; therefore no qualifiers were assigned.

Laboratory Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-7). No action is taken if the sample result is greater than the action level, or for non-detected results. The laboratory assigned K-flags to values when a peak was detected but did not meet identification criteria. These values cannot be considered as positive identifications, but are "estimated maximum possible concentrations". When these occurred in the method blank the results were considered as false positives. No action levels were established for these analytes.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however only the following analytes required qualification in one or more samples:

SDG E1100022: OCDD was qualified as not detected (U-7) in Reference Sample SRM904.

Field Blanks

To evaluate the effect on the sample data, action levels of 5x the blank concentrations were established. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-6) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

The field blanks for this project are filter wipe samples. Laboratory blanks are used to evaluate all associated field blanks. Any remaining positive results in the equipment or filter wipe blanks are then used to evaluate all associated samples.

SDG E1100026: One filter wipe blank, MWFW-9001, was submitted with this SDG. No target analytes were detected in this blank.

Matrix Spike/Matrix Spike Duplicate

Matrix spike/matrix spike duplicate (MS/MSD) samples were not analyzed. Accuracy and precision were evaluated using the laboratory control sample/laboratory control sample duplicate (LCS/LCSD).

Reference Material

SDG E1100022: The laboratory extracted and analyzed RTC reference material (SRM-904). EcoChem evaluated the results using ±20% of the reference value as evaluation criteria. Based on this evaluation, the result for 2,3,7,8-TCDD, was acceptable.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) value control limit is 50% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG E1100015: One set of field replicates were submitted, SJMWS02-W0000 & SJMWS02-D1. The absolute difference value for Total TCDF was greater than the control limit.

Compound Identification

The laboratory assigned K-flags to results where a peak was detected but did not meet ion ratio quantitation criteria. The reported values cannot be considered as positive identifications for these analytes. These results were considered potential false positives or estimated maximum possible concentrations (EMPC) and were qualified as not detected (U-22) at the reported values. Laboratory blank values flagged "K" were considered as non-detects.

All positive results for 2,3,7,8-TCDF were confirmed on a DB-225 column as required by the method. The 2,3,7,8-TCDF results from the DB-5 column were qualified do-not-report (DNR-11) in favor of the results from the DB-225 column.

Several reported concentrations for 2,3,7,8-TCDF were greater than the calibrated linear range of the instrument; the laboratory qualified these results with an "E". Affected sample extracts were diluted and re-analyzed; both sets of data were reported and reviewed. The results for these compounds from the original analyses were qualified as do-not-report (DNR-20) and should be reported from the diluted analyses. All other results in the diluted analyses were qualified (DNR-11) and the original results should be reported. Affected samples are listed as follows.

SDG E1100005: The 2,3,7,8-TCDF result in Sample SJMWS04-W0000 exceeded the calibrated range. The sample was re-analyzed at dilution (10x) on the DB-225 column.

Calculation Verification

SDGs E1100015, E1100038: Calculation verifications were performed for these SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by labeled compound and LCS/LCSD %R values. Precision was also acceptable as demonstrated by the LCS/LCSD RPD values.

Data were qualified as not detected due to method blank contamination and ion ratio criteria outliers.

Data were flagged as do-not-report (DNR) to indicate which result (from multiple reported analyses) should not be used. Data that has been flagged DNR should not be used for any purpose.

All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Groundwater Study - Soil Samples
Dioxin/Furan Compounds by EPA 1613B

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory quality control (QC) samples. Columbia Analytical Services, Houston, Texas, analyzed the samples. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
E1100001	2 Soil	Stage 4
E1100022	2 Soil	Stage 2B
E1100027	2 Soil	Stage 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times	1	Matrix Spike/Matrix Spike Duplicate (MS/MSD)
	GC/MS Instrument Performance Check		Laboratory Control Samples (LCS/LCSD)
	Initial Calibration (ICAL)		Reference Material (RM)
	Calibration Verification (CVER)	1	Field Replicates
	Isomer Specificity		Target Analyte List
1	Laboratory Blanks		Reported Results
1	Field Blanks	2	Compound Identification
	Labeled Compound Recovery	1	Calculation Verification (EPA Stage 4 only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample

coolers with temperatures greater than the upper limit, the highest at 9°C. These outliers did not impact data quality; therefore no qualifiers were assigned.

Laboratory Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-7). No action is taken if the sample result is greater than the action level, or for non-detected results. The laboratory assigned K-flags to values when a peak was detected but did not meet identification criteria. These values cannot be considered as positive identifications, but are "estimated maximum possible concentrations". When these occurred in the method blank the results were considered as false positives. No action levels were established for these analytes.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however no results were qualified.

Matrix Spike/Matrix Spike Duplicate

Matrix spike/matrix spike duplicate (MS/MSD) samples were not analyzed. Accuracy and precision were evaluated using the laboratory control sample/laboratory control sample duplicate (LCS/LCSD).

Field Replicates

No samples identified as field replicates were submitted.

Compound Identification

The laboratory assigned K-flags to results where a peak was detected but did not meet ion ratio quantitation criteria. The reported values cannot be considered as positive identifications for these analytes. These results were considered potential false positives or estimated maximum possible concentrations (EMPC) and were qualified as not detected (U-22) at the reported values. Laboratory blank values flagged "K" were considered as non-detects.

All positive results for 2,3,7,8-TCDF were confirmed on a DB-225 column as required by the method. The 2,3,7,8-TCDF results from the DB-5 column were qualified do-not-report (DNR-11) in favor of the results from the DB-225 column.

Several reported concentrations for 2,3,7,8-TCDF were greater than the calibrated linear range of the instrument; the laboratory qualified these results with an "E". Affected sample extracts were diluted and re-analyzed; both sets of data were reported and reviewed. The results for these

compounds from the original analyses were qualified as do-not-report (DNR-20) and should be reported from the diluted analyses. All other results in the diluted analyses were qualified (DNR-11) and the original results should be reported. Affected samples are listed as follows.

SDG E1100022: The 2,3,7,8-TCDF result in Sample SJMWS03-0-6 exceeded the calibrated range. The sample was re-analyzed at dilution (10x) on the DB-225 column.

Calculation Verification

SDG E1100001: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable, as demonstrated by labeled compound and LCS/LCSD %R values. Precision was also acceptable as demonstrated by the LCS/LCSD RPD values.

Data were qualified as not detected due to ion ratio criteria outliers.

Data were flagged as do-not-report (DNR) to indicate which result (from multiple reported analyses) should not be used. Data that has been flagged DNR should not be used for any purpose.

All other data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Groundwater Study - Water Samples
Total and Dissolved Metals by Methods ICP-AES CLAA, ICPMS CLFAA, and SW7470A

This report documents the review of analytical data from the analyses of water samples and the associated laboratory quality control (QC) samples. Columbia Analytical Services, Inc., Kelso, Washington analyzed the samples. Refer to the Sample Index for a complete list of samples.

SDG	Number of Samples	Validation Level
K1100165	1 Groundwater	Stage 2B
K1100243	3 Groundwater	Stage 2B
K1100296	3 Water 1 Filter Wipe Blank	Stage 3 Stage 2A
K1100354	2 Groundwater	Stage 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

I. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Receipt, Preservation, and Holding Times	1	Laboratory Duplicates
	Initial Calibration	1	Field Replicates
	Continuing Calibration Verification	1	Interference Check Samples
	CRDL Standards		Serial Dilutions
2	Laboratory Blanks		ICP-MS Internal Standards
2	Field Blanks		Reporting Limits (MDL and MRL)
	Laboratory Control Samples (LCS/LCSD)	1	Reported Results
	Reference Materials	1	Calculation Verification
2	Matrix Spike Samples		

[1] ***Quality control results are discussed below, but no data were qualified***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.7°C. These outliers did not impact data quality; no data were qualified.

Laboratory Blanks

To assess the impact of each blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration detected in the blank. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-7) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level or for non-detected results.

Several analytes were found at levels less than the MDL in some instrument blanks. Action levels of five times the absolute value of the blank concentrations were established for negative blanks. Results less than the action levels in the associated samples were estimated (J/UJ-7) to indicate a potential low bias.

Method and instrument blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method or instrument blanks, however only the following analytes required qualification in one or more samples:

SDG K1100165: copper, thallium – not detected (U-7), zinc – low bias (J/UJ-7)

SDG K1100243: thallium – not detected (U-7), mercury, zinc – low bias (J/UJ-7)

SDG K1100296: aqueous: thallium – not detected (U-7), zinc, mercury – low bias (J/UJ-7),
filter wipe: chromium – not detected (U-7), mercury – low bias (J/UJ-7)

SDG K1100354: lead, thallium – not detected (U-7), mercury, zinc – low bias (J/UJ-7)

Field Blanks

To evaluate the effect on the sample data, action levels of 5x the blank concentrations were established. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-6) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

The field blank for this project is a filter wipe sample. The filter wipe blank, MWFW-9001, is associated with all groundwater samples. Laboratory blanks are used to evaluate the field blank. Any remaining positive results in the filter wipe blank are then used to evaluate all associated samples.

SDG K1100243: Results for vanadium (1 result) and zinc (4 results) were qualified as not detected (U-6) due to filter wipe contamination.

SDG K1100296: The filter wipe blank, MWFW-9001, was submitted with this SDG. Positive results for aluminum, arsenic, barium, cobalt, copper, magnesium, manganese, nickel, vanadium, and zinc remained after qualification due to laboratory blanks.

SDG K1100354: One vanadium result was qualified as not detected (U-6) due to filter wipe contamination.

Matrix Spike

SDG K1100165: The matrix spike sample (MS) analysis was performed using Sample SJMWS04-W0000. The percent recovery (%R) value for thallium was less than the lower control limit, at 85.4%. Associated thallium results were estimated (J/UJ-8) to indicate a low bias.

SDG K1100296: There was insufficient sample for matrix spike sample (MS) analysis for the wipe sample. The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) was used to evaluate accuracy and precision.

Laboratory Duplicates

SDG K1100296: There was insufficient sample for a laboratory duplicate analysis for the wipe sample. The LCS/LCSD was used to evaluate precision.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 50% for results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1100243: One set of field replicates, SJMWS02-W0000 and SJMWS02-D1, was submitted. All field precision was acceptable.

Interference Check Samples

SDGs K1100165, K1100243, K1100296, & K1100354: The interference check samples did not include spiked results for thallium and lead in the analysis.

Reported Results

SDGs K1100165, K1100243, K1100296, & K1100354: In several cases the dissolved metal result was greater than the total metal result. Where the results were greater than 5x the RL the total and dissolved results yielded RPD values less than 20%. For results less than five times the RL, the difference between total and dissolved results was less than the RL. Results fell within normal analytical precision criteria. No further action was taken and no data were qualified.

Calculation Verification

SDG K1100296: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. With the exception noted above, accuracy was acceptable as demonstrated by the LCS/LCSD and MS recovery values. Precision was also acceptable as demonstrated by the laboratory and field duplicate RPD values.

Data were estimated or qualified as not detected due to laboratory and field blank contamination. Data were estimated based on MS recovery outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Groundwater Study - Soil Samples
Metals by Methods SW6010B, SW6020A, and SW7471A

This report documents the review of analytical data from the analyses of soil samples and the associated laboratory quality control (QC) samples. Columbia Analytical Services, Inc., Kelso, Washington analyzed the samples. Refer to the Sample Index for a complete list of samples.

SDG	Number of Samples	Validation Level
K1100062	2 Soil	Stage 2B
K1100243	2 Soil	Stage 2B
K1100296	2 Soil	Stage 3

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

I. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Receipt, Preservation, and Holding Times	2	Laboratory Duplicates
	Initial Calibration		Field Replicates
	Continuing Calibration Verification	1	Interference Check Samples
	CRDL Standards	2	Serial Dilutions
2	Laboratory Blanks		ICP-MS Internal Standards
1	Field Blanks		Reporting Limits (MDL and MRL)
	Laboratory Control Samples (LCS/LCSD)		Reported Results
	Reference Materials	1	Calculation Verification
	Matrix Spike Samples		

[1] ***Quality control results are discussed below, but no data were qualified***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.6°C. These outliers did not impact data quality; no data were qualified.

Laboratory Blanks

To assess the impact of each blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration detected in the blank. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-7) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level or for non-detected results.

Several analytes were found at levels less than the MDL in some instrument blanks. Action levels of five times the absolute value of the blank concentrations were established for negative blanks. Results less than the action levels in the associated samples were estimated (J/UJ-7) to indicate a potential low bias.

Method and instrument blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method or instrument blanks, however only the following analytes required qualification in one or more samples:

SDG K1100062: cadmium – not detected (U-7)

SDG K1100296: thallium – not detected (U-7)

Field Blanks

No samples identified as field blanks were submitted.

Laboratory Duplicates

Laboratory duplicates were analyzed at the proper frequency of one per 20 samples or one per batch for the soil samples. The following acceptance criteria were used to evaluate precision. The relative percent difference (RPD) control limit is 30% for 6010B and 7471A analysis. The RPD control limit is 20% for 6020 analyses. RPD control limits apply to results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL.

For RPD or difference values exceeding the control limits, associated positive results and non-detects were estimated (J/UJ-9). The following outliers were noted:

SDG K1100062: SJMWS02-0-6: barium (41.3%), cobalt (64.8%), manganese (50.2%), nickel (37.2%)

SDG K1100296: SJMWS01-0-6: chromium (101.1%)

Interference Check Samples

SDGs K1100062, K1100243, & K1100296: The interference check samples did not include spiked results for thallium in the analysis.

ICP Serial Dilution

Serial dilutions were analyzed at the proper frequency of one per 20 samples or one per batch; whichever was more frequent. The percent difference (%D) values were less than the control limit of 10% for results greater than 50 times the MDL, with exceptions below. For %D outliers, all associated results were estimated (J/UJ-16).

SDG K1100062: Batch QC: zinc

SDG K1100243: Batch QC: zinc

SDG K1100296: SJMWS01-0-6: barium, Batch QC: zinc

Calculation Verification

SDG K1100296: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) and matrix spike sample (MS) recovery values. With the exceptions noted above, precision was acceptable as demonstrated by the laboratory duplicate RPD values.

Data were qualified as not detected due to laboratory blank contamination. Data were also estimated based on serial dilution %D and laboratory duplicate RPD value outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Groundwater Study - Water Samples
Total Suspended Solids by Method SM2540D

This report documents the review of analytical data from the analysis of groundwater samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1100165	1 Groundwater	Stage 2B
K1100243	3 Groundwater	Stage 2B
K1100296	3 Groundwater	Stage 3
K1100354	2 Groundwater	Stage 2B

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times		Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
	Initial Calibration		Laboratory Duplicates
	Calibration Verification	1	Field Replicates
	Laboratory Blanks		Reporting Limits
	Laboratory Control Samples (LCS)	1	Calculation Verification

[1] ***Quality control results are discussed below, but no data were qualified.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.7°C. These outliers did not impact data quality; no data were qualified.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 50% for results greater than five times (5x) the reporting limit (RL). The absolute difference between the sample and replicate must be less than the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1100243: One set of field replicates, SJMWS02-W0000 and SJMWS02-D1, was submitted. All field precision was acceptable.

Calculation Verification

SDG K1100296: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the laboratory control sample recovery value. Precision was also acceptable as demonstrated by the laboratory and field duplicate RPD values.

All data, as reported, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits
Groundwater Study - Soil Samples
Conventional Parameters

This report documents the review of analytical data from the analysis of soil samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1100062	13 Soil	Stage 2B
K1100165	4 Soil	Stage 2B
K1100243	23 Soil	Stage 2B
K1100296	7 Soil	Stage 3

The analytical tests that were performed are summarized in the following table.

Parameter	Method
Total Organic Carbon (TOC)	Walkley-Black
Total Organic Carbon (TOC)	SW9060M
Particle Size	PSEP
Total Solids	EPA 160.3M

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. The following errors were noted.

SDG K1100062: The grain size results for the medium sand fractions were incorrect in the EDD for Samples SJMWD02S-4445 and SJMWD02S-0005. The laboratory was notified, they verified the results in the hard copy data package were correct. The two results in the EDD were corrected.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times		Matrix Spikes/Matrix Spike Duplicates (MS/MSD)
	Initial Calibration		Laboratory Duplicates
	Calibration Verification	1	Field Replicates
	Laboratory Blanks		Reporting Limits
	Laboratory Control Samples (LCS)	1	Calculation Verification

[1] ***Quality control results are discussed below, but no data were qualified.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -0.7°C. These outliers did not impact data quality; no data were qualified.

Field Replicates

The following acceptance criteria were used to evaluate precision: the relative percent difference (RPD) control limit is 50% for results greater than five times (5x) the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL. No data were qualified based on field replicate precision outliers. Data users should consider the impact of field precision outliers on the reported results.

SDG K1100062: One set of field replicates, SJMWDO2S-1415 and SJMWDO2-D1, was submitted. All field precision was acceptable.

SDG K1100243: One set of field replicates, SJMWD01S-0005 and SJMWD01-D2, was submitted. All field precision was acceptable.

Calculation Verification

SDG K1100296: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. Accuracy was acceptable as demonstrated by the matrix spike/matrix spike duplicate and laboratory control sample percent recovery values. Precision was also acceptable as demonstrated by the field and laboratory duplicate RPD values.

All data, as reported, are acceptable for use.

EcoChem, INC.
Environmental Data Quality

APPENDIX A

DATA QUALIFIER DEFINITIONS, REASON CODES, AND CRITERIA TABLES

DATA VALIDATION QUALIFIER CODES
Based on National Functional Guidelines

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.

DATA QUALIFIER REASON CODES

1	Holding Time/Sample Preservation
2	Chromatographic pattern in sample does not match pattern of calibration standard.
3	Compound Confirmation
4	Tentatively Identified Compound (TIC) (associated with NJ only)
5A	Calibration (initial)
5B	Calibration (continuing)
6	Field Blank Contamination
7	Lab Blank Contamination (e.g., method blank, instrument, etc.)
8	Matrix Spike(MS & MSD) Recoveries
9	Precision (all replicates)
10	Laboratory Control Sample Recoveries
11	A more appropriate result is reported (associated with “R” and “DNR” only)
12	Reference Material
13	Surrogate Spike Recoveries (a.k.a., labeled compounds & recovery standards)
14	Other (define in validation report)
15	GFAA Post Digestion Spike Recoveries
16	ICP Serial Dilution % Difference
17	ICP Interference Check Standard Recovery
18	Trip Blank Contamination
19	Internal Standard Performance (e.g., area, retention time, recovery)
20	Linear Range Exceeded
21	Potential False Positives
22	Elevated Detection Limit Due to Interference (i.e., laboratory, chemical and/or matrix)

EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C ±2°	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Holding Time	Water: 7 days from collection Soil: 14 days from collection Analysis: 40 days from extraction	Water: J(+)/UJ(-) if ext. > 7 and < 21 days J(+)/R(-) if ext > 21 days (EcoChem PJ) Solids/Wastes: J(+)/UJ(-) if ext. > 14 and < 42 days J(+)/R(-) if ext. > 42 days (EcoChem PJ) J(+)/UJ(-) if analysis >40 days	1
Tuning	DFTPP Beginning of each 12 hour period Method acceptance criteria	R(+/-) all analytes in all samples associated with the tune	5A
Initial Calibration (Minimum 5 stds.)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5A
	%RSD < 30%	(EcoChem PJ, see TM-06) J(+) if %RSD > 30%	5A
Continuing Calibration (Prior to each 12 hr. shift)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5B
	%D <25%	(EcoChem PJ, see TM-06) If > +/-90%: J+/R- If -90% to -26%: J+ (high bias) If 26% to 90%: J+/UJ- (low bias)	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample (+) result is less than CRQL and less than appropriate 5X or 10X rule (raise sample value to CRQL)	7
		U(+) if sample (+) result is greater than or equal to CRQL and less than appropriate 5X and 10X rule (at reported sample value)	7
	No TICs present	R(+) TICs using 10X rule	7
Field Blanks (Not Required)	No results > CRQL	Apply 5X/10X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One per matrix per batch Use method acceptance criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One per matrix per batch Use method acceptance criteria	J(+) in parent sample if RPD > CL	9
LCS low conc. H2O SVOA	One per lab batch Within method control limits	J(+) assoc. cmpd if > UCL J(+)/R(-) assoc. cmpd if < LCL J(+)/R(-) all cmpds if half are < LCL	10
LCS regular SVOA (H2O & solid)	One per lab batch Lab or method control limits	J(+) if %R > UCL J(+)/UJ(-) if %R <LCL J(+)/R(-) if %R < 10% (EcoChem PJ)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	Minimum of 3 acid and 3 base/neutral compounds Use method acceptance criteria	Do not qualify if only 1 acid and/or 1 B/N surrogate is out unless <10% J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) if %R < 10%	13
Internal Standards	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	J(+) if > 200% J(+)/UJ(-) if < 50% J(+)/R(-) if < 25% RT>30 seconds, narrate and Notify PM	19
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
TICs	Major ions (>10%) in reference must be present in sample; intensities agree within 20%; check identification	NJ the TIC unless: R(+) common laboratory contaminants See Technical Director for ID issues	4
Quantitation/ Identification	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	See Technical Director if outliers	14 21 (false +)

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EcoChem Validation Guidelines for Pesticides, PCBs, Herbicides, and Phenol by GC/ECD (Based on Organic NFG 1999 & EPA SW-846 Methods 8081/8082/8041/8151)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C ±2°	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Holding Time	Water: 7 days from collection Soil: 14 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext/analyzed > HT J(+)/R(-) if ext/analyzed > 3X HT (EcoChem PJ)	1
Resolution Check	Beginning of ICAL Sequence Within RTW Resolution >90%	Narrate (Use Professional Judgement to qualify)	14
Instrument Performance (Breakdown)	DDT Breakdown: < 20% Endrin Breakdown: <20% Combined Breakdown: <30% Compounds within RTW	J(+) DDT NJ(+) DDD and/or DDE R(-) DDT - If (+) for either DDE or DDD J(+) Endrin NJ(+) EK and/or EA R(-) Endrin - If (+) for either EK or EA	5A
Retention Times	Surrogates: TCX (+/- 0.05); DCB (+/- 0.10) Target compounds: elute before heptachlor epoxide (+/- 0.05) elute after heptachlor epoxide (+/- 0.07)	NJ(+)/R(-) results for analytes with RT shifts For full DV, use PJ based on examination of raw data	5B
Initial Calibration	Pesticides: Low=CRQL, Mid=4X, High=16X Multiresponse - one point Calibration %RSD<20% %RSD<30% for surr; two comp. may exceed if <30% Resolution in Mix A and Mix B >90%	J(+)/UJ(-)	5A
Continuing Calibration	Alternating PEM standard and INDA/INDB standards every 12 hours (each preceeded by an inst. Blank) %D < 25% Resolution >90% in IND mixes; 100% for PEM	J(+)/UJ(-) J(+)R(-) if %D > 90% PJ for resolution	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample result is < CRQL and < 5X rule (raise sample value to CRQL) U(+) if sample result is > or equal to CRQL and < 5X rule (at reported sample value)	7
Instrument Blanks	Analyzed at the beginning of every 12 hour sequence No analyte > 1/2 CRQL	Same as Method Blank	7
Field Blanks	Not addressed by NFG No results > CRQL	Apply 5X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Pesticides, PCBs, Herbicides, and Phenol by GC/ECD (Based on Organic NFG 1999 & EPA SW-846 Methods 8081/8082/8041/8151)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One set per matrix per batch Method Acceptance Criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One set per matrix per batch Method Acceptance Criteria	J(+) in parent sample if RPD > CL	9
LCS	One per SDG Method Acceptance Criteria	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	TCX and DCB added to every sample %R = 30-150%	J(+)/UJ(-) if both %R = 10 - 60% J(+) if both >150% J(+)/R(-) if any %R <10%	13
Quantitation/ Identification	Quantitated using ICAL calibration factor (CF) RPD between columns <40%	J(+) if RPD = 40 - 60% NJ(+) if RPD >60% EcoChem PJ - See TM-08	3
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used to avoid reporting two results for one sample	11
Sample Clean-up	GPC required for soil samples Florisil required for all samples Sulfur is optional Clean-up standard check %R within CLP limits	J(+)/UJ(-) if %R < LCL J(+) if %R > UCL	14
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate (Qualifiy if required by project QAPP)	9

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler/Storage Temperature	Waters/Solids < 4°C Tissues <-10°C	EcoChem PJ, see TM-05	1
Holding Time	Extraction - Water: 30 days from collection *Note:* Under CWA, SDWA, and RCRA the HT for H2O is 7 days* Extraction - Soil: 30 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext > 30 days J(+)/UJ(-) if analysis > 40 Days EcoChem PJ, see TM-05	1
Mass Resolution	>=10,000 resolving power at m/z 304.9824 Exact mass of m/z 380.9760 w/in 5 ppm of theoretical value (380.97410 to 380.97790) . Analyzed prior to ICAL and at the start and end of each 12 hr. shift	R(+/-) if not met	14
Window Defining Mix and Column Performance Mix	Window defining mixture/Isomer specificity std run before ICAL and CCAL Valley < 25% (valley = (x/y)*100%) x = ht. of TCDD y = baseline to bottom of valley For all isomers eluting near 2378-TCDD/TCDF isomers (TCDD only for 8290)	J(+) if valley > 25%	5A (ICAL) 5B (CCAL
Initial Calibration	Minimum of five standards %RSD < 20% for native compounds %RSD <30% for labeled compounds (%RSD <35% for labeled compounds under 1613b)	J(+) natives if %RSD > 20%	5A
	Abs. RT of $^{13}C_{12}$-1234-TCDD >25 min on DB5 >15 min on DB-225	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10 for all native and labeled compounds in CS1 std.	If <10, elevate Det. Limit or R(-)	

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Continuing Calibration	Analyzed at the start and end of each 12 hour shift. %D+/-20% for native compounds %D +/-30% for labeled compounds (Must meet limits in Table 6, Method 1613B) (If %Ds in the closing CCAL are w/in 25%/35% the avg RF from the two CCAL may be used to calculate samples per Method 8290, Section 8.3.2.4)	Do not qualify labeled compounds. Narrate in report for labeled compound %D outliers. For native compound %D outliers: 8290: J(+)/UJ(-) if %D = 20% - 75% J(+)/R(-) if %D > 75% 1613: J(+)/UJ(-) if %D is outside Table 6 limits J(+)/R(-) if %D is +/- 75% of Table 6 limit	5B
	Abs. RT of $^{13}C_{12}$-1234-TCDD and $^{13}C12$-123789-HxCDD +/- 15 sec of ICAL.	EcoChem PJ, see ICAL section of TM-05	
	RRT of all other compounds must meet Table 2 of 1613B.	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10	If <10, elevate Det. Limit or R(-)	
Method Blank	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	7
Field Blanks (Not Required)	No positive results	If sample result <5X action level, qualify U at reported value.	6
LCS / OPR	Concentrations must meet limits in Table 6, Method 1613B or lab limits.	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
MS/MSD (recovery)	May not analyze MS/MSD %R should meet lab limits.	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	May not analyze MS/MSD RPD < 20%	J(+) in parent sample if RPD > CL	9

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Lab Duplicate	RPD <25% if present.	J(+)/UJ(-) if outside limts	9
Labeled Compounds / Internal Standards	*Method 8290:* %R = 40% - 135% in all samples *Method 1613B:* %R must meet limits specified in Table 7, Method 1613	J(+)/UJ(-) if %R = 10% to LCL J(+) if %R > UCL J(+)/R(-) if %R < 10%	13
Quantitation/ Identification	Ions for analyte, IS, and rec. std. must max w/in 2 sec. S/N >2.5 IA ratios meet limits in Table 9 of 1613B or Table 8 of 8290 RRTs w/in limits in Table 2 of 1613B	If RT criteria not met, use PJ (see TM-05) If S/N criteria not met, J(+). if unlabelled ion abundance not met, change to EMPC If labelled ion abundance not met, J(+).	21
EMPC (estimated maximum possible concentration)	If quantitation idenfication criteria are not met, laboratory should report an EMPC value.	If laboratory correctly reported an EMPC value, qualify with U to indicate that the value is a detection limit.	14
Interferences	PCDF interferences from PCDPE	If both detected, change PCDF result to EMPC	14
Second Column Confirmation	All 2378-TCDF hits must be confirmed on a DB-225 (or equiv) column. All QC specs in this table must be met for the confirmation analysis.	Report lower of the two values. If not performed use PJ (see TM-05).	3
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used	11

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EcoChem Validation Guidelines for Metals Analysis by ICP (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration Tissues: Frozen	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, r > 0.995	J(+)/UJ(-) if r < 0.995 (multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±10% of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within ±10% of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B

Initial and Continuing Calibration Blank (ICB/CCB)	After each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		(Refer to TM-02 for additional information)
			7

Reporting Limit Standard	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Sb, Pb, Tl)	R(-)/J(+) < 2x RL if %R <50% (< 30% Sb, Pb, Tl) J(+) < 2x RL, UJ(-) if %R 50-69% (30-49% Sb, Pb,Tl) J(+) < 2x RL if %R 130-180% (150-200% Sb, Pb, Tl) R(+) < 2x RL if %R > 180% (200% Sb, Pb, Tl)	14
Interference Check Samples (ICSA/ICSAB)	ICSAB %R 80 - 120% for all spiked elements | ICSA | < MDL for all unspiked elements except: K, Na	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R >120% J(+)/UJ(-) if %R= 50 to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	

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EcoChem Validation Guidelines for Metals Analysis by ICP
(Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Matrix Spikes	One per matrix per batch 75-125% for samples less than 4x spike level	J(+) if %R > 125% J(+)/UJ(-) if %R < 75% J(+)/R(-) if %R < 30% or J(+)/UJ(-) if Post Spike %R 75-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, spike at twice the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples >RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL (2x RL for solids) qualify all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample conc. > 50x MDL	J(+)/UJ(-) if %D >10% qualify all samples in batch	16
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

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EcoChem Validation Guidelines for Metals Analysis by ICP-MS (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Tune	Prior to ICAL monitoring compounds analyzed 5 times wih Std Dev. ≤ 5% mass calibration <0.1 amu from True Value Resolution < 0.9 AMU @ 10% peak height or <0.75 amu @ 5% peak height	Use Professional Judgment to evaluate tune J(+)/UJ(-) if tune criteria not met	5A
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, r>0.995	J(+)/UJ(-) if r<0.995 (for multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±10% of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run ±10% of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B

Initial and Continuing Calibration Blanks (ICB/CCB)	After each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Reporting Limit Standard (CRI)	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Co,Mn, Zn)	R(-),(+) < 2x RL if %R < 50% (< 30% Co,Mn, Zn) J(+) < 2x RL, UJ(-) if %R 50-69% (30%-49% Co,Mn, Zn) J(+) < 2x RL if %R 130%-180% (150%-200% Co,Mn, Zn) R(+) < 2x RL if %R > 180% (200% Co, Mn, Zn)	14
Interference Check Samples (ICSA/ICSAB)	Required by SW 6020, but not 200.8 ICSAB %R 80% - 120% for all spiked elements | ICSA | < IDL (MDL) for all unspiked elements	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R >120% J(+)/UJ(-) if %R = 50% to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7

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EcoChem Validation Guidelines for Metals Analysis by ICP-MS
(Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Laboratory Control Sample (LCS)	One per matrix per batch Blank Spike: %R within 80%-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spike/ Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 75-125% for samples where results do not exceed 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R <75% J(+)/R(-) if %R<30% or J(+)/UJ(-) if Post Spike %R 75%-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, Spike parent sample at 2x the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5 x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample values > 50x MDL	J(+)/UJ(-) if %D >10% All samples in batch	16
Internal Standards	Every sample SW6020: 60%-125% of cal blank IS 200.8: 30%-120% of cal blank IS	J (+)/UJ (-) all analytes associated with IS outlier	19
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < AL in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	28 days from date sampled Frozen tissues: HT extended to 6 months	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + 4 standards, one at RL r > 0.995	J(+)/UJ(-) if r<0.995	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5B

Initial and Continuing Calibration Blanks (ICB/CCB)	after each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Reporting Limit Standard (CRA)	conc at RL - analyzed beginning of run %R = 70-130%	R(-),(+)<2xRL if %R <50% J(+)<2x RL, UJ(-) if %R 50-69% J(+) <2x RL if %R 130-180% R(+)<2x RL if %R>180%	14
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch		10
	Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 5% frequency 75-125% for samples less than 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R <75% J(+)/R(-) if %R<30% all samples in batch	8
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9

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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5x RL: Water: Diff<RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must be less than 110% of high standard	J values over range	20

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EcoChem Validation Guidelines for Conventional Chemistry Analysis (Based on EPA Standard Methods)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler Temperature 4°C ±2°C Preservation: Method Specific	Use Professional Judgment to qualify based to qualify for coole temp outliers J(+)/UJ(-) if preservation requirements not met	1
Holding Time	Method Specific	Professional Judgment J(+)/UJ(-) if holding time exceeded J(+)/R(-) if HT exceeded by > 3X	1
Initial Calibration	Method specific r>0.995	Use professional judgment J(+)/UJ(-) for r < 0.995	5A
Initial Calibration Verification (ICV)	Where applicable to method Independent source analyzed immediately after calibration %R method specific, usually 90% - 110%	R(+/-) if %R significantly < LCL J(+)/UJ(-) if %R < LCL J(+) if %R > UCL R(+) if %R significantly > UCL	5A
Continuing Cal Verification (CCV)	Where applicable to method Every ten samples, immed. following ICV/ICB and end of run %R method specific, usually 90% - 110%	R(+/-) if %R significantly < LCL J(+)/UJ(-) if %R < LCL J(+) if %R > UCL R(+) if %R significantly > UCL	5B

Initial and Continuing Cal Blanks (ICB/CCB)	Where applicable to method
	After each ICV and CCV every ten samples and end of run
	| blank| < MDL
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Method Blank	One per matrix per batch
	(not to exceed 20 samples)
	blank < MDL
		Action level is 5x absolute value of blank conc.
		For (+) blk value, U(+) results < action level
		For (-) blk value, J(+)/UJ(-) results < action level
			7

Laboratory Control Sample	Waters: One per matrix per batch %R (80-120%)	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	Soils: One per matrix per batch Result within manufacturer's certified acceptance range	J(+)/UJ(-) if < LCL, J(+) if > UCL	10
Matrix Spike	One per matrix per batch; 5% frequency 75-125% for samples less than 4 x spike level	J(+) if %R > 125% or < 75% UJ(-) if %R = 30-74% R(+/-) results < IDL if %R < 30%	8
Laboratory Duplicate	One per matrix per batch RPD <20% for samples > 5x RL Diff <RL for samples >RL and <5 x RL (may use RPD < 35%, Diff < 2X RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9

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EcoChem Validation Guidelines for Conventional Chemistry Analysis (Based on EPA Standard Methods)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Field Blank	blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5X RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff<RL Solid: Diff < 2X RL	J(+)/UJ(-) in parent samples only	9

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Environmental Data Quality

APPENDIX B
QUALIFIED DATA SUMMARY TABLE

Qualified Data Summary Table
San Jacinto River Waste Pits - Groundwater Study

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
E1100001	SJMWS02-6-12	E1100001-006	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.888	ng/kg	JK	U	22
E1100001	SJMWS02-6-12	E1100001-006	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.264	ng/kg	JK	U	22
E1100001	SJMWS02-6-12	E1100001-006	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.395	ng/kg	JK	U	22
E1100005	SJMWS04-W0000	E1100005-005	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	4.96	pg/L	JK	U	22
E1100005	SJMWS04-W0000	E1100005-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	8620	pg/L	CE	DNR	11
E1100005	SJMWS04-W0000	E1100005-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	6560	pg/L	E	DNR	20
E1100015	SJMWS02-W0000	E1100015-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	3.04	pg/L	JK	U	22
E1100015	SJMWS02-W0000	E1100015-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	10.9	pg/L	C	DNR	11
E1100015	SJMWS02-D1	E1100015-010	EPA1613B	Octachlorodibenzo-p-dioxin	3.99	pg/L	BJK	U	22
E1100015	SJMWS02-D1	E1100015-010	EPA1613B	Octachlorodibenzo-p-furan	2.28	pg/L	BJK	U	22
E1100022	SJMWS03-0-6	E1100022-005	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.874	ng/kg	JK	U	22
E1100022	SJMWS03-0-6	E1100022-005	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.232	ng/kg	JK	U	22
E1100022	SJMWS03-0-6	E1100022-005	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.19	ng/kg	JK	U	22
E1100022	SJMWS03-0-6	E1100022-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	480	ng/kg	C	DNR	11
E1100022	SJMWS03-6-12	E1100022-006	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.24	ng/kg	JK	U	22
E1100022	SJMWS03-6-12	E1100022-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	908	ng/kg	CE	DNR	11
E1100022	SJMWS03-6-12	E1100022-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	821	ng/kg	E	DNR	20
E1100022	SRM904	E1100022-007	EPA1613B	Octachlorodibenzo-p-dioxin	4.35	pg/L	BJ	U	7
E1100026	SJMWS03-W0000	E1100026-001	EPA1613B	Octachlorodibenzo-p-dioxin	14.4	pg/L	BJK	U	22
E1100026	MWFW-9001	E1100026-004	EPA1613B	Octachlorodibenzo-p-dioxin	4.33	pg	BJK	U	22
E1100027	SJMWS01-0-6	E1100027-006	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.594	ng/kg	JK	U	22
E1100027	SJMWS01-0-6	E1100027-006	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.203	ng/kg	JK	U	22
E1100027	SJMWS01-0-6	E1100027-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	149	ng/kg	C	DNR	11
E1100027	SJMWS01-6-12	E1100027-007	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.591	ng/kg	JK	U	22
E1100027	SJMWS01-6-12	E1100027-007	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	282	ng/kg	C	DNR	11
E1100038	SJMWD01-W0000	E1100038-002	EPA1613B	Octachlorodibenzo-p-dioxin	2.11	pg/L	BJK	U	22
K1100062	SJMWS02-0-6	K1100062-005	ICPAES_3050B	Barium	55.2	mg/kg	*	J	9
K1100062	SJMWS02-0-6	K1100062-005	ICPMS_3050B	Cadmium	0.018	mg/kg	J	U	7
K1100062	SJMWS02-0-6	K1100062-005	ICPMS_3050B	Cobalt	1.93	mg/kg	*	J	9
K1100062	SJMWS02-0-6	K1100062-005	ICPAES_3050B	Manganese	103	mg/kg	*	J	9
K1100062	SJMWS02-0-6	K1100062-005	ICPMS_3050B	Nickel	3.02	mg/kg	*	J	9
K1100062	SJMWS02-0-6	K1100062-005	ICPMS_3050B	Zinc	5	mg/kg		J	16
K1100062	SJMWS02-6-12	K1100062-006	ICPAES_3050B	Barium	296	mg/kg	*	J	9
K1100062	SJMWS02-6-12	K1100062-006	ICPMS_3050B	Cobalt	1.94	mg/kg	*	J	9
K1100062	SJMWS02-6-12	K1100062-006	ICPAES_3050B	Manganese	2550	mg/kg	*	J	9

Qualified Data Summary Table
San Jacinto River Waste Pits - Groundwater Study

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1100062	SJMWS02-6-12	K1100062-006	ICPMS_3050B	Nickel	2.94	mg/kg	*	J	9
K1100062	SJMWS02-6-12	K1100062-006	ICPMS_3050B	Zinc	6.3	mg/kg		J	16
K1100165	SJMWS04-W0000	K1100165-006	ICP-AES_CLAA	Copper	2.7	ug/L	J	U	7
K1100165	SJMWS04-W0000	K1100165-006	ICPMS_CLFAA	Thallium	0.013	ug/L	NJ,J,N	UJ	7,8
K1100165	SJMWS04-W0000	K1100165-006DISS	ICPMS_CLFAA	Thallium	0.01	ug/L	U,N	UJ	8
K1100165	SJMWS04-W0000	K1100165-006DISS	ICP-AES_CLAA	Zinc	0.8	ug/L	U	UJ	7
K1100243	SJMWS03-0-6	K1100243-013	ICPMS_3050B	Zinc	55.3	mg/kg		J	16
K1100243	SJMWS03-6-12	K1100243-014	ICPMS_3050B	Zinc	59.3	mg/kg		J	16
K1100243	SJMWS02-W0000	K1100243-024	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100243	SJMWS02-W0000	K1100243-024	ICP-AES_CLAA	Zinc	9.8	ug/L	J	U	6
K1100243	SJMWS02-W0000	K1100243-024DISS	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100243	SJMWS02-W0000	K1100243-024DISS	ICPMS_CLFAA	Thallium	0.031	ug/L	J	U	7
K1100243	SJMWS02-W0000	K1100243-024DISS	ICPMS_CLFAA	Vanadium	0.15	ug/L	J	U	6
K1100243	SJMWS02-W0000	K1100243-024DISS	ICP-AES_CLAA	Zinc	0.8	ug/L	U	UJ	7
K1100243	SJMWS02-D1	K1100243-025	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100243	SJMWS02-D1	K1100243-025	ICP-AES_CLAA	Zinc	8.1	ug/L	J	U	6
K1100243	SJMWS02-D1	K1100243-025DISS	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100243	SJMWS02-D1	K1100243-025DISS	ICPMS_CLFAA	Thallium	0.022	ug/L	J	U	7
K1100243	SJMWS02-D1	K1100243-025DISS	ICP-AES_CLAA	Zinc	1.5	ug/L	J	U	6
K1100243	SJMWD02-W0000	K1100243-026	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100243	SJMWD02-W0000	K1100243-026	ICPMS_CLFAA	Thallium	0.08	ug/L		U	7
K1100243	SJMWD02-W0000	K1100243-026	ICP-AES_CLAA	Zinc	6.9	ug/L	J	U	6
K1100243	SJMWD02-W0000	K1100243-026DISS	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100243	SJMWD02-W0000	K1100243-026DISS	ICPMS_CLFAA	Thallium	0.019	ug/L	J	U	7
K1100243	SJMWD02-W0000	K1100243-026DISS	ICP-AES_CLAA	Zinc	0.8	ug/L	U	UJ	7
K1100296	SJMWS01-0-6	K1100296-006	ICPAES_3050B	Barium	15.8	mg/kg		J	16
K1100296	SJMWS01-0-6	K1100296-006	ICPMS_3050B	Chromium	6.36	mg/kg	*	J	9
K1100296	SJMWS01-0-6	K1100296-006	ICPMS_3050B	Zinc	11.6	mg/kg		J	16
K1100296	SJMWS01-6-12	K1100296-007	ICPAES_3050B	Barium	13.8	mg/kg		J	16
K1100296	SJMWS01-6-12	K1100296-007	ICPMS_3050B	Chromium	1.77	mg/kg	*	J	9
K1100296	SJMWS01-6-12	K1100296-007	ICPMS_3050B	Thallium	0.029	mg/kg		U	7
K1100296	SJMWS03-W0000	K1100296-008	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100296	SJMWS03-W0000	K1100296-008	ICPMS_CLFAA	Thallium	0.016	ug/L	J	U	7
K1100296	SJMWS03-W0000	K1100296-008	ICP-AES_CLAA	Zinc	0.8	ug/L	U	UJ	7
K1100296	SJMWS03-W0000	K1100296-008DISS	SW7470A	Mercury	0.02	ug/L	U	UJ	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Groundwater Study

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1100296	SJMWS03-W0000	K1100296-008DISS	ICPMS_CLFAA	Thallium	0.011	ug/L	J	U	7
K1100296	SJMWS03-W0000	K1100296-008DISS	ICP-AES_CLAA	Zinc	0.8	ug/L	U	UJ	7
K1100296	SJMWD03-W0000	K1100296-009	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100296	SJMWD03-W0000	K1100296-009	ICPMS_CLFAA	Thallium	0.024	ug/L	J	U	7
K1100296	SJMWD03-W0000	K1100296-009	ICP-AES_CLAA	Zinc	0.8	ug/L	U	UJ	7
K1100296	SJMWD03-W0000	K1100296-009DISS	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100296	SJMWD03-W0000	K1100296-009DISS	ICPMS_CLFAA	Thallium	0.017	ug/L	J	U	7
K1100296	SJMWD03-W0000	K1100296-009DISS	ICP-AES_CLAA	Zinc	0.8	ug/L	U	UJ	7
K1100296	SJMWD03-W0000	K1100296-009DUP	ICP-AES_CLAA	Zinc	0.8	ug/L	U	UJ	7
K1100296	DRILL H2O	K1100296-010	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100296	DRILL H2O	K1100296-010	ICPMS_CLFAA	Thallium	0.016	ug/L	J	U	7
K1100296	MWFW-9001	K1100296-011	ICPAES_3050B	Chromium	0.2	ug	J	U	7
K1100296	MWFW-9001	K1100296-011	SW7470A	Mercury	0.01	ug	U	UJ	7
K1100354	SJMWS01-W0000	K1100354-001	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100354	SJMWS01-W0000	K1100354-001	ICPMS_CLFAA	Vanadium	0.12	ug/L	J	U	6
K1100354	SJMWS01-W0000	K1100354-001	ICP-AES_CLAA	Zinc	0.8	ug/L	U	UJ	7
K1100354	SJMWS01-W0000	K1100354-001DISS	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100354	SJMWS01-W0000	K1100354-001DISS	ICPMS_CLFAA	Thallium	0.011	ug/L	J	U	7
K1100354	SJMWS01-W0000	K1100354-001DISS	ICP-AES_CLAA	Zinc	0.8	ug/L	U	UJ	7
K1100354	SJMWD01-W0000	K1100354-002	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100354	SJMWD01-W0000	K1100354-002	ICPMS_CLFAA	Thallium	0.011	ug/L	J	U	7
K1100354	SJMWD01-W0000	K1100354-002	ICP-AES_CLAA	Zinc	0.8	ug/L	U	UJ	7
K1100354	SJMWD01-W0000	K1100354-002DISS	ICPMS_CLFAA	Lead	0.011	ug/L	J	U	7
K1100354	SJMWD01-W0000	K1100354-002DISS	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1100354	SJMWD01-W0000	K1100354-002DISS	ICP-AES_CLAA	Zinc	0.8	ug/L	U	UJ	7

CHEMISTRY DATA VALIDATION REPORTS FOR TISSUE

EcoChem, INC.
Environmental Data Quality

DATA VALIDATION REPORT

SAN JACINTO RIVER WASTE PITS
Tissue Sampling

Prepared for:

Integral Consulting, Inc.
1205 West Bay Dr. NW
Olympia, Washington 98502

Prepared by:

EcoChem, Inc.
710 Second Avenue, Suite 660
Seattle, Washington 98104

EcoChem Project: C22130-6

March 8, 2011

Approved for Release

Melissa Swanson

Basis for Data Validation

This report summarizes the results of the validation (Stage 2A, Stage 2B, and Stage 3/4) performed on tissue and quality control (QC) sample data for the San Jacinto River Waste Pits Tissue Sampling. A complete list of samples is provided in the **Sample Index**. Laboratory batch ID numbers and associated level of validation are provided at the beginning of each technical section

Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington and Columbia Analytical Services, Inc., Houston, Texas. The analytical methods and EcoChem project chemists are listed below.

Analysis	Method of Analysis	Primary Review	Secondary Review
Semivolatile Organic Compounds	SW8270C_3541	M. Brindle	M. Swanson
Dioxin & Furan Compounds	EPA1613B	M. Swanson/ M. Brindle	C. Mott/ M. Swanson
Polychlorinated Biphenyls - Congeners	EPA1668A		
Metals	SW6010B, SW6020A, SW7471A	J. Maute	M. Swanson
Total Solids	EPA160.3M		
Lipids	EPA1613B, NOAA LIPID	M. Swanson/ M. Brindle	C. Mott/ M. Swanson

The data were reviewed using guidance and quality control criteria documented in the analytical methods; the *Sampling and Analysis Plan: Tissue Study San Jacinto River Waste Pits Superfund Site* (Integral, September 2010); *USEPA National Functional Guidelines for Chlorinated Dioxin/Furan Data Review* (USEPA, September 2005); *National Functional Guidelines for Organic Data Review* (USEPA 1999); and *USEPA National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004).

EcoChem's goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned an R, the data are to be rejected and should not be used for any site evaluation purposes. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Data qualifier definitions, reason codes, and validation criteria are included as **Appendix A**. The qualified data summary table is included as **Appendix B.** Data Validation Worksheets and the associated communication records will be kept on file at EcoChem, Inc. A qualified laboratory electronic data deliverable (EDD) was also submitted with this report.

Sample Index
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	SVOC	BEHP	Dioxin	PCB	Metal	Lipids
K1010961	CL-TTR3-001	K1010961-001	✓	✓	✓	✓	✓	✓
K1010961	CL-TTR3-002	K1010961-002	✓	✓	✓	✓	✓	✓
K1010961	CL-TTR3-003	K1010961-003	✓	✓	✓	✓	✓	✓
K1010961	CL-TTR3-004	K1010961-004	✓	✓	✓	✓	✓	✓
K1010961	CL-TTR4-001	K1010961-005	✓	✓	✓	✓	✓	✓
K1010961	CL-TTR4-002	K1010961-006	✓	✓	✓	✓	✓	✓
K1010961	CL-TTR4-003	K1010961-007	✓	✓	✓	✓	✓	✓
K1010961	CL-TTR4-004	K1010961-008	✓	✓	✓	✓	✓	✓
K1011127	BBSH-901	K1011127-001		✓	✓	✓	✓	✓
K1011127	BBCK-902	K1011127-002		✓	✓	✓	✓	✓
K1011127	BBMU-903	K1011127-003		✓	✓	✓	✓	✓
K1011127	BBMA-909	K1011127-004		✓	✓	✓	✓	✓
K1011127	Bait	K1011127-005		✓	✓	✓	✓	
K1011128	CL-TTR1-001	K1011128-001	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR1-002	K1011128-002	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR1-003	K1011128-003	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR1-004	K1011128-004	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR1-005	K1011128-005	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR3-005	K1011128-006	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR4-005	K1011128-007	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR5-001	K1011128-008	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR5-002	K1011128-009	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR5-003	K1011128-010	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR5-004	K1011128-011	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR5-005	K1011128-012	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR6-001	K1011128-013	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR6-002	K1011128-014	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR6-003	K1011128-015	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR6-004	K1011128-016	✓	✓	✓	✓	✓	✓
K1011128	CL-TTR6-005	K1011128-017	✓	✓	✓	✓	✓	✓
K1011248	CL-TTR7-001	K1011248-001	✓	✓	✓	✓	✓	✓
K1011248	CL-TTR7-002	K1011248-002	✓	✓	✓	✓	✓	✓
K1011248	CL-TTR7-003	K1011248-003	✓	✓	✓	✓	✓	✓
K1011248	CL-TTR7-004	K1011248-004	✓	✓	✓	✓	✓	✓
K1011248	CL-TTR7-005	K1011248-005	✓	✓	✓	✓	✓	✓
K1011248	CL-TTR8-001	K1011248-006	✓	✓	✓	✓	✓	✓
K1011248	CL-TTR8-002	K1011248-007	✓	✓	✓	✓	✓	✓
K1011248	CL-TTR8-003	K1011248-008	✓	✓	✓	✓	✓	✓
K1011248	CL-TTR8-004	K1011248-009	✓	✓	✓	✓	✓	✓
K1011248	CL-TTR8-005	K1011248-010	✓	✓	✓	✓	✓	✓
K1011254	FFFW-904	K1011254-001	✓	✓	✓	✓	✓	
K1011254	FB-905	K1011254-002	✓	✓	✓	✓	✓	
K1011379	FFFW-906	K1011379-001	✓	✓	✓	✓	✓	
K1011379	FFFW-907	K1011379-002	✓	✓	✓	✓	✓	
K1011379	FFFW-908	K1011379-003	✓	✓	✓	✓	✓	
K1011383	GK-TTR6-1	K1011383-001	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR6-2	K1011383-002	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR7-1	K1011383-003	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR7-2	K1011383-004	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR7-3	K1011383-005	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR7-4	K1011383-006	✓	✓	✓	✓	✓	✓

Sample Index
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	SVOC	BEHP	Dioxin	PCB	Metal	Lipids
K1011383	GK-TTR8-1	K1011383-007	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR8-2	K1011383-008	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR8-3	K1011383-009	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR8-4	K1011383-010	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR2-1	K1011383-011	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR2-2	K1011383-012	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR3-1	K1011383-016	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR3-2	K1011383-017	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR4-1	K1011383-018	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR4-2	K1011383-019	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR5-1	K1011383-020	✓	✓	✓	✓	✓	✓
K1011383	GK-TTR5-2	K1011383-021	✓	✓	✓	✓	✓	✓
K1011383	GulfKillifish	K1011383-022	✓					
K1012518	SJFCA2-LF1	K1012518-004		✓	✓	✓	✓	✓
K1012518	SJFCA2-LF1-R	K1012518-008		✓	✓	✓	✓	✓
K1012518	SJFCA2-LF2	K1012518-012		✓	✓	✓	✓	✓
K1012518	SJFCA2-LF3	K1012518-016		✓	✓	✓	✓	✓
K1012518	SJFCA2-LF4	K1012518-020		✓	✓	✓	✓	✓
K1012518	SJFCA2-LF4-R	K1012518-024		✓	✓	✓	✓	✓
K1012518	SJFCA2-LF5	K1012518-028		✓	✓	✓	✓	✓
K1012518	SJFCA2-LF6	K1012518-032		✓	✓	✓	✓	✓
K1012518	SJFCA2-LF7	K1012518-036		✓	✓	✓	✓	✓
K1012518	SJFCA2-LF8	K1012518-040		✓	✓	✓	✓	✓
K1012518	SJFCA2-LF8-R	K1012518-044		✓	✓	✓	✓	✓
K1012518	SJFCA2-LF9	K1012518-048		✓	✓	✓	✓	✓
K1012518	SJFCA2-LF10	K1012518-052		✓	✓	✓	✓	✓
K1012518	SJFCA2-LF10-R	K1012518-056		✓	✓	✓	✓	✓
K1012518	Catfish	K1012518-057		✓	✓	✓	✓	
K1012523	SJFCA3-LF1	K1012523-004		✓	✓	✓	✓	✓
K1012523	SJFCA3-LF1-R	K1012523-008		✓	✓	✓	✓	✓
K1012523	SJFCA3-LF2	K1012523-012		✓	✓	✓	✓	✓
K1012523	SJFCA3-LF3	K1012523-016		✓	✓	✓	✓	✓
K1012523	SJFCA3-LF4	K1012523-020		✓	✓	✓	✓	✓
K1012523	SJFCA3-LF5	K1012523-024		✓	✓	✓	✓	✓
K1012523	SJFCA3-LF6	K1012523-028		✓	✓	✓	✓	✓
K1012523	SJFCA3-LF6-R	K1012523-032		✓	✓	✓	✓	✓
K1012523	SJFCA3-LF7	K1012523-036		✓	✓	✓	✓	✓
K1012523	SJFCA3-LF8	K1012523-040		✓	✓	✓	✓	✓
K1012523	SJFCA3-LF9	K1012523-044		✓	✓	✓	✓	✓
K1012523	SJFCA3-LF10	K1012523-048		✓	✓	✓	✓	✓
K1012523	SJFCA3-LF10-R	K1012523-052		✓	✓	✓	✓	✓
K1012523	Catfish-K1012523	K1012523-053		✓	✓	✓	✓	
K1012526	SJFCA1-LF1	K1012526-004		✓	✓	✓	✓	✓
K1012526	SJFCA1-LF1-R	K1012526-008		✓	✓	✓	✓	✓
K1012526	SJFCA1-LF2	K1012526-012		✓	✓	✓	✓	✓
K1012526	SJFCA1-LF3	K1012526-016		✓	✓	✓	✓	✓
K1012526	SJFCA1-LF4	K1012526-020		✓	✓	✓	✓	✓
K1012526	SJFCA1-LF5	K1012526-024		✓	✓	✓	✓	✓
K1012526	SJFCA1-LF6	K1012526-028		✓	✓	✓	✓	✓
K1012526	SJFCA1-LF6-R	K1012526-032		✓	✓	✓	✓	✓
K1012526	SJFCA1-LF7	K1012526-036		✓	✓	✓	✓	✓

Sample Index
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	SVOC	BEHP	Dioxin	PCB	Metal	Lipids
K1012526	SJFCA1-LF8	K1012526-040		✓	✓	✓	✓	✓
K1012526	SJFCA1-LF9	K1012526-044		✓	✓	✓	✓	✓
K1012526	SJFCA1-LF10	K1012526-048		✓	✓	✓	✓	✓
K1012526	SJFCA1-LF10-R	K1012526-052		✓	✓	✓	✓	✓
K1012526	Catfish-K1012526	K1012526-053		✓	✓	✓	✓	
K1012530	SJFCACB-LF1	K1012530-004		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF1-R	K1012530-008		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF2	K1012530-012		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF2-R	K1012530-016		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF3	K1012530-020		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF4	K1012530-024		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF4-R	K1012530-028		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF5	K1012530-032		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF5-R	K1012530-036		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF6	K1012530-040		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF6-R	K1012530-044		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF7	K1012530-048		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF8	K1012530-052		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF8-R	K1012530-056		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF9	K1012530-060		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF9-R	K1012530-064		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF10	K1012530-068		✓	✓	✓	✓	✓
K1012530	SJFCACB-LF10-R	K1012530-072		✓	✓	✓	✓	✓
K1012530	Catfish-K1012530	K1012530-073		✓	✓	✓	✓	
K1012535	SJFCACB-CR1	K1012535-006		✓	✓	✓	✓	✓
K1012535	SJFCACB-CR1-R	K1012535-012		✓	✓	✓	✓	✓
K1012535	SJFCACB-CR2	K1012535-018		✓	✓	✓	✓	✓
K1012535	SJFCACB-CR3	K1012535-024		✓	✓	✓	✓	✓
K1012535	SJFCACB-CR4	K1012535-030		✓	✓	✓	✓	✓
K1012535	SJFCACB-CR5	K1012535-036		✓	✓	✓	✓	✓
K1012535	SJFCACB-CR6	K1012535-042		✓	✓	✓	✓	✓
K1012535	SJFCACB-CR6-R	K1012535-048		✓	✓	✓	✓	✓
K1012535	SJFCACB-CR7	K1012535-054		✓	✓	✓	✓	✓
K1012535	SJFCACB-CR8	K1012535-060		✓	✓	✓	✓	✓
K1012535	SJFCACB-CR9	K1012535-066		✓	✓	✓	✓	✓
K1012535	SJFCACB-CR10	K1012535-072		✓	✓	✓	✓	✓
K1012535	SJFCACB-CR10-R	K1012535-078		✓	✓	✓	✓	✓
K1012535	Crab-K1012535	K1012535-080		✓	✓	✓	✓	
K1012540	SJFCA2-CR1	K1012540-006		✓	✓	✓	✓	✓
K1012540	SJFCA2-CR1-R	K1012540-012		✓	✓	✓	✓	✓
K1012540	SJFCA2-CR2	K1012540-018		✓	✓	✓	✓	✓
K1012540	SJFCA2-CR3	K1012540-024		✓	✓	✓	✓	✓
K1012540	SJFCA2-CR4	K1012540-030		✓	✓	✓	✓	✓
K1012540	SJFCA2-CR5	K1012540-036		✓	✓	✓	✓	✓
K1012540	SJFCA2-CR6	K1012540-042		✓	✓	✓	✓	✓
K1012540	SJFCA2-CR6-R	K1012540-048		✓	✓	✓	✓	✓
K1012540	SJFCA2-CR7	K1012540-054		✓	✓	✓	✓	✓
K1012540	SJFCA2-CR8	K1012540-060		✓	✓	✓	✓	✓
K1012540	SJFCA2-CR9	K1012540-066		✓	✓	✓	✓	✓
K1012540	SJFCA2-CR10	K1012540-072		✓	✓	✓	✓	✓
K1012540	SJFCA2-CR10-R	K1012540-078		✓	✓	✓	✓	✓

Sample Index
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	SVOC	BEHP	Dioxin	PCB	Metal	Lipids
K1012540	Crab-K1012540	K1012540-079		✓	✓	✓	✓	
K1012541	SJFCA3-CR1	K1012541-006		✓	✓	✓	✓	✓
K1012541	SJFCA3-CR1-R	K1012541-012		✓	✓	✓	✓	✓
K1012541	SJFCA3-CR2	K1012541-017		✓	✓	✓	✓	✓
K1012541	SJFCA3-CR3	K1012541-023		✓	✓	✓	✓	✓
K1012541	SJFCA3-CR4	K1012541-028		✓	✓	✓	✓	✓
K1012541	SJFCA3-CR5	K1012541-034		✓	✓	✓	✓	✓
K1012541	SJFCA3-CR6	K1012541-039		✓	✓	✓	✓	✓
K1012541	SJFCA3-CR6-R	K1012541-044		✓	✓	✓	✓	✓
K1012541	SJFCA3-CR7	K1012541-050		✓	✓	✓	✓	✓
K1012541	SJFCA3-CR8	K1012541-055		✓	✓	✓	✓	✓
K1012541	SJFCA3-CR9	K1012541-061		✓	✓	✓	✓	✓
K1012541	SJFCA3-CR10	K1012541-067		✓	✓	✓	✓	✓
K1012541	SJFCA3-CR10-R	K1012541-073		✓	✓	✓	✓	✓
K1012541	Crab-K1012541	K1012541-074		✓	✓	✓	✓	
K1012545	SJFCA1-CR1	K1012545-006		✓	✓	✓	✓	✓
K1012545	SJFCA1-CR1-R	K1012545-012		✓	✓	✓	✓	✓
K1012545	SJFCA1-CR2	K1012545-018		✓	✓	✓	✓	✓
K1012545	SJFCA1-CR3	K1012545-024		✓	✓	✓	✓	✓
K1012545	SJFCA1-CR4	K1012545-030		✓	✓	✓	✓	✓
K1012545	SJFCA1-CR5	K1012545-036		✓	✓	✓	✓	✓
K1012545	SJFCA1-CR6	K1012545-042		✓	✓	✓	✓	✓
K1012545	SJFCA1-CR6-R	K1012545-048		✓	✓	✓	✓	✓
K1012545	SJFCA1-CR7	K1012545-054		✓	✓	✓	✓	✓
K1012545	SJFCA1-CR8	K1012545-060		✓	✓	✓	✓	✓
K1012545	SJFCA1-CR9	K1012545-066		✓	✓	✓	✓	✓
K1012545	SJFCA1-CR10	K1012545-072		✓	✓	✓	✓	✓
K1012545	SJFCA1-CR10-R	K1012545-078		✓	✓	✓	✓	✓
K1012545	Crab-K1012545	K1012545-079		✓	✓	✓	✓	

DATA VALIDATION REPORT
San Jacinto River Waste Pits - Tissue Sampling
Semivolatile Organic Compounds by Method SW8270C SIM

This report documents the review of analytical data from the analyses of tissue samples and the associated laboratory and field quality control (QC) samples. Samples were analyzed by Columbia Analytical Services, Inc., Kelso, Washington. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Number of BEHP Only Samples	Validation Level
K1010961	8 Tissue		Stage 2B
K1011127		4 Tissue & 1 Equipment Blank	Stage 2B/2A
K1011128	17 Tissue		Stage 4
K1011248	10 Tissue		Stage 2B
K1011254	2 Filter Wipe		Stage 2A
K1011379	3 Filter Wipe		Stage 2A
K1011383	18 Tissue & 1 Equipment Blank		Stage 2B/2A
K1012518		14 Tissue & 1 Equipment Blank	Stage 2B/2A
K1012523		13 Tissue & 1 Equipment Blank	Stage 2B/2A
K1012526		13 Tissue & 1 Equipment Blank	Stage 2B/2A
K1012530		18 Tissue & 1 Equipment Blank	Stage 2B/2A
K1012535		13 Tissue & 1 Equipment Blank	Stage 2B/2A
K1012540		13 Tissue & 1 Equipment Blank	Stage 2B/2A
K1012541		13 Tissue & 1 Equipment Blank	Stage 2B/2A
K1012545		13 Tissue & 1 Equipment Blank	Stage 2B/2A

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative**.**

SDG K1011383: The equipment blank submitted with this SDG was analyzed for PAHs only due to a laboratory error. There was insufficient sample volume to re-analyze for the specified target analyte list.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

2	Sample Receipt, Preservation, and Holding Times	2	Laboratory Control Samples (LCS/LCSD)
	GC/MS Instrument Performance Check		Field Replicates
	Initial Calibration (ICAL)		Internal Standards
	Continuing Calibration (CCAL)		Target Analyte List
2	Laboratory Blanks	1	Reporting Limits (MDL and MRL)
2	Field Blanks		Compound Identification
2	Surrogate Compounds		Reported Results
2	Matrix Spikes/Matrix Spike Duplicates (MS/MSD)	1	Calculation Verification (Full validation only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

The validation guidance documents state that sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -37°C. The samples were shipped in coolers with dry or wet ice. These outliers did not impact data quality; therefore no qualifiers were assigned.

SDG K1012518: The Sample Catfish-K1012518 was extracted outside of holding time, at 10 days. The bis (2-ethylhexyl) phthalate (BEHP) result in this sample was estimated (J-1).

Laboratory Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank (10x for phthalates). If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-7). No action is taken if the sample result is greater than the action level, or for non-detected results.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however only the following analytes required qualification in one or more samples:

SDG K1010961: phenol (8 results)

SDG K1011128: phenol (16 results)

SDG K1011248: phenol (10 results)

SDG K1011254: benzo(a)anthracene (2 results), chrysene (2 results), BEHP (2 results)

SDG K1011379: benzo(a)anthracene (3 results), chrysene (3 results), BEHP (3 results)

SDG K1011383: naphthalene (1 result)

SDG K1012541: BEHP (1 result)

Field Blanks

To evaluate the effect on the sample data, action levels of 5x (10x for phthalates) the blank concentrations were established. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-6) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

The field blanks for this project are filter wipe samples and equipment blanks. Equipment blanks are associated with the samples in the same SDG as the equipment blank. Filter wipes are only associated with catfish sample tissue fillets and tissue remainders.

Laboratory blanks are used to evaluate all associated field blanks. The contamination in the filter wipe blanks was further evaluated based on Sample FB-905 (the master filter wipe blank). Any remaining positive results in the equipment or filter wipe blanks are then used to evaluate all associated samples.

After qualifiers were issued based on method blank contamination, positive results for several target analytes remained in equipment blank samples. After qualifiers were issued based on method and master filter wipe blanks, positive results for several target analytes remained in filter wipe samples. However, only the following analytes required qualification in one or more samples:

SDG K1011127: One equipment blank, Bait, was submitted with this SDG. BEHP was detected in the equipment blank.

SDG K1011254: Two filter wipe blanks, FFFW-904 and FB-905, were submitted with this SDG. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the filter wipe blanks, however only the following analytes were qualified as not detected (U-6) in Sample FFFW-904: phenol, benzyl alcohol, diethyl phthalate, di-n-butyl phthalate, fluoranthene, and pyrene.

SDG K1011379: Three filter wipe blanks, FFFW-906, FFFW-907, and FFFW-908, were submitted with this SDG. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the filter wipe blanks, however in all three filter wipe samples only the following analytes were qualified as not detected (U-6): phenol, benzyl alcohol, diethyl phthalate, di-n-butyl phthalate, and fluoranthene.

SDG K1011383: One equipment blank, Gulf Killifish was submitted with this SDG. After qualification for method blank contamination no positive results remained in this sample.

SDG K1012518: One equipment blank, Catfish-K1012518, was submitted with this SDG. BEHP was detected in this blank.

SDG K1012523: One equipment blank, Catfish-K1012523, was submitted with this SDG. BEHP was detected in this blank.

SDG K1012526: One equipment blank, Catfish-K1012526, was submitted with this SDG. No target analytes were detected in the equipment blank.

SDG K1012530: One equipment blank, Catfish-K1012530, was submitted with this SDG. BEHP was detected in this blank.

SDG K1012535: One equipment blank, Crab-K1012535, was submitted with this SDG. BEHP was detected in this blank.

SDG K1012540: One equipment blank, Crab-K1012540, was submitted with this SDG. BEHP was detected in this blank.

SDG K1012541: One equipment blank, Crab-K1012541, was submitted with this SDG. After qualification for method blank contamination no positive results remained in this blank.

SDG K1012545: One equipment blank, Crab-K1012545, was submitted with this SDG. BEHP was detected in this blank.

Surrogate Compounds

SDG K1010961: The percent recovery (%R) value for terphenyl-d14 in Sample CL-TTR3-004 was greater than the upper control limit. One outlier per acid/base-neutral fraction is allowed. No data were qualified.

SDG K1012530: The %R value for terphenyl-d14 in Sample SJFCACB-LF8-R was less than the lower control limit. The reporting limit for BEHP was estimated (UJ-13) in this sample.

Matrix Spike/Matrix Spike Duplicate

SDG K1012526: Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed using Sample SJFCA1-LF10-R. The %R value for BEHP was less than the lower control limit in the MSD, but the MS %R value was acceptable; no data were qualified for this single outlier. The relative percent difference (RPD) value was greater than the 40% control limit; the result for BEHP was estimated (J-9) in the parent sample.

Laboratory Control Samples

SDGs K1010961 & K1011248: The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) %R values for 2,3,4,6-tetrachlorophenol were less than the lower control limit. This analyte was not detected in the associated samples; the reporting limits were estimated (UJ-10).

SDG K1011128: The LCS/LCSD %R values for 2,3,4,6-tetrachlorophenol were less than the lower control limit. This analyte was not detected in the associated samples; the reporting limits were estimated (UJ-10). The LCSD %R value for pentachlorophenol was less than the lower control limit, but the LCS %R value was acceptable; no data were qualified for this single outlier. The RPD value for pentachlorophenol was greater than the control limit, this analyte was not detected in the associated samples; no data were qualified.

SDGs K1011254 & K1011379: The RPD value for benzoic acid was greater than the control limit. Benzoic acid was not detected in the associated samples; no data were qualified. Benzaldehyde and biphenyl were not spiked into the LCS/LCSD, but were included in the calibration standards. Benzaldehyde and biphenyl were not detected in the associated samples; no data were qualified.

Reporting Limits

For samples analyzed at dilution the reporting limits were elevated accordingly.

SDG K1011127: Sample BBSH-901 was analyzed at dilution (10x).

SDG K1012518: Sample SJFCA2-LF8-R was analyzed at dilution (10x).

SDG K1012523: Three samples were analyzed at dilution (10x).

SDG K1012526: Sample SJCA1-LF1-R was analyzed at dilution (10x).

SDG K1012530: Seven samples were analyzed at dilution (10x).

SDG K1012535: Sample SJFCACB-CR1-R was analyzed at dilution (10x).

SDG K1012540: Sample SJFCA2-CR1-R was analyzed at dilution (10x).

Calculation Verification

SDG K1011128: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by the surrogate, MS/MSD, and LCS/LCSD %R values. With the exceptions noted above, precision was also acceptable as demonstrated by the MS/MSD and LCS/LCSD RPD values.

Data were qualified as not detected based on method and field blank contamination. Data were estimated due to LCS/LCSD and surrogate recovery outliers, and due to an MS/MSD RPD outlier. Data were also estimated based on a holding time outlier.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits - Tissue Sampling
Dioxin/Furan Compounds and Lipids by EPA 1613B

This report documents the review of analytical data from the analyses of tissue samples and the associated laboratory quality control (QC) samples. Columbia Analytical Services, Houston, Texas, analyzed the samples. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1010961	8 Tissue	Stage 2B
K1011127	4 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1011128	17 Tissue	Stage 4
K1011248	10 Tissue	Stage 2B
K1011254	2 Filter Wipe	Stage 2A
K1011379	3 Filter Wipe	Stage 2A
K1011383	18 Tissue	Stage 2B
K1012518	14 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1012523	13 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1012526	13 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1012530	18 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1012535	13 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1012540	13 Tissue & 1 Equipment Blank	Stage 4 Stage 2A
K1012541	13 Tissue & 1 Equipment Blank	Stage 4 Stage 2A
K1012545	13 Tissue & 1 Equipment Blank	Stage 4 Stage 2A

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

SDG K10111254 & K1011379: The filter wipe units were reported as "ng/kg" in the EDD, but as "pg as received" in the hard copy data package. As per communication with the client, EcoChem changed the units to "pg" in the EDD.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times	1	Matrix Spike/Matrix Spike Duplicate (MS/MSD)
	GC/MS Instrument Performance Check	2	Laboratory Control Samples (LCS/LCSD)
	Initial Calibration (ICAL)		Reference Material (RM)
	Calibration Verification (CVER)		Field Replicates
	Isomer Specificity		Target Analyte List
2	Laboratory Blanks		Reported Results
2	Field Blanks	2	Compound Identification
2	Labeled Compound Recovery	1	Calculation Verification (EPA Stage 4 only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -49°C and the highest at 11.0°C. The samples were shipped in coolers with dry or wet ice. These outliers did not impact data quality; no data were qualified.

Laboratory Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-7). No action is taken if the sample result is greater than the action level, or for non-detected results. The laboratory assigned K-flags to values when a peak was detected but did not meet identification criteria. These values cannot be considered as positive identifications, but are “estimated maximum possible concentrations”. When these occurred in the method blank the results were considered as false positives. No action levels were established for these analytes.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however only the following analytes required qualification in one or more samples:

SDG K1011127: OCDD (1 aqueous result)

SDG K1011254: OCDD (1 tissue result)

SDG K1011383: OCDD (8 tissue results)

SDG K1012518: 1,2,3,4,6,7,8-HpCDD (2 tissue & 1 aqueous results), OCDD (5 tissue results)

SDG K1012523: 1,2,3,4,6,7,8-HpCDD (2 tissue results), OCDD (5 tissue & 1 aqueous results)

SDG K1012526: 1,2,3,4,6,7,8-HpCDD (1 tissue & 1 aqueous results), OCDD (6 tissue & 1 aqueous results)

SDG K1012530: 1,2,3,4,6,7,8-HpCDD (1 aqueous result)

SDG K1012535: 1,2,3,4,6,7,8-HpCDD (2 tissue results)

SDG K1012540: 1,2,3,4,6,7,8-HpCDD (2 tissue results)

SDG K1012541: OCDD (4 tissue & 1 aqueous results)

SDG K1012545: OCDD (1 tissue & 1 aqueous results)

Field Blanks

To evaluate the effect on the sample data, action levels of 5x the blank concentrations were established. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-6) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

The field blanks for this project are filter wipe samples and equipment blanks. Equipment blanks are associated with the samples in the same SDG as the equipment blank. Filter wipes are only associated with catfish sample tissue fillets and tissue remainders.

Laboratory blanks are used to evaluate all associated field blanks. The contamination in the filter wipe blanks was further evaluated based on Sample FB-905 (the master filter wipe blank). Any remaining positive results in the equipment or filter wipe blanks are then used to evaluate all associated samples.

After qualifiers were issued based on method blank contamination, positive results for several target analytes remained in equipment blank samples. After qualifiers were issued based on method and master filter wipe blanks, positive results for several target analytes remained in filter wipe samples. However, only the following analytes required qualification in one or more samples:

SDG K1011127: One equipment blank, Bait, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers a positive result remained for 1,2,3,4,6,7,8-HpCDD in this sample.

SDG K1011254: Two filter wipe blanks, FFFW-904 and FB-905, were submitted with this

SDG. No positive results remained in these blanks after qualification for ion ratio outliers and method blank contamination.

SDG K1011379: Three filter wipe blanks, FFFW-906, FFFW-907, and FFFW-908, were submitted with this SDG. A positive result for 1,2,3,4,6,7,8-HpCDD remained in Sample FFFW-906 and positive results for 1,2,3,4,6,7,8-HpCDD, OCDD, 1,2,3,4,6,7,8-HpCDF, and OCDF remained in Sample FFFW-908 after qualifiers based on ion ratio outliers and method blank contamination.

SDG K1012518: One equipment blank, Catfish-K1012518, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers no positive results remained in this sample.

Due to filter wipe contamination, four results for 1,2,3,4,6,7,8-HpCDD and three results for OCDD were qualified as not detected (U-6). All qualified results were tissue fillet samples.

SDG K1012523: One equipment blank, Catfish-K1012523, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers no positive results remained in this sample.

Due to filter wipe contamination, two results for 1,2,3,4,6,7,8-HpCDD, five results for OCDD and one result for OCDF were qualified as not detected (U-6). All qualified results were tissue fillet samples.

SDG K1012526: One equipment blank, Catfish-K1012526, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers no positive results remained in this sample.

Due to filter wipe contamination, four results for 1,2,3,4,6,7,8-HpCDD and one result each for OCDD and OCDF were qualified as not detected (U-6). All qualified results were tissue fillet samples.

SDG K1012530: One equipment blank, Catfish-K1012530, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers no positive results remained in this sample.

Due to filter wipe contamination, nine results for 1,2,3,4,6,7,8-HpCDD, one result for 1,2,3,4,6,7,8-HpCDF, and seven results for OCDD were qualified as not detected (U-6). All qualified results were tissue fillet samples.

SDG K1012535: One equipment blank, Crab-K1012535, was submitted with this SDG. A positive result for 1,2,3,4,6,7,8-HpCDD was reported in this blank.

SDG K1012540: One equipment blank, Crab-K1012540, was submitted with this SDG. A positive result for OCDD was reported in this blank.

SDG K1012541: One equipment blank, Crab-K1012541, was submitted with this SDG. After qualification for method blank contamination a positive result for 1,2,3,4,6,7,8-HpCDD remained in this sample.

SDG K1012545: One equipment blank, Crab-K1012545, was submitted with this SDG. A positive result for 1,2,3,4,6,7,8-HpCDD was reported in this blank.

Labeled Compound Recovery

SDG K1011127: In Sample BBSH-901 the percent recovery (%R) values for 13C-2,3,7,8-TCDD, 13C-2,3,7,8-TCDF, 13C-1,2,3,4,7,8-HxCDD, and 13C-2,3,4,6,7,8-HxCDF were less than the lower control limit. Results for the associated analytes were estimated (J/UJ-13). The %R value for 37Cl-2,3,7,8-TCDD was less than the lower control limit. This analyte is used to monitor the clean-up process and not used for any compound quantitation.

Matrix Spike/Matrix Spike Duplicate

SDG K1011248: Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed using Sample CL-TTR7-005. The MS %R values for 1,2,3,6,7,8-HxCDD, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, and 1,2,3,4,6,7,8-HpCDF were greater than the upper control limits, but the MSD %R values for these analytes were within control limits; no data were qualified.

SDG K1011383: The MS/MSD analyses were performed using Sample GK-TTR5-2. The MS %R value for 1,2,3,6,7,8-HxCDF was greater than the upper control limit, but the MSD %R value was within control limits; no data were qualified for this single outlier. The MS/MSD %R values for 1,2,3,4,6,7,8-HpCDF were greater than the upper control limit. This analyte was not detected in the parent sample; no data were qualified.

Laboratory Control Sample

SDG K1010961: The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) %R values for 1,2,3,4,6,7,8-HpCDF were greater than the upper control limit. This analyte was estimated (J-10) in Sample CL-TTR4-002.

SDG K1011128, K1011254: The LCS/LCSD %R values for 1,2,3,4,6,7,8-HpCDF were greater than the upper control limit. This analyte was not detected in the associated samples; no data were qualified.

SDG K1011379: The LCS/LCSD %R values for 1,2,3,4,6,7,8-HpCDF were greater than the upper control limit. This analyte was estimated (J-10) in Sample FFFW-908.

SDG K1011383: The LCS %R values for 1,2,3,4,6,7,8-HpCDF was greater than the upper control limit. This analyte was estimated (J-10) in Sample GK-TTR7-4.

SDG K1012540: The LCS %R value for 1,2,3,4,6,7,8-HpCDF was greater than the upper control limit. The LCSD %R value was within control limits. No data were qualified for this single outlier.

Compound Identification

The laboratory assigned K-flags to results when a peak was detected but did not meet ion ratio quantitation criteria. The reported values cannot be considered as positive identification for these analytes. These results were considered potential false positives or estimated maximum possible concentrations (EMPC) and were qualified as not detected (U-22) at the reported values. Laboratory blank values flagged "K" were considered as non-detects.

All positive results for 2,3,7,8-TCDF were confirmed on a DB-225 column as required by the method. Where confirmation was required only the 2,3,7,8-TCDF results from the DB-225 column were reported in the EDD.

SDG K1012540: The 2,3,4,7,8-PeCDF result in Sample SJFCA2-CR6-R was "P" flagged by the laboratory to indicate the presence of diphenyl ether interference. This reporting limit was estimated (UJ-14).

Calculation Verification

SDGs K1011128, K1012540, K1012540, & K1012545: Calculation verification was performed for these SDG. No calculation or transcription errors were found.

V. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by labeled compound, MS/MSD, and LCS/LCSD %R values. Precision was also acceptable as demonstrated by the MS/MSD and LCS/LCSD relative percent difference (RPD) values.

Data were qualified as not detected due to method and field blank contamination, and based on ion ratio criteria outliers. Data were estimated based on labeled compound and LCS/LCSD recovery outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits - Tissue Sampling
PCB Congeners by EPA 1668A

This report documents the review of analytical data from the analyses of tissue samples and the associated laboratory quality control (QC) samples. Columbia Analytical Services, Houston, Texas, analyzed the samples. Refer to the **Sample Index** for a complete list of samples.

SDG	Number of Samples	Validation Level
K1010961	8 Tissue	Stage 2B
K1011127	4 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1011128	17 Tissue	Stage 4
K1011248	10 Tissue	Stage 2B
K1011254	2 Filter Wipe	Stage 2A
K1011379	3 Filter Wipe	Stage 2A
K1011383	18 Tissue	Stage 2B
K1012518	14 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1012523	13 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1012526	13 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1012530	18 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1012535	13 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1012540	13 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1012541	13 Tissue & 1 Equipment Blank	Stage 2B Stage 2A
K1012545	13 Tissue & 1 Equipment Blank	Stage 2B Stage 2A

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

II. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package. No errors were noted.

SDG K10111254 & K1011379: The filter wipe units were reported as "ng/kg" in the EDD, but as "pg as received" in the hard copy data package. As per communication with the client, EcoChem changed the units to "pg" in the EDD.

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table.

1	Sample Receipt, Preservation, and Holding Times		Matrix Spike/Matrix Spike Duplicate (MS/MSD)
	GC/MS Instrument Performance Check		Laboratory Control Samples (LCS/LCSD)
	Initial Calibration (ICAL)		Reference Material (RM)
	Calibration Verification (CVER)		Field Replicates
	Isomer Specificity		Target Analyte List
2	Laboratory Blanks	1	Reported Results
1	Field Blanks	2	Compound Identification
2	Labeled Compound Recovery	1	Calculation Verification (EPA Stage 4 only)

[1] ***Quality control results are discussed below, but no data were qualified.***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the highest at 11.0°C and the lowest at -49°C. The samples were shipped in coolers with dry or wet ice. These outliers did not impact data quality; no data were qualified.

Laboratory Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-7). No action is taken if the sample result is greater than the action level, or for non-detected results. The laboratory assigned K-flags to values when a peak was detected but did not meet identification criteria. These values cannot be considered as positive identifications, but are “estimated maximum possible concentrations”. When these occurred in the method blank the results were considered as false positives. No action levels were established for these analytes.

Method blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however only the following analytes required qualification in one or more samples:

SDG K1010961: Sixty-one target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for eight of these analytes.

SDG K1011127: Fifty-six target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for 29 of these analytes.

SDG K1011128: Seventy target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for 14 of these analytes.

SDG K1011248: Fifty-four target analytes were detected in the method blank. Samples were qualified as not detected (U-7) for 29 of these analytes.

SDG K1011254: Seventy-eight target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for 47 of these analytes.

SDG K1011379: Seventy-eight target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for 50 of these analytes.

SDG K1011383: Seventy-one target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for 39 of these analytes.

SDG K1012518: Forty-nine target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for 25 of these analytes.

SDG K1012523: Seventy-five target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for 29 of these analytes.

SDG K1012526: Seventy-five target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for 32 of these analytes.

SDG K1012530: Seventy-three target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for 32 of these analytes.

SDG K1012535: Forty-seven target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for 30 of these analytes.

SDG K1012540: Sixty-nine target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for 25 of these analytes.

SDG K1012541: Fifty-four target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for 20 of these analytes.

SDG K1012545: Thirty-five target analytes were detected in the method blanks. Samples were qualified as not detected (U-7) for 24 of these analytes.

Field Blanks

To evaluate the effect on the sample data, action levels of 5x the blank concentrations were established. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-6) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

The field blanks for this project are filter wipe samples and equipment blanks. Equipment blanks are associated with the samples in the same SDG as the equipment blank. Filter wipes are only associated with catfish sample tissue fillets and tissue remainders.

Laboratory blanks are used to evaluate all associated field blanks. The contamination in the filter wipe blanks was further evaluated based on Sample FB-905 (the master filter wipe blank). Any remaining positive results in the equipment or filter wipe blanks are then used to evaluate all associated samples.

After qualifiers were issued based on method blank contamination, positive results for several target analytes remained in equipment blank samples. After qualifiers were issued based on method and master filter wipe blanks, positive results for several target analytes remained in filter wipe samples. All tissue sample results for these analytes were either not detected or were present at concentrations greater than the action levels. No tissue results were qualified based on filter wipe contamination or equipment blank contamination.

SDG K1011127: One equipment blank, Bait, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers, positive results for five PCB congeners remained.

SDG K1011254: Two filter wipe blanks, FFFW-904 and FB-905, were submitted with this SDG. After qualification for method blank and master filter wipe contamination, and ion ratio outliers, positive results for nine PCB congeners remained in Sample FFFW-904.

SDG K1011379: Three filter wipe blanks, FFFW-906, FFFW-907, and FFFW-908, were submitted with this SDG. After qualification for method blank and master filter wipe contamination, and ion ratio outliers, positive results remained for ten PCB congeners in Sample FFFW-906, 11 PCB congeners in Sample FFFW-907, and four PCB congeners in FFFW-908.

SDG K1012518: One equipment blank, Catfish-K1012518, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers, positive results for 17 PCB congeners remained.

SDG K1012523: One equipment blank, Catfish-K1012523, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers, positive results for eight PCB congeners remained.

SDG K1012526: One equipment blank, Catfish-K1012526, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers, positive results for 11 PCB congeners remained.

SDG K1012530: One equipment blank, Catfish-K1012530, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers, positive results for 14 PCB congeners remained.

SDG K1012535: One equipment blank, Crab-K1012535, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers, positive results remained for two congeners (PCB 66 and PCB 118).

SDG K1012540: One equipment blank, Crab-K1012540, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers, positive results for 11 PCB congeners remained.

SDG K1012541: One equipment blank, Crab-K1012541, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers, positive results for 14 PCB congeners remained.

SDG K1012545: One equipment blank, Crab-K1012545, was submitted with this SDG. After qualification for method blank contamination and ion ratio outliers, positive results for six PCB congeners remained.

Labeled Compound Recovery

Labeled compounds were added to all samples. The labeled compound percent recovery (%R) values were evaluated using the laboratory control limits. If the labeled compound recovery outlier value indicates high bias, positive results for the associated compounds are estimated (J-13); for outlier values indicating low bias, positive results and reporting limits for the associated compounds are estimated (J/UJ-13). For PCB 28L, PCB 111L and PCB 178L recovery values outside control limits, no qualifiers were applied. These compounds are used to monitor the clean-up process and not used for any compound quantitation.

SDG K1010961: The %R values for PCB 77L and PCB 105L were less than the lower control limit in Sample CL-TTR4-001. The PCB congeners associated with these labeled compounds were estimated (J/UJ-13) in this sample. The %R value for PCB 111L was also less than the lower control limit in this sample.

SDG K1011127: The %R value for PCB 19L was less than the lower control limit in Sample BBSH-901. The PCB congeners associated with this labeled compound were estimated (J/UJ-13) in this sample.

SDG K1011128: The %R value for PCB 206L was less than the lower control limit in Samples CL-TTR1-004, CL-TTR4-005, and CL-TTR5-002. The results for PCB 206 and PCB 207 were estimated (J-13) in these samples.

SDG K1012523: The %R value for PCB 188L was greater than the upper control limit in Sample Catfish-K1012523. The result for PCB 170 was estimated (J-13) in this sample. The %R values for PCB 28L, PCB 111L and PCB 178L were less than 10% in Samples SJFCA3-LF1-R, SJFCA3-LF6-R, and SJFCA3-LF10-R.

SDG K1012526: The %R values for PCB 28L, PCB 111L, and PCB 178L were less than 10% in Sample SJFCA1-LF6-R.

SDG K1012530: The %R values for PCB 28L, PCB 111L and PCB 178L were less than 10% in Samples SJFCACB-LF2-R, SJFCACB-LF6-R, SJFCACB-LF9-R, and SJFCACB-LF10-R.

Reported Results

Reported concentrations for several compounds were greater than the calibrated linear range of the instrument; the laboratory flagged these results with an "E" in the hard copy data package. Affected sample extracts were diluted and re-analyzed. Only the most appropriate result was reported in the EDD, with the exception noted below.

SDG K1012526: In the EDD the result for PCB 153+168 in Sample SJFCA1-LF6-R was from the initial analysis. This sample was diluted (10x) and re-analyzed. The EDD was changed to the dilution result as per communication with the client.

Compound Identification

The laboratory assigned K-flags to results when a peak was detected but did not meet ion ratio quantitation criteria. The reported values cannot be considered as positive identification for these analytes. These results were considered potential false positives or estimated maximum possible concentrations (EMPC) and were qualified as not detected (U-22) at the reported values. Laboratory blank values flagged "K" were considered as non-detects.

IV. OVERALL ASSESSMENT

As was determined by this evaluation, the laboratory followed the specified analytical method. With the exceptions noted above, accuracy was acceptable as demonstrated by labeled compound, MS/MSD, and LCS/LCSD %R values. Precision was also acceptable as demonstrated by the MS/MSD and LCS/LCSD relative percent difference (RPD) values.

Data were qualified as not detected due to method blank contamination and ion ratio criteria outliers. Data were estimated due to labeled compound recovery outliers.

All data, as qualified, are acceptable for use.

DATA VALIDATION REPORT
San Jacinto River Waste Pits - Tissue Sampling
Metals by Methods SW6010B, SW6020A, SW7470A, and SW7471A
Total Solids by Method 160.3M

This report documents the review of analytical data from the analyses of tissue samples and the associated laboratory quality control (QC) samples. Columbia Analytical Services, Kelso, Washington, analyzed the samples. Refer to the Sample Index for a complete list of samples.

SDG	Number of Samples	Validation Level
K1010961	8 Tissue	Stage 2B
K1011127	4 Tissue 1 Equipment Blank	Stage 2B Stage 2A
K1011128	17 Tissue	Stage 3
K1011248	10 Tissue	Stage 2B
K1011254	2 Wipes	Stage 2A
K1011379	3 Wipes	Stage 2A
K1011383	18 Tissue	Stage 2B
K1012518	14 Tissue 1 Equipment Blank	Stage 2B Stage 2A
K1012523	13 Tissue 1 Equipment Blank	Stage 2B Stage 2A
K1012526	13 Tissue 1 Equipment Blank	Stage 2B Stage 2A
K1012530	18 Tissue 1 Equipment Blank	Stage 2B Stage 2A
K1012535	13 Tissue 1 Equipment Blank	Stage 2B Stage 2A
K1012540	13 Tissue 1 Equipment Blank	Stage 2B Stage 2A
K1012541	13 Tissue 1 Equipment Blank	Stage 2B Stage 2A
K1012545	13 Tissue 1 Equipment Blank	Stage 2B Stage 2A

I. DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables, with the exceptions noted below. The laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

SDG K1011248: The laboratory control sample (LCS) summary forms were missing from the data package. The laboratory was contacted and the correct forms were submitted.

SDGs K1012535, K1012540, K1012541, and K10142545: The original data package reported an incorrect true value for the aluminum spike in all continuous calibration verification (CCV) samples. The laboratory was contacted and corrected summary forms were submitted.

SDG K1012545: Some of the raw data forms for Method 6020 were missing from the analytical run. The laboratory was contacted and the correct forms were submitted.

I. EDD TO HARDCOPY VERIFICATION

Ten percent (10%) of the results in the laboratory EDD were verified by comparison to the hardcopy laboratory data package.

SDG K1012523: In the EDD, the nickel results for Samples SJFCA3-LF6, SJFCA3-LF6-R, SJFCA3-LF7, SJFCA3-LF8, SJFCA3-LF9, SJFCA3-LF10, and SJFCA3-LF10-R were incorrectly flagged as "*". This flag indicates that the result is an outlier and is discussed in the case narrative. There were no outliers associated with nickel in these samples.

Chromium is flagged (*) correctly in the EDD, but not in the data package. All chromium results should be flagged (*).

SDG K1012526: In the EDD, all nickel results were incorrectly flagged as "*". This flag indicates that the result is an outlier and is discussed in the case narrative. There were no outliers associated with nickel in these samples.

The data package and the EDD are missing (*) lab flags for chromium. All chromium results should be flagged (*).

III. TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed below.

1	Sample Receipt, Preservation, and Holding Times	2	Matrix Spike Samples
	Initial Calibration	2	Laboratory Duplicates
	Continuing Calibration Verification		Field Replicates
	ICP-MS Tune		Interference Check Samples
2	CRDL Standards	2	Serial Dilutions
2	Laboratory Blanks		ICP-MS Internal Standards
2	Field Blanks	1	Reporting Limits (MDL and MRL)
	Laboratory Control Samples (LCS/LCSD)	1	Reported Results
1	Reference Materials	1	Calculation Verification (Stage 3 only)

[1] ***Quality control results are discussed below, but no data were qualified***
[2] ***Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.***

Sample Receipt, Preservation, and Holding Times

As stated in validation guidance documents, sample shipping coolers should arrive at the laboratory within the advisory temperature range of 2° to 6°C. The laboratory received sample coolers with temperatures less than the lower limit, the lowest at -37°C. The samples were shipped in coolers with dry or wet ice. These outliers did not impact data quality; no data were qualified.

Contract Required Detection Limit Standard

Contract required detection limit (CRDL) standards were analyzed at the beginning of each analytical sequence. For percent recovery values (%R) greater than the upper control limit of 130%, positive results less than two times (<2x) the CRDL were estimated (J-14) to indicate a potential high bias. For recoveries less than the lower control limit of 70%, positive results less than twice (<2x) the CRDL and non-detects were estimated (J/UJ-14) to indicate a possible low bias. For %R values less than 50%, positive results less than twice (<2x) the CRDL were estimated (J-14) and non-detected results were rejected (R-14). Outliers for the following analytes resulted in qualification of data:

SDG K1012530: vanadium – high bias

Laboratory Blanks

To assess the impact of any blank contaminant on the reported sample results, an action level is established at five times (5x) the concentration reported in the blank. If a contaminant is reported in an associated field sample and the concentration is less than the action level, the result is qualified as not detected (U-7). No action is taken if the sample result is greater than the action level, or for non-detected results.

In addition, some analytes were found at levels less than the negative MDL in some instrument blanks. For negative blanks, action levels of 5x the absolute value of the blank concentrations were established. Results less than the action levels in the associated samples were estimated (J/UJ-7) to indicate a potential low bias.

Laboratory blanks were analyzed at the appropriate frequency. Contaminant levels, associated samples, and action levels are documented in the data validation worksheets. Various target analytes were detected in the method blanks, however only the following analytes required qualification in one or more samples:

SDG K1010961: tissues: mercury, vanadium – low bias (J-7)

SDG K1011127: aqueous: aluminum, magnesium, lead, manganese – high bias (U-7), chromium – low bias (UJ-7).

SDG K1011248: tissues: mercury – low bias (J-7)

SDGs K1011254 & K1011379: filter wipes: cadmium, cobalt, manganese, nickel – high bias (U-7)

SDG K1011383: tissue samples: cadmium – high bias (U-7)

SDGs K1012518 & K1012523: aqueous: aluminum, magnesium, cadmium, lead, nickel – high bias (U-7), chromium, mercury – low bias (UJ-7).

tissues: vanadium, cadmium, lead – high bias (U-7) , chromium – low bias (J/UJ-7).

SDG K1012526: aqueous: aluminum, magnesium, manganese, nickel – high bias (U-7), mercury, chromium – low bias (UJ-7).

tissues: vanadium, lead – high bias (U-7) , chromium – low bias (J/UJ-7).

SDG K1012530: aqueous: aluminum, magnesium, cadmium – high bias (U-7), mercury, chromium – low bias (J/UJ-7).

tissues: vanadium, nickel – high bias (U-7) , chromium – low bias (UJ-7).

SDG K1012535: aqueous: aluminum, magnesium, manganese, nickel – high bias (U-7), mercury, chromium – low bias (UJ-7).

tissues: nickel – high bias (U-7) , mercury – low bias (J-7).

SDG K1012540: aqueous: aluminum, magnesium, nickel, cobalt, manganese – high bias (U-7), mercury, chromium – low bias (UJ-7).

tissues: lead, nickel – high bias (U-7) , mercury – low bias (J-7).

SDG K1012541: aqueous: aluminum, cadmium – high bias (U-7), mercury – low bias (UJ-7).

tissues: nickel – high bias (U-7).

SDG K1012545: aqueous: aluminum, magnesium, copper, manganese – high bias (U-7), mercury, chromium – low bias (UJ-7).

tissues: lead, nickel – high bias (U-7), mercury – low bias (UJ-7).

Field Blanks

To evaluate the effect on the sample data, action levels of 5x the blank concentrations were established. If a contaminant is detected in an associated field sample and the concentration is less than the action level, the result is qualified (U-6) at the reported concentration to indicate an elevation of the reporting limit. No action is taken if the sample result is greater than the action level, or for non-detected results.

The field blanks for this project are filter wipe samples and equipment blanks. Equipment blanks are associated with the samples in the same SDG as the equipment blank. Filter wipes are only associated with catfish sample tissue fillets and tissue remainders.

Laboratory blanks are used to evaluate all associated field blanks. The contamination in the filter wipe blanks was further evaluated based on Sample FB-905 (the master filter wipe blank). Any

remaining positive results in the equipment or filter wipe blanks are then used to evaluate all associated samples.

After qualifiers were issued based on method blank contamination, positive results for several target analytes remained in equipment blank samples. After qualifiers were issued based on method and master filter wipe blanks, positive results for several target analytes remained in filter wipe samples. However, only the following analytes required qualification in one or more samples:

SDG K1011127: One equipment blank, Sample Bait, was submitted with this SDG. Positive results for cobalt, copper, and nickel remained in the equipment blank after qualification due to laboratory blanks.

SDG K1011254: Two filter wipe blanks, FB-905 and FFFW-904, were submitted with this SDG. Based on contamination reported in the master filter wipe, FB-905, arsenic, barium, copper, lead, magnesium, and zinc were qualified as not detected (U-6) in filter wipe Sample FFFW-904.

SDG K1011379: Three filter wipe blanks, FFFW-906, FFFW-907 and FFFW-908, were submitted with this SDG. Based on contamination reported in the master filter wipe, FB-905, arsenic, barium, copper, lead, magnesium, and zinc were qualified as not detected (U-6) in filter wipe Samples FFFW-906, FFFW-907 and FFFW-908.

SDG K1012518: One equipment blank, Sample Catfish, was submitted with this SDG. Positive results for arsenic, barium, cobalt, copper, and manganese remained in the equipment blank after qualification due to laboratory blanks.

SDG K1012523: One equipment blank, Sample Catfish-K1012523, was submitted with this SDG. Positive results for arsenic, cobalt, and copper remained in the equipment blank after qualification due to laboratory blanks.

SDG K1012526: One equipment blank, Sample Catfish-K1012526, was submitted with this SDG. Positive results for arsenic, cobalt, copper, and lead remained in the equipment blank after qualification due to laboratory blanks.

SDG K1012530: One equipment blank, Sample Catfish-K1012530, was submitted with this SDG. Positive results for chromium, cobalt, copper, lead, manganese, nickel, and zinc remained in the equipment blank after qualification due to laboratory blanks. Results for chromium (9 results), copper (16 results), lead (14 results), and nickel (4 results) in tissue samples were qualified as not detected (U-6) due to equipment blank contamination.

SDG K1012535: One equipment blank, Sample Crab-K1012535, was submitted with this SDG. Positive results for copper and lead remained in the equipment blank after qualification due to laboratory blanks.

SDG K1012540: One equipment blank, Sample Crab-K1012540, was submitted with this SDG. Positive results for copper and lead remained in the equipment blank after qualification due to laboratory blanks. Lead results in six tissue samples were qualified as not detected (U-6) due to equipment blank contamination.

SDG K1012541: One equipment blank, Sample Crab-K1012541, was submitted with this SDG. Positive results for arsenic, barium, chromium cobalt, copper, lead, magnesium, manganese, nickel, and zinc remained in the equipment blank after qualification due to laboratory blanks. Results for chromium (9 results), lead (2 results), and nickel (3 results) in tissue samples were qualified as not detected (U-6) due to equipment blank contamination.

SDG K1012545: One equipment blank, Sample Crab-K1012545, was submitted with this SDG. Positive results for arsenic remained in the equipment blank after qualification due to laboratory blanks.

Reference Materials

The certified reference materials (CRM) N.R.C.C. Tort-2 and N.R.C.C. Dorm-3 were analyzed with the tissue samples.

If the %R value indicates potential low bias, associated results are estimated (J/UJ-12). If the %R value indicates a potential high bias, only the associated positive results are estimated (J-12).

The following outliers were observed:

SDG K1011127: N.R.C.C. DORM-3: chromium (low bias). The LCS and N.R.C.C. Tort-2 %R values were within control limits; no data were qualified.

Matrix Spikes

Matrix spike samples (MS) were analyzed at the proper frequency of one per 20 samples or one per batch for tissue samples. If the MS percent recovery (%R) value indicates a potential low bias, associated results are estimated (J/UJ-8). If the %R value indicates a potential high bias, only the associated positive results are estimated (J-8). For %R values less than 30%, indicating an extreme low bias, the results for the post digestion spike were also evaluated. If the post spike %R values were acceptable, then associated results were estimated (J/UJ-8). If the post spike %R value was also outside of the control limits of 75%-125%, then positive results were estimated (J-8) and non-detects were rejected (R-8).

The following analytes were qualified in one or more samples based on %R value outliers.

SDG K1011127: BBMU-9035: manganese (low bias)

SDG K1011383: GK-TTR5-2: manganese (high bias)

SDG K1012523: SJFCA3-LF10-R: barium, manganese (high bias)

SDG K1012526: Batch QC: barium, manganese (high bias)

SDG K1012540: SJFCA2-CR10-R: copper (low bias)

SDG K1012545: Batch QC: copper (low bias)

Laboratory Duplicates

There was insufficient sample to analyze duplicates for the wipe samples; the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) relative percent difference (RPD) values were used to evaluate laboratory precision.

Laboratory duplicates were analyzed at the proper frequency of one per 20 samples or one per batch for the tissue samples. The following acceptance criteria were used to evaluate precision. The RPD control limit is 30% for mercury analysis. The RPD control limit is 20% for all remaining metals analyses and 35% for total solids analysis. The RPD control limits apply to results greater than 5x the reporting limit (RL). The absolute difference between the sample and replicate must be less than 2x the RL for results less than 5x the RL.

For RPD or difference values exceeding the control limits, associated positive results and non-detects were estimated (J/UJ-9). The following outliers were noted:

SDG K1012518: SJFCA2-LF10-R: chromium (37.6%)

SDG K1012523: SJFCA3-LF10-R: aluminum (96.1%), chromium (difference > 2x the RL); Batch QC: chromium (37.6%)

SDG K1012526: Batch QC: aluminum (96.1%), chromium (difference > 2x the RL)

SDG K1012530: SJFCACB-LF10-R: barium (30.1%), manganese (27.4%)

SDG K1012541: SJFCA3-CR10-R: lead (51.9%)

ICP Serial Dilution

Serial dilutions were analyzed at the proper frequency of one per 20 samples or one per batch; whichever was more frequent. The percent difference (%D) values were less than the control limit of 10% for results greater than 50 times the MDL, except as noted below. For %D outliers, all associated results were estimated (J/UJ-16). The sample used for the serial dilution analysis and the analytes with %D outliers are noted below:

SDG K1010961: CL-TTR4-002: arsenic

SDG K1011127: BBMU-603: copper

SDG K1011128: CL-TTR3-005: arsenic, lead

SDG K1011248: CL-TT74-005: arsenic, barium, cobalt, copper, manganese, nickel

SDG K1011254: FFFW-904: magnesium

SDG K1011379: Batch QC: magnesium

SDG K1011383: GK-TTR5-2: barium, cobalt, copper, lead, manganese, nickel

SDG K1012518: SJFCA2-LF10-R: lead, manganese

SDG K1012523: Batch QC: lead, manganese, SJFCA3-LF10-R: lead, manganese

SDG K1012526: Batch QC: lead, manganese

SDG K1012530: Batch QC: cadmium

SDG K1012535: SJFCACB-CR10: arsenic, barium, cobalt, manganese

SDG K1012545: SJFCACB-CR1: arsenic, barium, cobalt, manganese

Reporting Limits

Reported concentrations for several compounds were greater than the calibrated linear range of the instrument in all tissue and filter wipe samples. Affected sample extracts were diluted (2x, 4x, 5x, 50x, or 100x) and re-analyzed. Only the most appropriate result was reported in the EDD and hardcopy data package. Reporting limits were elevated accordingly.

Reported Results

SDGs K1012535, K1012540, K1012541, and K10142545: The original data package reported an incorrect true value for the aluminum spike in all continuous calibration verification (CCV) samples. The laboratory was contacted and corrected summary forms were submitted.

Calculation Verification

SDG K1011128: Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

IV. OVERALL ASSESSMENT

As determined by this evaluation, the laboratory followed the specified analytical methods. With the exceptions noted above, accuracy was acceptable as demonstrated by the LCS/LCSD, MS sample, and SRM %R values. With the exceptions noted above, precision was also acceptable as demonstrated by the laboratory duplicate and LCS/LCSD RPD values.

Data were estimated and/or qualified not detected based on laboratory and field blank outliers. Data were estimated due to MS and CRDL sample recovery outliers, serial dilution %D outliers, and laboratory duplicate RPD outliers.

All data, as qualified, are acceptable for use.

EcoChem, INC.
Environmental Data Quality

APPENDIX A

DATA QUALIFIER DEFINITIONS, REASON CODES, AND CRITERIA TABLES

DATA VALIDATION QUALIFIER CODES
Based on National Functional Guidelines

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents the approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The following is an EcoChem qualifier that may also be assigned during the data review process:

DNR	Do not report; a more appropriate result is reported from another analysis or dilution.

DATA QUALIFIER REASON CODES

1	Holding Time/Sample Preservation
2	Chromatographic pattern in sample does not match pattern of calibration standard.
3	Compound Confirmation
4	Tentatively Identified Compound (TIC) (associated with NJ only)
5A	Calibration (initial)
5B	Calibration (continuing)
6	Field Blank Contamination
7	Lab Blank Contamination (e.g., method blank, instrument, etc.)
8	Matrix Spike(MS & MSD) Recoveries
9	Precision (all replicates)
10	Laboratory Control Sample Recoveries
11	A more appropriate result is reported (associated with “R” and “DNR” only)
12	Reference Material
13	Surrogate Spike Recoveries (a.k.a., labeled compounds & recovery standards)
14	Other (define in validation report)
15	GFAA Post Digestion Spike Recoveries
16	ICP Serial Dilution % Difference
17	ICP Interference Check Standard Recovery
18	Trip Blank Contamination
19	Internal Standard Performance (e.g., area, retention time, recovery)
20	Linear Range Exceeded
21	Potential False Positives
22	Elevated Detection Limit Due to Interference (i.e., laboratory, chemical and/or matrix)

EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature	4°C ±2°	J(+)/UJ(-) if greater than 6 deg. C (EcoChem PJ)	1
Holding Time	Water: 7 days from collection Soil: 14 days from collection Analysis: 40 days from extraction	Water: J(+)/UJ(-) if ext. > 7 and < 21 days J(+)/R(-) if ext > 21 days (EcoChem PJ) Solids/Wastes: J(+)/UJ(-) if ext. > 14 and < 42 days J(+)/R(-) if ext. > 42 days (EcoChem PJ) J(+)/UJ(-) if analysis >40 days	1
Tuning	DFTPP Beginning of each 12 hour period Method acceptance criteria	R(+/-) all analytes in all samples associated with the tune	5A
Initial Calibration (Minimum 5 stds.)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5A
	%RSD < 30%	(EcoChem PJ, see TM-06) J(+) if %RSD > 30%	5A
Continuing Calibration (Prior to each 12 hr. shift)	RRF > 0.05	(EcoChem PJ, see TM-06) If MDL= reporting limit: J(+)/R(-) if RRF < 0.05 If reporting limit > MDL: note in worksheet if RRF <0.05	5B
	%D <25%	(EcoChem PJ, see TM-06) If > +/-90%: J+/R- If -90% to -26%: J+ (high bias) If 26% to 90%: J+/UJ- (low bias)	5B
Method Blank	One per matrix per batch No results > CRQL	U(+) if sample (+) result is less than CRQL and less than appropriate 5X or 10X rule (raise sample value to CRQL)	7
		U(+) if sample (+) result is greater than or equal to CRQL and less than appropriate 5X and 10X rule (at reported sample value)	7
	No TICs present	R(+) TICs using 10X rule	7
Field Blanks (Not Required)	No results > CRQL	Apply 5X/10X rule; U(+) < action level	6

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EcoChem Validation Guidelines for Semivolatile Analysis by GC/MS (Based on Organic NFG 1999)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
MS/MSD (recovery)	One per matrix per batch Use method acceptance criteria	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	One per matrix per batch Use method acceptance criteria	J(+) in parent sample if RPD > CL	9
LCS low conc. H2O SVOA	One per lab batch Within method control limits	J(+) assoc. cmpd if > UCL J(+)/R(-) assoc. cmpd if < LCL J(+)/R(-) all cmpds if half are < LCL	10
LCS regular SVOA (H2O & solid)	One per lab batch Lab or method control limits	J(+) if %R > UCL J(+)/UJ(-) if %R <LCL J(+)/R(-) if %R < 10% (EcoChem PJ)	10
LCS/LCSD *(if required)*	One set per matrix and batch of 20 samples RPD < 35%	J(+)/UJ(-) assoc. cmpd. in all samples	9
Surrogates	Minimum of 3 acid and 3 base/neutral compounds Use method acceptance criteria	Do not qualify if only 1 acid and/or 1 B/N surrogate is out unless <10% J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) if %R < 10%	13
Internal Standards	Added to all samples Acceptable Range: IS area 50% to 200% of CCAL area RT within 30 seconds of CC RT	J(+) if > 200% J(+)/UJ(-) if < 50% J(+)/R(-) if < 25% RT>30 seconds, narrate and Notify PM	19
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
TICs	Major ions (>10%) in reference must be present in sample; intensities agree within 20%; check identification	NJ the TIC unless: R(+) common laboratory contaminants See Technical Director for ID issues	4
Quantitation/ Identification	RRT within 0.06 of standard RRT Ion relative intensity within 20% of standard All ions in std. at > 10% intensity must be present in sample	See Technical Director if outliers	14 21 (false +)

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler/Storage Temperature	Waters/Solids < 4°C Tissues <-10°C	EcoChem PJ, see TM-05	1
Holding Time	Extraction - Water: 30 days from collection *Note:* Under CWA, SDWA, and RCRA the HT for H2O is 7 days* Extraction - Soil: 30 days from collection Analysis: 40 days from extraction	J(+)/UJ(-) if ext > 30 days J(+)/UJ(-) if analysis > 40 Days EcoChem PJ, see TM-05	1
Mass Resolution	>=10,000 resolving power at m/z 304.9824 Exact mass of m/z 380.9760 w/in 5 ppm of theoretical value (380.97410 to 380.97790) . Analyzed prior to ICAL and at the start and end of each 12 hr. shift	R(+/-) if not met	14
Window Defining Mix and Column Performance Mix	Window defining mixture/Isomer specificity std run before ICAL and CCAL Valley < 25% (valley = (x/y)*100%) x = ht. of TCDD y = baseline to bottom of valley For all isomers eluting near 2378-TCDD/TCDF isomers (TCDD only for 8290)	J(+) if valley > 25%	5A (ICAL) 5B (CCAL
Initial Calibration	Minimum of five standards %RSD < 20% for native compounds %RSD <30% for labeled compounds (%RSD <35% for labeled compounds under 1613b)	J(+) natives if %RSD > 20%	5A
	Abs. RT of $^{13}C_{12}$-1234-TCDD >25 min on DB5 >15 min on DB-225	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10 for all native and labeled compounds in CS1 std.	If <10, elevate Det. Limit or R(-)	

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Continuing Calibration	Analyzed at the start and end of each 12 hour shift. %D+/-20% for native compounds %D +/-30% for labeled compounds (Must meet limits in Table 6, Method 1613B) (If %Ds in the closing CCAL are w/in 25%/35% the avg RF from the two CCAL may be used to calculate samples per Method 8290, Section 8.3.2.4)	Do not qualify labeled compounds. Narrate in report for labeled compound %D outliers. For native compound %D outliers: 8290: J(+)/UJ(-) if %D = 20% - 75% J(+)/R(-) if %D > 75% 1613: J(+)/UJ(-) if %D is outside Table 6 limits J(+)/R(-) if %D is +/- 75% of Table 6 limit	5B
	Abs. RT of $^{13}C_{12}$-1234-TCDD and $^{13}C12$-123789-HxCDD +/- 15 sec of ICAL.	EcoChem PJ, see ICAL section of TM-05	
	RRT of all other compounds must meet Table 2 of 1613B.	EcoChem PJ, see TM-05	
	Ion Abundance ratios within QC limits (Table 8 of method 8290) (Table 9 of method 1613B)	EcoChem PJ, see TM-05	
	S/N ratio > 10	If <10, elevate Det. Limit or R(-)	
Method Blank	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	7
Field Blanks (Not Required)	No positive results	If sample result <5X action level, qualify U at reported value.	6
LCS / OPR	Concentrations must meet limits in Table 6, Method 1613B or lab limits.	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
MS/MSD (recovery)	May not analyze MS/MSD %R should meet lab limits.	Qualify parent only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
MS/MSD (RPD)	May not analyze MS/MSD RPD < 20%	J(+) in parent sample if RPD > CL	9

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EcoChem Validation Guidelines for Dioxin/Furan Analysis by HRMS
(Based on EPA Reg. 10 SOP, Rev. 2, 1996 & EPA SW-846, Methods 1613b and 8290)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Lab Duplicate	RPD <25% if present.	J(+)/UJ(-) if outside limts	9
Labeled Compounds / Internal Standards	*Method 8290:* %R = 40% - 135% in all samples *Method 1613B:* %R must meet limits specified in Table 7, Method 1613	J(+)/UJ(-) if %R = 10% to LCL J(+) if %R > UCL J(+)/R(-) if %R < 10%	13
Quantitation/ Identification	Ions for analyte, IS, and rec. std. must max w/in 2 sec. S/N >2.5 IA ratios meet limits in Table 9 of 1613B or Table 8 of 8290 RRTs w/in limits in Table 2 of 1613B	If RT criteria not met, use PJ (see TM-05) If S/N criteria not met, J(+). if unlabelled ion abundance not met, change to EMPC If labelled ion abundance not met, J(+).	21
EMPC (estimated maximum possible concentration)	If quantitation idenfication criteria are not met, laboratory should report an EMPC value.	If laboratory correctly reported an EMPC value, qualify with U to indicate that the value is a detection limit.	14
Interferences	PCDF interferences from PCDPE	If both detected, change PCDF result to EMPC	14
Second Column Confirmation	All 2378-TCDF hits must be confirmed on a DB-225 (or equiv) column. All QC specs in this table must be met for the confirmation analysis.	Report lower of the two values. If not performed use PJ (see TM-05).	3
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used	11

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EcoChem Validation Guidelines for PCB Congener Analysis by HRMS (Based on EPA Reg. 10 SOP, Rev. 1, 12/1995 & EPA SW-846, Method 1668)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler/Storage Temperature	Waters/Solids <4°C Tissues <-10°C	EcoChem PJ, see TM-05	1
Holding Time	Samples: Up to one year if stored in the dark & temp as above. Extracts: Up to 1 year if stored at <-10°C and in the dark	J(+)/UJ(-) if HT > 1 year EcoChem PJ, see TM-05	1
Mass Resolution	>=10,000 resolving power at m/z 330.9792 <5 ppm deviation from each m/z listed in Table 7 of method. Analyzed prior to ICAL and at the beginning and end of each 12 hr. shift	R(+/-) if not met	14
Column Resolution 209 Congener Solution	Mix of all 209 PCBs run prior to each ICAL and each 12 hour shift RT of PCB209 must be > 55 min PCB 156 & 157 must coelute w/in 2 sec PCB34 & 23 and PCB187 & 182 must be resolved where ((x/y)*100%) < 40% x = ht. of valley and y = ht of shortest peak	J(+) if valley >40%	5A (ICAL) 5B (CCAL)
Initial Calibration	Minimum of five standards %RSD < 20% for native compounds %RSD < 35% for labeled compounds	J(+) natives if %RSD > 20%	5A
	Ion Abundance ratios within QC limits (Method 1668, Table 8) in CS1 std.	EcoChem PJ, see TM-05	
	S/N ratio > 10 for all native and labeled compounds in CS1 std.	If <10, elevate Det. Limit or R(-)	
Continuing Calibration	Every 12 hours: Concentrations must meet criteria specified in Method 1668, Table 6	J(+)/(UJ(-) natives if %D = 30% - 50% J(+)/R(-) natives if %D > 75%	5B
	Absolute RT of all Labelled Compounds and Window Defining Congeners must be +/- 15 sec of RT in ICAL RRT of all compounds must meet Table 2 of method.	EcoChem PJ, see ICAL section of TM-05	
	S/N ratio > 10	If <10, elevate Det. Limit or R(-)	
	Ion Abundance ratios must meet criteria specified in Method 1668, Table 8	EcoChem PJ, see TM-05	
Method Blank	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	7

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EcoChem Validation Guidelines for PCB Congener Analysis by HRMS (Based on EPA Reg. 10 SOP, Rev. 1, 12/1995 & EPA SW-846, Method 1668)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Rinse/Field Blank (if required)	One per matrix per batch No positive results	If sample result <5X action level, qualify U at reported value.	6
LCS / OPR	One per matrix per batch %R Values w/in limits specified in Method 1668, Table 6	J(+) if %R > UCL J(+)/UJ(-) if %R < LCL J(+)/R(-) using PJ if %R <<LCL (< 10%)	10
MS/MSD (if required)	Accuracy: %R values within laboratory limits	Qualify parent sample only unless other QC indicates systematic problems: J(+) if both %R > UCL J(+)/UJ(-) if both %R < LCL J(+)/R(-) if both %R < 10% PJ if only one %R outlier	8
	Precision: RPD < 20%	J(+) in parent sample if RPD > 20%	9
Duplicate (if required)	RPD <25%	J(+)/UJ(-) if outside limts	9
Labeled Compounds / Internal Standards	%R must meet limits specified in Method 1668, Table 6.	J(+)/UJ(-) if %R = 10% to LCL J(+) if %R > UCL J(+)/R(-) if %R < 10%	13
Quantitation/ Identification	Ions for analyte, IS, and rec. std. must max w/in 2 sec. S/N >2.5 Ion abundance (IA ratios) must meet limits stated in Table 8 of Method 1668 Relative retention times (RRT) must be w/in limits stated in Table 2 of Method 1668	If RT criteria not met, use PJ (see TM-05) J(+) if S/N criteria not met if unlabelled ion abundance not met, change to EMPC J(+) if labelled ion abundance not met.	21
Interferences	Lock masses must not deviate +/- 20%	Change result to EMPC	14
Field Duplicates	Use QAPP limits. If no QAPP: Solids: RPD <50% OR absolute diff. < 2X RL (for results < 5X RL) Aqueous: RPD <35% OR absolute diff. < 1X RL (for results < 5X RL)	Narrate and qualify if required by project (EcoChem PJ)	9
Two analyses for one sample	Report only one result per analyte	"DNR" results that should not be used to avoid reporting two results for one sample	11

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EcoChem Validation Guidelines for Metals Analysis by ICP (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration Tissues: Frozen	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, r > 0.995	J(+)/UJ(-) if r < 0.995 (multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±10% of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within ±10% of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B

Initial and Continuing Calibration Blank (ICB/CCB)	After each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		(Refer to TM-02 for additional information)
			7

Reporting Limit Standard	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Sb, Pb, Tl)	R(-)/J(+) < 2x RL if %R <50% (< 30% Sb, Pb, Tl) J(+) < 2x RL, UJ(-) if %R 50-69% (30-49% Sb, Pb,Tl) J(+) < 2x RL if %R 130-180% (150-200% Sb, Pb, Tl) R(+) < 2x RL if %R > 180% (200% Sb, Pb, Tl)	14
Interference Check Samples (ICSA/ICSAB)	ICSAB %R 80 - 120% for all spiked elements | ICSA | < MDL for all unspiked elements except: K, Na	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R >120% J(+)/UJ(-) if %R= 50 to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	

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EcoChem Validation Guidelines for Metals Analysis by ICP
(Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Matrix Spikes	One per matrix per batch 75-125% for samples less than 4x spike level	J(+) if %R > 125% J(+)/UJ(-) if %R < 75% J(+)/R(-) if %R < 30% or J(+)/UJ(-) if Post Spike %R 75-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, spike at twice the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples >RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL (2x RL for solids) qualify all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample conc. > 50x MDL	J(+)/UJ(-) if %D >10% qualify all samples in batch	16
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

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EcoChem Validation Guidelines for Metals Analysis by ICP-MS (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	180 days from date sampled Frozen tissues - HT extended to 2 years	J(+)/UJ(-) if holding time exceeded	1
Tune	Prior to ICAL monitoring compounds analyzed 5 times wih Std Dev. ≤ 5% mass calibration <0.1 amu from True Value Resolution < 0.9 AMU @ 10% peak height or <0.75 amu @ 5% peak height	Use Professional Judgment to evaluate tune J(+)/UJ(-) if tune criteria not met	5A
Initial Calibration	Blank + minimum 1 standard If more than 1 standard, r>0.995	J(+)/UJ(-) if r<0.995 (for multi point cal)	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±10% of true value	J(+)/UJ(-) if %R 75-89% J(+) if %R = 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run ±10% of true value	J(+)/UJ(-) if %R = 75-89% J(+) if %R 111-125% R(+) if %R > 125% R(+/-) if %R < 75%	5B

Initial and Continuing Calibration Blanks (ICB/CCB)	After each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Reporting Limit Standard (CRI)	2x RL analyzed beginning of run Not required for Al, Ba, Ca, Fe, Mg, Na, K %R = 70%-130% (50%-150% Co,Mn, Zn)	R(-),(+) < 2x RL if %R < 50% (< 30% Co,Mn, Zn) J(+) < 2x RL, UJ(-) if %R 50-69% (30%-49% Co,Mn, Zn) J(+) < 2x RL if %R 130%-180% (150%-200% Co,Mn, Zn) R(+) < 2x RL if %R > 180% (200% Co, Mn, Zn)	14
Interference Check Samples (ICSA/ICSAB)	Required by SW 6020, but not 200.8 ICSAB %R 80% - 120% for all spiked elements | ICSA | < IDL (MDL) for all unspiked elements	For samples with Al, Ca, Fe, or Mg > ICS levels R(+/-) if %R < 50% J(+) if %R >120% J(+)/UJ(-) if %R = 50% to 79% Use Professional Judgment for ICSA to determine if bias is present see TM-09 for additional details	17
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7

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EcoChem Validation Guidelines for Metals Analysis by ICP-MS
(Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Laboratory Control Sample (LCS)	One per matrix per batch Blank Spike: %R within 80%-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	10
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spike/ Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 75-125% for samples where results do not exceed 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R <75% J(+)/R(-) if %R<30% or J(+)/UJ(-) if Post Spike %R 75%-125% Qualify all samples in batch	8
Post-digestion Spike	If Matrix Spike is outside 75-125%, Spike parent sample at 2x the sample conc.	No qualifiers assigned based on this element	
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5 x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9
Serial Dilution	5x dilution one per matrix %D < 10% for original sample values > 50x MDL	J(+)/UJ(-) if %D >10% All samples in batch	16
Internal Standards	Every sample SW6020: 60%-125% of cal blank IS 200.8: 30%-120% of cal blank IS	J (+)/UJ (-) all analytes associated with IS outlier	19
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < AL in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5 x RL: Water: Diff < RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must fall within range	J values over range	20

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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Cooler Temperature and Preservation	Cooler temperature: 4°C ±2° Waters: Nitric Acid to pH < 2 For Dissolved Metals: 0.45um filter & preserve after filtration	EcoChem Professional Judgment - no qualification based on cooler temperature outliers J(+)/UJ(-) if pH preservation requirements are not met	1
Holding Time	28 days from date sampled Frozen tissues: HT extended to 6 months	J(+)/UJ(-) if holding time exceeded	1
Initial Calibration	Blank + 4 standards, one at RL r > 0.995	J(+)/UJ(-) if r<0.995	5A
Initial Calibration Verification (ICV)	Independent source analyzed immediately after calibration %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5A
Continuing Calibration Verification (CCV)	Every ten samples, immediately following ICV/ICB and at end of run %R within ±20% of true value	J(+)/UJ(-) if %R = 65%-79% J(+) if %R = 121-135% R(+/-) if %R < 65% R(+) if %R > 135%	5B

Initial and Continuing Calibration Blanks (ICB/CCB)	after each ICV and CCV
	every ten samples and end of run
	| blank | < IDL (MDL)
		Action level is 5x absolute value of blank conc.
		For (+) blanks, U(+) results < action level
		For (-) blanks, J(+)/UJ(-) results < action level
		refer to TM-02 for additional details
			7

Reporting Limit Standard (CRA)	conc at RL - analyzed beginning of run %R = 70-130%	R(-),(+)<2xRL if %R <50% J(+)<2x RL, UJ(-) if %R 50-69% J(+) <2x RL if %R 130-180% R(+)<2x RL if %R>180%	14
Method Blank	One per matrix per batch (batch not to exceed 20 samples) blank < MDL	Action level is 5x blank concentration U(+) results < action level	7
Laboratory Control Sample (LCS)	One per matrix per batch		10
	Blank Spike: %R within 80-120%	R(+/-) if %R < 50% J(+)/UJ(-) if %R = 50-79% J(+) if %R >120%	
	CRM: Result within manufacturer's certified acceptance range or project guidelines	J(+)/UJ(-) if < LCL, J(+) if > UCL	
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	One per matrix per batch 5% frequency 75-125% for samples less than 4x spike level	J(+) if %R>125% J(+)/UJ(-) if %R <75% J(+)/R(-) if %R<30% all samples in batch	8
Laboratory Duplicate (or MS/MSD)	One per matrix per batch RPD < 20% for samples > 5x RL Diff < RL for samples > RL and < 5x RL (Diff < 2x RL for solids)	J(+)/UJ(-) if RPD > 20% or diff > RL all samples in batch	9

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EcoChem Validation Guidelines for Mercury Analysis by CVAA (Based on Inorganic NFG 1994 & 2004)

VALIDATION QC ELEMENT	ACCEPTANCE CRITERIA	ACTION	REASON CODE
Field Blank	Blank < MDL	Action level is 5x blank conc. U(+) sample values < action level in associated field samples only	6
Field Duplicate	For results > 5x RL: Water: RPD < 35% Solid: RPD < 50% For results < 5x RL: Water: Diff<RL Solid: Diff < 2x RL	J(+)/UJ(-) in parent samples only	9
Linear Range	Sample concentrations must be less than 110% of high standard	J values over range	20

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EcoChem, INC.
Environmental Data Quality

APPENDIX B
QUALIFIED DATA SUMMARY TABLE

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1010961	CL-TTR3-001	K1010961-001	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.335	ng/kg	JK	U	22
K1010961	CL-TTR3-001	K1010961-001	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.319	ng/kg	JK	U	22
K1010961	CL-TTR3-001	K1010961-001	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.637	ng/kg	JK	U	22
K1010961	CL-TTR3-001	K1010961-001	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.634	ng/kg	JK	U	22
K1010961	CL-TTR3-002	K1010961-002	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.541	ng/kg	JK	U	22
K1010961	CL-TTR3-002	K1010961-002	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.781	ng/kg	JK	U	22
K1010961	CL-TTR3-003	K1010961-003	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.368	ng/kg	JK	U	22
K1010961	CL-TTR3-003	K1010961-003	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.383	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.39	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.124	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.557	ng/kg	JK	U	22
K1010961	CL-TTR4-001	K1010961-005	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.512	ng/kg	JK	U	22
K1010961	CL-TTR4-001	K1010961-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.86	ng/kg	K	U	22
K1010961	CL-TTR4-002	K1010961-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	10.2	ng/kg		J	10
K1010961	CL-TTR4-002	K1010961-006	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.269	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.48	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1613B	Octachlorodibenzo-p-furan	0.252	ng/kg	JK	U	22
K1010961	CL-TTR4-004	K1010961-008	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.951	ng/kg	JK	U	22
K1011127	BBSH-901	K1011127-001	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.138	ng/kg	U	UJ	13
K1011127	BBSH-901	K1011127-001	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.178	ng/kg	U	UJ	13
K1011127	BBSH-901	K1011127-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.145	ng/kg	U	UJ	13
K1011127	BBSH-901	K1011127-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	2.17	ng/kg		J	13
K1011127	BBMU-903	K1011127-003	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.132	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1613B	Octachlorodibenzo-p-dioxin	1.34	ng/kg	BJK	U	22
K1011127	Bait	K1011127-005	EPA1613B	Octachlorodibenzo-p-dioxin	3.49	pg/L	BJ	U	7
K1011128	CL-TTR1-001	K1011128-001	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.682	ng/kg	JK	U	22
K1011128	CL-TTR1-002	K1011128-002	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.128	ng/kg	JK	U	22
K1011128	CL-TTR1-002	K1011128-002	EPA1613B	Octachlorodibenzo-p-furan	0.202	ng/kg	JK	U	22
K1011128	CL-TTR1-003	K1011128-003	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.416	ng/kg	JK	U	22
K1011128	CL-TTR1-003	K1011128-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.695	ng/kg	JK	U	22
K1011128	CL-TTR1-004	K1011128-004	EPA1613B	Octachlorodibenzo-p-furan	0.213	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	5.42	ng/kg	K	U	22
K1011128	CL-TTR3-005	K1011128-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.197	ng/kg	JK	U	22
K1011128	CL-TTR3-005	K1011128-006	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.139	ng/kg	JK	U	22
K1011128	CL-TTR5-002	K1011128-009	EPA1613B	Octachlorodibenzo-p-dioxin	2.01	ng/kg	BJK	U	22
K1011128	CL-TTR5-005	K1011128-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.461	ng/kg	JK	U	22
K1011128	CL-TTR5-005	K1011128-012	EPA1613B	Octachlorodibenzo-p-dioxin	4.01	ng/kg	BJK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011128	CL-TTR6-001	K1011128-013	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.296	ng/kg	JK	U	22
K1011128	CL-TTR6-001	K1011128-013	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.286	ng/kg	JK	U	22
K1011128	CL-TTR6-002	K1011128-014	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.246	ng/kg	JK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.525	ng/kg	JK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.263	ng/kg	JK	U	22
K1011248	CL-TTR7-002	K1011248-002	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.598	ng/kg	JK	U	22
K1011248	CL-TTR7-002	K1011248-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.487	ng/kg	JK	U	22
K1011248	CL-TTR7-004	K1011248-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.522	ng/kg	JK	U	22
K1011248	CL-TTR7-005	K1011248-005	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.461	ng/kg	JK	U	22
K1011248	CL-TTR7-005	K1011248-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.35	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.367	ng/kg	JK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.293	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.586	ng/kg	JK	U	22
K1011254	FFFW-904	K1011254-001	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.953	pg	BJK	U	22
K1011254	FFFW-904	K1011254-001	EPA1613B	Octachlorodibenzo-p-dioxin	5.58	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.51	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1613B	Octachlorodibenzo-p-dioxin	8.37	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1613B	Octachlorodibenzo-p-dioxin	4.12	pg	BJK	U	22
K1011379	FFFW-907	K1011379-002	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.569	pg	BJK	U	22
K1011379	FFFW-907	K1011379-002	EPA1613B	Octachlorodibenzo-p-dioxin	4.36	pg	BJK	U	22
K1011379	FFFW-908	K1011379-003	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	1.52	pg	J	J	10
K1011383	GK-TTR6-1	K1011383-001	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.414	ng/kg	JK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.452	ng/kg	JK	U	22
K1011383	GK-TTR7-1	K1011383-003	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.337	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.24	ng/kg	JK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.244	ng/kg	JK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0621	ng/kg	J	J	10
K1011383	GK-TTR7-4	K1011383-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.164	ng/kg	JK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1613B	Octachlorodibenzo-p-dioxin	2.94	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0693	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1613B	Octachlorodibenzo-p-dioxin	0.944	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1613B	Octachlorodibenzo-p-dioxin	2.48	ng/kg	BJK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0975	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0537	ng/kg	JK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1613B	Octachlorodibenzo-p-dioxin	0.921	ng/kg	BJ	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0864	ng/kg	JK	U	22
K1011383	GK-TTR2-1	K1011383-011	EPA1613B	Octachlorodibenzo-p-dioxin	0.441	ng/kg	BJ	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR2-2	K1011383-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0718	ng/kg	JK	U	22
K1011383	GK-TTR2-2	K1011383-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.218	ng/kg	JK	U	22
K1011383	GK-TTR2-2	K1011383-012	EPA1613B	Octachlorodibenzo-p-dioxin	0.34	ng/kg	BJK	U	22
K1011383	GK-TTR3-1	K1011383-016	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.083	ng/kg	JK	U	22
K1011383	GK-TTR3-2	K1011383-017	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.0771	ng/kg	JK	U	22
K1011383	GK-TTR3-2	K1011383-017	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.48	ng/kg	JK	U	22
K1011383	GK-TTR3-2	K1011383-017	EPA1613B	Octachlorodibenzo-p-dioxin	1.14	ng/kg	BJ	U	7
K1011383	GK-TTR4-1	K1011383-018	EPA1613B	Octachlorodibenzo-p-dioxin	0.664	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0663	ng/kg	JK	U	22
K1011383	GK-TTR4-2	K1011383-019	EPA1613B	Octachlorodibenzo-p-dioxin	0.598	ng/kg	BJ	U	7
K1011383	GK-TTR5-1	K1011383-020	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.168	ng/kg	JK	U	22
K1011383	GK-TTR5-1	K1011383-020	EPA1613B	Octachlorodibenzo-p-dioxin	1.06	ng/kg	BJ	U	7
K1011383	GK-TTR5-2	K1011383-021	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.401	ng/kg	JK	U	22
K1011383	GK-TTR5-2	K1011383-021	EPA1613B	Octachlorodibenzo-p-dioxin	0.502	ng/kg	BJ	U	7
K1012518	SJFCA2-LF1	K1012518-004	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.403	ng/kg	BJ	U	6
K1012518	SJFCA2-LF1	K1012518-004	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.302	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.11	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.126	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.168	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1613B	Octachlorodibenzo-p-dioxin	0.762	ng/kg	BJK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.828	ng/kg	BJ	U	6
K1012518	SJFCA2-LF2	K1012518-012	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.109	ng/kg	JK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1613B	Octachlorodibenzo-p-dioxin	1.84	ng/kg	BJ	U	6
K1012518	SJFCA2-LF3	K1012518-016	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.264	ng/kg	BJ	U	7
K1012518	SJFCA2-LF3	K1012518-016	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0903	ng/kg	JK	U	22
K1012518	SJFCA2-LF3	K1012518-016	EPA1613B	Octachlorodibenzo-p-dioxin	0.711	ng/kg	BJ	U	7
K1012518	SJFCA2-LF4	K1012518-020	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.374	ng/kg	BJ	U	7
K1012518	SJFCA2-LF4	K1012518-020	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.154	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1613B	Octachlorodibenzo-p-dioxin	1.39	ng/kg	BJ	U	6
K1012518	SJFCA2-LF4	K1012518-020	EPA1613B	Octachlorodibenzo-p-furan	0.12	ng/kg	JK	U	22
K1012518	SJFCA2-LF4-R	K1012518-024	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.135	ng/kg	JK	U	22
K1012518	SJFCA2-LF5	K1012518-028	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.464	ng/kg	BJK	U	22
K1012518	SJFCA2-LF5	K1012518-028	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.247	ng/kg	JK	U	22
K1012518	SJFCA2-LF5	K1012518-028	EPA1613B	Octachlorodibenzo-p-dioxin	1.04	ng/kg	BJ	U	7
K1012518	SJFCA2-LF6	K1012518-032	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.43	ng/kg	BJ	U	6
K1012518	SJFCA2-LF6	K1012518-032	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0592	ng/kg	JK	U	22
K1012518	SJFCA2-LF6	K1012518-032	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.138	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012518	SJFCA2-LF6	K1012518-032	EPA1613B	Octachlorodibenzo-p-dioxin	1.13	ng/kg	BJ	U	7
K1012518	SJFCA2-LF7	K1012518-036	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.256	ng/kg	BJK	U	22
K1012518	SJFCA2-LF7	K1012518-036	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.128	ng/kg	JK	U	22
K1012518	SJFCA2-LF7	K1012518-036	EPA1613B	Octachlorodibenzo-p-dioxin	0.715	ng/kg	BJ	U	7
K1012518	SJFCA2-LF8	K1012518-040	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.598	ng/kg	BJ	U	6
K1012518	SJFCA2-LF8	K1012518-040	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.245	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.121	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.905	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1613B	Octachlorodibenzo-p-dioxin	1.15	ng/kg	BJ	U	7
K1012518	SJFCA2-LF8-R	K1012518-044	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0568	ng/kg	JK	U	22
K1012518	SJFCA2-LF8-R	K1012518-044	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1.5	ng/kg	JK	U	22
K1012518	SJFCA2-LF8-R	K1012518-044	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0459	ng/kg	JK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.863	ng/kg	BJK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.207	ng/kg	JK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.337	ng/kg	JK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1613B	Octachlorodibenzo-p-dioxin	1.76	ng/kg	BJ	U	6
K1012518	SJFCA2-LF10	K1012518-052	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.294	ng/kg	BJK	U	22
K1012518	SJFCA2-LF10	K1012518-052	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.122	ng/kg	JK	U	22
K1012518	SJFCA2-LF10	K1012518-052	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.196	ng/kg	JK	U	22
K1012518	SJFCA2-LF10	K1012518-052	EPA1613B	Octachlorodibenzo-p-dioxin	0.654	ng/kg	BJK	U	22
K1012518	SJFCA2-LF10-R	K1012518-056	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.87	ng/kg	JK	U	22
K1012518	SJFCA2-LF10-R	K1012518-056	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.143	ng/kg	JK	U	22
K1012518	Catfish	K1012518-057	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.99	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1613B	Octachlorodibenzo-p-dioxin	4.38	pg/L	BJK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.287	ng/kg	BJ	U	7
K1012523	SJFCA3-LF1	K1012523-004	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.132	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.105	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.282	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1613B	Octachlorodibenzo-p-dioxin	0.883	ng/kg	BJ	U	7
K1012523	SJFCA3-LF1-R	K1012523-008	EPA1613B	Octachlorodibenzo-p-furan	0.0717	ng/kg	JK	U	22
K1012523	SJFCA3-LF2	K1012523-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.443	ng/kg	BJ	U	6
K1012523	SJFCA3-LF2	K1012523-012	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.268	ng/kg	JK	U	22
K1012523	SJFCA3-LF2	K1012523-012	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0822	ng/kg	JK	U	22
K1012523	SJFCA3-LF2	K1012523-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.106	ng/kg	JK	U	22
K1012523	SJFCA3-LF2	K1012523-012	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.156	ng/kg	JK	U	22
K1012523	SJFCA3-LF2	K1012523-012	EPA1613B	Octachlorodibenzo-p-dioxin	1.28	ng/kg	BJ	U	7
K1012523	SJFCA3-LF3	K1012523-016	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.334	ng/kg	BJK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012523	SJFCA3-LF3	K1012523-016	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0954	ng/kg	JK	U	22
K1012523	SJFCA3-LF3	K1012523-016	EPA1613B	Octachlorodibenzo-p-dioxin	0.867	ng/kg	BJ	U	7
K1012523	SJFCA3-LF4	K1012523-020	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.495	ng/kg	BJK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.234	ng/kg	JK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.103	ng/kg	JK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.202	ng/kg	JK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1613B	Octachlorodibenzo-p-dioxin	1.4	ng/kg	BJ	U	6
K1012523	SJFCA3-LF5	K1012523-024	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.275	ng/kg	BJ	U	7
K1012523	SJFCA3-LF5	K1012523-024	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0393	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0985	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.107	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1613B	Octachlorodibenzo-p-dioxin	0.711	ng/kg	BJ	U	7
K1012523	SJFCA3-LF6	K1012523-028	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.15	ng/kg	BJK	U	22
K1012523	SJFCA3-LF6	K1012523-028	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0458	ng/kg	JK	U	22
K1012523	SJFCA3-LF6	K1012523-028	EPA1613B	Octachlorodibenzo-p-dioxin	5.62	ng/kg	BJ	U	6
K1012523	SJFCA3-LF6	K1012523-028	EPA1613B	Octachlorodibenzo-p-furan	0.54	ng/kg	J	U	6
K1012523	SJFCA3-LF6-R	K1012523-032	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.271	ng/kg	JK	U	22
K1012523	SJFCA3-LF6-R	K1012523-032	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.147	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.856	ng/kg	BJK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0755	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.316	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1613B	Octachlorodibenzo-p-dioxin	2	ng/kg	BJ	U	6
K1012523	SJFCA3-LF8	K1012523-040	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.492	ng/kg	BJ	U	6
K1012523	SJFCA3-LF8	K1012523-040	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.288	ng/kg	JK	U	22
K1012523	SJFCA3-LF8	K1012523-040	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0929	ng/kg	JK	U	22
K1012523	SJFCA3-LF8	K1012523-040	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0794	ng/kg	JK	U	22
K1012523	SJFCA3-LF8	K1012523-040	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.131	ng/kg	JK	U	22
K1012523	SJFCA3-LF8	K1012523-040	EPA1613B	Octachlorodibenzo-p-dioxin	0.705	ng/kg	BJ	U	7
K1012523	SJFCA3-LF9	K1012523-044	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0373	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.453	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1613B	Octachlorodibenzo-p-dioxin	3.1	ng/kg	BJ	U	6
K1012523	SJFCA3-LF10	K1012523-048	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.291	ng/kg	JK	U	22
K1012523	SJFCA3-LF10	K1012523-048	EPA1613B	Octachlorodibenzo-p-dioxin	3.76	ng/kg	BJ	U	6
K1012523	SJFCA3-LF10-R	K1012523-052	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.409	ng/kg	JK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1.29	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1613B	Octachlorodibenzo-p-dioxin	6.38	pg/L	BJ	U	7
K1012526	SJFCA1-LF1	K1012526-004	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.172	ng/kg	BJK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012526	SJFCA1-LF1	K1012526-004	EPA1613B	Octachlorodibenzo-p-dioxin	0.624	ng/kg	BJ	U	7
K1012526	SJFCA1-LF1-R	K1012526-008	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0404	ng/kg	JK	U	22
K1012526	SJFCA1-LF1-R	K1012526-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1	ng/kg	JK	U	22
K1012526	SJFCA1-LF1-R	K1012526-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.156	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.306	ng/kg	BJ	U	7
K1012526	SJFCA1-LF2	K1012526-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.318	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1613B	Octachlorodibenzo-p-dioxin	0.874	ng/kg	BJ	U	7
K1012526	SJFCA1-LF3	K1012526-016	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.139	ng/kg	BJK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1613B	Octachlorodibenzo-p-dioxin	0.441	ng/kg	BJK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.237	ng/kg	BJK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.116	ng/kg	JK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1613B	Octachlorodibenzo-p-dioxin	0.549	ng/kg	BJK	U	22
K1012526	SJFCA1-LF5	K1012526-024	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.478	ng/kg	BJ	U	6
K1012526	SJFCA1-LF5	K1012526-024	EPA1613B	Octachlorodibenzo-p-dioxin	0.978	ng/kg	BJ	U	7
K1012526	SJFCA1-LF6	K1012526-028	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.239	ng/kg	JK	U	22
K1012526	SJFCA1-LF6	K1012526-028	EPA1613B	Octachlorodibenzo-p-dioxin	1.57	ng/kg	BJ	U	6
K1012526	SJFCA1-LF6-R	K1012526-032	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1.3	ng/kg	JK	U	22
K1012526	SJFCA1-LF6-R	K1012526-032	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0679	ng/kg	JK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.204	ng/kg	BJK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0848	ng/kg	JK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1613B	Octachlorodibenzo-p-dioxin	0.463	ng/kg	BJK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1613B	Octachlorodibenzo-p-furan	0.223	ng/kg	JK	U	22
K1012526	SJFCA1-LF8	K1012526-040	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.36	ng/kg	BJ	U	6
K1012526	SJFCA1-LF8	K1012526-040	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.202	ng/kg	JK	U	22
K1012526	SJFCA1-LF8	K1012526-040	EPA1613B	Octachlorodibenzo-p-dioxin	1.14	ng/kg	BJ	U	7
K1012526	SJFCA1-LF8	K1012526-040	EPA1613B	Octachlorodibenzo-p-furan	0.146	ng/kg	J	U	6
K1012526	SJFCA1-LF9	K1012526-044	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.41	ng/kg	BJ	U	6
K1012526	SJFCA1-LF9	K1012526-044	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0764	ng/kg	JK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1613B	Octachlorodibenzo-p-dioxin	1.14	ng/kg	BJ	U	7
K1012526	SJFCA1-LF9	K1012526-044	EPA1613B	Octachlorodibenzo-p-furan	0.0662	ng/kg	JK	U	22
K1012526	SJFCA1-LF10	K1012526-048	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.448	ng/kg	BJ	U	6
K1012526	SJFCA1-LF10	K1012526-048	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0929	ng/kg	JK	U	22
K1012526	SJFCA1-LF10	K1012526-048	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.229	ng/kg	JK	U	22
K1012526	SJFCA1-LF10	K1012526-048	EPA1613B	Octachlorodibenzo-p-dioxin	0.947	ng/kg	BJ	U	7
K1012526	SJFCA1-LF10-R	K1012526-052	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.0731	ng/kg	JK	U	22
K1012526	SJFCA1-LF10-R	K1012526-052	EPA1613B	Octachlorodibenzo-p-furan	0.0899	ng/kg	JK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.583	pg/L	BJ	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012526	Catfish-K1012526	K1012526-053	EPA1613B	Octachlorodibenzo-p-dioxin	2.01	pg/L	BJ	U	7
K1012530	SJFCACB-LF1	K1012530-004	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.465	ng/kg	J	U	6
K1012530	SJFCACB-LF1	K1012530-004	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.234	ng/kg	JK	U	22
K1012530	SJFCACB-LF1	K1012530-004	EPA1613B	Octachlorodibenzo-p-dioxin	1.13	ng/kg	BJ	U	6
K1012530	SJFCACB-LF1-R	K1012530-008	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.111	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.546	ng/kg	J	U	6
K1012530	SJFCACB-LF2	K1012530-012	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.219	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.35	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1613B	Octachlorodibenzo-p-dioxin	1.51	ng/kg	BJ	U	6
K1012530	SJFCACB-LF2-R	K1012530-016	EPA1613B	Octachlorodibenzo-p-furan	0.107	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.563	ng/kg	J	U	6
K1012530	SJFCACB-LF3	K1012530-020	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.164	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.483	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1613B	Octachlorodibenzo-p-dioxin	1.43	ng/kg	BJK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.317	ng/kg	J	U	6
K1012530	SJFCACB-LF4	K1012530-024	EPA1613B	Octachlorodibenzo-p-dioxin	0.846	ng/kg	BJ	U	6
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.122	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.164	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.391	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.288	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.267	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1613B	Octachlorodibenzo-p-dioxin	0.794	ng/kg	BJ	U	6
K1012530	SJFCACB-LF5-R	K1012530-036	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.214	ng/kg	JK	U	22
K1012530	SJFCACB-LF5-R	K1012530-036	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.213	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.412	ng/kg	J	U	6
K1012530	SJFCACB-LF6	K1012530-040	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.105	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1613B	Octachlorodibenzo-p-dioxin	1.16	ng/kg	BJ	U	6
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0912	ng/kg	JK	U	22
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.118	ng/kg	JK	U	22
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.302	ng/kg	JK	U	22
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.518	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.421	ng/kg	J	U	6
K1012530	SJFCACB-LF7	K1012530-048	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.109	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.275	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1613B	Octachlorodibenzo-p-dioxin	1.23	ng/kg	BJK	U	22
K1012530	SJFCACB-LF8	K1012530-052	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.383	ng/kg	J	U	6
K1012530	SJFCACB-LF8	K1012530-052	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.2	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012530	SJFCACB-LF8	K1012530-052	EPA1613B	Octachlorodibenzo-p-dioxin	0.89	ng/kg	BJ	U	6
K1012530	SJFCACB-LF8-R	K1012530-056	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0666	ng/kg	JK	U	22
K1012530	SJFCACB-LF8-R	K1012530-056	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.0871	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.238	ng/kg	J	U	6
K1012530	SJFCACB-LF9	K1012530-060	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0486	ng/kg	J	U	6
K1012530	SJFCACB-LF9	K1012530-060	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0402	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.142	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0465	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.0322	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.193	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1613B	Octachlorodibenzo-p-dioxin	0.704	ng/kg	BJ	U	6
K1012530	SJFCACB-LF9	K1012530-060	EPA1613B	Octachlorodibenzo-p-furan	0.0814	ng/kg	JK	U	22
K1012530	SJFCACB-LF9-R	K1012530-064	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0369	ng/kg	JK	U	22
K1012530	SJFCACB-LF9-R	K1012530-064	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.0728	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.179	ng/kg	J	U	6
K1012530	SJFCACB-LF10	K1012530-068	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.1	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.213	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1613B	Octachlorodibenzo-p-dioxin	0.403	ng/kg	BJ	U	6
K1012530	SJFCACB-LF10-R	K1012530-072	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.455	ng/kg	JK	U	22
K1012530	SJFCACB-LF10-R	K1012530-072	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.0761	ng/kg	JK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.65	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1613B	Octachlorodibenzo-p-dioxin	2.09	pg/L	BJK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.295	ng/kg	BJ	U	7
K1012535	SJFCACB-CR3	K1012535-024	EPA1613B	Octachlorodibenzo-p-dioxin	0.244	ng/kg	BJK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1613B	Octachlorodibenzo-p-dioxin	0.29	ng/kg	BJK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1613B	Octachlorodibenzo-p-dioxin	0.348	ng/kg	BJK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.346	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.188	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1613B	Octachlorodibenzo-p-dioxin	0.188	ng/kg	BJK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1613B	Octachlorodibenzo-p-dioxin	0.139	ng/kg	BJK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1613B	Octachlorodibenzo-p-dioxin	0.291	ng/kg	BJK	U	22
K1012535	Crab-K1012535	K1012535-080	EPA1613B	Octachlorodibenzo-p-dioxin	4.44	pg/L	BJK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.168	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1613B	Octachlorodibenzo-p-dioxin	0.326	ng/kg	BJK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.613	ng/kg	JK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.272	ng/kg	JK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1613B	Octachlorodibenzo-p-furan	0.323	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012540	SJFCA2-CR2	K1012540-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.298	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.37	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1613B	Octachlorodibenzo-p-dioxin	0.175	ng/kg	BJK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1613B	Octachlorodibenzo-p-dioxin	0.134	ng/kg	BJK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.253	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.373	ng/kg	BJ	U	7
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0573	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.14	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.176	ng/kg	JKP	UJ	14,22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1613B	Octachlorodibenzo-p-furan	0.145	ng/kg	BJK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1613B	Octachlorodibenzo-p-dioxin	0.219	ng/kg	BJK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.125	ng/kg	BJK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.151	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1613B	Octachlorodibenzo-p-furan	0.0831	ng/kg	BJK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0544	ng/kg	BJK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1613B	Octachlorodibenzo-p-dioxin	0.276	ng/kg	BJK	U	22
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.16	ng/kg	BJ	U	7
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1613B	2,3,4,7,8-Pentachlorodibenzo-p-furan	0.104	ng/kg	JK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.553	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1613B	Octachlorodibenzo-p-furan	0.788	pg/L	BJK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.371	ng/kg	JK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1613B	Octachlorodibenzo-p-dioxin	0.154	ng/kg	BJK	U	22
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.281	ng/kg	BJK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1613B	Octachlorodibenzo-p-dioxin	0.296	ng/kg	BJ	U	7
K1012541	SJFCA3-CR3	K1012541-023	EPA1613B	Octachlorodibenzo-p-dioxin	0.235	ng/kg	BJ	U	7
K1012541	SJFCA3-CR4	K1012541-028	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.148	ng/kg	JK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1613B	Octachlorodibenzo-p-dioxin	0.34	ng/kg	BJ	U	7
K1012541	SJFCA3-CR5	K1012541-034	EPA1613B	Octachlorodibenzo-p-dioxin	0.136	ng/kg	BJK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1613B	Octachlorodibenzo-p-dioxin	0.167	ng/kg	BJK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.249	ng/kg	BJK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0983	ng/kg	JK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.68	ng/kg	K	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.276	ng/kg	JK	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1613B	Octachlorodibenzo-p-dioxin	0.189	ng/kg	BJK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1613B	Octachlorodibenzo-p-dioxin	0.199	ng/kg	BJ	U	7
K1012541	SJFCA3-CR9	K1012541-061	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.259	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1613B	Octachlorodibenzo-p-dioxin	0.128	ng/kg	BJK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012541	SJFCA3-CR10	K1012541-067	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.154	ng/kg	JK	U	22
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1613B	Octachlorodibenzo-p-dioxin	3.23	ng/kg	BJK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1613B	Octachlorodibenzo-p-dioxin	3.57	pg/L	BJ	U	7
K1012545	SJFCA1-CR1	K1012545-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.294	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-furan	0.755	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1613B	Octachlorodibenzo-p-dioxin	0.74	ng/kg	BJ	U	7
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.141	ng/kg	BJK	U	22
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1613B	Octachlorodibenzo-p-furan	0.221	ng/kg	JK	U	22
K1012545	SJFCA1-CR2	K1012545-018	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.195	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.174	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1613B	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	0.167	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	0.15	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.232	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1613B	Octachlorodibenzo-p-dioxin	0.388	ng/kg	BJK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0434	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1613B	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	0.0445	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1613B	Octachlorodibenzo-p-dioxin	0.615	ng/kg	BJK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0662	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.243	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1613B	Octachlorodibenzo-p-dioxin	0.345	ng/kg	BJK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1613B	Octachlorodibenzo-p-furan	0.167	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	0.0883	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.104	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.079	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1613B	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.119	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.155	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1613B	1,2,3,7,8-Pentachlorodibenzo-p-furan	0.245	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1613B	Octachlorodibenzo-p-dioxin	5.44	ng/kg	BJK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1613B	Octachlorodibenzo-p-furan	0.314	ng/kg	JK	U	22
K1012545	SJFCA1-CR7	K1012545-054	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0793	ng/kg	JK	U	22
K1012545	SJFCA1-CR7	K1012545-054	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	0.0391	ng/kg	JK	U	22
K1012545	SJFCA1-CR7	K1012545-054	EPA1613B	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.457	ng/kg	JK	U	22
K1012545	SJFCA1-CR8	K1012545-060	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.094	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1613B	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.135	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1613B	Octachlorodibenzo-p-dioxin	0.429	ng/kg	BJK	U	22
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1613B	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	0.0624	ng/kg	JK	U	22
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1613B	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.111	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1613B	Octachlorodibenzo-p-furan	0.235	ng/kg	JK	U	22
K1012545	Crab-K1012545	K1012545-079	EPA1613B	Octachlorodibenzo-p-dioxin	20.6	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1613B	Octachlorodibenzo-p-furan	0.505	pg/L	JK	U	22
K1010961	CL-TTR3-001	K1010961-001	ICP_MS	Arsenic	0.656	mg/kg		J	16
K1010961	CL-TTR3-002	K1010961-002	ICP_MS	Arsenic	0.485	mg/kg		J	16
K1010961	CL-TTR3-003	K1010961-003	ICP_MS	Arsenic	0.446	mg/kg		J	16
K1010961	CL-TTR3-004	K1010961-004	ICP_MS	Arsenic	0.495	mg/kg		J	16
K1010961	CL-TTR4-001	K1010961-005	ICP_MS	Arsenic	0.6	mg/kg		J	16
K1010961	CL-TTR4-001	K1010961-005	ICP-AES	Vanadium	0.05	mg/kg		J	7
K1010961	CL-TTR4-002	K1010961-006	ICP_MS	Arsenic	0.533	mg/kg		J	16
K1010961	CL-TTR4-003	K1010961-007	ICP_MS	Arsenic	0.406	mg/kg		J	16
K1010961	CL-TTR4-003	K1010961-007	SW7471A	Mercury	0.0088	mg/kg		J	7
K1010961	CL-TTR4-004	K1010961-008	ICP_MS	Arsenic	0.594	mg/kg		J	16
K1010961	CL-TTR4-004	K1010961-008	SW7471A	Mercury	0.0091	mg/kg		J	7
K1010961	CL-TTR4-004	K1010961-008	ICP-AES	Vanadium	0.05	mg/kg		J	7
K1011127	BBSH-901	K1011127-001	ICP_MS	Copper	0.758	mg/kg		J	16
K1011127	BBSH-901	K1011127-001	ICP_MS	Manganese	16.9	mg/kg	N	J	8
K1011127	BBCK-902	K1011127-002	ICP_MS	Copper	0.373	mg/kg		J	16
K1011127	BBCK-902	K1011127-002	ICP_MS	Manganese	0.341	mg/kg	N	J	8
K1011127	BBMU-903	K1011127-003	ICP_MS	Copper	2.08	mg/kg		J	16
K1011127	BBMU-903	K1011127-003	ICP_MS	Manganese	43.3	mg/kg	N	J	8
K1011127	BBMA-909	K1011127-004	ICP_MS	Copper	0.675	mg/kg		J	16
K1011127	BBMA-909	K1011127-004	ICP_MS	Manganese	14.7	mg/kg	N	J	8
K1011127	Bait	K1011127-005	ICP-AES_CLAA	Aluminum	1.8	ug/L	J	U	7
K1011127	Bait	K1011127-005	ICP-AES_CLAA	Chromium	0.6	ug/L	U	UJ	7
K1011127	Bait	K1011127-005	ICPMS_CLFAA	Lead	0.011	ug/L	J	U	7
K1011127	Bait	K1011127-005	ICP-AES_CLAA	Magnesium	2.2	ug/L		U	7
K1011127	Bait	K1011127-005	ICPMS_CLFAA	Manganese	0.08	ug/L		U	7
K1011128	CL-TTR1-001	K1011128-001	ICP_MS	Arsenic	0.451	mg/kg		J	16
K1011128	CL-TTR1-001	K1011128-001	ICP_MS	Lead	0.0255	mg/kg		J	16
K1011128	CL-TTR1-002	K1011128-002	ICP_MS	Arsenic	0.522	mg/kg		J	16
K1011128	CL-TTR1-002	K1011128-002	ICP_MS	Lead	0.0281	mg/kg		J	16
K1011128	CL-TTR1-003	K1011128-003	ICP_MS	Arsenic	0.454	mg/kg		J	16
K1011128	CL-TTR1-003	K1011128-003	ICP_MS	Lead	0.0277	mg/kg		J	16
K1011128	CL-TTR1-004	K1011128-004	ICP_MS	Arsenic	0.419	mg/kg		J	16
K1011128	CL-TTR1-004	K1011128-004	ICP_MS	Lead	0.0296	mg/kg		J	16
K1011128	CL-TTR1-005	K1011128-005	ICP_MS	Arsenic	0.428	mg/kg		J	16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011128	CL-TTR1-005	K1011128-005	ICP_MS	Lead	0.0212	mg/kg		J	16
K1011128	CL-TTR3-005	K1011128-006	ICP_MS	Arsenic	0.414	mg/kg		J	16
K1011128	CL-TTR3-005	K1011128-006	ICP_MS	Lead	0.0608	mg/kg		J	16
K1011128	CL-TTR4-005	K1011128-007	ICP_MS	Arsenic	0.547	mg/kg		J	16
K1011128	CL-TTR4-005	K1011128-007	ICP_MS	Lead	0.0231	mg/kg		J	16
K1011128	CL-TTR5-001	K1011128-008	ICP_MS	Arsenic	0.548	mg/kg		J	16
K1011128	CL-TTR5-001	K1011128-008	ICP_MS	Lead	0.0153	mg/kg		J	16
K1011128	CL-TTR5-002	K1011128-009	ICP_MS	Arsenic	0.544	mg/kg		J	16
K1011128	CL-TTR5-002	K1011128-009	ICP_MS	Lead	0.0219	mg/kg		J	16
K1011128	CL-TTR5-003	K1011128-010	ICP_MS	Arsenic	0.609	mg/kg		J	16
K1011128	CL-TTR5-003	K1011128-010	ICP_MS	Lead	0.0159	mg/kg		J	16
K1011128	CL-TTR5-004	K1011128-011	ICP_MS	Arsenic	0.741	mg/kg		J	16
K1011128	CL-TTR5-004	K1011128-011	ICP_MS	Lead	0.0172	mg/kg		J	16
K1011128	CL-TTR5-005	K1011128-012	ICP_MS	Arsenic	0.541	mg/kg		J	16
K1011128	CL-TTR5-005	K1011128-012	ICP_MS	Lead	0.0149	mg/kg		J	16
K1011128	CL-TTR6-001	K1011128-013	ICP_MS	Arsenic	0.487	mg/kg		J	16
K1011128	CL-TTR6-001	K1011128-013	ICP_MS	Lead	0.0161	mg/kg		J	16
K1011128	CL-TTR6-002	K1011128-014	ICP_MS	Arsenic	0.506	mg/kg		J	16
K1011128	CL-TTR6-002	K1011128-014	ICP_MS	Lead	0.0264	mg/kg		J	16
K1011128	CL-TTR6-003	K1011128-015	ICP_MS	Arsenic	0.604	mg/kg		J	16
K1011128	CL-TTR6-003	K1011128-015	ICP_MS	Lead	0.0144	mg/kg		J	16
K1011128	CL-TTR6-004	K1011128-016	ICP_MS	Arsenic	0.501	mg/kg		J	16
K1011128	CL-TTR6-004	K1011128-016	ICP_MS	Lead	0.0141	mg/kg		J	16
K1011128	CL-TTR6-005	K1011128-017	ICP_MS	Arsenic	0.537	mg/kg		J	16
K1011128	CL-TTR6-005	K1011128-017	ICP_MS	Lead	0.0166	mg/kg		J	16
K1011248	CL-TTR7-001	K1011248-001	ICP_MS	Arsenic	0.389	mg/kg		J	16
K1011248	CL-TTR7-001	K1011248-001	ICP_MS	Barium	0.979	mg/kg		J	16
K1011248	CL-TTR7-001	K1011248-001	ICP_MS	Cobalt	0.118	mg/kg		J	16
K1011248	CL-TTR7-001	K1011248-001	ICP_MS	Copper	1.03	mg/kg		J	16
K1011248	CL-TTR7-001	K1011248-001	ICP_MS	Manganese	0.331	mg/kg		J	16
K1011248	CL-TTR7-001	K1011248-001	SW7471A	Mercury	0.0051	mg/kg		J	7
K1011248	CL-TTR7-001	K1011248-001	ICP_MS	Nickel	0.717	mg/kg		J	16
K1011248	CL-TTR7-002	K1011248-002	ICP_MS	Arsenic	0.552	mg/kg		J	16
K1011248	CL-TTR7-002	K1011248-002	ICP_MS	Barium	0.963	mg/kg		J	16
K1011248	CL-TTR7-002	K1011248-002	ICP_MS	Cobalt	0.182	mg/kg		J	16
K1011248	CL-TTR7-002	K1011248-002	ICP_MS	Copper	1.87	mg/kg		J	16
K1011248	CL-TTR7-002	K1011248-002	ICP_MS	Manganese	1.8	mg/kg		J	16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011248	CL-TTR7-002	K1011248-002	SW7471A	Mercury	0.0046	mg/kg		J	7
K1011248	CL-TTR7-002	K1011248-002	ICP_MS	Nickel	1.39	mg/kg		J	16
K1011248	CL-TTR7-003	K1011248-003	ICP_MS	Arsenic	0.503	mg/kg		J	16
K1011248	CL-TTR7-003	K1011248-003	ICP_MS	Barium	0.972	mg/kg		J	16
K1011248	CL-TTR7-003	K1011248-003	ICP_MS	Cobalt	0.163	mg/kg		J	16
K1011248	CL-TTR7-003	K1011248-003	ICP_MS	Copper	1.45	mg/kg		J	16
K1011248	CL-TTR7-003	K1011248-003	ICP_MS	Manganese	1.51	mg/kg		J	16
K1011248	CL-TTR7-003	K1011248-003	SW7471A	Mercury	0.0055	mg/kg		J	7
K1011248	CL-TTR7-003	K1011248-003	ICP_MS	Nickel	1.23	mg/kg		J	16
K1011248	CL-TTR7-004	K1011248-004	ICP_MS	Arsenic	0.576	mg/kg		J	16
K1011248	CL-TTR7-004	K1011248-004	ICP_MS	Barium	1.08	mg/kg		J	16
K1011248	CL-TTR7-004	K1011248-004	ICP_MS	Cobalt	0.168	mg/kg		J	16
K1011248	CL-TTR7-004	K1011248-004	ICP_MS	Copper	1.85	mg/kg		J	16
K1011248	CL-TTR7-004	K1011248-004	ICP_MS	Manganese	1.76	mg/kg		J	16
K1011248	CL-TTR7-004	K1011248-004	SW7471A	Mercury	0.0067	mg/kg		J	7
K1011248	CL-TTR7-004	K1011248-004	ICP_MS	Nickel	1.29	mg/kg		J	16
K1011248	CL-TTR7-005	K1011248-005	ICP_MS	Arsenic	0.516	mg/kg		J	16
K1011248	CL-TTR7-005	K1011248-005	ICP_MS	Barium	0.987	mg/kg		J	16
K1011248	CL-TTR7-005	K1011248-005	ICP_MS	Cobalt	0.196	mg/kg		J	16
K1011248	CL-TTR7-005	K1011248-005	ICP_MS	Copper	1.74	mg/kg		J	16
K1011248	CL-TTR7-005	K1011248-005	ICP_MS	Manganese	1.09	mg/kg		J	16
K1011248	CL-TTR7-005	K1011248-005	SW7471A	Mercury	0.007	mg/kg		J	7
K1011248	CL-TTR7-005	K1011248-005	ICP_MS	Nickel	1.26	mg/kg		J	16
K1011248	CL-TTR8-001	K1011248-006	ICP_MS	Arsenic	0.428	mg/kg		J	16
K1011248	CL-TTR8-001	K1011248-006	ICP_MS	Barium	1.02	mg/kg		J	16
K1011248	CL-TTR8-001	K1011248-006	ICP_MS	Cobalt	0.217	mg/kg		J	16
K1011248	CL-TTR8-001	K1011248-006	ICP_MS	Copper	1.46	mg/kg		J	16
K1011248	CL-TTR8-001	K1011248-006	ICP_MS	Manganese	0.872	mg/kg		J	16
K1011248	CL-TTR8-001	K1011248-006	ICP_MS	Nickel	1.19	mg/kg		J	16
K1011248	CL-TTR8-002	K1011248-007	ICP_MS	Arsenic	0.487	mg/kg		J	16
K1011248	CL-TTR8-002	K1011248-007	ICP_MS	Barium	0.958	mg/kg		J	16
K1011248	CL-TTR8-002	K1011248-007	ICP_MS	Cobalt	0.243	mg/kg		J	16
K1011248	CL-TTR8-002	K1011248-007	ICP_MS	Copper	1.15	mg/kg		J	16
K1011248	CL-TTR8-002	K1011248-007	ICP_MS	Manganese	0.851	mg/kg		J	16
K1011248	CL-TTR8-002	K1011248-007	ICP_MS	Nickel	1.14	mg/kg		J	16
K1011248	CL-TTR8-003	K1011248-008	ICP_MS	Arsenic	0.519	mg/kg		J	16
K1011248	CL-TTR8-003	K1011248-008	ICP_MS	Barium	1.26	mg/kg		J	16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011248	CL-TTR8-003	K1011248-008	ICP_MS	Cobalt	0.254	mg/kg		J	16
K1011248	CL-TTR8-003	K1011248-008	ICP_MS	Copper	1.37	mg/kg		J	16
K1011248	CL-TTR8-003	K1011248-008	ICP_MS	Manganese	1.07	mg/kg		J	16
K1011248	CL-TTR8-003	K1011248-008	ICP_MS	Nickel	1.19	mg/kg		J	16
K1011248	CL-TTR8-004	K1011248-009	ICP_MS	Arsenic	0.407	mg/kg		J	16
K1011248	CL-TTR8-004	K1011248-009	ICP_MS	Barium	1.12	mg/kg		J	16
K1011248	CL-TTR8-004	K1011248-009	ICP_MS	Cobalt	0.183	mg/kg		J	16
K1011248	CL-TTR8-004	K1011248-009	ICP_MS	Copper	1.42	mg/kg		J	16
K1011248	CL-TTR8-004	K1011248-009	ICP_MS	Manganese	0.85	mg/kg		J	16
K1011248	CL-TTR8-004	K1011248-009	ICP_MS	Nickel	1.21	mg/kg		J	16
K1011248	CL-TTR8-005	K1011248-010	ICP_MS	Arsenic	0.525	mg/kg		J	16
K1011248	CL-TTR8-005	K1011248-010	ICP_MS	Barium	1.25	mg/kg		J	16
K1011248	CL-TTR8-005	K1011248-010	ICP_MS	Cobalt	0.223	mg/kg		J	16
K1011248	CL-TTR8-005	K1011248-010	ICP_MS	Copper	1.22	mg/kg		J	16
K1011248	CL-TTR8-005	K1011248-010	ICP_MS	Manganese	1.06	mg/kg		J	16
K1011248	CL-TTR8-005	K1011248-010	ICP_MS	Nickel	1.33	mg/kg		J	16
K1011254	FFFW-904	K1011254-001	ICPMS_3050B	Arsenic	0.13	ug	J	U	6
K1011254	FFFW-904	K1011254-001	ICPMS_3050B	Barium	0.264	ug		U	6
K1011254	FFFW-904	K1011254-001	ICPMS_3050B	Cadmium	0.01	ug	J	U	7
K1011254	FFFW-904	K1011254-001	ICPMS_3050B	Cobalt	0.009	ug	J	U	7
K1011254	FFFW-904	K1011254-001	ICPMS_3050B	Copper	1.45	ug		U	6
K1011254	FFFW-904	K1011254-001	ICPMS_3050B	Lead	0.103	ug		U	6
K1011254	FFFW-904	K1011254-001	ICPAES_3050B	Magnesium	163	ug		UJ	6,16
K1011254	FFFW-904	K1011254-001	ICPMS_3050B	Manganese	0.248	ug	X	U	7
K1011254	FFFW-904	K1011254-001	ICPMS_3050B	Nickel	0.028	ug	J	U	7
K1011254	FFFW-904	K1011254-001	ICPAES_3050B	Zinc	67	ug		U	6
K1011254	FB-905	K1011254-002	ICPMS_3050B	Cadmium	0.008	ug	J	U	7
K1011254	FB-905	K1011254-002	ICPMS_3050B	Cobalt	0.007	ug	J	U	7
K1011254	FB-905	K1011254-002	ICPAES_3050B	Magnesium	140	ug		J	16
K1011254	FB-905	K1011254-002	ICPMS_3050B	Manganese	0.264	ug	X	U	7
K1011254	FB-905	K1011254-002	ICPMS_3050B	Nickel	0.027	ug	J	U	7
K1011379	FFFW-906	K1011379-001	ICPMS_3050B	Arsenic	0.05	ug	J	U	6
K1011379	FFFW-906	K1011379-001	ICPMS_3050B	Barium	0.184	ug		U	6
K1011379	FFFW-906	K1011379-001	ICPMS_3050B	Cadmium	0.015	ug		U	7
K1011379	FFFW-906	K1011379-001	ICPMS_3050B	Cobalt	0.002	ug	J	U	7
K1011379	FFFW-906	K1011379-001	ICPMS_3050B	Copper	0.076	ug		U	6
K1011379	FFFW-906	K1011379-001	ICPMS_3050B	Lead	0.167	ug		U	6

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011379	FFFW-906	K1011379-001	ICPAES_3050B	Magnesium	119	ug		UJ	6,16
K1011379	FFFW-906	K1011379-001	ICPMS_3050B	Manganese	0.103	ug	X	U	7
K1011379	FFFW-906	K1011379-001	ICPMS_3050B	Nickel	0.03	ug	J	U	7
K1011379	FFFW-906	K1011379-001	ICPAES_3050B	Zinc	1.1	ug		U	6
K1011379	FFFW-907	K1011379-002	ICPMS_3050B	Arsenic	0.16	ug	J	U	6
K1011379	FFFW-907	K1011379-002	ICPMS_3050B	Barium	0.098	ug		U	6
K1011379	FFFW-907	K1011379-002	ICPMS_3050B	Cadmium	0.01	ug		U	7
K1011379	FFFW-907	K1011379-002	ICPMS_3050B	Cobalt	0.011	ug		U	7
K1011379	FFFW-907	K1011379-002	ICPMS_3050B	Copper	1.74	ug		U	6
K1011379	FFFW-907	K1011379-002	ICPMS_3050B	Lead	0.092	ug		U	6
K1011379	FFFW-907	K1011379-002	ICPAES_3050B	Magnesium	150	ug		UJ	6,16
K1011379	FFFW-907	K1011379-002	ICPMS_3050B	Manganese	0.292	ug	X	U	7
K1011379	FFFW-907	K1011379-002	ICPMS_3050B	Nickel	0.024	ug	J	U	7
K1011379	FFFW-907	K1011379-002	ICPAES_3050B	Zinc	76.1	ug		U	6
K1011379	FFFW-908	K1011379-003	ICPMS_3050B	Arsenic	0.13	ug	J	U	6
K1011379	FFFW-908	K1011379-003	ICPMS_3050B	Barium	0.087	ug		U	6
K1011379	FFFW-908	K1011379-003	ICPMS_3050B	Cadmium	0.007	ug	J	U	7
K1011379	FFFW-908	K1011379-003	ICPMS_3050B	Cobalt	0.006	ug	J	U	7
K1011379	FFFW-908	K1011379-003	ICPMS_3050B	Copper	1.46	ug		U	6
K1011379	FFFW-908	K1011379-003	ICPMS_3050B	Lead	0.091	ug		U	6
K1011379	FFFW-908	K1011379-003	ICPAES_3050B	Magnesium	140	ug		UJ	6,16
K1011379	FFFW-908	K1011379-003	ICPMS_3050B	Manganese	0.349	ug	X	U	7
K1011379	FFFW-908	K1011379-003	ICPAES_3050B	Zinc	69.7	ug		U	6
K1011383	GK-TTR6-1	K1011383-001	ICP_MS	Barium	5.39	mg/kg		J	16
K1011383	GK-TTR6-1	K1011383-001	ICP_MS	Cadmium	0.0037	mg/kg	J	U	7
K1011383	GK-TTR6-1	K1011383-001	ICP_MS	Cobalt	0.0454	mg/kg		J	16
K1011383	GK-TTR6-1	K1011383-001	ICP_MS	Copper	1.43	mg/kg		J	16
K1011383	GK-TTR6-1	K1011383-001	ICP_MS	Lead	0.0858	mg/kg		J	16
K1011383	GK-TTR6-1	K1011383-001	ICP_MS	Manganese	13.7	mg/kg	N	J	8,16
K1011383	GK-TTR6-1	K1011383-001	ICP_MS	Nickel	0.494	mg/kg		J	16
K1011383	GK-TTR6-2	K1011383-002	ICP_MS	Barium	5	mg/kg		J	16
K1011383	GK-TTR6-2	K1011383-002	ICP_MS	Cadmium	0.0026	mg/kg	J	U	7
K1011383	GK-TTR6-2	K1011383-002	ICP_MS	Cobalt	0.053	mg/kg		J	16
K1011383	GK-TTR6-2	K1011383-002	ICP_MS	Copper	1.53	mg/kg		J	16
K1011383	GK-TTR6-2	K1011383-002	ICP_MS	Lead	0.0698	mg/kg		J	16
K1011383	GK-TTR6-2	K1011383-002	ICP_MS	Manganese	12.9	mg/kg	N	J	8,16
K1011383	GK-TTR6-2	K1011383-002	ICP_MS	Nickel	0.813	mg/kg		J	16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR7-1	K1011383-003	ICP_MS	Barium	3.64	mg/kg		J	16
K1011383	GK-TTR7-1	K1011383-003	ICP_MS	Cadmium	0.002	mg/kg	J	U	7
K1011383	GK-TTR7-1	K1011383-003	ICP_MS	Cobalt	0.0538	mg/kg		J	16
K1011383	GK-TTR7-1	K1011383-003	ICP_MS	Copper	0.938	mg/kg		J	16
K1011383	GK-TTR7-1	K1011383-003	ICP_MS	Lead	0.0605	mg/kg		J	16
K1011383	GK-TTR7-1	K1011383-003	ICP_MS	Manganese	15.4	mg/kg	N	J	8,16
K1011383	GK-TTR7-1	K1011383-003	ICP_MS	Nickel	0.416	mg/kg		J	16
K1011383	GK-TTR7-2	K1011383-004	ICP_MS	Barium	3.58	mg/kg		J	16
K1011383	GK-TTR7-2	K1011383-004	ICP_MS	Cadmium	0.0015	mg/kg	J	U	7
K1011383	GK-TTR7-2	K1011383-004	ICP_MS	Cobalt	0.0511	mg/kg		J	16
K1011383	GK-TTR7-2	K1011383-004	ICP_MS	Copper	0.894	mg/kg		J	16
K1011383	GK-TTR7-2	K1011383-004	ICP_MS	Lead	0.0541	mg/kg		J	16
K1011383	GK-TTR7-2	K1011383-004	ICP_MS	Manganese	13.6	mg/kg	N	J	8,16
K1011383	GK-TTR7-2	K1011383-004	ICP_MS	Nickel	0.41	mg/kg		J	16
K1011383	GK-TTR7-3	K1011383-005	ICP_MS	Barium	3.69	mg/kg		J	16
K1011383	GK-TTR7-3	K1011383-005	ICP_MS	Cadmium	0.003	mg/kg	J	U	7
K1011383	GK-TTR7-3	K1011383-005	ICP_MS	Cobalt	0.0552	mg/kg		J	16
K1011383	GK-TTR7-3	K1011383-005	ICP_MS	Copper	1.27	mg/kg		J	16
K1011383	GK-TTR7-3	K1011383-005	ICP_MS	Lead	0.0651	mg/kg		J	16
K1011383	GK-TTR7-3	K1011383-005	ICP_MS	Manganese	15.3	mg/kg	N	J	8,16
K1011383	GK-TTR7-3	K1011383-005	ICP_MS	Nickel	0.441	mg/kg		J	16
K1011383	GK-TTR7-4	K1011383-006	ICP_MS	Barium	4.36	mg/kg		J	16
K1011383	GK-TTR7-4	K1011383-006	ICP_MS	Cadmium	0.0042	mg/kg	J	U	7
K1011383	GK-TTR7-4	K1011383-006	ICP_MS	Cobalt	0.0766	mg/kg		J	16
K1011383	GK-TTR7-4	K1011383-006	ICP_MS	Copper	1.5	mg/kg		J	16
K1011383	GK-TTR7-4	K1011383-006	ICP_MS	Lead	0.0971	mg/kg		J	16
K1011383	GK-TTR7-4	K1011383-006	ICP_MS	Manganese	22	mg/kg	N	J	8,16
K1011383	GK-TTR7-4	K1011383-006	ICP_MS	Nickel	0.51	mg/kg		J	16
K1011383	GK-TTR8-1	K1011383-007	ICP_MS	Barium	5.26	mg/kg		J	16
K1011383	GK-TTR8-1	K1011383-007	ICP_MS	Cobalt	0.0716	mg/kg		J	16
K1011383	GK-TTR8-1	K1011383-007	ICP_MS	Copper	1.34	mg/kg		J	16
K1011383	GK-TTR8-1	K1011383-007	ICP_MS	Lead	0.0519	mg/kg		J	16
K1011383	GK-TTR8-1	K1011383-007	ICP_MS	Manganese	27.9	mg/kg	N	J	8,16
K1011383	GK-TTR8-1	K1011383-007	ICP_MS	Nickel	0.55	mg/kg		J	16
K1011383	GK-TTR8-2	K1011383-008	ICP_MS	Barium	5.55	mg/kg		J	16
K1011383	GK-TTR8-2	K1011383-008	ICP_MS	Cadmium	0.0031	mg/kg	J	U	7
K1011383	GK-TTR8-2	K1011383-008	ICP_MS	Cobalt	0.0715	mg/kg		J	16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR8-2	K1011383-008	ICP_MS	Copper	1.32	mg/kg		J	16
K1011383	GK-TTR8-2	K1011383-008	ICP_MS	Lead	0.0532	mg/kg		J	16
K1011383	GK-TTR8-2	K1011383-008	ICP_MS	Manganese	31.2	mg/kg	N	J	8,16
K1011383	GK-TTR8-2	K1011383-008	ICP_MS	Nickel	0.508	mg/kg		J	16
K1011383	GK-TTR8-3	K1011383-009	ICP_MS	Barium	5.09	mg/kg		J	16
K1011383	GK-TTR8-3	K1011383-009	ICP_MS	Cadmium	0.0037	mg/kg	J	U	7
K1011383	GK-TTR8-3	K1011383-009	ICP_MS	Cobalt	0.0689	mg/kg		J	16
K1011383	GK-TTR8-3	K1011383-009	ICP_MS	Copper	1.36	mg/kg		J	16
K1011383	GK-TTR8-3	K1011383-009	ICP_MS	Lead	0.0647	mg/kg		J	16
K1011383	GK-TTR8-3	K1011383-009	ICP_MS	Manganese	28.1	mg/kg	N	J	8,16
K1011383	GK-TTR8-3	K1011383-009	ICP_MS	Nickel	0.503	mg/kg		J	16
K1011383	GK-TTR8-4	K1011383-010	ICP_MS	Barium	5.31	mg/kg		J	16
K1011383	GK-TTR8-4	K1011383-010	ICP_MS	Cadmium	0.0029	mg/kg	J	U	7
K1011383	GK-TTR8-4	K1011383-010	ICP_MS	Cobalt	0.06	mg/kg		J	16
K1011383	GK-TTR8-4	K1011383-010	ICP_MS	Copper	1.32	mg/kg		J	16
K1011383	GK-TTR8-4	K1011383-010	ICP_MS	Lead	0.0457	mg/kg		J	16
K1011383	GK-TTR8-4	K1011383-010	ICP_MS	Manganese	24.8	mg/kg	N	J	8,16
K1011383	GK-TTR8-4	K1011383-010	ICP_MS	Nickel	0.538	mg/kg		J	16
K1011383	GK-TTR2-1	K1011383-011	ICP_MS	Barium	3.77	mg/kg		J	16
K1011383	GK-TTR2-1	K1011383-011	ICP_MS	Cadmium	0.0046	mg/kg		U	7
K1011383	GK-TTR2-1	K1011383-011	ICP_MS	Cobalt	0.0685	mg/kg		J	16
K1011383	GK-TTR2-1	K1011383-011	ICP_MS	Copper	1.25	mg/kg		J	16
K1011383	GK-TTR2-1	K1011383-011	ICP_MS	Lead	0.0961	mg/kg		J	16
K1011383	GK-TTR2-1	K1011383-011	ICP_MS	Manganese	13.1	mg/kg	N	J	8,16
K1011383	GK-TTR2-1	K1011383-011	ICP_MS	Nickel	0.386	mg/kg		J	16
K1011383	GK-TTR2-2	K1011383-012	ICP_MS	Barium	3.13	mg/kg		J	16
K1011383	GK-TTR2-2	K1011383-012	ICP_MS	Cadmium	0.0044	mg/kg	J	U	7
K1011383	GK-TTR2-2	K1011383-012	ICP_MS	Cobalt	0.0538	mg/kg		J	16
K1011383	GK-TTR2-2	K1011383-012	ICP_MS	Copper	1.35	mg/kg		J	16
K1011383	GK-TTR2-2	K1011383-012	ICP_MS	Lead	0.069	mg/kg		J	16
K1011383	GK-TTR2-2	K1011383-012	ICP_MS	Manganese	9.85	mg/kg	N	J	8,16
K1011383	GK-TTR2-2	K1011383-012	ICP_MS	Nickel	0.37	mg/kg		J	16
K1011383	GK-TTR3-1	K1011383-016	ICP_MS	Barium	3.52	mg/kg		J	16
K1011383	GK-TTR3-1	K1011383-016	ICP_MS	Cadmium	0.0053	mg/kg		U	7
K1011383	GK-TTR3-1	K1011383-016	ICP_MS	Cobalt	0.0611	mg/kg		J	16
K1011383	GK-TTR3-1	K1011383-016	ICP_MS	Copper	1.26	mg/kg		J	16
K1011383	GK-TTR3-1	K1011383-016	ICP_MS	Lead	0.151	mg/kg		J	16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR3-1	K1011383-016	ICP_MS	Manganese	16	mg/kg	N	J	8,16
K1011383	GK-TTR3-1	K1011383-016	ICP_MS	Nickel	0.46	mg/kg		J	16
K1011383	GK-TTR3-2	K1011383-017	ICP_MS	Barium	4.2	mg/kg		J	16
K1011383	GK-TTR3-2	K1011383-017	ICP_MS	Cadmium	0.0057	mg/kg		U	7
K1011383	GK-TTR3-2	K1011383-017	ICP_MS	Cobalt	0.0604	mg/kg		J	16
K1011383	GK-TTR3-2	K1011383-017	ICP_MS	Copper	1.49	mg/kg		J	16
K1011383	GK-TTR3-2	K1011383-017	ICP_MS	Lead	0.151	mg/kg		J	16
K1011383	GK-TTR3-2	K1011383-017	ICP_MS	Manganese	12.2	mg/kg	N	J	8,16
K1011383	GK-TTR3-2	K1011383-017	ICP_MS	Nickel	0.492	mg/kg		J	16
K1011383	GK-TTR4-1	K1011383-018	ICP_MS	Barium	3.05	mg/kg		J	16
K1011383	GK-TTR4-1	K1011383-018	ICP_MS	Cadmium	0.0031	mg/kg	J	U	7
K1011383	GK-TTR4-1	K1011383-018	ICP_MS	Cobalt	0.0634	mg/kg		J	16
K1011383	GK-TTR4-1	K1011383-018	ICP_MS	Copper	0.973	mg/kg		J	16
K1011383	GK-TTR4-1	K1011383-018	ICP_MS	Lead	0.0942	mg/kg		J	16
K1011383	GK-TTR4-1	K1011383-018	ICP_MS	Manganese	13.6	mg/kg	N	J	8,16
K1011383	GK-TTR4-1	K1011383-018	ICP_MS	Nickel	0.416	mg/kg		J	16
K1011383	GK-TTR4-2	K1011383-019	ICP_MS	Barium	2.75	mg/kg		J	16
K1011383	GK-TTR4-2	K1011383-019	ICP_MS	Cadmium	0.0039	mg/kg	J	U	7
K1011383	GK-TTR4-2	K1011383-019	ICP_MS	Cobalt	0.0469	mg/kg		J	16
K1011383	GK-TTR4-2	K1011383-019	ICP_MS	Copper	1.54	mg/kg		J	16
K1011383	GK-TTR4-2	K1011383-019	ICP_MS	Lead	0.0631	mg/kg		J	16
K1011383	GK-TTR4-2	K1011383-019	ICP_MS	Manganese	12.2	mg/kg	N	J	8,16
K1011383	GK-TTR4-2	K1011383-019	ICP_MS	Nickel	0.422	mg/kg		J	16
K1011383	GK-TTR5-1	K1011383-020	ICP_MS	Barium	6.14	mg/kg		J	16
K1011383	GK-TTR5-1	K1011383-020	ICP_MS	Cadmium	0.0031	mg/kg	J	U	7
K1011383	GK-TTR5-1	K1011383-020	ICP_MS	Cobalt	0.0457	mg/kg		J	16
K1011383	GK-TTR5-1	K1011383-020	ICP_MS	Copper	1.3	mg/kg		J	16
K1011383	GK-TTR5-1	K1011383-020	ICP_MS	Lead	0.0763	mg/kg		J	16
K1011383	GK-TTR5-1	K1011383-020	ICP_MS	Manganese	12.3	mg/kg	N	J	8,16
K1011383	GK-TTR5-1	K1011383-020	ICP_MS	Nickel	0.385	mg/kg		J	16
K1011383	GK-TTR5-2	K1011383-021	ICP_MS	Barium	5.38	mg/kg		J	16
K1011383	GK-TTR5-2	K1011383-021	ICP_MS	Cadmium	0.003	mg/kg	J	U	7
K1011383	GK-TTR5-2	K1011383-021	ICP_MS	Cobalt	0.0524	mg/kg		J	16
K1011383	GK-TTR5-2	K1011383-021	ICP_MS	Copper	1.77	mg/kg		J	16
K1011383	GK-TTR5-2	K1011383-021	ICP_MS	Lead	0.108	mg/kg		J	16
K1011383	GK-TTR5-2	K1011383-021	ICP_MS	Manganese	14	mg/kg	N	J	8,16
K1011383	GK-TTR5-2	K1011383-021	ICP_MS	Nickel	0.477	mg/kg		J	16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012518	SJFCA2-LF1	K1012518-004	ICP-AES	Chromium	0.02	mg/kg	U,*	UJ	7,9
K1012518	SJFCA2-LF1	K1012518-004	ICP_MS	Lead	0.0099	mg/kg		J	16
K1012518	SJFCA2-LF1	K1012518-004	ICP_MS	Manganese	0.224	mg/kg		J	16
K1012518	SJFCA2-LF1	K1012518-004	ICP-AES	Vanadium	0.02	mg/kg	J	U	7
K1012518	SJFCA2-LF1-R	K1012518-008	ICP-AES	Chromium	0.77	mg/kg	*	J	9
K1012518	SJFCA2-LF1-R	K1012518-008	ICP_MS	Lead	0.171	mg/kg		J	16
K1012518	SJFCA2-LF1-R	K1012518-008	ICP_MS	Manganese	14.3	mg/kg		J	16
K1012518	SJFCA2-LF2	K1012518-012	ICP-AES	Chromium	0.02	mg/kg	U,*	UJ	7,9
K1012518	SJFCA2-LF2	K1012518-012	ICP_MS	Lead	0.002	mg/kg	J	UJ	7,16
K1012518	SJFCA2-LF2	K1012518-012	ICP_MS	Manganese	0.209	mg/kg		J	16
K1012518	SJFCA2-LF2	K1012518-012	ICP-AES	Vanadium	0.04	mg/kg	J	U	7
K1012518	SJFCA2-LF3	K1012518-016	ICP-AES	Chromium	0.02	mg/kg	U,*	UJ	7,9
K1012518	SJFCA2-LF3	K1012518-016	ICP_MS	Lead	0.0029	mg/kg	J	UJ	7,16
K1012518	SJFCA2-LF3	K1012518-016	ICP_MS	Manganese	0.207	mg/kg		J	16
K1012518	SJFCA2-LF3	K1012518-016	ICP-AES	Vanadium	0.02	mg/kg	J	U	7
K1012518	SJFCA2-LF4	K1012518-020	ICP-AES	Chromium	0.02	mg/kg	J,*	J	7,9
K1012518	SJFCA2-LF4	K1012518-020	ICP_MS	Lead	0.0023	mg/kg	J	UJ	7,16
K1012518	SJFCA2-LF4	K1012518-020	ICP_MS	Manganese	0.146	mg/kg		J	16
K1012518	SJFCA2-LF4	K1012518-020	ICP-AES	Vanadium	0.04	mg/kg	J	U	7
K1012518	SJFCA2-LF4-R	K1012518-024	ICP-AES	Chromium	0.21	mg/kg	*	J	9
K1012518	SJFCA2-LF4-R	K1012518-024	ICP_MS	Lead	0.113	mg/kg		J	16
K1012518	SJFCA2-LF4-R	K1012518-024	ICP_MS	Manganese	6.22	mg/kg		J	16
K1012518	SJFCA2-LF5	K1012518-028	ICP-AES	Chromium	0.03	mg/kg	J,*	J	7,9
K1012518	SJFCA2-LF5	K1012518-028	ICP_MS	Lead	0.0024	mg/kg	J	UJ	7,16
K1012518	SJFCA2-LF5	K1012518-028	ICP_MS	Manganese	0.185	mg/kg		J	16
K1012518	SJFCA2-LF5	K1012518-028	ICP-AES	Vanadium	0.03	mg/kg	J	U	7
K1012518	SJFCA2-LF6	K1012518-032	ICP-AES	Chromium	0.02	mg/kg	U,*	UJ	9
K1012518	SJFCA2-LF6	K1012518-032	ICP_MS	Lead	0.0033	mg/kg	J	UJ	7,16
K1012518	SJFCA2-LF6	K1012518-032	ICP_MS	Manganese	0.197	mg/kg		J	16
K1012518	SJFCA2-LF6	K1012518-032	ICP-AES	Vanadium	0.02	mg/kg	J	U	7
K1012518	SJFCA2-LF7	K1012518-036	ICP-AES	Chromium	0.03	mg/kg	J,*	J	9
K1012518	SJFCA2-LF7	K1012518-036	ICP_MS	Lead	0.0031	mg/kg	J	UJ	7,16
K1012518	SJFCA2-LF7	K1012518-036	ICP_MS	Manganese	0.196	mg/kg		J	16
K1012518	SJFCA2-LF7	K1012518-036	ICP-AES	Vanadium	0.03	mg/kg	J	U	7
K1012518	SJFCA2-LF8	K1012518-040	ICP-AES	Chromium	0.02	mg/kg	J,*	J	9
K1012518	SJFCA2-LF8	K1012518-040	ICP_MS	Lead	0.0041	mg/kg	J	UJ	7,16
K1012518	SJFCA2-LF8	K1012518-040	ICP_MS	Manganese	0.197	mg/kg		J	16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012518	SJFCA2-LF8-R	K1012518-044	ICP_MS	Cadmium	0.0086	mg/kg		U	7
K1012518	SJFCA2-LF8-R	K1012518-044	ICP-AES	Chromium	0.36	mg/kg	*	J	9
K1012518	SJFCA2-LF8-R	K1012518-044	ICP_MS	Lead	0.0896	mg/kg		J	16
K1012518	SJFCA2-LF8-R	K1012518-044	ICP_MS	Manganese	6.54	mg/kg		J	16
K1012518	SJFCA2-LF9	K1012518-048	ICP-AES	Chromium	0.02	mg/kg	U,*	UJ	9
K1012518	SJFCA2-LF9	K1012518-048	ICP_MS	Lead	0.0031	mg/kg	J	UJ	7,16
K1012518	SJFCA2-LF9	K1012518-048	ICP_MS	Manganese	0.175	mg/kg		J	16
K1012518	SJFCA2-LF10	K1012518-052	ICP-AES	Chromium	0.02	mg/kg	U,*	UJ	9
K1012518	SJFCA2-LF10	K1012518-052	ICP_MS	Lead	0.0047	mg/kg		UJ	7,16
K1012518	SJFCA2-LF10	K1012518-052	ICP_MS	Manganese	0.329	mg/kg		J	16
K1012518	SJFCA2-LF10	K1012518-052	ICP-AES	Vanadium	0.03	mg/kg	J	U	7
K1012518	SJFCA2-LF10-R	K1012518-056	ICP-AES	Chromium	0.6	mg/kg	*	J	9
K1012518	SJFCA2-LF10-R	K1012518-056	ICP_MS	Lead	0.426	mg/kg		J	16
K1012518	SJFCA2-LF10-R	K1012518-056	ICP_MS	Manganese	12.8	mg/kg		J	16
K1012518	Catfish	K1012518-057	ICP-AES_CLAA	Aluminum	1.9	ug/L	J	U	7
K1012518	Catfish	K1012518-057	ICPMS_CLFAA	Cadmium	0.004	ug/L	J	U	7
K1012518	Catfish	K1012518-057	ICP-AES_CLAA	Chromium	0.6	ug/L	U	UJ	7
K1012518	Catfish	K1012518-057	ICPMS_CLFAA	Lead	0.036	ug/L		U	7
K1012518	Catfish	K1012518-057	ICP-AES_CLAA	Magnesium	5.5	ug/L		U	7
K1012518	Catfish	K1012518-057	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1012518	Catfish	K1012518-057	ICPMS_CLFAA	Nickel	0.34	ug/L		U	7
K1012523	SJFCA3-LF1	K1012523-004	ICP_MS	Cadmium	0.0011	mg/kg	J	U	7
K1012523	SJFCA3-LF1	K1012523-004	ICP-AES	Chromium	0.02	mg/kg	U,*	UJ	9
K1012523	SJFCA3-LF1	K1012523-004	ICP_MS	Lead	0.0124	mg/kg		J	16
K1012523	SJFCA3-LF1	K1012523-004	ICP_MS	Manganese	0.15	mg/kg		J	16
K1012523	SJFCA3-LF1	K1012523-004	ICP-AES	Vanadium	0.02	mg/kg	J	U	7
K1012523	SJFCA3-LF1-R	K1012523-008	ICP_MS	Cadmium	0.0074	mg/kg		U	7
K1012523	SJFCA3-LF1-R	K1012523-008	ICP-AES	Chromium	2.71	mg/kg	*	J	9
K1012523	SJFCA3-LF1-R	K1012523-008	ICP_MS	Lead	0.133	mg/kg		J	16
K1012523	SJFCA3-LF1-R	K1012523-008	ICP_MS	Manganese	12.4	mg/kg		J	16
K1012523	SJFCA3-LF2	K1012523-012	ICP-AES	Chromium	0.02	mg/kg	U,*	UJ	9
K1012523	SJFCA3-LF2	K1012523-012	ICP_MS	Lead	0.0021	mg/kg	J	UJ	7,16
K1012523	SJFCA3-LF2	K1012523-012	ICP_MS	Manganese	0.166	mg/kg		J	16
K1012523	SJFCA3-LF2	K1012523-012	ICP-AES	Vanadium	0.02	mg/kg	J	U	7
K1012523	SJFCA3-LF3	K1012523-016	ICP-AES	Chromium	0.03	mg/kg	J,*	J	9
K1012523	SJFCA3-LF3	K1012523-016	ICP_MS	Lead	0.0037	mg/kg	J	UJ	7,16
K1012523	SJFCA3-LF3	K1012523-016	ICP_MS	Manganese	0.169	mg/kg		J	16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012523	SJFCA3-LF3	K1012523-016	ICP-AES	Vanadium	0.02	mg/kg	J	U	7
K1012523	SJFCA3-LF4	K1012523-020	ICP-AES	Chromium	0.02	mg/kg	U,*	UJ	9
K1012523	SJFCA3-LF4	K1012523-020	ICP_MS	Lead	0.0057	mg/kg		UJ	7,16
K1012523	SJFCA3-LF4	K1012523-020	ICP_MS	Manganese	0.35	mg/kg		J	16
K1012523	SJFCA3-LF4	K1012523-020	ICP-AES	Vanadium	0.06	mg/kg		U	7
K1012523	SJFCA3-LF5	K1012523-024	ICP-AES	Chromium	0.02	mg/kg	U,*	UJ	9
K1012523	SJFCA3-LF5	K1012523-024	ICP_MS	Lead	0.002	mg/kg	J	UJ	7,16
K1012523	SJFCA3-LF5	K1012523-024	ICP_MS	Manganese	0.204	mg/kg		J	16
K1012523	SJFCA3-LF6	K1012523-028	ICP-AES	Aluminum	1.02	mg/kg	*	J	9
K1012523	SJFCA3-LF6	K1012523-028	ICP_MS	Barium	0.221	mg/kg	N	J	8
K1012523	SJFCA3-LF6	K1012523-028	ICP-AES	Chromium	0.02	mg/kg	U,*	UJ	7,9
K1012523	SJFCA3-LF6	K1012523-028	ICP_MS	Lead	0.0187	mg/kg		J	16
K1012523	SJFCA3-LF6	K1012523-028	ICP_MS	Manganese	0.178	mg/kg	N	J	8,16
K1012523	SJFCA3-LF6	K1012523-028	ICP-AES	Vanadium	0.04	mg/kg	J	U	7
K1012523	SJFCA3-LF6-R	K1012523-032	ICP-AES	Aluminum	16.3	mg/kg	*	J	9
K1012523	SJFCA3-LF6-R	K1012523-032	ICP_MS	Barium	7.36	mg/kg	N	J	8
K1012523	SJFCA3-LF6-R	K1012523-032	ICP-AES	Chromium	1.01	mg/kg	*	J	9
K1012523	SJFCA3-LF6-R	K1012523-032	ICP_MS	Lead	0.109	mg/kg		J	16
K1012523	SJFCA3-LF6-R	K1012523-032	ICP_MS	Manganese	8.18	mg/kg	N	J	8,16
K1012523	SJFCA3-LF7	K1012523-036	ICP-AES	Aluminum	2.16	mg/kg	*	J	9
K1012523	SJFCA3-LF7	K1012523-036	ICP_MS	Barium	0.133	mg/kg	N	J	8
K1012523	SJFCA3-LF7	K1012523-036	ICP-AES	Chromium	0.02	mg/kg	U,*	UJ	7,9
K1012523	SJFCA3-LF7	K1012523-036	ICP_MS	Lead	0.0035	mg/kg	J	UJ	7,16
K1012523	SJFCA3-LF7	K1012523-036	ICP_MS	Manganese	0.26	mg/kg	N	J	8,16
K1012523	SJFCA3-LF7	K1012523-036	ICP-AES	Vanadium	0.04	mg/kg	J	U	7
K1012523	SJFCA3-LF8	K1012523-040	ICP-AES	Aluminum	4.46	mg/kg	*	J	9
K1012523	SJFCA3-LF8	K1012523-040	ICP_MS	Barium	0.172	mg/kg	N	J	8
K1012523	SJFCA3-LF8	K1012523-040	ICP-AES	Chromium	0.07	mg/kg	*	J	7,9
K1012523	SJFCA3-LF8	K1012523-040	ICP_MS	Lead	0.005	mg/kg		UJ	7,16
K1012523	SJFCA3-LF8	K1012523-040	ICP_MS	Manganese	0.188	mg/kg	N	J	8,16
K1012523	SJFCA3-LF8	K1012523-040	ICP-AES	Vanadium	0.05	mg/kg		U	7
K1012523	SJFCA3-LF9	K1012523-044	ICP-AES	Aluminum	0.23	mg/kg	*	J	9
K1012523	SJFCA3-LF9	K1012523-044	ICP_MS	Barium	0.116	mg/kg	N	J	8
K1012523	SJFCA3-LF9	K1012523-044	ICP-AES	Chromium	0.08	mg/kg	*	J	7,9
K1012523	SJFCA3-LF9	K1012523-044	ICP_MS	Lead	0.0154	mg/kg		J	16
K1012523	SJFCA3-LF9	K1012523-044	ICP_MS	Manganese	0.154	mg/kg	N	J	8,16
K1012523	SJFCA3-LF10	K1012523-048	ICP-AES	Aluminum	0.7	mg/kg	*	J	9

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012523	SJFCA3-LF10	K1012523-048	ICP_MS	Barium	0.288	mg/kg	N	J	8
K1012523	SJFCA3-LF10	K1012523-048	ICP-AES	Chromium	0.02	mg/kg	J,*	J	7,9
K1012523	SJFCA3-LF10	K1012523-048	ICP_MS	Lead	0.0125	mg/kg		J	16
K1012523	SJFCA3-LF10	K1012523-048	ICP_MS	Manganese	0.21	mg/kg	N	J	8,16
K1012523	SJFCA3-LF10	K1012523-048	ICP-AES	Vanadium	0.03	mg/kg	J	U	7
K1012523	SJFCA3-LF10-R	K1012523-052	ICP-AES	Aluminum	23	mg/kg	*	J	9
K1012523	SJFCA3-LF10-R	K1012523-052	ICP_MS	Barium	17.6	mg/kg	N	J	8
K1012523	SJFCA3-LF10-R	K1012523-052	ICP-AES	Chromium	0.34	mg/kg	*	J	9
K1012523	SJFCA3-LF10-R	K1012523-052	ICP_MS	Lead	0.111	mg/kg		J	16
K1012523	SJFCA3-LF10-R	K1012523-052	ICP_MS	Manganese	17	mg/kg	N	J	8,16
K1012523	Catfish-K1012523	K1012523-053	ICP-AES_CLAA	Aluminum	1.9	ug/L	J	U	7
K1012523	Catfish-K1012523	K1012523-053	ICPMS_CLFAA	Cadmium	0.004	ug/L	J	U	7
K1012523	Catfish-K1012523	K1012523-053	ICP-AES_CLAA	Chromium	0.6	ug/L	U	UJ	7
K1012523	Catfish-K1012523	K1012523-053	ICPMS_CLFAA	Lead	0.01	ug/L	J	U	7
K1012523	Catfish-K1012523	K1012523-053	ICP-AES_CLAA	Magnesium	2.2	ug/L		U	7
K1012523	Catfish-K1012523	K1012523-053	ICPMS_CLFAA	Manganese	0.06	ug/L		U	7
K1012523	Catfish-K1012523	K1012523-053	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1012523	Catfish-K1012523	K1012523-053	ICPMS_CLFAA	Nickel	0.11	ug/L	J	U	7
K1012526	SJFCA1-LF1	K1012526-004	ICP-AES	Aluminum	0.99	mg/kg	*	J	9
K1012526	SJFCA1-LF1	K1012526-004	ICP_MS	Barium	0.292	mg/kg	N	J	8
K1012526	SJFCA1-LF1	K1012526-004	ICP-AES	Chromium	0.02	mg/kg	J	J	7,9
K1012526	SJFCA1-LF1	K1012526-004	ICP_MS	Lead	0.0406	mg/kg		J	16
K1012526	SJFCA1-LF1	K1012526-004	ICP_MS	Manganese	0.226	mg/kg	N	J	8,16
K1012526	SJFCA1-LF1	K1012526-004	ICP-AES	Vanadium	0.03	mg/kg	J	U	7
K1012526	SJFCA1-LF1-R	K1012526-008	ICP-AES	Aluminum	38.5	mg/kg	*	J	9
K1012526	SJFCA1-LF1-R	K1012526-008	ICP_MS	Barium	7.65	mg/kg	N	J	8
K1012526	SJFCA1-LF1-R	K1012526-008	ICP-AES	Chromium	0.4	mg/kg		J	9
K1012526	SJFCA1-LF1-R	K1012526-008	ICP_MS	Lead	0.149	mg/kg		J	16
K1012526	SJFCA1-LF1-R	K1012526-008	ICP_MS	Manganese	15.9	mg/kg	N	J	8,16
K1012526	SJFCA1-LF2	K1012526-012	ICP-AES	Aluminum	0.73	mg/kg	*	J	9
K1012526	SJFCA1-LF2	K1012526-012	ICP_MS	Barium	0.123	mg/kg	N	J	8
K1012526	SJFCA1-LF2	K1012526-012	ICP-AES	Chromium	0.08	mg/kg		J	7,9
K1012526	SJFCA1-LF2	K1012526-012	ICP_MS	Lead	0.0269	mg/kg		J	16
K1012526	SJFCA1-LF2	K1012526-012	ICP_MS	Manganese	0.21	mg/kg	N	J	8,16
K1012526	SJFCA1-LF3	K1012526-016	ICP-AES	Aluminum	0.99	mg/kg	*	J	9
K1012526	SJFCA1-LF3	K1012526-016	ICP_MS	Barium	0.147	mg/kg	N	J	8
K1012526	SJFCA1-LF3	K1012526-016	ICP-AES	Chromium	0.14	mg/kg		J	9

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012526	SJFCA1-LF3	K1012526-016	ICP_MS	Lead	0.0377	mg/kg		J	16
K1012526	SJFCA1-LF3	K1012526-016	ICP_MS	Manganese	0.222	mg/kg	N	J	8,16
K1012526	SJFCA1-LF3	K1012526-016	ICP-AES	Vanadium	0.02	mg/kg	J	U	7
K1012526	SJFCA1-LF4	K1012526-020	ICP-AES	Aluminum	1.08	mg/kg	*	J	9
K1012526	SJFCA1-LF4	K1012526-020	ICP_MS	Barium	0.177	mg/kg	N	J	8
K1012526	SJFCA1-LF4	K1012526-020	ICP-AES	Chromium	0.02	mg/kg	J	J	7,9
K1012526	SJFCA1-LF4	K1012526-020	ICP_MS	Lead	0.009	mg/kg		J	16
K1012526	SJFCA1-LF4	K1012526-020	ICP_MS	Manganese	0.169	mg/kg	N	J	8,16
K1012526	SJFCA1-LF4	K1012526-020	ICP-AES	Vanadium	0.05	mg/kg		U	7
K1012526	SJFCA1-LF5	K1012526-024	ICP-AES	Aluminum	1.11	mg/kg	*	J	9
K1012526	SJFCA1-LF5	K1012526-024	ICP_MS	Barium	0.12	mg/kg	N	J	8
K1012526	SJFCA1-LF5	K1012526-024	ICP-AES	Chromium	0.02	mg/kg	U	UJ	7,9
K1012526	SJFCA1-LF5	K1012526-024	ICP_MS	Lead	0.0072	mg/kg		UJ	7,16
K1012526	SJFCA1-LF5	K1012526-024	ICP_MS	Manganese	0.301	mg/kg	N	J	8,16
K1012526	SJFCA1-LF5	K1012526-024	ICP-AES	Vanadium	0.03	mg/kg	J	U	7
K1012526	SJFCA1-LF6	K1012526-028	ICP-AES	Aluminum	0.67	mg/kg	*	J	9
K1012526	SJFCA1-LF6	K1012526-028	ICP_MS	Barium	0.104	mg/kg	N	J	8
K1012526	SJFCA1-LF6	K1012526-028	ICP-AES	Chromium	0.02	mg/kg	U	UJ	7,9
K1012526	SJFCA1-LF6	K1012526-028	ICP_MS	Lead	0.0102	mg/kg		J	16
K1012526	SJFCA1-LF6	K1012526-028	ICP_MS	Manganese	0.158	mg/kg	N	J	8,16
K1012526	SJFCA1-LF6	K1012526-028	ICP-AES	Vanadium	0.03	mg/kg	J	U	7
K1012526	SJFCA1-LF6-R	K1012526-032	ICP-AES	Aluminum	10.3	mg/kg	*	J	9
K1012526	SJFCA1-LF6-R	K1012526-032	ICP_MS	Barium	7.89	mg/kg	N	J	8
K1012526	SJFCA1-LF6-R	K1012526-032	ICP-AES	Chromium	0.27	mg/kg		J	9
K1012526	SJFCA1-LF6-R	K1012526-032	ICP_MS	Lead	0.109	mg/kg		J	16
K1012526	SJFCA1-LF6-R	K1012526-032	ICP_MS	Manganese	10.8	mg/kg	N	J	8,16
K1012526	SJFCA1-LF7	K1012526-036	ICP-AES	Aluminum	0.86	mg/kg	*	J	9
K1012526	SJFCA1-LF7	K1012526-036	ICP_MS	Barium	0.152	mg/kg	N	J	8
K1012526	SJFCA1-LF7	K1012526-036	ICP-AES	Chromium	0.02	mg/kg	J	J	7,9
K1012526	SJFCA1-LF7	K1012526-036	ICP_MS	Lead	0.0104	mg/kg		J	16
K1012526	SJFCA1-LF7	K1012526-036	ICP_MS	Manganese	0.238	mg/kg	N	J	8,16
K1012526	SJFCA1-LF7	K1012526-036	ICP-AES	Vanadium	0.03	mg/kg	J	U	7
K1012526	SJFCA1-LF8	K1012526-040	ICP-AES	Aluminum	0.36	mg/kg	*	J	9
K1012526	SJFCA1-LF8	K1012526-040	ICP_MS	Barium	0.143	mg/kg	N	J	8
K1012526	SJFCA1-LF8	K1012526-040	ICP-AES	Chromium	0.02	mg/kg	U	UJ	7,9
K1012526	SJFCA1-LF8	K1012526-040	ICP_MS	Lead	0.0145	mg/kg		J	16
K1012526	SJFCA1-LF8	K1012526-040	ICP_MS	Manganese	0.176	mg/kg	N	J	8,16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012526	SJFCA1-LF9	K1012526-044	ICP-AES	Aluminum	0.76	mg/kg	*	J	9
K1012526	SJFCA1-LF9	K1012526-044	ICP_MS	Barium	0.095	mg/kg	N	J	8
K1012526	SJFCA1-LF9	K1012526-044	ICP-AES	Chromium	0.02	mg/kg	U	UJ	7,9
K1012526	SJFCA1-LF9	K1012526-044	ICP_MS	Lead	0.0057	mg/kg		UJ	7,16
K1012526	SJFCA1-LF9	K1012526-044	ICP_MS	Manganese	0.124	mg/kg	N	J	8,16
K1012526	SJFCA1-LF9	K1012526-044	ICP-AES	Vanadium	0.04	mg/kg	J	U	7
K1012526	SJFCA1-LF10	K1012526-048	ICP-AES	Aluminum	1.38	mg/kg	*	J	9
K1012526	SJFCA1-LF10	K1012526-048	ICP_MS	Barium	0.107	mg/kg	N	J	8
K1012526	SJFCA1-LF10	K1012526-048	ICP-AES	Chromium	0.02	mg/kg	U	UJ	7,9
K1012526	SJFCA1-LF10	K1012526-048	ICP_MS	Lead	0.0039	mg/kg	J	UJ	7,16
K1012526	SJFCA1-LF10	K1012526-048	ICP_MS	Manganese	0.121	mg/kg	N	J	8,16
K1012526	SJFCA1-LF10	K1012526-048	ICP-AES	Vanadium	0.02	mg/kg	J	U	7
K1012526	SJFCA1-LF10-R	K1012526-052	ICP-AES	Aluminum	17.9	mg/kg	*	J	9
K1012526	SJFCA1-LF10-R	K1012526-052	ICP_MS	Barium	6.8	mg/kg	N	J	8
K1012526	SJFCA1-LF10-R	K1012526-052	ICP-AES	Chromium	0.81	mg/kg		J	9
K1012526	SJFCA1-LF10-R	K1012526-052	ICP_MS	Lead	0.136	mg/kg		J	16
K1012526	SJFCA1-LF10-R	K1012526-052	ICP_MS	Manganese	7.75	mg/kg	N	J	8,16
K1012526	Catfish-K1012526	K1012526-053	ICP-AES_CLAA	Aluminum	0.8	ug/L	J	U	7
K1012526	Catfish-K1012526	K1012526-053	ICP-AES_CLAA	Chromium	0.6	ug/L	U	UJ	7
K1012526	Catfish-K1012526	K1012526-053	ICP-AES_CLAA	Magnesium	3.4	ug/L		U	7
K1012526	Catfish-K1012526	K1012526-053	ICPMS_CLFAA	Manganese	0.11	ug/L		U	7
K1012526	Catfish-K1012526	K1012526-053	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1012526	Catfish-K1012526	K1012526-053	ICPMS_CLFAA	Nickel	0.22	ug/L		U	7
K1012530	SJFCACB-LF1	K1012530-004	ICP_MS	Barium	0.241	mg/kg	*	J	9
K1012530	SJFCACB-LF1	K1012530-004	ICP_MS	Cadmium	0.0037	mg/kg	J	J	16
K1012530	SJFCACB-LF1	K1012530-004	ICP-AES	Chromium	0.03	mg/kg	J	U	6
K1012530	SJFCACB-LF1	K1012530-004	ICP_MS	Lead	0.0723	mg/kg		U	6
K1012530	SJFCACB-LF1	K1012530-004	ICP_MS	Manganese	0.187	mg/kg	*	J	9
K1012530	SJFCACB-LF1	K1012530-004	ICP-AES	Vanadium	0.02	mg/kg	J	U	7
K1012530	SJFCACB-LF1-R	K1012530-008	ICP_MS	Barium	4.24	mg/kg	*	J	9
K1012530	SJFCACB-LF1-R	K1012530-008	ICP_MS	Cadmium	0.0042	mg/kg	J	J	16
K1012530	SJFCACB-LF1-R	K1012530-008	ICP-AES	Chromium	0.03	mg/kg	U	UJ	7
K1012530	SJFCACB-LF1-R	K1012530-008	ICP_MS	Copper	0.39	mg/kg		U	6
K1012530	SJFCACB-LF1-R	K1012530-008	ICP_MS	Lead	0.119	mg/kg		U	6
K1012530	SJFCACB-LF1-R	K1012530-008	ICP_MS	Manganese	6.16	mg/kg	*	J	9
K1012530	SJFCACB-LF2	K1012530-012	ICP_MS	Barium	0.144	mg/kg	*	J	9
K1012530	SJFCACB-LF2	K1012530-012	ICP_MS	Cadmium	0.0012	mg/kg	U	UJ	16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012530	SJFCACB-LF2	K1012530-012	ICP-AES	Chromium	0.02	mg/kg	U	UJ	7
K1012530	SJFCACB-LF2	K1012530-012	ICP_MS	Copper	0.371	mg/kg		U	6
K1012530	SJFCACB-LF2	K1012530-012	ICP_MS	Lead	0.0038	mg/kg	J	U	6
K1012530	SJFCACB-LF2	K1012530-012	ICP_MS	Manganese	0.158	mg/kg	*	J	9
K1012530	SJFCACB-LF2	K1012530-012	ICP_MS	Nickel	0.032	mg/kg	J	U	7
K1012530	SJFCACB-LF2	K1012530-012	ICP-AES	Vanadium	0.02	mg/kg	J	J	14
K1012530	SJFCACB-LF2-R	K1012530-016	ICP_MS	Barium	9.82	mg/kg	*	J	9
K1012530	SJFCACB-LF2-R	K1012530-016	ICP_MS	Cadmium	0.004	mg/kg	J	J	16
K1012530	SJFCACB-LF2-R	K1012530-016	ICP-AES	Chromium	0.1	mg/kg		U	6
K1012530	SJFCACB-LF2-R	K1012530-016	ICP_MS	Copper	0.656	mg/kg		U	6
K1012530	SJFCACB-LF2-R	K1012530-016	ICP_MS	Manganese	10	mg/kg	*	J	9
K1012530	SJFCACB-LF3	K1012530-020	ICP_MS	Barium	0.144	mg/kg	*	J	9
K1012530	SJFCACB-LF3	K1012530-020	ICP_MS	Cadmium	0.0012	mg/kg	U	UJ	16
K1012530	SJFCACB-LF3	K1012530-020	ICP-AES	Chromium	0.02	mg/kg	U	UJ	7
K1012530	SJFCACB-LF3	K1012530-020	ICP_MS	Copper	0.361	mg/kg		U	6
K1012530	SJFCACB-LF3	K1012530-020	ICP_MS	Lead	0.006	mg/kg		U	6
K1012530	SJFCACB-LF3	K1012530-020	ICP_MS	Manganese	0.164	mg/kg	*	J	9
K1012530	SJFCACB-LF3	K1012530-020	ICP_MS	Nickel	0.02	mg/kg	J	U	7
K1012530	SJFCACB-LF3	K1012530-020	ICP-AES	Vanadium	0.06	mg/kg		U	7
K1012530	SJFCACB-LF4	K1012530-024	ICP_MS	Barium	0.162	mg/kg	*	J	9
K1012530	SJFCACB-LF4	K1012530-024	ICP_MS	Cadmium	0.0011	mg/kg	U	UJ	16
K1012530	SJFCACB-LF4	K1012530-024	ICP-AES	Chromium	0.02	mg/kg	U	UJ	7
K1012530	SJFCACB-LF4	K1012530-024	ICP_MS	Copper	0.335	mg/kg		U	6
K1012530	SJFCACB-LF4	K1012530-024	ICP_MS	Lead	0.0041	mg/kg	J	U	6
K1012530	SJFCACB-LF4	K1012530-024	ICP_MS	Manganese	0.175	mg/kg	*	J	9
K1012530	SJFCACB-LF4	K1012530-024	ICP_MS	Nickel	0.014	mg/kg	J	U	7
K1012530	SJFCACB-LF4	K1012530-024	ICP-AES	Vanadium	0.02	mg/kg	J	U	7
K1012530	SJFCACB-LF4-R	K1012530-028	ICP_MS	Barium	7.2	mg/kg	*	J	9
K1012530	SJFCACB-LF4-R	K1012530-028	ICP_MS	Cadmium	0.0036	mg/kg	J	J	16
K1012530	SJFCACB-LF4-R	K1012530-028	ICP-AES	Chromium	0.08	mg/kg		U	6
K1012530	SJFCACB-LF4-R	K1012530-028	ICP_MS	Copper	0.488	mg/kg		U	6
K1012530	SJFCACB-LF4-R	K1012530-028	ICP_MS	Manganese	10.1	mg/kg	*	J	9
K1012530	SJFCACB-LF5	K1012530-032	ICP_MS	Barium	0.087	mg/kg	*	J	9
K1012530	SJFCACB-LF5	K1012530-032	ICP_MS	Cadmium	0.0011	mg/kg	U	UJ	16
K1012530	SJFCACB-LF5	K1012530-032	ICP-AES	Chromium	0.06	mg/kg		U	6
K1012530	SJFCACB-LF5	K1012530-032	ICP_MS	Manganese	0.159	mg/kg	*	J	9
K1012530	SJFCACB-LF5	K1012530-032	ICP_MS	Nickel	0.048	mg/kg		U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012530	SJFCACB-LF5	K1012530-032	ICP-AES	Vanadium	0.03	mg/kg	J	U	7
K1012530	SJFCACB-LF5-R	K1012530-036	ICP_MS	Barium	5.6	mg/kg	*	J	9
K1012530	SJFCACB-LF5-R	K1012530-036	ICP_MS	Cadmium	0.0037	mg/kg	J	J	16
K1012530	SJFCACB-LF5-R	K1012530-036	ICP_MS	Copper	0.571	mg/kg		U	6
K1012530	SJFCACB-LF5-R	K1012530-036	ICP_MS	Lead	0.117	mg/kg		U	6
K1012530	SJFCACB-LF5-R	K1012530-036	ICP_MS	Manganese	6.37	mg/kg	*	J	9
K1012530	SJFCACB-LF6	K1012530-040	ICP_MS	Barium	0.12	mg/kg	*	J	9
K1012530	SJFCACB-LF6	K1012530-040	ICP_MS	Cadmium	0.0012	mg/kg	U	UJ	16
K1012530	SJFCACB-LF6	K1012530-040	ICP-AES	Chromium	0.02	mg/kg	U	UJ	7
K1012530	SJFCACB-LF6	K1012530-040	ICP_MS	Copper	0.623	mg/kg		U	6
K1012530	SJFCACB-LF6	K1012530-040	ICP_MS	Lead	0.0097	mg/kg		U	6
K1012530	SJFCACB-LF6	K1012530-040	ICP_MS	Manganese	0.119	mg/kg	*	J	9
K1012530	SJFCACB-LF6	K1012530-040	ICP_MS	Nickel	0.026	mg/kg	J	U	7
K1012530	SJFCACB-LF6	K1012530-040	ICP-AES	Vanadium	0.05	mg/kg		U	7
K1012530	SJFCACB-LF6-R	K1012530-044	ICP_MS	Barium	6.03	mg/kg	*	J	9
K1012530	SJFCACB-LF6-R	K1012530-044	ICP_MS	Cadmium	0.0029	mg/kg	J	J	16
K1012530	SJFCACB-LF6-R	K1012530-044	ICP-AES	Chromium	0.54	mg/kg		U	6
K1012530	SJFCACB-LF6-R	K1012530-044	ICP_MS	Copper	0.41	mg/kg		U	6
K1012530	SJFCACB-LF6-R	K1012530-044	ICP_MS	Lead	0.135	mg/kg		U	6
K1012530	SJFCACB-LF6-R	K1012530-044	ICP_MS	Manganese	6.82	mg/kg	*	J	9
K1012530	SJFCACB-LF7	K1012530-048	ICP_MS	Barium	0.086	mg/kg	*	J	9
K1012530	SJFCACB-LF7	K1012530-048	ICP_MS	Cadmium	0.0011	mg/kg	U	UJ	16
K1012530	SJFCACB-LF7	K1012530-048	ICP-AES	Chromium	0.02	mg/kg	U	UJ	7
K1012530	SJFCACB-LF7	K1012530-048	ICP_MS	Copper	0.29	mg/kg		U	6
K1012530	SJFCACB-LF7	K1012530-048	ICP_MS	Lead	0.0042	mg/kg	J	U	6
K1012530	SJFCACB-LF7	K1012530-048	ICP_MS	Manganese	0.119	mg/kg	*	J	9
K1012530	SJFCACB-LF7	K1012530-048	ICP_MS	Nickel	0.019	mg/kg	J	U	6
K1012530	SJFCACB-LF7	K1012530-048	ICP-AES	Vanadium	0.02	mg/kg	J	U	7
K1012530	SJFCACB-LF8	K1012530-052	ICP_MS	Barium	0.104	mg/kg	*	J	9
K1012530	SJFCACB-LF8	K1012530-052	ICP_MS	Cadmium	0.0011	mg/kg	U	UJ	16
K1012530	SJFCACB-LF8	K1012530-052	ICP-AES	Chromium	0.02	mg/kg	U	UJ	7
K1012530	SJFCACB-LF8	K1012530-052	ICP_MS	Copper	0.345	mg/kg		U	6
K1012530	SJFCACB-LF8	K1012530-052	ICP_MS	Lead	0.0042	mg/kg	J	U	6
K1012530	SJFCACB-LF8	K1012530-052	ICP_MS	Manganese	0.146	mg/kg	*	J	9
K1012530	SJFCACB-LF8	K1012530-052	ICP_MS	Nickel	0.018	mg/kg	J	U	6
K1012530	SJFCACB-LF8	K1012530-052	ICP-AES	Vanadium	0.02	mg/kg	J	U	7
K1012530	SJFCACB-LF8-R	K1012530-056	ICP_MS	Barium	4.52	mg/kg	*	J	9

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012530	SJFCACB-LF8-R	K1012530-056	ICP_MS	Cadmium	0.154	mg/kg		J	16
K1012530	SJFCACB-LF8-R	K1012530-056	ICP-AES	Chromium	0.06	mg/kg	J	U	6
K1012530	SJFCACB-LF8-R	K1012530-056	ICP_MS	Copper	0.455	mg/kg		U	6
K1012530	SJFCACB-LF8-R	K1012530-056	ICP_MS	Manganese	6.79	mg/kg	*	J	9
K1012530	SJFCACB-LF9	K1012530-060	ICP_MS	Barium	0.128	mg/kg	*	J	9
K1012530	SJFCACB-LF9	K1012530-060	ICP_MS	Cadmium	0.0011	mg/kg	U	UJ	16
K1012530	SJFCACB-LF9	K1012530-060	ICP-AES	Chromium	0.05	mg/kg		U	6
K1012530	SJFCACB-LF9	K1012530-060	ICP_MS	Copper	0.935	mg/kg		U	6
K1012530	SJFCACB-LF9	K1012530-060	ICP_MS	Lead	0.0127	mg/kg		U	6
K1012530	SJFCACB-LF9	K1012530-060	ICP_MS	Manganese	0.135	mg/kg	*	J	9
K1012530	SJFCACB-LF9	K1012530-060	ICP_MS	Nickel	0.041	mg/kg	J	U	6
K1012530	SJFCACB-LF9	K1012530-060	ICP-AES	Vanadium	0.05	mg/kg		U	7
K1012530	SJFCACB-LF9-R	K1012530-064	ICP_MS	Barium	5.27	mg/kg	*	J	9
K1012530	SJFCACB-LF9-R	K1012530-064	ICP_MS	Cadmium	0.0049	mg/kg	J	J	16
K1012530	SJFCACB-LF9-R	K1012530-064	ICP-AES	Chromium	0.41	mg/kg		U	6
K1012530	SJFCACB-LF9-R	K1012530-064	ICP_MS	Copper	0.611	mg/kg		U	6
K1012530	SJFCACB-LF9-R	K1012530-064	ICP_MS	Lead	0.119	mg/kg		U	6
K1012530	SJFCACB-LF9-R	K1012530-064	ICP_MS	Manganese	6	mg/kg	*	J	9
K1012530	SJFCACB-LF10	K1012530-068	ICP_MS	Barium	0.084	mg/kg	*	J	9
K1012530	SJFCACB-LF10	K1012530-068	ICP_MS	Cadmium	0.001	mg/kg	U	UJ	16
K1012530	SJFCACB-LF10	K1012530-068	ICP-AES	Chromium	0.02	mg/kg	U	UJ	7
K1012530	SJFCACB-LF10	K1012530-068	ICP_MS	Copper	0.309	mg/kg		U	6
K1012530	SJFCACB-LF10	K1012530-068	ICP_MS	Lead	0.0069	mg/kg		U	6
K1012530	SJFCACB-LF10	K1012530-068	ICP_MS	Manganese	0.111	mg/kg	*	J	9
K1012530	SJFCACB-LF10	K1012530-068	ICP_MS	Nickel	0.012	mg/kg	J	U	6
K1012530	SJFCACB-LF10	K1012530-068	ICP-AES	Vanadium	0.04	mg/kg		U	7
K1012530	SJFCACB-LF10-R	K1012530-072	ICP_MS	Barium	7.31	mg/kg	*	J	9
K1012530	SJFCACB-LF10-R	K1012530-072	ICP_MS	Cadmium	0.0132	mg/kg		J	16
K1012530	SJFCACB-LF10-R	K1012530-072	ICP-AES	Chromium	0.13	mg/kg		U	6
K1012530	SJFCACB-LF10-R	K1012530-072	ICP_MS	Copper	0.419	mg/kg		U	6
K1012530	SJFCACB-LF10-R	K1012530-072	ICP_MS	Manganese	7.75	mg/kg	*	J	9
K1012530	Catfish-K1012530	K1012530-073	ICP-AES_CLAA	Aluminum	1.5	ug/L	J	U	7
K1012530	Catfish-K1012530	K1012530-073	ICPMS_CLFAA	Cadmium	0.004	ug/L	J	U	7
K1012530	Catfish-K1012530	K1012530-073	ICP-AES_CLAA	Chromium	2.1	ug/L		J	7
K1012530	Catfish-K1012530	K1012530-073	ICP-AES_CLAA	Magnesium	2.7	ug/L		U	7
K1012530	Catfish-K1012530	K1012530-073	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1012535	SJFCACB-CR1	K1012535-006	ICP_MS	Arsenic	0.54	mg/kg		J	16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012535	SJFCACB-CR1	K1012535-006	ICP_MS	Barium	0.74	mg/kg		J	16
K1012535	SJFCACB-CR1	K1012535-006	ICP_MS	Cobalt	0.0353	mg/kg		J	16
K1012535	SJFCACB-CR1	K1012535-006	ICP_MS	Manganese	1.45	mg/kg		J	16
K1012535	SJFCACB-CR1	K1012535-006	ICP_MS	Nickel	0.081	mg/kg		U	7
K1012535	SJFCACB-CR1-R	K1012535-012	ICP_MS	Arsenic	0.909	mg/kg		J	16
K1012535	SJFCACB-CR1-R	K1012535-012	ICP_MS	Barium	64.7	mg/kg		J	16
K1012535	SJFCACB-CR1-R	K1012535-012	ICP_MS	Cobalt	0.178	mg/kg		J	16
K1012535	SJFCACB-CR1-R	K1012535-012	ICP_MS	Manganese	170	mg/kg		J	16
K1012535	SJFCACB-CR1-R	K1012535-012	SW7471A	Mercury	0.004	mg/kg	J	J	7
K1012535	SJFCACB-CR2	K1012535-018	ICP_MS	Arsenic	0.538	mg/kg		J	16
K1012535	SJFCACB-CR2	K1012535-018	ICP_MS	Barium	0.609	mg/kg		J	16
K1012535	SJFCACB-CR2	K1012535-018	ICP_MS	Cobalt	0.0181	mg/kg		J	16
K1012535	SJFCACB-CR2	K1012535-018	ICP_MS	Manganese	1.3	mg/kg		J	16
K1012535	SJFCACB-CR2	K1012535-018	ICP_MS	Nickel	0.072	mg/kg		U	7
K1012535	SJFCACB-CR3	K1012535-024	ICP_MS	Arsenic	0.806	mg/kg		J	16
K1012535	SJFCACB-CR3	K1012535-024	ICP_MS	Barium	0.627	mg/kg		J	16
K1012535	SJFCACB-CR3	K1012535-024	ICP_MS	Cobalt	0.0251	mg/kg		J	16
K1012535	SJFCACB-CR3	K1012535-024	ICP_MS	Manganese	1.27	mg/kg		J	16
K1012535	SJFCACB-CR3	K1012535-024	ICP_MS	Nickel	0.072	mg/kg		U	7
K1012535	SJFCACB-CR4	K1012535-030	ICP_MS	Arsenic	0.453	mg/kg		J	16
K1012535	SJFCACB-CR4	K1012535-030	ICP_MS	Barium	0.841	mg/kg		J	16
K1012535	SJFCACB-CR4	K1012535-030	ICP_MS	Cobalt	0.0253	mg/kg		J	16
K1012535	SJFCACB-CR4	K1012535-030	ICP_MS	Manganese	1.6	mg/kg		J	16
K1012535	SJFCACB-CR4	K1012535-030	ICP_MS	Nickel	0.088	mg/kg		U	7
K1012535	SJFCACB-CR5	K1012535-036	ICP_MS	Arsenic	1.03	mg/kg		J	16
K1012535	SJFCACB-CR5	K1012535-036	ICP_MS	Barium	0.611	mg/kg		J	16
K1012535	SJFCACB-CR5	K1012535-036	ICP_MS	Cobalt	0.0289	mg/kg		J	16
K1012535	SJFCACB-CR5	K1012535-036	ICP_MS	Manganese	0.809	mg/kg		J	16
K1012535	SJFCACB-CR5	K1012535-036	ICP_MS	Nickel	0.086	mg/kg		U	7
K1012535	SJFCACB-CR6	K1012535-042	ICP_MS	Arsenic	0.515	mg/kg		J	16
K1012535	SJFCACB-CR6	K1012535-042	ICP_MS	Barium	0.683	mg/kg		J	16
K1012535	SJFCACB-CR6	K1012535-042	ICP_MS	Cobalt	0.0384	mg/kg		J	16
K1012535	SJFCACB-CR6	K1012535-042	ICP_MS	Manganese	1.78	mg/kg		J	16
K1012535	SJFCACB-CR6	K1012535-042	ICP_MS	Nickel	0.093	mg/kg		U	7
K1012535	SJFCACB-CR6-R	K1012535-048	ICP_MS	Arsenic	1.13	mg/kg		J	16
K1012535	SJFCACB-CR6-R	K1012535-048	ICP_MS	Barium	50.1	mg/kg		J	16
K1012535	SJFCACB-CR6-R	K1012535-048	ICP_MS	Cobalt	0.249	mg/kg		J	16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012535	SJFCACB-CR6-R	K1012535-048	ICP_MS	Manganese	109	mg/kg		J	16
K1012535	SJFCACB-CR6-R	K1012535-048	SW7471A	Mercury	0.0023	mg/kg	J	J	7
K1012535	SJFCACB-CR7	K1012535-054	ICP_MS	Arsenic	1.03	mg/kg		J	16
K1012535	SJFCACB-CR7	K1012535-054	ICP_MS	Barium	0.614	mg/kg		J	16
K1012535	SJFCACB-CR7	K1012535-054	ICP_MS	Cobalt	0.0356	mg/kg		J	16
K1012535	SJFCACB-CR7	K1012535-054	ICP_MS	Manganese	1.16	mg/kg		J	16
K1012535	SJFCACB-CR7	K1012535-054	ICP_MS	Nickel	0.092	mg/kg		U	7
K1012535	SJFCACB-CR8	K1012535-060	ICP_MS	Arsenic	0.475	mg/kg		J	16
K1012535	SJFCACB-CR8	K1012535-060	ICP_MS	Barium	0.383	mg/kg		J	16
K1012535	SJFCACB-CR8	K1012535-060	ICP_MS	Cobalt	0.0228	mg/kg		J	16
K1012535	SJFCACB-CR8	K1012535-060	ICP_MS	Manganese	0.948	mg/kg		J	16
K1012535	SJFCACB-CR8	K1012535-060	ICP_MS	Nickel	0.066	mg/kg		U	7
K1012535	SJFCACB-CR9	K1012535-066	ICP_MS	Arsenic	0.545	mg/kg		J	16
K1012535	SJFCACB-CR9	K1012535-066	ICP_MS	Barium	0.307	mg/kg		J	16
K1012535	SJFCACB-CR9	K1012535-066	ICP_MS	Cobalt	0.0127	mg/kg		J	16
K1012535	SJFCACB-CR9	K1012535-066	ICP_MS	Manganese	0.585	mg/kg		J	16
K1012535	SJFCACB-CR9	K1012535-066	ICP_MS	Nickel	0.058	mg/kg		U	7
K1012535	SJFCACB-CR10	K1012535-072	ICP_MS	Arsenic	0.448	mg/kg		J	16
K1012535	SJFCACB-CR10	K1012535-072	ICP_MS	Barium	0.441	mg/kg		J	16
K1012535	SJFCACB-CR10	K1012535-072	ICP_MS	Cobalt	0.0181	mg/kg		J	16
K1012535	SJFCACB-CR10	K1012535-072	ICP_MS	Manganese	0.806	mg/kg		J	16
K1012535	SJFCACB-CR10	K1012535-072	ICP_MS	Nickel	0.066	mg/kg		U	7
K1012535	SJFCACB-CR10-R	K1012535-078	ICP_MS	Arsenic	0.864	mg/kg		J	16
K1012535	SJFCACB-CR10-R	K1012535-078	ICP_MS	Barium	92.6	mg/kg		J	16
K1012535	SJFCACB-CR10-R	K1012535-078	ICP_MS	Cobalt	0.176	mg/kg		J	16
K1012535	SJFCACB-CR10-R	K1012535-078	ICP_MS	Manganese	134	mg/kg		J	16
K1012535	SJFCACB-CR10-R	K1012535-078	SW7471A	Mercury	0.0036	mg/kg	J	J	7
K1012535	Crab-K1012535	K1012535-080	ICP-AES_CLAA	Aluminum	0.8	ug/L	J	U	7
K1012535	Crab-K1012535	K1012535-080	ICP-AES_CLAA	Chromium	0.6	ug/L	U	UJ	7
K1012535	Crab-K1012535	K1012535-080	ICP-AES_CLAA	Magnesium	1.4	ug/L	J	U	7
K1012535	Crab-K1012535	K1012535-080	ICPMS_CLFAA	Manganese	0.05	ug/L		U	7
K1012535	Crab-K1012535	K1012535-080	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1012535	Crab-K1012535	K1012535-080	ICPMS_CLFAA	Nickel	0.13	ug/L	J	U	7
K1012540	SJFCA2-CR1	K1012540-006	ICP_MS	Copper	15.4	mg/kg	N	J	8
K1012540	SJFCA2-CR1	K1012540-006	ICP_MS	Nickel	0.135	mg/kg		U	7
K1012540	SJFCA2-CR1-R	K1012540-012	ICP_MS	Copper	21.1	mg/kg	N	J	8
K1012540	SJFCA2-CR1-R	K1012540-012	SW7471A	Mercury	0.0063	mg/kg	J	J	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012540	SJFCA2-CR2	K1012540-018	ICP_MS	Copper	11.5	mg/kg	N	J	8
K1012540	SJFCA2-CR2	K1012540-018	ICP_MS	Nickel	0.062	mg/kg		U	7
K1012540	SJFCA2-CR3	K1012540-024	ICP_MS	Copper	11.9	mg/kg	N	J	8
K1012540	SJFCA2-CR3	K1012540-024	ICP_MS	Nickel	0.052	mg/kg		U	7
K1012540	SJFCA2-CR4	K1012540-030	ICP_MS	Copper	9.7	mg/kg	N	J	8
K1012540	SJFCA2-CR4	K1012540-030	ICP_MS	Nickel	0.073	mg/kg		U	7
K1012540	SJFCA2-CR5	K1012540-036	ICP_MS	Copper	7.66	mg/kg	N	J	8
K1012540	SJFCA2-CR5	K1012540-036	ICP_MS	Nickel	0.106	mg/kg		U	7
K1012540	SJFCA2-CR6	K1012540-042	ICP_MS	Copper	11.4	mg/kg	N	J	8
K1012540	SJFCA2-CR6	K1012540-042	ICP_MS	Nickel	0.09	mg/kg		U	7
K1012540	SJFCA2-CR6-R	K1012540-048	ICP_MS	Copper	13.6	mg/kg	N	J	8
K1012540	SJFCA2-CR6-R	K1012540-048	SW7471A	Mercury	0.0056	mg/kg	J	J	7
K1012540	SJFCA2-CR7	K1012540-054	ICP_MS	Copper	9.82	mg/kg	N	J	8
K1012540	SJFCA2-CR7	K1012540-054	ICP_MS	Lead	0.0042	mg/kg		U	7
K1012540	SJFCA2-CR7	K1012540-054	ICP_MS	Nickel	0.054	mg/kg		U	7
K1012540	SJFCA2-CR8	K1012540-060	ICP_MS	Copper	7.06	mg/kg	N	J	8
K1012540	SJFCA2-CR8	K1012540-060	ICP_MS	Nickel	0.079	mg/kg		U	7
K1012540	SJFCA2-CR9	K1012540-066	ICP_MS	Copper	10	mg/kg	N	J	8
K1012540	SJFCA2-CR9	K1012540-066	ICP_MS	Lead	0.0039	mg/kg		U	7
K1012540	SJFCA2-CR9	K1012540-066	ICP_MS	Nickel	0.044	mg/kg		U	7
K1012540	SJFCA2-CR10	K1012540-072	ICP_MS	Copper	9.29	mg/kg	N	J	8
K1012540	SJFCA2-CR10	K1012540-072	ICP_MS	Lead	0.0038	mg/kg		U	7
K1012540	SJFCA2-CR10	K1012540-072	ICP_MS	Nickel	0.068	mg/kg		U	7
K1012540	SJFCA2-CR10-R	K1012540-078	ICP_MS	Copper	17	mg/kg	N	J	8
K1012540	SJFCA2-CR10-R	K1012540-078	SW7471A	Mercury	0.0066	mg/kg	J	J	7
K1012540	Crab-K1012540	K1012540-079	ICP-AES_CLAA	Aluminum	1.1	ug/L	J	U	7
K1012540	Crab-K1012540	K1012540-079	ICP-AES_CLAA	Chromium	0.6	ug/L	U	UJ	7
K1012540	Crab-K1012540	K1012540-079	ICPMS_CLFAA	Cobalt	0.004	ug/L	J	U	7
K1012540	Crab-K1012540	K1012540-079	ICP-AES_CLAA	Magnesium	1.2	ug/L	J	U	7
K1012540	Crab-K1012540	K1012540-079	ICPMS_CLFAA	Manganese	0.09	ug/L		U	7
K1012540	Crab-K1012540	K1012540-079	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1012540	Crab-K1012540	K1012540-079	ICPMS_CLFAA	Nickel	0.19	ug/L	J	U	7
K1012541	SJFCA3-CR1	K1012541-006	ICP-AES	Chromium	0.06	mg/kg		U	6
K1012541	SJFCA3-CR1	K1012541-006	ICP_MS	Lead	0.0215	mg/kg	*	J	9
K1012541	SJFCA3-CR1	K1012541-006	ICP_MS	Nickel	0.098	mg/kg		U	6
K1012541	SJFCA3-CR1-R	K1012541-012	ICP_MS	Lead	0.119	mg/kg	*	J	9
K1012541	SJFCA3-CR2	K1012541-017	ICP-AES	Chromium	0.03	mg/kg	J	U	6

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012541	SJFCA3-CR2	K1012541-017	ICP_MS	Lead	0.0103	mg/kg	*	J	9
K1012541	SJFCA3-CR2	K1012541-017	ICP_MS	Nickel	0.048	mg/kg		U	7
K1012541	SJFCA3-CR3	K1012541-023	ICP-AES	Chromium	0.02	mg/kg	J	U	6
K1012541	SJFCA3-CR3	K1012541-023	ICP_MS	Lead	0.0088	mg/kg	*	UJ	6,9
K1012541	SJFCA3-CR3	K1012541-023	ICP_MS	Nickel	0.043	mg/kg		U	7
K1012541	SJFCA3-CR4	K1012541-028	ICP-AES	Chromium	0.03	mg/kg	J	U	6
K1012541	SJFCA3-CR4	K1012541-028	ICP_MS	Lead	0.0138	mg/kg	*	J	9
K1012541	SJFCA3-CR4	K1012541-028	ICP_MS	Nickel	0.049	mg/kg		U	7
K1012541	SJFCA3-CR5	K1012541-034	ICP-AES	Chromium	0.02	mg/kg	J	U	6
K1012541	SJFCA3-CR5	K1012541-034	ICP_MS	Lead	0.01	mg/kg	*	J	9
K1012541	SJFCA3-CR5	K1012541-034	ICP_MS	Nickel	0.056	mg/kg		U	7
K1012541	SJFCA3-CR6	K1012541-039	ICP-AES	Chromium	0.03	mg/kg	J	U	6
K1012541	SJFCA3-CR6	K1012541-039	ICP_MS	Lead	0.0101	mg/kg	*	J	9
K1012541	SJFCA3-CR6	K1012541-039	ICP_MS	Nickel	0.054	mg/kg		U	7
K1012541	SJFCA3-CR6-R	K1012541-044	ICP_MS	Lead	0.114	mg/kg	*	J	9
K1012541	SJFCA3-CR7	K1012541-050	ICP-AES	Chromium	0.07	mg/kg		U	6
K1012541	SJFCA3-CR7	K1012541-050	ICP_MS	Lead	0.0111	mg/kg	*	J	9
K1012541	SJFCA3-CR7	K1012541-050	ICP_MS	Nickel	0.08	mg/kg		U	6
K1012541	SJFCA3-CR8	K1012541-055	ICP_MS	Lead	0.0138	mg/kg	*	J	9
K1012541	SJFCA3-CR8	K1012541-055	ICP_MS	Nickel	0.05	mg/kg		U	7
K1012541	SJFCA3-CR9	K1012541-061	ICP-AES	Chromium	0.08	mg/kg		U	6
K1012541	SJFCA3-CR9	K1012541-061	ICP_MS	Lead	0.0199	mg/kg	*	J	9
K1012541	SJFCA3-CR9	K1012541-061	ICP_MS	Nickel	0.1	mg/kg		U	6
K1012541	SJFCA3-CR10	K1012541-067	ICP-AES	Chromium	0.02	mg/kg	J	U	6
K1012541	SJFCA3-CR10	K1012541-067	ICP_MS	Lead	0.0037	mg/kg	J,*	UJ	6,9
K1012541	SJFCA3-CR10	K1012541-067	ICP_MS	Nickel	0.049	mg/kg		U	7
K1012541	SJFCA3-CR10-R	K1012541-073	ICP_MS	Lead	0.245	mg/kg	*	J	9
K1012541	Crab-K1012541	K1012541-074	ICP-AES_CLAA	Aluminum	8	ug/L		U	7
K1012541	Crab-K1012541	K1012541-074	ICPMS_CLFAA	Cadmium	0.005	ug/L	J	U	7
K1012541	Crab-K1012541	K1012541-074	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1012545	SJFCA1-CR1	K1012545-006	ICP_MS	Arsenic	0.646	mg/kg		J	16
K1012545	SJFCA1-CR1	K1012545-006	ICP_MS	Barium	0.738	mg/kg		J	16
K1012545	SJFCA1-CR1	K1012545-006	ICP_MS	Cobalt	0.0124	mg/kg		J	16
K1012545	SJFCA1-CR1	K1012545-006	ICP_MS	Manganese	2.85	mg/kg		J	16
K1012545	SJFCA1-CR1	K1012545-006	ICP_MS	Nickel	0.074	mg/kg		U	7
K1012545	SJFCA1-CR1-R	K1012545-012	ICP_MS	Arsenic	0.827	mg/kg		J	16
K1012545	SJFCA1-CR1-R	K1012545-012	ICP_MS	Barium	90	mg/kg		J	16

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012545	SJFCA1-CR1-R	K1012545-012	ICP_MS	Cobalt	0.169	mg/kg		J	16
K1012545	SJFCA1-CR1-R	K1012545-012	ICP_MS	Manganese	270	mg/kg		J	16
K1012545	SJFCA1-CR2	K1012545-018	ICP_MS	Arsenic	0.484	mg/kg		J	16
K1012545	SJFCA1-CR2	K1012545-018	ICP_MS	Barium	1.3	mg/kg		J	16
K1012545	SJFCA1-CR2	K1012545-018	ICP_MS	Cobalt	0.0112	mg/kg		J	16
K1012545	SJFCA1-CR2	K1012545-018	ICP_MS	Manganese	4.33	mg/kg		J	16
K1012545	SJFCA1-CR2	K1012545-018	ICP_MS	Nickel	0.057	mg/kg		U	7
K1012545	SJFCA1-CR3	K1012545-024	ICP_MS	Arsenic	0.461	mg/kg		J	16
K1012545	SJFCA1-CR3	K1012545-024	ICP_MS	Barium	1.44	mg/kg		J	16
K1012545	SJFCA1-CR3	K1012545-024	ICP_MS	Cobalt	0.012	mg/kg		J	16
K1012545	SJFCA1-CR3	K1012545-024	ICP_MS	Manganese	7	mg/kg		J	16
K1012545	SJFCA1-CR3	K1012545-024	ICP_MS	Nickel	0.104	mg/kg		U	7
K1012545	SJFCA1-CR4	K1012545-030	ICP_MS	Arsenic	0.404	mg/kg		J	16
K1012545	SJFCA1-CR4	K1012545-030	ICP_MS	Barium	0.827	mg/kg		J	16
K1012545	SJFCA1-CR4	K1012545-030	ICP_MS	Cobalt	0.0095	mg/kg		J	16
K1012545	SJFCA1-CR4	K1012545-030	ICP_MS	Manganese	3.74	mg/kg		J	16
K1012545	SJFCA1-CR4	K1012545-030	ICP_MS	Nickel	0.09	mg/kg		U	7
K1012545	SJFCA1-CR5	K1012545-036	ICP_MS	Arsenic	0.445	mg/kg		J	16
K1012545	SJFCA1-CR5	K1012545-036	ICP_MS	Barium	1.08	mg/kg		J	16
K1012545	SJFCA1-CR5	K1012545-036	ICP_MS	Cobalt	0.0103	mg/kg		J	16
K1012545	SJFCA1-CR5	K1012545-036	ICP_MS	Manganese	3.74	mg/kg		J	16
K1012545	SJFCA1-CR5	K1012545-036	ICP_MS	Nickel	0.079	mg/kg		U	7
K1012545	SJFCA1-CR6	K1012545-042	ICP_MS	Arsenic	0.366	mg/kg		J	16
K1012545	SJFCA1-CR6	K1012545-042	ICP_MS	Barium	1.57	mg/kg		J	16
K1012545	SJFCA1-CR6	K1012545-042	ICP_MS	Cobalt	0.0103	mg/kg		J	16
K1012545	SJFCA1-CR6	K1012545-042	ICP_MS	Manganese	3.57	mg/kg		J	16
K1012545	SJFCA1-CR6	K1012545-042	ICP_MS	Nickel	0.09	mg/kg		U	7
K1012545	SJFCA1-CR6-R	K1012545-048	ICP_MS	Copper	9.99	mg/kg	N	J	8
K1012545	SJFCA1-CR7	K1012545-054	ICP_MS	Copper	10.6	mg/kg	N	J	8
K1012545	SJFCA1-CR7	K1012545-054	ICP_MS	Nickel	0.076	mg/kg		U	7
K1012545	SJFCA1-CR8	K1012545-060	ICP_MS	Copper	10.3	mg/kg	N	J	8
K1012545	SJFCA1-CR8	K1012545-060	ICP_MS	Nickel	0.108	mg/kg		U	7
K1012545	SJFCA1-CR9	K1012545-066	ICP_MS	Copper	9.85	mg/kg	N	J	8
K1012545	SJFCA1-CR9	K1012545-066	ICP_MS	Lead	0.0044	mg/kg		U	7
K1012545	SJFCA1-CR9	K1012545-066	ICP_MS	Nickel	0.076	mg/kg		U	7
K1012545	SJFCA1-CR10	K1012545-072	ICP_MS	Copper	12.8	mg/kg	N	J	8
K1012545	SJFCA1-CR10	K1012545-072	ICP_MS	Nickel	0.085	mg/kg		U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012545	SJFCA1-CR10-R	K1012545-078	ICP_MS	Copper	15.4	mg/kg	N	J	8
K1012545	SJFCA1-CR10-R	K1012545-078	SW7471A	Mercury	0.0016	mg/kg	U	UJ	7
K1012545	Crab-K1012545	K1012545-079	ICP-AES_CLAA	Aluminum	1.6	ug/L	J	U	7
K1012545	Crab-K1012545	K1012545-079	ICP-AES_CLAA	Chromium	0.6	ug/L	U	UJ	7
K1012545	Crab-K1012545	K1012545-079	ICPMS_CLFAA	Copper	0.04	ug/L	J	U	7
K1012545	Crab-K1012545	K1012545-079	ICP-AES_CLAA	Magnesium	0.5	ug/L	J	U	7
K1012545	Crab-K1012545	K1012545-079	ICPMS_CLFAA	Manganese	0.02	ug/L	J	U	7
K1012545	Crab-K1012545	K1012545-079	SW7470A	Mercury	0.02	ug/L	U	UJ	7
K1010961	CL-TTR3-001	K1010961-001	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	2.7	ng/kg	JK	U	22
K1010961	CL-TTR3-001	K1010961-001	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	2.67	ng/kg	JK	U	22
K1010961	CL-TTR3-001	K1010961-001	EPA1668A	2,5-Dichlorobiphenyl	11.6	ng/kg	JK	U	22
K1010961	CL-TTR3-001	K1010961-001	EPA1668A	3,3'-Dichlorobiphenyl	177	ng/kg	B	U	7
K1010961	CL-TTR3-001	K1010961-001	EPA1668A	4-Chlorobiphenyl	13.8	ng/kg	BJ	U	7
K1010961	CL-TTR3-001	K1010961-001	EPA1668A	Coelution of PCB 108 and 124	154	ng/kg	BJK	U	22
K1010961	CL-TTR3-002	K1010961-002	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	8.84	ng/kg	JK	U	22
K1010961	CL-TTR3-002	K1010961-002	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	14.1	ng/kg	JK	U	22
K1010961	CL-TTR3-002	K1010961-002	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	2.32	ng/kg	JK	U	22
K1010961	CL-TTR3-002	K1010961-002	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	32.6	ng/kg	JK	U	22
K1010961	CL-TTR3-002	K1010961-002	EPA1668A	2,3,3',4-Tetrachlorobiphenyl	13.2	ng/kg	JK	U	22
K1010961	CL-TTR3-002	K1010961-002	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	125	ng/kg	BJK	U	22
K1010961	CL-TTR3-002	K1010961-002	EPA1668A	2,3,4'-Trichlorobiphenyl	72.7	ng/kg	BJ	U	7
K1010961	CL-TTR3-002	K1010961-002	EPA1668A	3,3'-Dichlorobiphenyl	189	ng/kg	B	U	7
K1010961	CL-TTR3-002	K1010961-002	EPA1668A	3,4,4'-Trichlorobiphenyl	52.7	ng/kg	BJ	U	7
K1010961	CL-TTR3-002	K1010961-002	EPA1668A	4-Chlorobiphenyl	8.18	ng/kg	BJ	U	7
K1010961	CL-TTR3-002	K1010961-002	EPA1668A	Coelution of PCB 043 and 073	16.9	ng/kg	JK	U	22
K1010961	CL-TTR3-003	K1010961-003	EPA1668A	2,3,3',4-Tetrachlorobiphenyl	12.2	ng/kg	JK	U	22
K1010961	CL-TTR3-003	K1010961-003	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	17.6	ng/kg	JK	U	22
K1010961	CL-TTR3-003	K1010961-003	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	9.19	ng/kg	JK	U	22
K1010961	CL-TTR3-003	K1010961-003	EPA1668A	2,3,4'-Trichlorobiphenyl	70.5	ng/kg	BJ	U	7
K1010961	CL-TTR3-003	K1010961-003	EPA1668A	2,4',6-Trichlorobiphenyl	48.4	ng/kg	BJ	U	7
K1010961	CL-TTR3-003	K1010961-003	EPA1668A	3,3',4-Trichlorobiphenyl	3.36	ng/kg	JK	U	22
K1010961	CL-TTR3-003	K1010961-003	EPA1668A	3,3'-Dichlorobiphenyl	184	ng/kg	BJ	U	7
K1010961	CL-TTR3-003	K1010961-003	EPA1668A	3,4,4'-Trichlorobiphenyl	47.7	ng/kg	BJ	U	7
K1010961	CL-TTR3-003	K1010961-003	EPA1668A	3-Chlorobiphenyl	2.06	ng/kg	JK	U	22
K1010961	CL-TTR3-003	K1010961-003	EPA1668A	4-Chlorobiphenyl	6.63	ng/kg	BJ	U	7
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	97.4	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	2.65	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	15.8	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	4.37	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	2.04	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	114	ng/kg	BJK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	15.2	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	2,3,4'-Trichlorobiphenyl	78.9	ng/kg	BJ	U	7
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	17.7	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	2,3,6-Trichlorobiphenyl	1.78	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	2,5-Dichlorobiphenyl	10.1	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	2,6-Dichlorobiphenyl	4.47	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	3.84	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	3,3'-Dichlorobiphenyl	208	ng/kg	B	U	7
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	3.05	ng/kg	JK	U	22
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	3,4,4'-Trichlorobiphenyl	52.2	ng/kg	BJ	U	7
K1010961	CL-TTR3-004	K1010961-004	EPA1668A	4-Chlorobiphenyl	8.15	ng/kg	BJ	U	7
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	80.9	ng/kg	JK	U	22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	61.8	ng/kg	JK	U	22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	5.51	ng/kg	JK	U	22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	74.4	ng/kg	BJK	U	22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	9.67	ng/kg	BJK	U	22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	97.7	ng/kg	BJ	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	240	ng/kg	BJ	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	7.28	ng/kg	JK	UJ	13,22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	232	ng/kg	B	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	245	ng/kg	BJ	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	902	ng/kg	B	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	13.4	ng/kg	J	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	9.57	ng/kg	J	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	40.2	ng/kg	J	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',4,5',6-Pentachlorobiphenyl	34.6	ng/kg	J	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	106	ng/kg	BJ	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	1370	ng/kg	B	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	11.1	ng/kg	JK	U	22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	436	ng/kg	B	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	10.6	ng/kg	U	UJ	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,3',4',5-Pentachlorobiphenyl	92.8	ng/kg	BJ	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,3',4,5-Pentachlorobiphenyl	9.43	ng/kg	U	UJ	13

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	254	ng/kg	B	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,3',4-Tetrachlorobiphenyl	5.21	ng/kg	U	UJ	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	6	ng/kg	U	UJ	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,3',5,6-Pentachlorobiphenyl	5.42	ng/kg	U	UJ	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	4.61	ng/kg	U	UJ	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	4.47	ng/kg	U	UJ	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3',4,4'-Tetrachlorobiphenyl	779	ng/kg	B	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,4,4'-Tetrachlorobiphenyl	47.4	ng/kg	BJ	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	13.3	ng/kg	J	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3',4,5',6-Pentachlorobiphenyl	6.13	ng/kg	U	UJ	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	31.5	ng/kg	BJK	UJ	13,22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	21	ng/kg	J	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	4.14	ng/kg	U	UJ	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,4',5-Tetrachlorobiphenyl	26.9	ng/kg	J	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	375	ng/kg	B	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3,4'-Trichlorobiphenyl	67	ng/kg	BJ	U	7
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	19.5	ng/kg	J	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	2-Chlorobiphenyl	14	ng/kg	BJK	U	22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	3,3',4,4',5,5'-Hexachlorobiphenyl	34.4	ng/kg	JK	U	22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	26.3	ng/kg	JK	U	22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	104	ng/kg	BJ	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	3,3',4,5,5'-Pentachlorobiphenyl	10.7	ng/kg	U	UJ	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	6.22	ng/kg	JK	UJ	13,22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	3,3',4,5-Tetrachlorobiphenyl	6.41	ng/kg	U	UJ	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	3,3',5,5'-Tetrachlorobiphenyl	5.64	ng/kg	U	UJ	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	3,3'-Dichlorobiphenyl	196	ng/kg	B	U	7
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	15.9	ng/kg	JK	U	22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	4,4'-Dichlorobiphenyl	73.8	ng/kg	BJ	U	7
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	4-Chlorobiphenyl	4.93	ng/kg	BJK	U	22
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 040, 041, and 071	376	ng/kg	BJ	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 043 and 073	18.7	ng/kg	J	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 044, 047, and 065	1050	ng/kg	B	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 045 and 051	146	ng/kg	BJ	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 049 and 069	800	ng/kg	B	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 050 and 053	530	ng/kg	B	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 059, 062, and 075	87.6	ng/kg	BJ	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 061, 070, 074, and 076	1210	ng/kg	B	J	13

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 083 and 099	1030	ng/kg	B	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 085 and 116	165	ng/kg	BJ	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	589	ng/kg	B	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 088 and 091	241	ng/kg	BJ	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 090, 101, and 113	1280	ng/kg	B	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 093 and 100	43.2	ng/kg	J	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 098 and 102	51.1	ng/kg	J	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 108 and 124	35.3	ng/kg	BJ	J	13
K1010961	CL-TTR4-001	K1010961-005	EPA1668A	Coelution of PCB 110 and 115	1310	ng/kg	B	J	13
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	8.5	ng/kg	BJK	U	22
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	12.6	ng/kg	JK	U	22
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	7.15	ng/kg	JK	U	22
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	1.35	ng/kg	JK	U	22
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	3.91	ng/kg	JK	U	22
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	6.68	ng/kg	JK	U	22
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	1.5	ng/kg	JK	U	22
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	15.4	ng/kg	BJK	U	22
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	8.14	ng/kg	JK	U	22
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	2,3,4'-Trichlorobiphenyl	81.2	ng/kg	BJ	U	7
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	2-Chlorobiphenyl	12.7	ng/kg	BJ	U	7
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	3,3',4,4',5,5'-Hexachlorobiphenyl	4.58	ng/kg	JK	U	22
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	5.88	ng/kg	JK	U	22
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	3,3'-Dichlorobiphenyl	207	ng/kg	B	U	7
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	4,4'-Dichlorobiphenyl	75.2	ng/kg	BJ	U	7
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	4-Chlorobiphenyl	3.24	ng/kg	BJ	U	7
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	Coelution of PCB 043 and 073	15.6	ng/kg	JK	U	22
K1010961	CL-TTR4-002	K1010961-006	EPA1668A	Coelution of PCB 108 and 124	27.1	ng/kg	BJK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	11.9	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	7.19	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	9.13	ng/kg	BJK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	1.76	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	2.17	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	7.49	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,2',3-Trichlorobiphenyl	37.6	ng/kg	BJ	U	7
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	1.18	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	5.02	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	2.96	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	1.77	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	24.7	ng/kg	BJK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	11.4	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	6.48	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,3,4'-Trichlorobiphenyl	65.3	ng/kg	BJ	U	7
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,3,6-Trichlorobiphenyl	1.85	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2,4',6-Trichlorobiphenyl	53.2	ng/kg	BJ	U	7
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	2-Chlorobiphenyl	14.9	ng/kg	BJ	U	7
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	4.26	ng/kg	JK	U	22
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	3,3'-Dichlorobiphenyl	172	ng/kg	BJ	U	7
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	3,4,4'-Trichlorobiphenyl	45	ng/kg	BJ	U	7
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	4,4'-Dichlorobiphenyl	60	ng/kg	BJ	U	7
K1010961	CL-TTR4-003	K1010961-007	EPA1668A	4-Chlorobiphenyl	3.85	ng/kg	BJ	U	7
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	2,2',3-Trichlorobiphenyl	35.4	ng/kg	BJ	U	7
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	3.51	ng/kg	JK	U	22
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	11.3	ng/kg	JK	U	22
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	13.4	ng/kg	JK	U	22
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	2,3,4'-Trichlorobiphenyl	66.5	ng/kg	BJ	U	7
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	2,4',6-Trichlorobiphenyl	50.3	ng/kg	BJ	U	7
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	2-Chlorobiphenyl	14.8	ng/kg	BJ	U	7
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	2.65	ng/kg	JK	U	22
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	3,3',4-Trichlorobiphenyl	3.18	ng/kg	JK	U	22
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	3,3'-Dichlorobiphenyl	181	ng/kg	B	U	7
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	3,4,4'-Trichlorobiphenyl	48.8	ng/kg	BJ	U	7
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	3-Chlorobiphenyl	1.14	ng/kg	JK	U	22
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	4,4'-Dichlorobiphenyl	61.8	ng/kg	BJ	U	7
K1010961	CL-TTR4-004	K1010961-008	EPA1668A	4-Chlorobiphenyl	3.28	ng/kg	BJ	U	7
K1011127	BBSH-901	K1011127-001	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	11.5	ng/kg	JK	U	22
K1011127	BBSH-901	K1011127-001	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	6.93	ng/kg	JK	U	22
K1011127	BBSH-901	K1011127-001	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	3.96	ng/kg	JK	U	22
K1011127	BBSH-901	K1011127-001	EPA1668A	2,2',3-Trichlorobiphenyl	143	ng/kg	B	UJ	7,13
K1011127	BBSH-901	K1011127-001	EPA1668A	2,2',4-Trichlorobiphenyl	397	ng/kg	B	J	13
K1011127	BBSH-901	K1011127-001	EPA1668A	2,2',6-Trichlorobiphenyl	21.6	ng/kg	JK	UJ	13,22
K1011127	BBSH-901	K1011127-001	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	15.5	ng/kg	JK	U	22
K1011127	BBSH-901	K1011127-001	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	15.5	ng/kg	JK	U	22
K1011127	BBSH-901	K1011127-001	EPA1668A	2,3',4,5',6-Pentachlorobiphenyl	6.69	ng/kg	JK	U	22
K1011127	BBSH-901	K1011127-001	EPA1668A	2,3',4-Trichlorobiphenyl	155	ng/kg	J	J	13

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011127	BBSH-901	K1011127-001	EPA1668A	2,3,4'-Trichlorobiphenyl	388	ng/kg		J	13
K1011127	BBSH-901	K1011127-001	EPA1668A	2,3',5'-Trichlorobiphenyl	10.8	ng/kg	J	J	13
K1011127	BBSH-901	K1011127-001	EPA1668A	2,3,5-Trichlorobiphenyl	6.02	ng/kg	U	UJ	13
K1011127	BBSH-901	K1011127-001	EPA1668A	2,3',6-Trichlorobiphenyl	75.6	ng/kg	J	J	13
K1011127	BBSH-901	K1011127-001	EPA1668A	2,3,6-Trichlorobiphenyl	7.38	ng/kg	JK	UJ	13,22
K1011127	BBSH-901	K1011127-001	EPA1668A	2,4',5-Trichlorobiphenyl	1110	ng/kg	B	J	13
K1011127	BBSH-901	K1011127-001	EPA1668A	2,4',6-Trichlorobiphenyl	213	ng/kg	B	J	13
K1011127	BBSH-901	K1011127-001	EPA1668A	2,5-Dichlorobiphenyl	5.92	ng/kg	JK	U	22
K1011127	BBSH-901	K1011127-001	EPA1668A	3,3',4-Trichlorobiphenyl	5.64	ng/kg	U	UJ	13
K1011127	BBSH-901	K1011127-001	EPA1668A	3,3',5-Trichlorobiphenyl	4.79	ng/kg	U	UJ	13
K1011127	BBSH-901	K1011127-001	EPA1668A	3,3'-Dichlorobiphenyl	161	ng/kg	BJ	U	7
K1011127	BBSH-901	K1011127-001	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	3.71	ng/kg	JK	U	22
K1011127	BBSH-901	K1011127-001	EPA1668A	3,4',5-Trichlorobiphenyl	5.44	ng/kg	U	UJ	13
K1011127	BBSH-901	K1011127-001	EPA1668A	3,4,5-Trichlorobiphenyl	5.48	ng/kg	U	UJ	13
K1011127	BBSH-901	K1011127-001	EPA1668A	Coelution of PCB 018 and 030	494	ng/kg	B	J	13
K1011127	BBSH-901	K1011127-001	EPA1668A	Coelution of PCB 020 and 028	1280	ng/kg	B	J	13
K1011127	BBSH-901	K1011127-001	EPA1668A	Coelution of PCB 021 and 033	555	ng/kg	B	J	13
K1011127	BBSH-901	K1011127-001	EPA1668A	Coelution of PCB 026 and 029	267	ng/kg		J	13
K1011127	BBCK-902	K1011127-002	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	7.06	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	2,2',4-Trichlorobiphenyl	2.29	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	9.7	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	7.08	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	2.07	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	2,4',5-Trichlorobiphenyl	5.12	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	3,3'-Dichlorobiphenyl	98.1	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	Coelution of PCB 018 and 030	4.65	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	Coelution of PCB 020 and 028	7.01	ng/kg	BJK	U	22
K1011127	BBCK-902	K1011127-002	EPA1668A	Coelution of PCB 021 and 033	2.93	ng/kg	BJK	U	22
K1011127	BBCK-902	K1011127-002	EPA1668A	Coelution of PCB 045 and 051	1.78	ng/kg	JK	U	22
K1011127	BBCK-902	K1011127-002	EPA1668A	Coelution of PCB 049 and 069	4.23	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	Coelution of PCB 061, 070, 074, and 076	7.48	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	5.51	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	Coelution of PCB 090, 101, and 113	9.61	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	Coelution of PCB 110 and 115	7.7	ng/kg	BJK	U	22
K1011127	BBCK-902	K1011127-002	EPA1668A	Coelution of PCB 129, 138, and 163	8.01	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	Coelution of PCB 147 and 149	4.94	ng/kg	BJ	U	7
K1011127	BBCK-902	K1011127-002	EPA1668A	Coelution of PCB 153 and 168	5.65	ng/kg	BJK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011127	BBMU-903	K1011127-003	EPA1668A	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	6.1	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	2.2	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	2.02	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	2,2',3-Trichlorobiphenyl	3.51	ng/kg	BJK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.14	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	2.73	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	2,2',4-Trichlorobiphenyl	5.71	ng/kg	BJ	U	7
K1011127	BBMU-903	K1011127-003	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	1.43	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	2,3,3',5,5',6-Hexachlorobiphenyl	2.02	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	5.67	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	7.96	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	6.21	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	2,3,4'-Trichlorobiphenyl	5.74	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	4.3	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	2,4',6-Trichlorobiphenyl	4.81	ng/kg	BJK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	3,3'-Dichlorobiphenyl	101	ng/kg	BJ	U	7
K1011127	BBMU-903	K1011127-003	EPA1668A	Coelution of PCB 018 and 030	16.4	ng/kg	BJ	U	7
K1011127	BBMU-903	K1011127-003	EPA1668A	Coelution of PCB 021 and 033	5.02	ng/kg	BJK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	Coelution of PCB 098 and 102	3.39	ng/kg	JK	U	22
K1011127	BBMU-903	K1011127-003	EPA1668A	Coelution of PCB 139 and 140	4.37	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	4	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	2.74	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	1.49	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	1.47	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	2,2',3-Trichlorobiphenyl	17.7	ng/kg	BJ	U	7
K1011127	BBMA-909	K1011127-004	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	11.5	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	3.9	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	2.99	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	1.01	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	9.95	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	9.08	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	21.1	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	2,3'-Dichlorobiphenyl	4.05	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	2,3-Dichlorobiphenyl	4.02	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	3,3'-Dichlorobiphenyl	134	ng/kg	BJ	U	7
K1011127	BBMA-909	K1011127-004	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	0.947	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	3,4,4'-Trichlorobiphenyl	4.29	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011127	BBMA-909	K1011127-004	EPA1668A	4,4'-Dichlorobiphenyl	5.18	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	4-Chlorobiphenyl	2.01	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	Coelution of PCB 043 and 073	6.18	ng/kg	JK	U	22
K1011127	BBMA-909	K1011127-004	EPA1668A	Coelution of PCB 098 and 102	11.9	ng/kg	JK	U	22
K1011127	Bait	K1011127-005	EPA1668A	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	15.1	pg/L	BJK	U	22
K1011127	Bait	K1011127-005	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	7.9	pg/L	BJK	U	22
K1011127	Bait	K1011127-005	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	31.5	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	2,2',3-Trichlorobiphenyl	6.62	pg/L	BJK	U	22
K1011127	Bait	K1011127-005	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	34.7	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	3.68	pg/L	JK	U	22
K1011127	Bait	K1011127-005	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	6.54	pg/L	BJK	U	22
K1011127	Bait	K1011127-005	EPA1668A	2,3,4'-Trichlorobiphenyl	6.66	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	2,4',5-Trichlorobiphenyl	9.98	pg/L	BJK	U	22
K1011127	Bait	K1011127-005	EPA1668A	2,4',6-Trichlorobiphenyl	3.69	pg/L	BJK	U	22
K1011127	Bait	K1011127-005	EPA1668A	3,3'-Dichlorobiphenyl	191	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 018 and 030	15	pg/L	BJK	U	22
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 020 and 028	14.9	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 044, 047, and 065	60.5	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 045 and 051	8.72	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 061, 070, 074, and 076	27.3	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 083 and 099	21	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	23.6	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 090, 101, and 113	34.6	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 110 and 115	34.6	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 128 and 166	5.46	pg/L	JK	U	22
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 129, 138, and 163	33.1	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 147 and 149	18.4	pg/L	BJK	U	22
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 153 and 168	25.8	pg/L	BJ	U	7
K1011127	Bait	K1011127-005	EPA1668A	Coelution of PCB 180 and 193	8.19	pg/L	BJK	U	22
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	11.1	ng/kg	JK	U	22
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	6.49	ng/kg	JK	U	22
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	27.4	ng/kg	BJK	U	22
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	2.19	ng/kg	JK	U	22
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	6.59	ng/kg	JK	U	22
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,2',3-Trichlorobiphenyl	36.1	ng/kg	BJ	U	7
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	4.17	ng/kg	JK	U	22
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	7.12	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,3,3',4-Tetrachlorobiphenyl	6.6	ng/kg	JK	U	22
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	2.3	ng/kg	JK	U	22
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	22	ng/kg	BJK	U	22
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,3,4'-Trichlorobiphenyl	60.8	ng/kg	BJ	U	7
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,4',5-Trichlorobiphenyl	119	ng/kg	BJ	U	7
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2,4',6-Trichlorobiphenyl	53.3	ng/kg	BJ	U	7
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	2-Chlorobiphenyl	5.79	ng/kg	BJ	U	7
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	1.78	ng/kg	JK	U	22
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	4.78	ng/kg	JK	U	22
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	3,3'-Dichlorobiphenyl	188	ng/kg	B	U	7
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	3,4,4'-Trichlorobiphenyl	45.1	ng/kg	BJ	U	7
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	4,4'-Dichlorobiphenyl	53.6	ng/kg	BJ	U	7
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	4-Chlorobiphenyl	2.93	ng/kg	BJK	U	22
K1011128	CL-TTR1-001	K1011128-001	EPA1668A	Coelution of PCB 020 and 028	237	ng/kg	BJ	U	7
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	7.7	ng/kg	BJK	U	22
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	2.96	ng/kg	JK	U	22
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	3.58	ng/kg	JK	U	22
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	1.19	ng/kg	JK	U	22
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	2,2',3-Trichlorobiphenyl	37.9	ng/kg	BJ	U	7
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	6.5	ng/kg	JK	U	22
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	17.7	ng/kg	BJK	U	22
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	2,3,4'-Trichlorobiphenyl	59.5	ng/kg	BJ	U	7
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	2,4',6-Trichlorobiphenyl	48.1	ng/kg	BJ	U	7
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	2-Chlorobiphenyl	5.33	ng/kg	BJ	U	7
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	3,3'-Dichlorobiphenyl	201	ng/kg	B	U	7
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	3,4,4'-Trichlorobiphenyl	39	ng/kg	BJ	U	7
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	4,4'-Dichlorobiphenyl	48.9	ng/kg	BJ	U	7
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	4-Chlorobiphenyl	2.81	ng/kg	BJ	U	7
K1011128	CL-TTR1-002	K1011128-002	EPA1668A	Coelution of PCB 020 and 028	234	ng/kg	BJ	U	7
K1011128	CL-TTR1-003	K1011128-003	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	1.8	ng/kg	JK	U	22
K1011128	CL-TTR1-003	K1011128-003	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	4.57	ng/kg	JK	U	22
K1011128	CL-TTR1-003	K1011128-003	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	5.42	ng/kg	JK	U	22
K1011128	CL-TTR1-003	K1011128-003	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	10.3	ng/kg	JK	U	22
K1011128	CL-TTR1-003	K1011128-003	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	3.34	ng/kg	JK	U	22
K1011128	CL-TTR1-003	K1011128-003	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	2.04	ng/kg	JK	U	22
K1011128	CL-TTR1-003	K1011128-003	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	20.7	ng/kg	BJK	U	22
K1011128	CL-TTR1-003	K1011128-003	EPA1668A	2,3,4'-Trichlorobiphenyl	85.5	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011128	CL-TTR1-003	K1011128-003	EPA1668A	2-Chlorobiphenyl	3.38	ng/kg	BJK	U	22
K1011128	CL-TTR1-003	K1011128-003	EPA1668A	3,3'-Dichlorobiphenyl	283	ng/kg	B	U	7
K1011128	CL-TTR1-003	K1011128-003	EPA1668A	4,4'-Dichlorobiphenyl	57.8	ng/kg	BJ	U	7
K1011128	CL-TTR1-003	K1011128-003	EPA1668A	4-Chlorobiphenyl	2.95	ng/kg	BJ	U	7
K1011128	CL-TTR1-003	K1011128-003	EPA1668A	Coelution of PCB 139 and 140	22.9	ng/kg	JK	U	22
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	94.9	ng/kg	J	J	13
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	104	ng/kg	J	J	13
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	2.34	ng/kg	JK	U	22
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	22.6	ng/kg	JK	U	22
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	2.51	ng/kg	JK	U	22
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	7.14	ng/kg	JK	U	22
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	10	ng/kg	JK	U	22
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	4.54	ng/kg	JK	U	22
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2,2'-Dichlorobiphenyl	26.7	ng/kg	JK	U	22
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	19.8	ng/kg	BJK	U	22
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2,3,4'-Trichlorobiphenyl	61.4	ng/kg	BJ	U	7
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2,3'-Dichlorobiphenyl	5.65	ng/kg	JK	U	22
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2,4',6-Trichlorobiphenyl	50.7	ng/kg	BJ	U	7
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	2-Chlorobiphenyl	4.68	ng/kg	BJ	U	7
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	3,3',4-Trichlorobiphenyl	3.55	ng/kg	JK	U	22
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	3,3'-Dichlorobiphenyl	187	ng/kg	BJ	U	7
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	3,4,4'-Trichlorobiphenyl	40.3	ng/kg	BJ	U	7
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	4,4'-Dichlorobiphenyl	53	ng/kg	BJ	U	7
K1011128	CL-TTR1-004	K1011128-004	EPA1668A	Coelution of PCB 012 and 013	4.66	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	25.9	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	12.4	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	8.42	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	7.93	ng/kg	BJK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	2.84	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	3.04	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	1.35	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	1.39	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	5.61	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	9	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	6.13	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	11.7	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	11.8	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	6.33	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2,3,4'-Trichlorobiphenyl	74.9	ng/kg	BJ	U	7
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	2-Chlorobiphenyl	5.11	ng/kg	BJ	U	7
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	3,3',4-Trichlorobiphenyl	4.18	ng/kg	JK	U	22
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	3,3'-Dichlorobiphenyl	207	ng/kg	B	U	7
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	3,4,4'-Trichlorobiphenyl	50.1	ng/kg	BJ	U	7
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	4,4'-Dichlorobiphenyl	56.5	ng/kg	BJ	U	7
K1011128	CL-TTR1-005	K1011128-005	EPA1668A	Coelution of PCB 093 and 100	37.7	ng/kg	JK	U	22
K1011128	CL-TTR3-005	K1011128-006	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	1.35	ng/kg	JK	U	22
K1011128	CL-TTR3-005	K1011128-006	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	104	ng/kg	BJK	U	22
K1011128	CL-TTR3-005	K1011128-006	EPA1668A	2,3,4'-Trichlorobiphenyl	74.6	ng/kg	BJ	U	7
K1011128	CL-TTR3-005	K1011128-006	EPA1668A	2,3-Dichlorobiphenyl	3.71	ng/kg	JK	U	22
K1011128	CL-TTR3-005	K1011128-006	EPA1668A	2,4',6-Trichlorobiphenyl	52.2	ng/kg	BJ	U	7
K1011128	CL-TTR3-005	K1011128-006	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	5.09	ng/kg	JK	U	22
K1011128	CL-TTR3-005	K1011128-006	EPA1668A	3,3'-Dichlorobiphenyl	181	ng/kg	B	U	7
K1011128	CL-TTR3-005	K1011128-006	EPA1668A	3,4,4'-Trichlorobiphenyl	49.8	ng/kg	BJ	U	7
K1011128	CL-TTR3-005	K1011128-006	EPA1668A	4-Chlorobiphenyl	7.06	ng/kg	BJ	U	7
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	92.5	ng/kg	J	J	13
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	109	ng/kg	J	J	13
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	1.54	ng/kg	JK	U	22
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	3.79	ng/kg	JK	U	22
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	1.48	ng/kg	JK	U	22
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	1.43	ng/kg	JK	U	22
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	3.45	ng/kg	JK	U	22
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	13.9	ng/kg	JK	U	22
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	12.3	ng/kg	JK	U	22
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	2,5-Dichlorobiphenyl	2.51	ng/kg	JK	U	22
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	2-Chlorobiphenyl	8.13	ng/kg	BJ	U	7
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	3,3'-Dichlorobiphenyl	184	ng/kg	B	U	7
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	4,4'-Dichlorobiphenyl	69.9	ng/kg	BJ	U	7
K1011128	CL-TTR4-005	K1011128-007	EPA1668A	Coelution of PCB 012 and 013	4.52	ng/kg	JK	U	22
K1011128	CL-TTR5-001	K1011128-008	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	14.4	ng/kg	BJK	U	22
K1011128	CL-TTR5-001	K1011128-008	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	1.11	ng/kg	JK	U	22
K1011128	CL-TTR5-001	K1011128-008	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	1.48	ng/kg	JK	U	22
K1011128	CL-TTR5-001	K1011128-008	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	3.45	ng/kg	JK	U	22
K1011128	CL-TTR5-001	K1011128-008	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	1.6	ng/kg	JK	U	22
K1011128	CL-TTR5-001	K1011128-008	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	8.53	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011128	CL-TTR5-001	K1011128-008	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	11.9	ng/kg	JK	U	22
K1011128	CL-TTR5-001	K1011128-008	EPA1668A	2-Chlorobiphenyl	22.5	ng/kg	BJ	U	7
K1011128	CL-TTR5-001	K1011128-008	EPA1668A	3,3'-Dichlorobiphenyl	215	ng/kg	B	U	7
K1011128	CL-TTR5-001	K1011128-008	EPA1668A	4,4'-Dichlorobiphenyl	95.7	ng/kg	BJ	U	7
K1011128	CL-TTR5-001	K1011128-008	EPA1668A	4-Chlorobiphenyl	3.66	ng/kg	BJ	U	7
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	59.1	ng/kg	J	J	13
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52.8	ng/kg	J	J	13
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	2.81	ng/kg	JK	U	22
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	5.58	ng/kg	JK	U	22
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	5.43	ng/kg	JK	U	22
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	2.48	ng/kg	JK	U	22
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	1.48	ng/kg	JK	U	22
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	2,3,4'-Trichlorobiphenyl	71.6	ng/kg	BJ	U	7
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	2,3,6-Trichlorobiphenyl	1.87	ng/kg	JK	U	22
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	2,4',6-Trichlorobiphenyl	45.3	ng/kg	BJ	U	7
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	2,4-Dichlorobiphenyl	4.04	ng/kg	JK	U	22
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	2-Chlorobiphenyl	17.5	ng/kg	BJ	U	7
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	3,3',4-Trichlorobiphenyl	3.21	ng/kg	JK	U	22
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	3,3'-Dichlorobiphenyl	185	ng/kg	B	U	7
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	3,4,4'-Trichlorobiphenyl	42.1	ng/kg	BJ	U	7
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	4,4'-Dichlorobiphenyl	71.3	ng/kg	BJ	U	7
K1011128	CL-TTR5-002	K1011128-009	EPA1668A	4-Chlorobiphenyl	2.88	ng/kg	BJ	U	7
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	9.43	ng/kg	JK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	3.39	ng/kg	JK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	2.9	ng/kg	JK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,2',3,4,5,6'-Hexachlorobiphenyl	3.85	ng/kg	JK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	4.49	ng/kg	JK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	1.43	ng/kg	JK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,2',3-Trichlorobiphenyl	37.9	ng/kg	BJ	U	7
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.45	ng/kg	JK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,2',4,5',6-Pentachlorobiphenyl	19.5	ng/kg	JK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	3.43	ng/kg	JK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	9.84	ng/kg	JK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	17.6	ng/kg	JK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	24.7	ng/kg	BJK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	9.54	ng/kg	JK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,3,4'-Trichlorobiphenyl	78.6	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2,4',6-Trichlorobiphenyl	46.8	ng/kg	BJ	U	7
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	2-Chlorobiphenyl	18.9	ng/kg	BJ	U	7
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	5.56	ng/kg	JK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	3,3'-Dichlorobiphenyl	160	ng/kg	BJ	U	7
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	3,4,4'-Trichlorobiphenyl	48.1	ng/kg	BJ	U	7
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	4,4'-Dichlorobiphenyl	68.3	ng/kg	BJK	U	22
K1011128	CL-TTR5-003	K1011128-010	EPA1668A	4-Chlorobiphenyl	2.66	ng/kg	BJ	U	7
K1011128	CL-TTR5-004	K1011128-011	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	2.04	ng/kg	JK	U	22
K1011128	CL-TTR5-004	K1011128-011	EPA1668A	2,2',3,4,5,6'-Hexachlorobiphenyl	5.8	ng/kg	JK	U	22
K1011128	CL-TTR5-004	K1011128-011	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	2.41	ng/kg	JK	U	22
K1011128	CL-TTR5-004	K1011128-011	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	14.4	ng/kg	JK	U	22
K1011128	CL-TTR5-004	K1011128-011	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	15.8	ng/kg	JK	U	22
K1011128	CL-TTR5-004	K1011128-011	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	8.81	ng/kg	JK	U	22
K1011128	CL-TTR5-004	K1011128-011	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	11.4	ng/kg	JK	U	22
K1011128	CL-TTR5-004	K1011128-011	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	9.25	ng/kg	JK	U	22
K1011128	CL-TTR5-004	K1011128-011	EPA1668A	2,3,6-Trichlorobiphenyl	4.5	ng/kg	JK	U	22
K1011128	CL-TTR5-004	K1011128-011	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	7.72	ng/kg	JK	U	22
K1011128	CL-TTR5-004	K1011128-011	EPA1668A	3,3'-Dichlorobiphenyl	221	ng/kg	B	U	7
K1011128	CL-TTR5-004	K1011128-011	EPA1668A	4-Chlorobiphenyl	7.76	ng/kg	BJK	U	22
K1011128	CL-TTR5-005	K1011128-012	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	17.3	ng/kg	JK	U	22
K1011128	CL-TTR5-005	K1011128-012	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	30	ng/kg	JK	U	22
K1011128	CL-TTR5-005	K1011128-012	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	4.01	ng/kg	JK	U	22
K1011128	CL-TTR5-005	K1011128-012	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	8.97	ng/kg	JK	U	22
K1011128	CL-TTR5-005	K1011128-012	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	20.8	ng/kg	JK	U	22
K1011128	CL-TTR5-005	K1011128-012	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	29.7	ng/kg	BJK	U	22
K1011128	CL-TTR5-005	K1011128-012	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	6.69	ng/kg	JK	U	22
K1011128	CL-TTR5-005	K1011128-012	EPA1668A	2,3',4-Trichlorobiphenyl	33.3	ng/kg	JK	U	22
K1011128	CL-TTR5-005	K1011128-012	EPA1668A	3,3'-Dichlorobiphenyl	363	ng/kg	B	U	7
K1011128	CL-TTR5-005	K1011128-012	EPA1668A	3,4,4'-Trichlorobiphenyl	60.1	ng/kg	BJ	U	7
K1011128	CL-TTR5-005	K1011128-012	EPA1668A	Coelution of PCB 021 and 033	87.1	ng/kg	BJ	U	7
K1011128	CL-TTR6-001	K1011128-013	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	12	ng/kg	JK	U	22
K1011128	CL-TTR6-001	K1011128-013	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	13.8	ng/kg	JK	U	22
K1011128	CL-TTR6-001	K1011128-013	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.46	ng/kg	JK	U	22
K1011128	CL-TTR6-001	K1011128-013	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	6.83	ng/kg	JK	U	22
K1011128	CL-TTR6-001	K1011128-013	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	3.21	ng/kg	JK	U	22
K1011128	CL-TTR6-001	K1011128-013	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	28.1	ng/kg	BJK	U	22
K1011128	CL-TTR6-001	K1011128-013	EPA1668A	2,3,6-Trichlorobiphenyl	2.8	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011128	CL-TTR6-001	K1011128-013	EPA1668A	3,3'-Dichlorobiphenyl	331	ng/kg	B	U	7
K1011128	CL-TTR6-001	K1011128-013	EPA1668A	4,4'-Dichlorobiphenyl	57	ng/kg	BJ	U	7
K1011128	CL-TTR6-001	K1011128-013	EPA1668A	Coelution of PCB 021 and 033	80.8	ng/kg	BJ	U	7
K1011128	CL-TTR6-002	K1011128-014	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	2.53	ng/kg	JK	U	22
K1011128	CL-TTR6-002	K1011128-014	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	3.23	ng/kg	JK	U	22
K1011128	CL-TTR6-002	K1011128-014	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	11.1	ng/kg	JK	U	22
K1011128	CL-TTR6-002	K1011128-014	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	8.92	ng/kg	JK	U	22
K1011128	CL-TTR6-002	K1011128-014	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	7.56	ng/kg	JK	U	22
K1011128	CL-TTR6-002	K1011128-014	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	3.11	ng/kg	JK	U	22
K1011128	CL-TTR6-002	K1011128-014	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	43.5	ng/kg	JK	U	22
K1011128	CL-TTR6-002	K1011128-014	EPA1668A	2,3,6-Trichlorobiphenyl	3.4	ng/kg	JK	U	22
K1011128	CL-TTR6-002	K1011128-014	EPA1668A	3,3'-Dichlorobiphenyl	328	ng/kg	B	U	7
K1011128	CL-TTR6-002	K1011128-014	EPA1668A	4,4'-Dichlorobiphenyl	66.7	ng/kg	BJ	U	7
K1011128	CL-TTR6-002	K1011128-014	EPA1668A	Coelution of PCB 021 and 033	87.9	ng/kg	BJ	U	7
K1011128	CL-TTR6-003	K1011128-015	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	12.1	ng/kg	JK	U	22
K1011128	CL-TTR6-003	K1011128-015	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	5.13	ng/kg	JK	U	22
K1011128	CL-TTR6-003	K1011128-015	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	3.16	ng/kg	JK	U	22
K1011128	CL-TTR6-003	K1011128-015	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	7.59	ng/kg	JK	U	22
K1011128	CL-TTR6-003	K1011128-015	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	10.5	ng/kg	JK	U	22
K1011128	CL-TTR6-003	K1011128-015	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	3.16	ng/kg	JK	U	22
K1011128	CL-TTR6-003	K1011128-015	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	7.11	ng/kg	JK	U	22
K1011128	CL-TTR6-003	K1011128-015	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	11.2	ng/kg	JK	U	22
K1011128	CL-TTR6-003	K1011128-015	EPA1668A	2,3',4-Trichlorobiphenyl	67.1	ng/kg	JK	U	22
K1011128	CL-TTR6-003	K1011128-015	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	6.92	ng/kg	BJK	U	22
K1011128	CL-TTR6-003	K1011128-015	EPA1668A	3,3'-Dichlorobiphenyl	373	ng/kg	B	U	7
K1011128	CL-TTR6-003	K1011128-015	EPA1668A	4,4'-Dichlorobiphenyl	73	ng/kg	BJK	U	22
K1011128	CL-TTR6-003	K1011128-015	EPA1668A	Coelution of PCB 012 and 013	16.1	ng/kg	JK	U	22
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	12.2	ng/kg	JK	U	22
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	18.6	ng/kg	JK	U	22
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	3.44	ng/kg	JK	U	22
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	11.9	ng/kg	JK	U	22
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.86	ng/kg	JK	U	22
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	2,2'-Dichlorobiphenyl	23.1	ng/kg	JK	U	22
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	7.68	ng/kg	JK	U	22
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	3.06	ng/kg	JK	U	22
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	34.2	ng/kg	JK	U	22
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	8.4	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	10.1	ng/kg	JK	U	22
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	4.8	ng/kg	BJK	U	22
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	3,3'-Dichlorobiphenyl	344	ng/kg	B	U	7
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	4,4'-Dichlorobiphenyl	54.8	ng/kg	BJK	U	22
K1011128	CL-TTR6-004	K1011128-016	EPA1668A	Coelution of PCB 043 and 073	18.7	ng/kg	JK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	2,2',3,3',5,5'-Hexachlorobiphenyl	20.3	ng/kg	JK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	23	ng/kg	JK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	16.7	ng/kg	JK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	2.14	ng/kg	JK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	2.29	ng/kg	JK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	29.9	ng/kg	JK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	9.28	ng/kg	JK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	6.68	ng/kg	JK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	2,4'-Dichlorobiphenyl	64.9	ng/kg	BJK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	3,3',4-Trichlorobiphenyl	3.9	ng/kg	JK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	3,3'-Dichlorobiphenyl	339	ng/kg	B	U	7
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	3.31	ng/kg	JK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	4,4'-Dichlorobiphenyl	59.3	ng/kg	BJK	U	22
K1011128	CL-TTR6-005	K1011128-017	EPA1668A	Coelution of PCB 021 and 033	90.9	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	4.81	ng/kg	JK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	4.11	ng/kg	JK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	132	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	3.73	ng/kg	JK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	41.2	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	18.1	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	42.8	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	87.6	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	26.6	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	83.3	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	39.5	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	3.23	ng/kg	JK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	327	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',4-Trichlorobiphenyl	37.1	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	387	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	3.31	ng/kg	JK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	4.03	ng/kg	JK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	162	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	2.7	ng/kg	JK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	2.72	ng/kg	JK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	3.94	ng/kg	JK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	8.81	ng/kg	JK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,3,4'-Trichlorobiphenyl	48.6	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,3',6-Trichlorobiphenyl	8.25	ng/kg	JK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,4',5-Trichlorobiphenyl	94.1	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	2,4',6-Trichlorobiphenyl	22.4	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	3,3'-Dichlorobiphenyl	349	ng/kg	B	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	3,4,4'-Trichlorobiphenyl	32.7	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	4,4'-Dichlorobiphenyl	34.2	ng/kg	BJK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	Coelution of PCB 020 and 028	179	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	Coelution of PCB 021 and 033	46.7	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	Coelution of PCB 043 and 073	4.63	ng/kg	JK	U	22
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	236	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	Coelution of PCB 090, 101, and 113	473	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	Coelution of PCB 110 and 115	542	ng/kg	BJ	U	7
K1011248	CL-TTR7-001	K1011248-001	EPA1668A	Coelution of PCB 156 and 157	71.6	ng/kg	BJ	U	7
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	5.42	ng/kg	JK	U	22
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	25.8	ng/kg	BJ	U	7
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	131	ng/kg	BJ	U	7
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	58.7	ng/kg	BJ	U	7
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	5.9	ng/kg	JK	U	22
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	16.9	ng/kg	JK	U	22
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.7	ng/kg	JK	U	22
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	3.43	ng/kg	JK	U	22
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	5.51	ng/kg	JK	U	22
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	4.97	ng/kg	JK	U	22
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	6.48	ng/kg	JK	U	22
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	3.23	ng/kg	JK	U	22
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	22.3	ng/kg	JK	U	22
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,3,4'-Trichlorobiphenyl	79.7	ng/kg	BJ	U	7
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	2,4',6-Trichlorobiphenyl	41.8	ng/kg	BJ	U	7
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	3,3'-Dichlorobiphenyl	286	ng/kg	B	U	7
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	3,4,4'-Trichlorobiphenyl	46.6	ng/kg	BJ	U	7
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	4,4'-Dichlorobiphenyl	39.2	ng/kg	BJK	U	22
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	Coelution of PCB 021 and 033	75.2	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	381	ng/kg	BJ	U	7
K1011248	CL-TTR7-002	K1011248-002	EPA1668A	Coelution of PCB 139 and 140	13.7	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	190	ng/kg	BJ	U	7
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	56.4	ng/kg	BJ	U	7
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	25.2	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	28.2	ng/kg	BJ	U	7
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	129	ng/kg	BJ	U	7
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	2.89	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	3.58	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	14.6	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	54	ng/kg	BJ	U	7
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	2.66	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,2',3-Trichlorobiphenyl	36.4	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	2.03	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	1.04	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	4.55	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	4.85	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	2.12	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	14.2	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	3.55	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,3,4'-Trichlorobiphenyl	71.3	ng/kg	BJ	U	7
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,3'-Dichlorobiphenyl	12.4	ng/kg	JK	U	22
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	2,4',6-Trichlorobiphenyl	37.8	ng/kg	BJ	U	7
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	3,3'-Dichlorobiphenyl	309	ng/kg	B	U	7
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	3,4,4'-Trichlorobiphenyl	44.3	ng/kg	BJ	U	7
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	4,4'-Dichlorobiphenyl	51.5	ng/kg	BJ	U	7
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	Coelution of PCB 021 and 033	71.7	ng/kg	BJ	U	7
K1011248	CL-TTR7-003	K1011248-003	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	348	ng/kg	BJ	U	7
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	181	ng/kg	BJ	U	7
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	24.1	ng/kg	BJ	U	7
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	136	ng/kg	BJ	U	7
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	2.04	ng/kg	JK	U	22
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	34.9	ng/kg	BJK	U	22
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	51.2	ng/kg	BJ	U	7
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	5.08	ng/kg	JK	U	22
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.59	ng/kg	JK	U	22
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	4.95	ng/kg	JK	U	22

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	3.67	ng/kg	JK	U	22
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	3.27	ng/kg	JK	U	22
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	6.81	ng/kg	JK	U	22
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	21.5	ng/kg	JK	U	22
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	2.96	ng/kg	JK	U	22
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,3,4'-Trichlorobiphenyl	75.9	ng/kg	BJ	U	7
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	2,4',6-Trichlorobiphenyl	39.1	ng/kg	BJ	U	7
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	26.5	ng/kg	JK	U	22
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	3,3'-Dichlorobiphenyl	246	ng/kg	B	U	7
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	3,4,4'-Trichlorobiphenyl	45	ng/kg	BJ	U	7
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	4,4'-Dichlorobiphenyl	46.2	ng/kg	BJ	U	7
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	Coelution of PCB 021 and 033	77.1	ng/kg	BJ	U	7
K1011248	CL-TTR7-004	K1011248-004	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	366	ng/kg	BJ	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,2',3,3',4,5,5'-Heptachlorobiphenyl	30.6	ng/kg	JK	U	22
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	6.28	ng/kg	JK	U	22
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	190	ng/kg	BJ	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	52.8	ng/kg	BJ	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	26.8	ng/kg	BJ	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	112	ng/kg	BJ	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	54.4	ng/kg	BJ	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	456	ng/kg	BJ	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	5.26	ng/kg	JK	U	22
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	9.69	ng/kg	JK	U	22
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	4.29	ng/kg	JK	U	22
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	1.66	ng/kg	JK	U	22
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	11.7	ng/kg	JK	U	22
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,3,4'-Trichlorobiphenyl	63	ng/kg	BJ	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,4',5-Trichlorobiphenyl	128	ng/kg	BJ	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	2,4',6-Trichlorobiphenyl	32.4	ng/kg	BJ	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	5.79	ng/kg	BJK	U	22
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	3,3'-Dichlorobiphenyl	281	ng/kg	B	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	3,4,4'-Trichlorobiphenyl	41.1	ng/kg	BJ	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	4,4'-Dichlorobiphenyl	43.7	ng/kg	BJ	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	Coelution of PCB 021 and 033	64.4	ng/kg	BJ	U	7
K1011248	CL-TTR7-005	K1011248-005	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	313	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	6.4	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	6.42	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	4.23	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	134	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	3.8	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	37.7	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,3',5,5'-Hexachlorobiphenyl	8.7	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	20.4	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	49	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	84.9	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	26.4	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	82.6	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	43.3	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	318	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	2.47	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',4,4',5,6'-Hexachlorobiphenyl	24.3	ng/kg	BJK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	3.28	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	2.61	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,3,3',4,4',5,6-Heptachlorobiphenyl	19.5	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	53.5	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	137	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	1.83	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	2.96	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,3,3',4',5,6-Hexachlorobiphenyl	34	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	8.65	ng/kg	BJK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	2.22	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,3,4',5-Tetrachlorobiphenyl	11.2	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,3,4'-Trichlorobiphenyl	62.3	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,4',5-Trichlorobiphenyl	128	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	2,4',6-Trichlorobiphenyl	30.3	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	3,3'-Dichlorobiphenyl	245	ng/kg	B	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	3,4,4'-Trichlorobiphenyl	31	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	4,4'-Dichlorobiphenyl	40.2	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	Coelution of PCB 021 and 033	61.9	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	Coelution of PCB 043 and 073	8.55	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	237	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	Coelution of PCB 090, 101, and 113	502	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	Coelution of PCB 098 and 102	13.2	ng/kg	JK	U	22
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	Coelution of PCB 108 and 124	17.3	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	Coelution of PCB 110 and 115	496	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	Coelution of PCB 128 and 166	87	ng/kg	BJ	U	7
K1011248	CL-TTR8-001	K1011248-006	EPA1668A	Coelution of PCB 156 and 157	61.2	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	12.6	ng/kg	JK	U	22
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	151	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	3.9	ng/kg	JK	U	22
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	43.7	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	21.7	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	55.1	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	86.2	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	15.2	ng/kg	JK	U	22
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	39.1	ng/kg	BJK	U	22
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,2',3,4,5,6'-Hexachlorobiphenyl	3.11	ng/kg	JK	U	22
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	2.49	ng/kg	JK	U	22
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	362	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	2.88	ng/kg	JK	U	22
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	7.04	ng/kg	JK	U	22
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	176	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	3.08	ng/kg	JK	U	22
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	11.6	ng/kg	BJK	U	22
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,3,4'-Trichlorobiphenyl	74.9	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	2,4',6-Trichlorobiphenyl	34.6	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	3,3'-Dichlorobiphenyl	264	ng/kg	B	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	3,4,4'-Trichlorobiphenyl	41.4	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	Coelution of PCB 021 and 033	78.2	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	Coelution of PCB 043 and 073	7.56	ng/kg	JK	U	22
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	269	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	Coelution of PCB 090, 101, and 113	591	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	Coelution of PCB 098 and 102	16.6	ng/kg	JK	U	22
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	Coelution of PCB 110 and 115	584	ng/kg	BJ	U	7
K1011248	CL-TTR8-002	K1011248-007	EPA1668A	Coelution of PCB 156 and 157	78.2	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,2',3,3',4,5,5'-Heptachlorobiphenyl	17.9	ng/kg	JK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	7.57	ng/kg	JK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	126	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	3.02	ng/kg	JK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	32.3	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,2',3,3',5,5'-Hexachlorobiphenyl	8.3	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	20.2	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	47.9	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	80.2	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	24.2	ng/kg	BJK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	35.3	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	2.69	ng/kg	JK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	308	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	2.63	ng/kg	JK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	4.68	ng/kg	JK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	54.5	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	144	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	3.19	ng/kg	JK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	34.7	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	3.31	ng/kg	JK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,3,4'-Trichlorobiphenyl	67.7	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	4.37	ng/kg	JK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	2,4',6-Trichlorobiphenyl	37.3	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	3.86	ng/kg	JK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	3,3'-Dichlorobiphenyl	170	ng/kg	BJK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	3,4,4'-Trichlorobiphenyl	29.3	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	Coelution of PCB 021 and 033	72.2	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	Coelution of PCB 043 and 073	7.79	ng/kg	JK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	238	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	Coelution of PCB 090, 101, and 113	505	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	Coelution of PCB 108 and 124	16.8	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	Coelution of PCB 110 and 115	495	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	Coelution of PCB 128 and 166	90.9	ng/kg	BJ	U	7
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	Coelution of PCB 139 and 140	8.78	ng/kg	JK	U	22
K1011248	CL-TTR8-003	K1011248-008	EPA1668A	Coelution of PCB 156 and 157	66	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,2',3,3',4,5,5'-Heptachlorobiphenyl	18.7	ng/kg	JK	U	22
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	4.09	ng/kg	JK	U	22
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	128	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	3.36	ng/kg	JK	U	22
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	38.8	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	20.8	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	50.5	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	86.1	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	27.2	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	1.6	ng/kg	JK	U	22
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	39.2	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	338	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	4.47	ng/kg	JK	U	22
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	4.2	ng/kg	JK	U	22
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	4.74	ng/kg	JK	U	22
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	56.6	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	152	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	36.2	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	5.67	ng/kg	JK	U	22
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	14.5	ng/kg	JK	U	22
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	2.48	ng/kg	JK	U	22
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,3,4'-Trichlorobiphenyl	71.9	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	4.48	ng/kg	JK	U	22
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	2,4',6-Trichlorobiphenyl	35.8	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	3,3'-Dichlorobiphenyl	262	ng/kg	B	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	3,4,4'-Trichlorobiphenyl	39.8	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	4-Chlorobiphenyl	3.96	ng/kg	JK	U	22
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	Coelution of PCB 021 and 033	78.5	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	245	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	Coelution of PCB 090, 101, and 113	527	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	Coelution of PCB 108 and 124	18.4	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	Coelution of PCB 110 and 115	523	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	Coelution of PCB 128 and 166	94.9	ng/kg	BJ	U	7
K1011248	CL-TTR8-004	K1011248-009	EPA1668A	Coelution of PCB 156 and 157	68.8	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	5.56	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,3',4,5,5'-Heptachlorobiphenyl	18	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	6.22	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,3',4,5'-Hexachlorobiphenyl	27.7	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	8.83	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	123	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	29.6	ng/kg	BJK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	19	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	45.4	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	78.6	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	24	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	74.3	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	2.25	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	35.2	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	2.74	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	313	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	3.81	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',4,4',5,6'-Hexachlorobiphenyl	24.8	ng/kg	BJK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	4.06	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	2.34	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,3,3',4,4',5,6-Heptachlorobiphenyl	20.7	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	50.5	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	138	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	33.9	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	5.54	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	7.22	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	3.82	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,3,4'-Trichlorobiphenyl	69.6	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	2,4',6-Trichlorobiphenyl	36.4	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	16.7	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	3,3'-Dichlorobiphenyl	212	ng/kg	B	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	3,4,4'-Trichlorobiphenyl	36.7	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	Coelution of PCB 021 and 033	70.9	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	Coelution of PCB 043 and 073	11	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	242	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	Coelution of PCB 090, 101, and 113	514	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	Coelution of PCB 098 and 102	15.1	ng/kg	JK	U	22
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	Coelution of PCB 108 and 124	18.3	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	Coelution of PCB 110 and 115	494	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	Coelution of PCB 128 and 166	86	ng/kg	BJ	U	7
K1011248	CL-TTR8-005	K1011248-010	EPA1668A	Coelution of PCB 156 and 157	58.1	ng/kg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	21.8	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	5.84	pg	JK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	16.8	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	28	pg	BJK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	8.06	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	79.6	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,3',5,5',6-Heptachlorobiphenyl	10.2	pg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	16.5	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	38.3	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,4,4',5',6-Heptachlorobiphenyl	17.2	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,4',5,5',6-Heptachlorobiphenyl	39.8	pg	BJ	U	6
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	42.1	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	26.9	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	28.3	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	172	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',3-Trichlorobiphenyl	69.5	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	14.1	pg	BJK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',4-Trichlorobiphenyl	62.3	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	133	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,2',6-Trichlorobiphenyl	9.55	pg	BJK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	12.8	pg	BJK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	33.4	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	6	pg	BJK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	2,3',4,4'-Tetrachlorobiphenyl	63.2	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,3,4,4'-Tetrachlorobiphenyl	21.7	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	12	pg	BJK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	40.7	pg	BJK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	2,3',4-Trichlorobiphenyl	11.1	pg	JK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	2,3,4'-Trichlorobiphenyl	78	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,3',6-Trichlorobiphenyl	7.09	pg	JK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	2,3'-Dichlorobiphenyl	20.9	pg	J	U	6
K1011254	FFFW-904	K1011254-001	EPA1668A	2,4',5-Trichlorobiphenyl	149	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,4',6-Trichlorobiphenyl	43.4	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2,4'-Dichlorobiphenyl	188	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	2-Chlorobiphenyl	13.9	pg	J	U	6
K1011254	FFFW-904	K1011254-001	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	9.44	pg	BJK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	3,3',4-Trichlorobiphenyl	8.84	pg	JK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	3,3'-Dichlorobiphenyl	1430	pg	B	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	3,4,4'-Trichlorobiphenyl	65.5	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	3-Chlorobiphenyl	11.8	pg	BJ	U	6
K1011254	FFFW-904	K1011254-001	EPA1668A	4,4'-Dichlorobiphenyl	83.5	pg	BJ	U	6
K1011254	FFFW-904	K1011254-001	EPA1668A	4-Chlorobiphenyl	17.8	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 018 and 030	121	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 020 and 028	198	pg	BJ	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 021 and 033	117	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 026 and 029	25.1	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 040, 041, and 071	56.3	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 044, 047, and 065	203	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 045 and 051	31.2	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 049 and 069	49.9	pg	BJK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 050 and 053	16.1	pg	BJ	U	6
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 059, 062, and 075	6.99	pg	BJK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 061, 070, 074, and 076	140	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 083 and 099	58.6	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 085 and 116	13.5	pg	JK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	88.4	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 088 and 091	17.3	pg	J	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 090, 101, and 113	202	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 110 and 115	145	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 129, 138, and 163	186	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 135 and 151	104	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 147 and 149	183	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 153 and 168	178	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 156 and 157	13.5	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 171 and 173	8.58	pg	JK	U	22
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 180 and 193	52.1	pg	BJ	U	7
K1011254	FFFW-904	K1011254-001	EPA1668A	Coelution of PCB 198 and 199	10.4	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	23.9	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	20.6	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	35.3	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,3',4,5'-Hexachlorobiphenyl	9.75	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	79.5	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	16	pg	JK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	17.9	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	14.5	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	36.4	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	40.8	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,4,4',5',6-Heptachlorobiphenyl	22.9	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,4',5,5'-Hexachlorobiphenyl	34.8	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	48	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	31	pg	BJK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	29.5	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	37.8	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	195	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,2',3-Trichlorobiphenyl	69.4	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,2',4-Trichlorobiphenyl	48.4	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	152	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	19.9	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	22.7	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	32.7	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,3',4,4'-Tetrachlorobiphenyl	82.4	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,3,4,4'-Tetrachlorobiphenyl	30	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	9.25	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	53.7	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,3,4'-Trichlorobiphenyl	81.8	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	2,4',5-Trichlorobiphenyl	162	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,4',6-Trichlorobiphenyl	40	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	2,4'-Dichlorobiphenyl	178	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	3,3'-Dichlorobiphenyl	1440	pg	B	U	7
K1011254	FB-905	K1011254-002	EPA1668A	3,4,4'-Trichlorobiphenyl	63.1	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	4-Chlorobiphenyl	17.8	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 018 and 030	116	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 020 and 028	212	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 021 and 033	123	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 026 and 029	24.2	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 040, 041, and 071	62.8	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 044, 047, and 065	205	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 045 and 051	34.6	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 049 and 069	54.8	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 061, 070, 074, and 076	167	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 083 and 099	68.6	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	106	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 090, 101, and 113	222	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 110 and 115	190	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 129, 138, and 163	213	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 135 and 151	121	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 147 and 149	214	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 153 and 168	188	pg	BJ	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 156 and 157	12.5	pg	BJK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 171 and 173	12.8	pg	JK	U	22
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 180 and 193	58	pg	BJ	U	7
K1011254	FB-905	K1011254-002	EPA1668A	Coelution of PCB 198 and 199	10.2	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	23.6	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	21	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	39.4	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	8.81	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	93.6	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	13.5	pg	JK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	6.93	pg	JK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,3',5,5',6-Heptachlorobiphenyl	7.06	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	20.7	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	16.7	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	39.7	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,4,4',5',6-Heptachlorobiphenyl	22	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,4',5,5'-Hexachlorobiphenyl	29.6	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	52.2	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	26.6	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	35.3	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	183	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',3-Trichlorobiphenyl	54.5	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	15.5	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',4-Trichlorobiphenyl	54.4	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	159	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,2',6-Trichlorobiphenyl	9.5	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	20.2	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	34.6	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	7.24	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,3',4,4'-Tetrachlorobiphenyl	79.9	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,3,4,4'-Tetrachlorobiphenyl	25.4	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	10.3	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	46.3	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,3',4-Trichlorobiphenyl	9.58	pg	JK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,3,4'-Trichlorobiphenyl	72.3	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,3',6-Trichlorobiphenyl	5.78	pg	JK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	2,3'-Dichlorobiphenyl	14.9	pg	JK	U	22

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011379	FFFW-906	K1011379-001	EPA1668A	2,4',5-Trichlorobiphenyl	144	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,4',6-Trichlorobiphenyl	33.8	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2,4'-Dichlorobiphenyl	122	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	2-Chlorobiphenyl	13.7	pg	J	U	6
K1011379	FFFW-906	K1011379-001	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	8.97	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	3,3'-Dichlorobiphenyl	1540	pg	B	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	3,4,4'-Trichlorobiphenyl	62.1	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	3-Chlorobiphenyl	11.5	pg	BJ	U	6
K1011379	FFFW-906	K1011379-001	EPA1668A	4,4'-Dichlorobiphenyl	51.1	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	4-Chlorobiphenyl	13.3	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 018 and 030	96	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 020 and 028	187	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 021 and 033	113	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 026 and 029	23.8	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 040, 041, and 071	56.6	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 044, 047, and 065	210	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 045 and 051	35.2	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 049 and 069	58.7	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 050 and 053	18.8	pg	BJ	U	6
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 059, 062, and 075	5.15	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 061, 070, 074, and 076	158	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 083 and 099	66.5	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 085 and 116	17.8	pg	J	U	6
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	115	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 088 and 091	20	pg	JK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 090, 101, and 113	231	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 110 and 115	190	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 128 and 166	19.3	pg	BJ	U	6
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 129, 138, and 163	209	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 135 and 151	115	pg	BJK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 147 and 149	218	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 153 and 168	197	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 156 and 157	13.1	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 171 and 173	8.33	pg	JK	U	22
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 180 and 193	62.8	pg	BJ	U	7
K1011379	FFFW-906	K1011379-001	EPA1668A	Coelution of PCB 198 and 199	19.4	pg	BJK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	34.2	pg	BJ	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	18.5	pg	BJK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	42.8	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	7.17	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	108	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,3',5,5',6-Heptachlorobiphenyl	9.31	pg	BJK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	28.4	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	17.2	pg	BJK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	55	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,4,4',5',6-Heptachlorobiphenyl	24.8	pg	BJK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,4',5,5',6-Heptachlorobiphenyl	57.4	pg	BJK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	68.4	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	29.4	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	39.6	pg	BJK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	235	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',3-Trichlorobiphenyl	70.1	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	30.2	pg	BJ	U	6
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',4-Trichlorobiphenyl	59.3	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	172	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,2',6-Trichlorobiphenyl	10.8	pg	BJ	U	6
K1011379	FFFW-907	K1011379-002	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	26.1	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	41.5	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	113	pg	BJ	U	6
K1011379	FFFW-907	K1011379-002	EPA1668A	2,3',4,4'-Tetrachlorobiphenyl	92.9	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,3,4,4'-Tetrachlorobiphenyl	26.8	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	8.51	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	63.6	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,3,4'-Trichlorobiphenyl	102	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,3',6-Trichlorobiphenyl	7.71	pg	JK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	2,4',5-Trichlorobiphenyl	176	pg	BJK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	2,4',6-Trichlorobiphenyl	52.1	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2,4'-Dichlorobiphenyl	187	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	2-Chlorobiphenyl	9.04	pg	JK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	9.47	pg	BJK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	3,3'-Dichlorobiphenyl	1730	pg	B	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	3,4,4'-Trichlorobiphenyl	76.7	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	3-Chlorobiphenyl	12.1	pg	BJ	U	6
K1011379	FFFW-907	K1011379-002	EPA1668A	4,4'-Dichlorobiphenyl	80.6	pg	BJK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011379	FFFW-907	K1011379-002	EPA1668A	4-Chlorobiphenyl	17.8	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 018 and 030	122	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 020 and 028	255	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 021 and 033	149	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 026 and 029	26	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 040, 041, and 071	74.3	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 044, 047, and 065	189	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 045 and 051	36.1	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 049 and 069	70.6	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 050 and 053	13.5	pg	BJK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 061, 070, 074, and 076	194	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 083 and 099	72.3	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 085 and 116	17.3	pg	J	U	6
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	128	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 088 and 091	22	pg	JK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 090, 101, and 113	273	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 110 and 115	224	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 128 and 166	20	pg	BJK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 129, 138, and 163	253	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 135 and 151	145	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 147 and 149	284	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 153 and 168	249	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 156 and 157	18.6	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 171 and 173	13.5	pg	JK	U	22
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 180 and 193	63.4	pg	BJ	U	7
K1011379	FFFW-907	K1011379-002	EPA1668A	Coelution of PCB 198 and 199	8.66	pg	BJK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	17.7	pg	BJK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	31.7	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	83.5	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3,3',5,5',6-Heptachlorobiphenyl	8.3	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	17.8	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	49.7	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3,4,4',5',6-Heptachlorobiphenyl	17.1	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3,4',5,5',6-Heptachlorobiphenyl	41.5	pg	BJK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	56.3	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	32.2	pg	BJK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	29.3	pg	BJK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	48.1	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	238	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',3-Trichlorobiphenyl	68.5	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	21.6	pg	BJK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',4-Trichlorobiphenyl	59.9	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	154	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,2',6-Trichlorobiphenyl	13	pg	BJK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	19.5	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	20.2	pg	BJK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	14.4	pg	BJK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	42.7	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	8.74	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	95.8	pg	BJ	U	6
K1011379	FFFW-908	K1011379-003	EPA1668A	2,3',4,4'-Tetrachlorobiphenyl	92.8	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,3,4,4'-Tetrachlorobiphenyl	30.1	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	10.9	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	52	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,3',4-Trichlorobiphenyl	10.8	pg	JK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	2,3,4'-Trichlorobiphenyl	98	pg	BJK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	2,3'-Dichlorobiphenyl	17.6	pg	JK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	2,4',5-Trichlorobiphenyl	178	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,4',6-Trichlorobiphenyl	42.4	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2,4'-Dichlorobiphenyl	210	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	2-Chlorobiphenyl	10.4	pg	J	U	6
K1011379	FFFW-908	K1011379-003	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	12.6	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	3,3'-Dichlorobiphenyl	1500	pg	B	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	3,4,4'-Trichlorobiphenyl	91.4	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	3-Chlorobiphenyl	13.6	pg	BJ	U	6
K1011379	FFFW-908	K1011379-003	EPA1668A	4,4'-Dichlorobiphenyl	87	pg	BJ	U	6
K1011379	FFFW-908	K1011379-003	EPA1668A	4-Chlorobiphenyl	15.7	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 018 and 030	121	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 020 and 028	237	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 021 and 033	142	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 026 and 029	22.5	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 040, 041, and 071	68.5	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 044, 047, and 065	204	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 045 and 051	28.7	pg	BJ	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 049 and 069	60.8	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 050 and 053	11.9	pg	BJK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 059, 062, and 075	10.3	pg	BJ	U	6
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 061, 070, 074, and 076	186	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 083 and 099	60.3	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 085 and 116	15.2	pg	JK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	124	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 088 and 091	18.5	pg	J	U	6
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 090, 101, and 113	277	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 110 and 115	196	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 128 and 166	14.9	pg	BJK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 129, 138, and 163	202	pg	BJK	U	22
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 135 and 151	124	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 147 and 149	236	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 153 and 168	199	pg	BJ	U	7
K1011379	FFFW-908	K1011379-003	EPA1668A	Coelution of PCB 180 and 193	60.9	pg	BJK	U	22
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	101	ng/kg	BJ	U	7
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	10.5	ng/kg	JK	U	22
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	2.12	ng/kg	JK	U	22
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	6.06	ng/kg	JK	U	22
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	4.94	ng/kg	JK	U	22
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	2.71	ng/kg	JK	U	22
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	3.83	ng/kg	JK	U	22
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	8.41	ng/kg	JK	U	22
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	9.55	ng/kg	JK	U	22
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	5.31	ng/kg	JK	U	22
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	8.99	ng/kg	JK	U	22
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	3,3'-Dichlorobiphenyl	133	ng/kg	BJ	U	7
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	3,4,4'-Trichlorobiphenyl	24.9	ng/kg	BJ	U	7
K1011383	GK-TTR6-1	K1011383-001	EPA1668A	Coelution of PCB 021 and 033	35.2	ng/kg	BJ	U	7
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	32.4	ng/kg	BJK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	23.6	ng/kg	BJ	U	7
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	41.6	ng/kg	BJ	U	7
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	60.8	ng/kg	BJ	U	7
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	1.62	ng/kg	JK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	50	ng/kg	BJ	U	7
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	1.68	ng/kg	JK	U	22

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	432	ng/kg	BJ	U	7
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	3.12	ng/kg	JK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	8.86	ng/kg	JK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.26	ng/kg	JK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	32	ng/kg	BJK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	1.1	ng/kg	JK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,2',6-Trichlorobiphenyl	14.8	ng/kg	JK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	8.88	ng/kg	JK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,3,4'-Trichlorobiphenyl	70.7	ng/kg	BJ	U	7
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,3'-Dichlorobiphenyl	17.3	ng/kg	JK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2,4',5-Trichlorobiphenyl	140	ng/kg	BJ	U	7
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	2-Chlorobiphenyl	5.42	ng/kg	JK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	3,3'-Dichlorobiphenyl	109	ng/kg	BJ	U	7
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	3,4,4'-Trichlorobiphenyl	18.5	ng/kg	BJ	U	7
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	Coelution of PCB 021 and 033	29.1	ng/kg	BJK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	Coelution of PCB 043 and 073	11.6	ng/kg	JK	U	22
K1011383	GK-TTR6-2	K1011383-002	EPA1668A	Coelution of PCB 108 and 124	17.6	ng/kg	BJK	U	22
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	15	ng/kg	JK	U	22
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	5.5	ng/kg	JK	U	22
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	4.4	ng/kg	JK	U	22
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	79	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	14.6	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	8.77	ng/kg	BJK	U	22
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	20.8	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	34.1	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	1.39	ng/kg	JK	U	22
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	21	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	1.64	ng/kg	JK	U	22
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	265	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	19.6	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',4-Trichlorobiphenyl	39.6	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	1.45	ng/kg	JK	U	22
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,2'-Dichlorobiphenyl	16.5	ng/kg	JK	U	22
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	9.24	ng/kg	JK	U	22
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	33.8	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	28.9	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	10.6	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,3,4'-Trichlorobiphenyl	39.9	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,4',5-Trichlorobiphenyl	90.9	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	2,4',6-Trichlorobiphenyl	28.9	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	8.84	ng/kg	JK	U	22
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	3,3'-Dichlorobiphenyl	101	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	3,4,4'-Trichlorobiphenyl	4.87	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	Coelution of PCB 018 and 030	72.9	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	Coelution of PCB 021 and 033	21.3	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	229	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	Coelution of PCB 108 and 124	10.2	ng/kg	BJK	U	22
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	Coelution of PCB 110 and 115	486	ng/kg	BJ	U	7
K1011383	GK-TTR7-1	K1011383-003	EPA1668A	Coelution of PCB 147 and 149	316	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	5.58	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	43.8	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	3.8	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	80.3	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	12.1	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	9.95	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	19.4	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	29.6	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	2.17	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	22.2	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	1.08	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	40.2	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	268	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	4.26	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.05	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	17.7	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',4-Trichlorobiphenyl	34.7	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	1.27	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,2'-Dichlorobiphenyl	15	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	1.67	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	4.07	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	35.2	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	22.5	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	13.3	ng/kg	BJK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	5.14	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	14.5	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,3,4'-Trichlorobiphenyl	34.1	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,4',5-Trichlorobiphenyl	80.8	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,4',6-Trichlorobiphenyl	22.8	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2,4'-Dichlorobiphenyl	26.3	ng/kg	BJK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	2-Chlorobiphenyl	4.64	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	7.29	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	4.4	ng/kg	BJK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	3,3'-Dichlorobiphenyl	106	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	Coelution of PCB 018 and 030	63.6	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	Coelution of PCB 020 and 028	201	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	Coelution of PCB 021 and 033	20.6	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	Coelution of PCB 040, 041, and 071	73	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	Coelution of PCB 045 and 051	21.4	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	249	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	Coelution of PCB 098 and 102	7.47	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	Coelution of PCB 108 and 124	10.8	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	Coelution of PCB 110 and 115	518	ng/kg	BJ	U	7
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	Coelution of PCB 139 and 140	14.3	ng/kg	JK	U	22
K1011383	GK-TTR7-2	K1011383-004	EPA1668A	Coelution of PCB 147 and 149	313	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	2.55	ng/kg	JK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	102	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	10.5	ng/kg	BJK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	37.5	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	56.4	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	2.04	ng/kg	JK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	2	ng/kg	JK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	9.16	ng/kg	JK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	1.38	ng/kg	JK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	29	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	390	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',3-Trichlorobiphenyl	43.6	ng/kg	BJK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',4-Trichlorobiphenyl	59	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	1.25	ng/kg	JK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2',6-Trichlorobiphenyl	16.8	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,2'-Dichlorobiphenyl	21.2	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	2.18	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	8.59	ng/kg	JK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	3.78	ng/kg	JK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	30.5	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,3',4-Trichlorobiphenyl	10.8	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,3,4'-Trichlorobiphenyl	46.6	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,3',6-Trichlorobiphenyl	13.1	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,4',5-Trichlorobiphenyl	101	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,4',6-Trichlorobiphenyl	36.8	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	2,4'-Dichlorobiphenyl	55.3	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	11.3	ng/kg	BJK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	3,3'-Dichlorobiphenyl	188	ng/kg	B	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	3,4,4'-Trichlorobiphenyl	19.3	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	4,4'-Dichlorobiphenyl	15	ng/kg	BJK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	Coelution of PCB 018 and 030	93.1	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	Coelution of PCB 020 and 028	229	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	Coelution of PCB 021 and 033	30.1	ng/kg	BJK	U	22
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	Coelution of PCB 026 and 029	28.3	ng/kg	BJ	U	7
K1011383	GK-TTR7-3	K1011383-005	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	273	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	6.01	ng/kg	BJK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	125	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	20.9	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	23.8	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	14.1	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	33.8	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	46.6	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	0.882	ng/kg	JK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	9.1	ng/kg	JK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	29.7	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	1.19	ng/kg	JK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	394	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	2.56	ng/kg	JK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	5.71	ng/kg	JK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',4-Trichlorobiphenyl	44	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	1.32	ng/kg	JK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2',6-Trichlorobiphenyl	18.5	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,2'-Dichlorobiphenyl	18.3	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	5.08	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	28.4	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	24.2	ng/kg	BJK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,3',4-Trichlorobiphenyl	10.1	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,3,4'-Trichlorobiphenyl	45.5	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,3',6-Trichlorobiphenyl	11.4	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,3,6-Trichlorobiphenyl	0.93	ng/kg	JK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,4',5-Trichlorobiphenyl	91.8	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,4',6-Trichlorobiphenyl	30.7	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	2,4'-Dichlorobiphenyl	54.4	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	2.81	ng/kg	JK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	10.2	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	3,3'-Dichlorobiphenyl	216	ng/kg	B	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	3,4,4'-Trichlorobiphenyl	24.4	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	4-Chlorobiphenyl	2.19	ng/kg	JK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	Coelution of PCB 018 and 030	80.9	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	Coelution of PCB 020 and 028	239	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	Coelution of PCB 021 and 033	37.5	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	Coelution of PCB 026 and 029	24.4	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	Coelution of PCB 040, 041, and 071	83.4	ng/kg	BJ	U	7
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	Coelution of PCB 043 and 073	5.85	ng/kg	JK	U	22
K1011383	GK-TTR7-4	K1011383-006	EPA1668A	Coelution of PCB 108 and 124	9.56	ng/kg	BJK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	21.1	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	29.2	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	56.8	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	4.84	ng/kg	BJK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	59.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	10.7	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	24.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	11.6	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	23.3	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	31.6	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	2.67	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	1.1	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	81.9	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	19.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	0.958	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	229	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	3.69	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.18	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',4,5',6-Pentachlorobiphenyl	8.39	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	12.1	ng/kg	BJK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',4-Trichlorobiphenyl	42.3	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	372	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2',6-Trichlorobiphenyl	11.8	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,2'-Dichlorobiphenyl	17.6	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	4.49	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	4.81	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	25.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,3',4-Trichlorobiphenyl	8.58	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,3,4'-Trichlorobiphenyl	46	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	6.03	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,3',6-Trichlorobiphenyl	9.28	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,4',5-Trichlorobiphenyl	93.8	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,4',6-Trichlorobiphenyl	26.7	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	2,4'-Dichlorobiphenyl	54.8	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	8.72	ng/kg	BJK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	1.5	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	3,3'-Dichlorobiphenyl	218	ng/kg	B	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	3,4,4'-Trichlorobiphenyl	18.1	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	4,4'-Dichlorobiphenyl	19.7	ng/kg	BJK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	Coelution of PCB 018 and 030	63.8	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	Coelution of PCB 020 and 028	252	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	Coelution of PCB 021 and 033	35	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	Coelution of PCB 026 and 029	24.9	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	Coelution of PCB 040, 041, and 071	77.6	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	Coelution of PCB 043 and 073	7.65	ng/kg	JK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	202	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	Coelution of PCB 088 and 091	58.8	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	Coelution of PCB 108 and 124	7.11	ng/kg	BJK	U	22
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	Coelution of PCB 110 and 115	431	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	Coelution of PCB 135 and 151	164	ng/kg	BJ	U	7
K1011383	GK-TTR8-1	K1011383-007	EPA1668A	Coelution of PCB 147 and 149	295	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	11.3	ng/kg	JK	U	22
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	2.41	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	6.93	ng/kg	JK	U	22
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	89.9	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	11.9	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	11.8	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	27.9	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	34.4	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	2.11	ng/kg	JK	U	22
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	2.62	ng/kg	JK	U	22
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	6.02	ng/kg	JK	U	22
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	91.3	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	23	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	249	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	4.22	ng/kg	JK	U	22
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	16.1	ng/kg	BJK	U	22
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',4-Trichlorobiphenyl	45.4	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2',6-Trichlorobiphenyl	12.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,2'-Dichlorobiphenyl	18.6	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	4.5	ng/kg	JK	U	22
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	9.07	ng/kg	JK	U	22
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	24.9	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	8.14	ng/kg	JK	U	22
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,3,4',5-Tetrachlorobiphenyl	12.4	ng/kg	JK	U	22
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,3',4-Trichlorobiphenyl	10.3	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,3,4'-Trichlorobiphenyl	44.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,3',6-Trichlorobiphenyl	10.5	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,4',5-Trichlorobiphenyl	89.4	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,4',6-Trichlorobiphenyl	25.9	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	2,4'-Dichlorobiphenyl	49.8	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	9.35	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	3,3'-Dichlorobiphenyl	193	ng/kg	B	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	3,4,4'-Trichlorobiphenyl	16.1	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	Coelution of PCB 018 and 030	72.8	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	Coelution of PCB 020 and 028	250	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	Coelution of PCB 021 and 033	34.6	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	Coelution of PCB 026 and 029	25.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	Coelution of PCB 040, 041, and 071	82.9	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	Coelution of PCB 043 and 073	4.94	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	204	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	Coelution of PCB 098 and 102	8.83	ng/kg	BJK	U	22
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	Coelution of PCB 108 and 124	8.74	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	Coelution of PCB 110 and 115	422	ng/kg	BJ	U	7
K1011383	GK-TTR8-2	K1011383-008	EPA1668A	Coelution of PCB 147 and 149	346	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	3.05	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	72	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	9.54	ng/kg	BJK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	26.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	10.4	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	24.4	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	33.3	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	5.14	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	80.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	1.41	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	19.6	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	1.14	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	235	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	1.29	ng/kg	BJK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.24	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',4-Trichlorobiphenyl	40.1	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	380	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2',6-Trichlorobiphenyl	11.7	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,2'-Dichlorobiphenyl	16	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	2.04	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	31.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	23.8	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	7.62	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	12.5	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	16.2	ng/kg	BJK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	7.25	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	1.66	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,3',4-Trichlorobiphenyl	8	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,3,4'-Trichlorobiphenyl	39.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,3',6-Trichlorobiphenyl	8.09	ng/kg	BJK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,4',5-Trichlorobiphenyl	76.1	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,4',6-Trichlorobiphenyl	26.7	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	2,4'-Dichlorobiphenyl	42.3	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	8.98	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	1.29	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	3,3'-Dichlorobiphenyl	228	ng/kg	B	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	3,4,4'-Trichlorobiphenyl	20.3	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	3-Chlorobiphenyl	1.78	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 018 and 030	66.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 020 and 028	225	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 021 and 033	30.3	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 026 and 029	22.3	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 040, 041, and 071	73.6	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 043 and 073	4.71	ng/kg	JK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	199	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 088 and 091	64	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 090, 101, and 113	507	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 098 and 102	7.68	ng/kg	BJK	U	22
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 108 and 124	7.74	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 110 and 115	403	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 135 and 151	165	ng/kg	BJ	U	7
K1011383	GK-TTR8-3	K1011383-009	EPA1668A	Coelution of PCB 147 and 149	299	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	31.9	ng/kg	JK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	37.1	ng/kg	JK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	3.32	ng/kg	JK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	89.1	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	13.3	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	13.1	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	31.6	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	40.6	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	3.52	ng/kg	JK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	1.41	ng/kg	JK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	93.9	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	23.4	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	278	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',4-Trichlorobiphenyl	44	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	1.24	ng/kg	JK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2',6-Trichlorobiphenyl	10.6	ng/kg	BJK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,2'-Dichlorobiphenyl	16.5	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	5.73	ng/kg	JK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	25.2	ng/kg	BJK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	10.1	ng/kg	JK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	2.1	ng/kg	JK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,3',4-Trichlorobiphenyl	10.5	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,3,4'-Trichlorobiphenyl	45.9	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,3',6-Trichlorobiphenyl	9.18	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,4',5-Trichlorobiphenyl	96	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,4',6-Trichlorobiphenyl	27.4	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	2,4'-Dichlorobiphenyl	49.5	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	2.59	ng/kg	JK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	9.99	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	3,3'-Dichlorobiphenyl	248	ng/kg	B	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	3,4,4'-Trichlorobiphenyl	21.3	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	3-Chlorobiphenyl	1.71	ng/kg	JK	U	22
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	Coelution of PCB 018 and 030	70.8	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	Coelution of PCB 020 and 028	243	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	Coelution of PCB 021 and 033	34.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	Coelution of PCB 026 and 029	24.7	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	Coelution of PCB 040, 041, and 071	80.2	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	231	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	Coelution of PCB 108 and 124	9.72	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	Coelution of PCB 110 and 115	468	ng/kg	BJ	U	7
K1011383	GK-TTR8-4	K1011383-010	EPA1668A	Coelution of PCB 147 and 149	360	ng/kg	BJ	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	5.05	ng/kg	JK	U	22
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	10.6	ng/kg	BJK	U	22
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	130	ng/kg	BJ	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	25.9	ng/kg	BJ	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	15.7	ng/kg	BJK	U	22
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	51.7	ng/kg	BJ	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	77.1	ng/kg	BJ	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	4.99	ng/kg	JK	U	22
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	4.71	ng/kg	JK	U	22
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	2.17	ng/kg	JK	U	22
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	3.08	ng/kg	JK	U	22
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	549	ng/kg	B	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2',6-Trichlorobiphenyl	21.8	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,2'-Dichlorobiphenyl	27	ng/kg	BJ	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	9.84	ng/kg	JK	U	22
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	4.02	ng/kg	JK	U	22
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,3,4'-Trichlorobiphenyl	74.2	ng/kg	BJ	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,4',5-Trichlorobiphenyl	152	ng/kg	BJ	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,4',6-Trichlorobiphenyl	78.8	ng/kg	BJ	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	2,4'-Dichlorobiphenyl	68.2	ng/kg	BJ	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	3.85	ng/kg	JK	U	22
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	3,3'-Dichlorobiphenyl	247	ng/kg	B	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	3,4,4'-Trichlorobiphenyl	28.5	ng/kg	BJ	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	Coelution of PCB 021 and 033	47	ng/kg	BJ	U	7
K1011383	GK-TTR2-1	K1011383-011	EPA1668A	Coelution of PCB 108 and 124	12.4	ng/kg	BJK	U	22
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	32.1	ng/kg	BJ	U	7
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	23.3	ng/kg	BJK	U	22
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	63.4	ng/kg	BJ	U	7
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	103	ng/kg	BJ	U	7
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	2.05	ng/kg	BJK	U	22
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	1.78	ng/kg	JK	U	22
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	2,2',6-Trichlorobiphenyl	24.3	ng/kg	BJ	U	7
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	2,3,4'-Trichlorobiphenyl	90	ng/kg	BJ	U	7
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	2,4'-Dichlorobiphenyl	79.5	ng/kg	BJ	U	7
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	2,4-Dichlorobiphenyl	2.17	ng/kg	JK	U	22
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	3,3'-Dichlorobiphenyl	201	ng/kg	B	U	7
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	3,4,4'-Trichlorobiphenyl	24.4	ng/kg	BJ	U	7
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	3-Chlorobiphenyl	1.45	ng/kg	JK	U	22
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	4,4'-Dichlorobiphenyl	22.5	ng/kg	BJK	U	22
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	4-Chlorobiphenyl	2.33	ng/kg	JK	U	22
K1011383	GK-TTR2-2	K1011383-012	EPA1668A	Coelution of PCB 021 and 033	48.6	ng/kg	BJ	U	7
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	7.37	ng/kg	JK	U	22
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	2.79	ng/kg	JK	U	22
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	38.8	ng/kg	BJK	U	22
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	1.09	ng/kg	JK	U	22
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	2,2',6-Trichlorobiphenyl	18.7	ng/kg	BJ	U	7
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	2,3',4-Trichlorobiphenyl	12.7	ng/kg	BJ	U	7
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	2,3,4'-Trichlorobiphenyl	65.2	ng/kg	BJ	U	7
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	2,4',5-Trichlorobiphenyl	124	ng/kg	BJ	U	7
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	3,3',4,4',5,5'-Hexachlorobiphenyl	10.7	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	3,3'-Dichlorobiphenyl	132	ng/kg	BJ	U	7
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	3,4,4'-Trichlorobiphenyl	21.9	ng/kg	BJ	U	7
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	Coelution of PCB 021 and 033	44.9	ng/kg	BJ	U	7
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	Coelution of PCB 043 and 073	17	ng/kg	JK	U	22
K1011383	GK-TTR3-1	K1011383-016	EPA1668A	Coelution of PCB 108 and 124	48.4	ng/kg	BJK	U	22
K1011383	GK-TTR3-2	K1011383-017	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	2.83	ng/kg	JK	U	22
K1011383	GK-TTR3-2	K1011383-017	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	6.99	ng/kg	BJK	U	22
K1011383	GK-TTR3-2	K1011383-017	EPA1668A	2,2',6-Trichlorobiphenyl	22.5	ng/kg	BJ	U	7
K1011383	GK-TTR3-2	K1011383-017	EPA1668A	2,3',4-Trichlorobiphenyl	13.9	ng/kg	BJ	U	7
K1011383	GK-TTR3-2	K1011383-017	EPA1668A	2,3,4'-Trichlorobiphenyl	80	ng/kg	BJ	U	7
K1011383	GK-TTR3-2	K1011383-017	EPA1668A	2,4',5-Trichlorobiphenyl	138	ng/kg	BJ	U	7
K1011383	GK-TTR3-2	K1011383-017	EPA1668A	2,4',6-Trichlorobiphenyl	80.8	ng/kg	BJ	U	7
K1011383	GK-TTR3-2	K1011383-017	EPA1668A	2,4-Dichlorobiphenyl	11.7	ng/kg	JK	U	22
K1011383	GK-TTR3-2	K1011383-017	EPA1668A	3,3'-Dichlorobiphenyl	272	ng/kg	B	U	7
K1011383	GK-TTR3-2	K1011383-017	EPA1668A	3,4,4'-Trichlorobiphenyl	33	ng/kg	BJ	U	7
K1011383	GK-TTR3-2	K1011383-017	EPA1668A	Coelution of PCB 021 and 033	64.9	ng/kg	BJ	U	7
K1011383	GK-TTR3-2	K1011383-017	EPA1668A	Coelution of PCB 043 and 073	17	ng/kg	JK	U	22
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	4.92	ng/kg	JK	U	22
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	147	ng/kg	BJ	U	7
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	26.4	ng/kg	BJ	U	7
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	20.4	ng/kg	BJ	U	7
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	42.8	ng/kg	BJ	U	7
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	69.6	ng/kg	BJ	U	7
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	1.97	ng/kg	JK	U	22
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	3.88	ng/kg	JK	U	22
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,2',6-Trichlorobiphenyl	25.2	ng/kg	BJ	U	7
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,2'-Dichlorobiphenyl	23.3	ng/kg	BJK	U	22
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	3.88	ng/kg	JK	U	22
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	8.06	ng/kg	JK	U	22
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	3.71	ng/kg	JK	U	22
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	1.64	ng/kg	JK	U	22
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	37.6	ng/kg	BJK	U	22
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,3,4'-Trichlorobiphenyl	90.6	ng/kg	BJ	U	7
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,3,6-Trichlorobiphenyl	1.49	ng/kg	JK	U	22
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,4',5-Trichlorobiphenyl	187	ng/kg	BJ	U	7
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,4',6-Trichlorobiphenyl	80.6	ng/kg	BJ	U	7
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	2,4'-Dichlorobiphenyl	80.3	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	3.14	ng/kg	JK	U	22
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	3,3'-Dichlorobiphenyl	181	ng/kg	B	U	7
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	3,4,4'-Trichlorobiphenyl	20	ng/kg	BJ	U	7
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	4,4'-Dichlorobiphenyl	19.5	ng/kg	BJK	U	22
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	Coelution of PCB 021 and 033	56.9	ng/kg	BJ	U	7
K1011383	GK-TTR4-1	K1011383-018	EPA1668A	Coelution of PCB 098 and 102	20.4	ng/kg	BJK	U	22
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	120	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	21.9	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	15	ng/kg	BJK	U	22
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	40.8	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	60.2	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	4	ng/kg	JK	U	22
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	3.1	ng/kg	JK	U	22
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	23.7	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	2.52	ng/kg	JK	U	22
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	439	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	10	ng/kg	JK	U	22
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.83	ng/kg	JK	U	22
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2',6-Trichlorobiphenyl	20	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,2'-Dichlorobiphenyl	26.7	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	12.2	ng/kg	JK	U	22
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,3,4'-Trichlorobiphenyl	86.4	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,4',5-Trichlorobiphenyl	167	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,4',6-Trichlorobiphenyl	64.7	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	2,4'-Dichlorobiphenyl	79	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	2.13	ng/kg	JK	U	22
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	3,3'-Dichlorobiphenyl	241	ng/kg	B	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	3,4,4'-Trichlorobiphenyl	32.7	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	Coelution of PCB 018 and 030	77.2	ng/kg	BJ	U	7
K1011383	GK-TTR4-2	K1011383-019	EPA1668A	Coelution of PCB 021 and 033	65	ng/kg	BJ	U	7
K1011383	GK-TTR5-1	K1011383-020	EPA1668A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	62.1	ng/kg	JK	U	22
K1011383	GK-TTR5-1	K1011383-020	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	1.81	ng/kg	JK	U	22
K1011383	GK-TTR5-1	K1011383-020	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	0.476	ng/kg	JK	U	22
K1011383	GK-TTR5-1	K1011383-020	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	3.38	ng/kg	BJK	U	22
K1011383	GK-TTR5-1	K1011383-020	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	14.7	ng/kg	JK	U	22
K1011383	GK-TTR5-1	K1011383-020	EPA1668A	2,2',6-Trichlorobiphenyl	34.2	ng/kg	BJ	U	7
K1011383	GK-TTR5-1	K1011383-020	EPA1668A	2,3,4'-Trichlorobiphenyl	118	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011383	GK-TTR5-1	K1011383-020	EPA1668A	3,3'-Dichlorobiphenyl	162	ng/kg	BJ	U	7
K1011383	GK-TTR5-1	K1011383-020	EPA1668A	3,4,4'-Trichlorobiphenyl	25.5	ng/kg	BJ	U	7
K1011383	GK-TTR5-1	K1011383-020	EPA1668A	Coelution of PCB 021 and 033	81.5	ng/kg	BJ	U	7
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	17.2	ng/kg	JK	U	22
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	73.1	ng/kg	BJ	U	7
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	123	ng/kg	BJ	U	7
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	6.11	ng/kg	JK	U	22
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	5.38	ng/kg	JK	U	22
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	3.62	ng/kg	JK	U	22
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,2',6-Trichlorobiphenyl	27	ng/kg	BJ	U	7
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	2.8	ng/kg	JK	U	22
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	19.8	ng/kg	JK	U	22
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	42.6	ng/kg	BJK	U	22
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	4.13	ng/kg	JK	U	22
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,3,4'-Trichlorobiphenyl	102	ng/kg	BJ	U	7
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,3,6-Trichlorobiphenyl	2.22	ng/kg	JK	U	22
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,4',6-Trichlorobiphenyl	79.5	ng/kg	BJ	U	7
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	2,5-Dichlorobiphenyl	5.99	ng/kg	JK	U	22
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	3	ng/kg	JK	U	22
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	3,3'-Dichlorobiphenyl	164	ng/kg	BJ	U	7
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	3,4,4'-Trichlorobiphenyl	22.9	ng/kg	BJ	U	7
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	Coelution of PCB 021 and 033	71.4	ng/kg	BJ	U	7
K1011383	GK-TTR5-2	K1011383-021	EPA1668A	Coelution of PCB 043 and 073	13.7	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	7.95	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	1.75	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	11.1	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	31.5	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	2,3',4-Trichlorobiphenyl	3.59	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	2,3,4'-Trichlorobiphenyl	9.97	ng/kg	BJ	U	7
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	2,3',5'-Trichlorobiphenyl	2.83	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	2,3,6-Trichlorobiphenyl	3.8	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	2-Chlorobiphenyl	3	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	6.91	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	3,3'-Dichlorobiphenyl	74.7	ng/kg	BJ	U	7
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	1.86	ng/kg	JK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	Coelution of PCB 021 and 033	5.15	ng/kg	BJK	U	22
K1012518	SJFCA2-LF1	K1012518-004	EPA1668A	Coelution of PCB 043 and 073	7.74	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012518	SJFCA2-LF1-R	K1012518-008	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	15.9	ng/kg	JK	U	22
K1012518	SJFCA2-LF1-R	K1012518-008	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	12	ng/kg	JK	U	22
K1012518	SJFCA2-LF1-R	K1012518-008	EPA1668A	2,3'-Dichlorobiphenyl	30.3	ng/kg	JK	U	22
K1012518	SJFCA2-LF1-R	K1012518-008	EPA1668A	2,4-Dichlorobiphenyl	11.7	ng/kg	JK	U	22
K1012518	SJFCA2-LF1-R	K1012518-008	EPA1668A	2,5-Dichlorobiphenyl	18.6	ng/kg	JK	U	22
K1012518	SJFCA2-LF1-R	K1012518-008	EPA1668A	2,6-Dichlorobiphenyl	8.35	ng/kg	JK	U	22
K1012518	SJFCA2-LF1-R	K1012518-008	EPA1668A	3,3'-Dichlorobiphenyl	86.7	ng/kg	BJ	U	7
K1012518	SJFCA2-LF1-R	K1012518-008	EPA1668A	4,4'-Dichlorobiphenyl	22.3	ng/kg	JK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	20.8	ng/kg	JK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	17.4	ng/kg	JK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	16.6	ng/kg	JK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	11.1	ng/kg	JK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	19.2	ng/kg	JK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	2,2'-Dichlorobiphenyl	39.1	ng/kg	JK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	42.3	ng/kg	JK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	18	ng/kg	JK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	2,3',4-Trichlorobiphenyl	22.9	ng/kg	JK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	15.7	ng/kg	JK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	15.2	ng/kg	JK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	3,3'-Dichlorobiphenyl	74.4	ng/kg	BJ	U	7
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	Coelution of PCB 021 and 033	12.4	ng/kg	BJK	U	22
K1012518	SJFCA2-LF2	K1012518-012	EPA1668A	Coelution of PCB 043 and 073	27	ng/kg	JK	U	22
K1012518	SJFCA2-LF3	K1012518-016	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	78.1	ng/kg	JK	U	22
K1012518	SJFCA2-LF3	K1012518-016	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	16.3	ng/kg	JK	U	22
K1012518	SJFCA2-LF3	K1012518-016	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	6.15	ng/kg	JK	U	22
K1012518	SJFCA2-LF3	K1012518-016	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	9.75	ng/kg	JK	U	22
K1012518	SJFCA2-LF3	K1012518-016	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	7.61	ng/kg	JK	U	22
K1012518	SJFCA2-LF3	K1012518-016	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	57.8	ng/kg	JK	U	22
K1012518	SJFCA2-LF3	K1012518-016	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	10.7	ng/kg	JK	U	22
K1012518	SJFCA2-LF3	K1012518-016	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	12	ng/kg	JK	U	22
K1012518	SJFCA2-LF3	K1012518-016	EPA1668A	2,3',4-Trichlorobiphenyl	13.3	ng/kg	JK	U	22
K1012518	SJFCA2-LF3	K1012518-016	EPA1668A	2,3,4'-Trichlorobiphenyl	8.71	ng/kg	BJ	U	7
K1012518	SJFCA2-LF3	K1012518-016	EPA1668A	3,3'-Dichlorobiphenyl	80.5	ng/kg	BJ	U	7
K1012518	SJFCA2-LF3	K1012518-016	EPA1668A	3,4,4'-Trichlorobiphenyl	7.26	ng/kg	BJK	U	22
K1012518	SJFCA2-LF3	K1012518-016	EPA1668A	Coelution of PCB 021 and 033	9.36	ng/kg	BJ	U	7
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	15.9	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	89.6	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	4.17	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	10.8	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	10.4	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	12.3	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	8.77	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	4.2	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2,2',4-Trichlorobiphenyl	7.36	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	5.34	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	79.8	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2,3,4'-Trichlorobiphenyl	5.37	ng/kg	BJ	U	7
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2,3',6-Trichlorobiphenyl	3.05	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	2-Chlorobiphenyl	4.08	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	9.06	ng/kg	JK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	3,3'-Dichlorobiphenyl	119	ng/kg	BJ	U	7
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	3,4,4'-Trichlorobiphenyl	4.11	ng/kg	BJK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	Coelution of PCB 021 and 033	6.58	ng/kg	BJK	U	22
K1012518	SJFCA2-LF4	K1012518-020	EPA1668A	Coelution of PCB 043 and 073	7.82	ng/kg	JK	U	22
K1012518	SJFCA2-LF4-R	K1012518-024	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	6.59	ng/kg	JK	U	22
K1012518	SJFCA2-LF4-R	K1012518-024	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	10.8	ng/kg	JK	U	22
K1012518	SJFCA2-LF4-R	K1012518-024	EPA1668A	2,2',4-Trichlorobiphenyl	47.3	ng/kg	JK	U	22
K1012518	SJFCA2-LF4-R	K1012518-024	EPA1668A	2-Chlorobiphenyl	24.2	ng/kg	JK	U	22
K1012518	SJFCA2-LF4-R	K1012518-024	EPA1668A	3,3',5,5'-Tetrachlorobiphenyl	7.08	ng/kg	JK	U	22
K1012518	SJFCA2-LF4-R	K1012518-024	EPA1668A	3,3'-Dichlorobiphenyl	81.3	ng/kg	BJ	U	7
K1012518	SJFCA2-LF4-R	K1012518-024	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	15.1	ng/kg	JK	U	22
K1012518	SJFCA2-LF5	K1012518-028	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	1.89	ng/kg	JK	U	22
K1012518	SJFCA2-LF5	K1012518-028	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	8.39	ng/kg	JK	U	22
K1012518	SJFCA2-LF5	K1012518-028	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	46	ng/kg	JK	U	22
K1012518	SJFCA2-LF5	K1012518-028	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	15	ng/kg	JK	U	22
K1012518	SJFCA2-LF5	K1012518-028	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	12.5	ng/kg	JK	U	22
K1012518	SJFCA2-LF5	K1012518-028	EPA1668A	2,3',4-Trichlorobiphenyl	20	ng/kg	JK	U	22
K1012518	SJFCA2-LF5	K1012518-028	EPA1668A	2,3,4'-Trichlorobiphenyl	12.4	ng/kg	BJ	U	7
K1012518	SJFCA2-LF5	K1012518-028	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	8.32	ng/kg	JK	U	22
K1012518	SJFCA2-LF5	K1012518-028	EPA1668A	3,3'-Dichlorobiphenyl	71.2	ng/kg	BJ	U	7
K1012518	SJFCA2-LF5	K1012518-028	EPA1668A	3,4,4'-Trichlorobiphenyl	8.33	ng/kg	BJK	U	22
K1012518	SJFCA2-LF5	K1012518-028	EPA1668A	Coelution of PCB 021 and 033	9.87	ng/kg	BJ	U	7
K1012518	SJFCA2-LF6	K1012518-032	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	125	ng/kg	JK	U	22
K1012518	SJFCA2-LF6	K1012518-032	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	1.7	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012518	SJFCA2-LF6	K1012518-032	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	1.76	ng/kg	JK	U	22
K1012518	SJFCA2-LF6	K1012518-032	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	21.8	ng/kg	JK	U	22
K1012518	SJFCA2-LF6	K1012518-032	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	22.5	ng/kg	JK	U	22
K1012518	SJFCA2-LF6	K1012518-032	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	2.92	ng/kg	JK	U	22
K1012518	SJFCA2-LF6	K1012518-032	EPA1668A	2,3,4'-Trichlorobiphenyl	9.3	ng/kg	BJ	U	7
K1012518	SJFCA2-LF6	K1012518-032	EPA1668A	2,3',6-Trichlorobiphenyl	4.8	ng/kg	JK	U	22
K1012518	SJFCA2-LF6	K1012518-032	EPA1668A	2-Chlorobiphenyl	4.84	ng/kg	JK	U	22
K1012518	SJFCA2-LF6	K1012518-032	EPA1668A	3,3'-Dichlorobiphenyl	63	ng/kg	BJ	U	7
K1012518	SJFCA2-LF6	K1012518-032	EPA1668A	Coelution of PCB 021 and 033	6.19	ng/kg	BJK	U	22
K1012518	SJFCA2-LF7	K1012518-036	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	16.5	ng/kg	JK	U	22
K1012518	SJFCA2-LF7	K1012518-036	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	1.1	ng/kg	JK	U	22
K1012518	SJFCA2-LF7	K1012518-036	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	10.4	ng/kg	JK	U	22
K1012518	SJFCA2-LF7	K1012518-036	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	9.75	ng/kg	JK	U	22
K1012518	SJFCA2-LF7	K1012518-036	EPA1668A	2,3,4'-Trichlorobiphenyl	8.56	ng/kg	BJ	U	7
K1012518	SJFCA2-LF7	K1012518-036	EPA1668A	3,3'-Dichlorobiphenyl	80	ng/kg	BJ	U	7
K1012518	SJFCA2-LF7	K1012518-036	EPA1668A	Coelution of PCB 021 and 033	9.47	ng/kg	BJ	U	7
K1012518	SJFCA2-LF7	K1012518-036	EPA1668A	Coelution of PCB 043 and 073	13.6	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	15	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	25.9	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	7.11	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	21.7	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	16.3	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	85.6	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	7.35	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	7.06	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	2,2',4-Trichlorobiphenyl	8.59	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	12.2	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	2,3,4'-Trichlorobiphenyl	8.81	ng/kg	BJ	U	7
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	2,3',5'-Trichlorobiphenyl	4.37	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	2,3',6-Trichlorobiphenyl	4.05	ng/kg	JK	U	22
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	3,3'-Dichlorobiphenyl	124	ng/kg	BJ	U	7
K1012518	SJFCA2-LF8	K1012518-040	EPA1668A	Coelution of PCB 021 and 033	8.37	ng/kg	BJ	U	7
K1012518	SJFCA2-LF8-R	K1012518-044	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	39.4	ng/kg	JK	U	22
K1012518	SJFCA2-LF8-R	K1012518-044	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	107	ng/kg	JK	U	22
K1012518	SJFCA2-LF8-R	K1012518-044	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	600	ng/kg	K	U	22
K1012518	SJFCA2-LF8-R	K1012518-044	EPA1668A	2,3'-Dichlorobiphenyl	22.1	ng/kg	JK	U	22
K1012518	SJFCA2-LF8-R	K1012518-044	EPA1668A	3,3',4,4',5,5'-Hexachlorobiphenyl	36.9	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012518	SJFCA2-LF8-R	K1012518-044	EPA1668A	3,3'-Dichlorobiphenyl	139	ng/kg	BJ	U	7
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	9.8	ng/kg	JK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	14.1	ng/kg	JK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	16.7	ng/kg	JK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	7.42	ng/kg	JK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	2,3',4-Trichlorobiphenyl	6.97	ng/kg	JK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	2,3,4'-Trichlorobiphenyl	7.73	ng/kg	BJ	U	7
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	2,3',5'-Trichlorobiphenyl	2.15	ng/kg	JK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	2,4'-Dichlorobiphenyl	8.58	ng/kg	BJK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	2-Chlorobiphenyl	3.1	ng/kg	JK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	5.76	ng/kg	JK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	3,3',4,5,5'-Pentachlorobiphenyl	6.3	ng/kg	JK	U	22
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	3,3'-Dichlorobiphenyl	98.9	ng/kg	BJ	U	7
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	Coelution of PCB 021 and 033	6.89	ng/kg	BJ	U	7
K1012518	SJFCA2-LF9	K1012518-048	EPA1668A	Coelution of PCB 108 and 124	28	ng/kg	JK	U	22
K1012518	SJFCA2-LF10	K1012518-052	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	12	ng/kg	JK	U	22
K1012518	SJFCA2-LF10	K1012518-052	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	14	ng/kg	JK	U	22
K1012518	SJFCA2-LF10	K1012518-052	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	4.48	ng/kg	JK	U	22
K1012518	SJFCA2-LF10	K1012518-052	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	1.11	ng/kg	JK	U	22
K1012518	SJFCA2-LF10	K1012518-052	EPA1668A	2,3,4'-Trichlorobiphenyl	7.25	ng/kg	BJ	U	7
K1012518	SJFCA2-LF10	K1012518-052	EPA1668A	2,3',5'-Trichlorobiphenyl	2.32	ng/kg	JK	U	22
K1012518	SJFCA2-LF10	K1012518-052	EPA1668A	2,4'-Dichlorobiphenyl	9.38	ng/kg	BJ	U	7
K1012518	SJFCA2-LF10	K1012518-052	EPA1668A	3,3',4,5,5'-Pentachlorobiphenyl	5.39	ng/kg	JK	U	22
K1012518	SJFCA2-LF10	K1012518-052	EPA1668A	3,3'-Dichlorobiphenyl	126	ng/kg	BJ	U	7
K1012518	SJFCA2-LF10	K1012518-052	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	2.68	ng/kg	JK	U	22
K1012518	SJFCA2-LF10	K1012518-052	EPA1668A	3-Chlorobiphenyl	1.21	ng/kg	JK	U	22
K1012518	SJFCA2-LF10	K1012518-052	EPA1668A	Coelution of PCB 021 and 033	6.82	ng/kg	BJ	U	7
K1012518	SJFCA2-LF10-R	K1012518-056	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	7.79	ng/kg	JK	U	22
K1012518	SJFCA2-LF10-R	K1012518-056	EPA1668A	2,4'-Dichlorobiphenyl	22.2	ng/kg	BJ	U	7
K1012518	SJFCA2-LF10-R	K1012518-056	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	24.4	ng/kg	JK	U	22
K1012518	SJFCA2-LF10-R	K1012518-056	EPA1668A	3,3'-Dichlorobiphenyl	126	ng/kg	BJ	U	7
K1012518	SJFCA2-LF10-R	K1012518-056	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	8.44	ng/kg	JK	U	22
K1012518	SJFCA2-LF10-R	K1012518-056	EPA1668A	Coelution of PCB 021 and 033	16.5	ng/kg	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	7.53	pg/L	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	12	pg/L	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	2,2',3,4',5,5',6-Heptachlorobiphenyl	5.12	pg/L	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	5.34	pg/L	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012518	Catfish	K1012518-057	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	3.88	pg/L	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	42.6	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	2,2',4-Trichlorobiphenyl	7.36	pg/L	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	50.1	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	2,2'-Dichlorobiphenyl	11.5	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	4.11	pg/L	JK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	12.3	pg/L	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	5.97	pg/L	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	30.7	pg/L	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	2,3',4,4'-Tetrachlorobiphenyl	11.8	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	2,3,4'-Trichlorobiphenyl	11.4	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	2,4',5-Trichlorobiphenyl	21.8	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	2,4',6-Trichlorobiphenyl	6.6	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	2,4'-Dichlorobiphenyl	16.6	pg/L	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	2-Chlorobiphenyl	5.3	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	3.28	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	3,3'-Dichlorobiphenyl	474	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 018 and 030	20.4	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 021 and 033	13.7	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 040, 041, and 071	10.6	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 044, 047, and 065	82.4	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 045 and 051	11.4	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 049 and 069	17.5	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 061, 070, 074, and 076	36.4	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 083 and 099	27	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	33.1	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 088 and 091	6	pg/L	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 090, 101, and 113	49.7	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 110 and 115	53.3	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 128 and 166	5.79	pg/L	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 129, 138, and 163	35.8	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 147 and 149	24.4	pg/L	BJ	U	7
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 153 and 168	21.2	pg/L	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 156 and 157	5.49	pg/L	BJK	U	22
K1012518	Catfish	K1012518-057	EPA1668A	Coelution of PCB 180 and 193	6.57	pg/L	BJK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	23.3	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	30.3	ng/kg	BJK	U	22

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San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	2.39	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	6.34	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	4.69	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	3.55	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	13.7	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	5.3	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	51.2	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,3,4'-Trichlorobiphenyl	5.06	ng/kg	BJK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,3',5'-Trichlorobiphenyl	1.22	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,3',6-Trichlorobiphenyl	2.52	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,4',5-Trichlorobiphenyl	20	ng/kg	BJ	U	7
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2,4'-Dichlorobiphenyl	9.78	ng/kg	BJ	U	7
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	2-Chlorobiphenyl	2.6	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	2.99	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	3,3'-Dichlorobiphenyl	145	ng/kg	BJ	U	7
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	4-Chlorobiphenyl	2	ng/kg	JK	U	22
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	Coelution of PCB 021 and 033	6.65	ng/kg	BJ	U	7
K1012523	SJFCA3-LF1	K1012523-004	EPA1668A	Coelution of PCB 043 and 073	2	ng/kg	JK	U	22
K1012523	SJFCA3-LF1-R	K1012523-008	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	5.1	ng/kg	JK	U	22
K1012523	SJFCA3-LF1-R	K1012523-008	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	9.43	ng/kg	JK	U	22
K1012523	SJFCA3-LF1-R	K1012523-008	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	37.5	ng/kg	JK	U	22
K1012523	SJFCA3-LF1-R	K1012523-008	EPA1668A	3,3'-Dichlorobiphenyl	158	ng/kg	BJ	U	7
K1012523	SJFCA3-LF2	K1012523-012	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	5.95	ng/kg	JK	U	22
K1012523	SJFCA3-LF2	K1012523-012	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	1.6	ng/kg	JK	U	22
K1012523	SJFCA3-LF2	K1012523-012	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	5.92	ng/kg	JK	U	22
K1012523	SJFCA3-LF2	K1012523-012	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	2.83	ng/kg	JK	U	22
K1012523	SJFCA3-LF2	K1012523-012	EPA1668A	2,3',4-Trichlorobiphenyl	17.5	ng/kg	JK	U	22
K1012523	SJFCA3-LF2	K1012523-012	EPA1668A	2,3,4'-Trichlorobiphenyl	12.4	ng/kg	BJ	U	7
K1012523	SJFCA3-LF2	K1012523-012	EPA1668A	2,3',5'-Trichlorobiphenyl	3.76	ng/kg	JK	U	22
K1012523	SJFCA3-LF2	K1012523-012	EPA1668A	2,4'-Dichlorobiphenyl	10.9	ng/kg	BJ	U	7
K1012523	SJFCA3-LF2	K1012523-012	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	13.5	ng/kg	JK	U	22
K1012523	SJFCA3-LF2	K1012523-012	EPA1668A	3,3'-Dichlorobiphenyl	111	ng/kg	BJ	U	7
K1012523	SJFCA3-LF2	K1012523-012	EPA1668A	Coelution of PCB 021 and 033	10.7	ng/kg	BJ	U	7
K1012523	SJFCA3-LF3	K1012523-016	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	4.95	ng/kg	JK	U	22
K1012523	SJFCA3-LF3	K1012523-016	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	12.2	ng/kg	JK	U	22
K1012523	SJFCA3-LF3	K1012523-016	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	20.8	ng/kg	JK	U	22
K1012523	SJFCA3-LF3	K1012523-016	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	61.4	ng/kg	JK	U	22

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012523	SJFCA3-LF3	K1012523-016	EPA1668A	2,3,4'-Trichlorobiphenyl	7.47	ng/kg	BJK	U	22
K1012523	SJFCA3-LF3	K1012523-016	EPA1668A	2,3',5'-Trichlorobiphenyl	1.9	ng/kg	JK	U	22
K1012523	SJFCA3-LF3	K1012523-016	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	11	ng/kg	JK	U	22
K1012523	SJFCA3-LF3	K1012523-016	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	6.32	ng/kg	JK	U	22
K1012523	SJFCA3-LF3	K1012523-016	EPA1668A	3,3'-Dichlorobiphenyl	152	ng/kg	BJ	U	7
K1012523	SJFCA3-LF3	K1012523-016	EPA1668A	3,4,4'-Trichlorobiphenyl	5.78	ng/kg	BJK	U	22
K1012523	SJFCA3-LF3	K1012523-016	EPA1668A	Coelution of PCB 021 and 033	10.2	ng/kg	BJ	U	7
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	21.6	ng/kg	JK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	6.32	ng/kg	JK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	2.16	ng/kg	JK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	2,2',4-Trichlorobiphenyl	10.9	ng/kg	JK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	2,3,4'-Trichlorobiphenyl	11.5	ng/kg	BJ	U	7
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	2,3',5'-Trichlorobiphenyl	3.74	ng/kg	JK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	2,3,6-Trichlorobiphenyl	6.23	ng/kg	JK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	2,4'-Dichlorobiphenyl	9.44	ng/kg	BJK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	2-Chlorobiphenyl	3.81	ng/kg	JK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	14.5	ng/kg	JK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	3,3',4,5,5'-Pentachlorobiphenyl	11.5	ng/kg	JK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	7.66	ng/kg	JK	U	22
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	3,3'-Dichlorobiphenyl	127	ng/kg	BJ	U	7
K1012523	SJFCA3-LF4	K1012523-020	EPA1668A	Coelution of PCB 021 and 033	11	ng/kg	BJ	U	7
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	7.41	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	59.3	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	2.72	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	8.36	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	4.05	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	2.64	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	3.54	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	2.4	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	3.91	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	2,3,4'-Trichlorobiphenyl	7.18	ng/kg	BJ	U	7
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	2,3',5'-Trichlorobiphenyl	1.34	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	2.83	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	5.83	ng/kg	JK	U	22
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	3,3'-Dichlorobiphenyl	154	ng/kg	BJ	U	7
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	Coelution of PCB 018 and 030	21.1	ng/kg	BJ	U	7
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	Coelution of PCB 021 and 033	7.76	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012523	SJFCA3-LF5	K1012523-024	EPA1668A	Coelution of PCB 043 and 073	5.59	ng/kg	JK	U	22
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	11.9	ng/kg	JK	U	22
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	6.1	ng/kg	JK	U	22
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	18.7	ng/kg	JK	U	22
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	3.23	ng/kg	JK	U	22
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	1.53	ng/kg	JK	U	22
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	2,2',4-Trichlorobiphenyl	10.9	ng/kg	BJ	U	7
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	16.6	ng/kg	JK	U	22
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	2,3,4'-Trichlorobiphenyl	9.01	ng/kg	BJ	U	7
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	2,3',5'-Trichlorobiphenyl	3.7	ng/kg	JK	U	22
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	2,4',6-Trichlorobiphenyl	5.16	ng/kg	BJ	U	7
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	11.8	ng/kg	JK	U	22
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	3,3'-Dichlorobiphenyl	72.5	ng/kg	BJ	U	7
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	3,4,4'-Trichlorobiphenyl	7.04	ng/kg	BJ	U	7
K1012523	SJFCA3-LF6	K1012523-028	EPA1668A	Coelution of PCB 098 and 102	25.5	ng/kg	BJ	U	7
K1012523	SJFCA3-LF6-R	K1012523-032	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	86.5	ng/kg	JK	U	22
K1012523	SJFCA3-LF6-R	K1012523-032	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	6.25	ng/kg	JK	U	22
K1012523	SJFCA3-LF6-R	K1012523-032	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	9.37	ng/kg	JK	U	22
K1012523	SJFCA3-LF6-R	K1012523-032	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	9.01	ng/kg	JK	U	22
K1012523	SJFCA3-LF6-R	K1012523-032	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	88.3	ng/kg	JK	U	22
K1012523	SJFCA3-LF6-R	K1012523-032	EPA1668A	3,3',4,5,5'-Pentachlorobiphenyl	80.5	ng/kg	JK	U	22
K1012523	SJFCA3-LF6-R	K1012523-032	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	18.6	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	67.5	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	35.6	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	21.6	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	2.6	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	16.5	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	2.59	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	14.7	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	13	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	4.27	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	2,3',6-Trichlorobiphenyl	9.35	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	2,3,6-Trichlorobiphenyl	9.73	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	2,4',6-Trichlorobiphenyl	8.24	ng/kg	BJK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	5.59	ng/kg	JK	U	22
K1012523	SJFCA3-LF7	K1012523-036	EPA1668A	3,4,4'-Trichlorobiphenyl	10.8	ng/kg	BJ	U	7
K1012523	SJFCA3-LF8	K1012523-040	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	6.65	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012523	SJFCA3-LF8	K1012523-040	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	93.1	ng/kg	JK	U	22
K1012523	SJFCA3-LF8	K1012523-040	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	1.65	ng/kg	JK	U	22
K1012523	SJFCA3-LF8	K1012523-040	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	9.91	ng/kg	JK	U	22
K1012523	SJFCA3-LF8	K1012523-040	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	3.34	ng/kg	JK	U	22
K1012523	SJFCA3-LF8	K1012523-040	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	44.3	ng/kg	JK	U	22
K1012523	SJFCA3-LF8	K1012523-040	EPA1668A	2,3,4'-Trichlorobiphenyl	10.5	ng/kg	BJ	U	7
K1012523	SJFCA3-LF8	K1012523-040	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	4.72	ng/kg	JK	U	22
K1012523	SJFCA3-LF8	K1012523-040	EPA1668A	3,4,4'-Trichlorobiphenyl	5.89	ng/kg	BJ	U	7
K1012523	SJFCA3-LF8	K1012523-040	EPA1668A	Coelution of PCB 098 and 102	27.3	ng/kg	BJ	U	7
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	15.2	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	53	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	11.1	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	4.01	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	2.29	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	31.2	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	11.5	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	8.29	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	5.44	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	2,3',5'-Trichlorobiphenyl	8.17	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	2,3,6-Trichlorobiphenyl	11.6	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	2-Chlorobiphenyl	7.44	ng/kg	JK	U	22
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	3,3'-Dichlorobiphenyl	63.8	ng/kg	BJ	U	7
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	3,4,4'-Trichlorobiphenyl	10.3	ng/kg	BJ	U	7
K1012523	SJFCA3-LF9	K1012523-044	EPA1668A	Coelution of PCB 021 and 033	17.1	ng/kg	BJK	U	22
K1012523	SJFCA3-LF10	K1012523-048	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	7.04	ng/kg	JK	U	22
K1012523	SJFCA3-LF10	K1012523-048	EPA1668A	2,2',3-Trichlorobiphenyl	45.7	ng/kg	JK	U	22
K1012523	SJFCA3-LF10	K1012523-048	EPA1668A	2,3',4-Trichlorobiphenyl	12.1	ng/kg	JK	U	22
K1012523	SJFCA3-LF10	K1012523-048	EPA1668A	2,3',6-Trichlorobiphenyl	9.93	ng/kg	JK	U	22
K1012523	SJFCA3-LF10	K1012523-048	EPA1668A	2,3,6-Trichlorobiphenyl	7.61	ng/kg	JK	U	22
K1012523	SJFCA3-LF10	K1012523-048	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	15.7	ng/kg	JK	U	22
K1012523	SJFCA3-LF10	K1012523-048	EPA1668A	3,3',4,5,5'-Pentachlorobiphenyl	13.6	ng/kg	JK	U	22
K1012523	SJFCA3-LF10	K1012523-048	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	8.52	ng/kg	JK	U	22
K1012523	SJFCA3-LF10	K1012523-048	EPA1668A	3,3'-Dichlorobiphenyl	82.4	ng/kg	BJ	U	7
K1012523	SJFCA3-LF10	K1012523-048	EPA1668A	3,4,4'-Trichlorobiphenyl	1.58	ng/kg	U	U	7
K1012523	SJFCA3-LF10-R	K1012523-052	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	60.4	ng/kg	JK	U	22
K1012523	SJFCA3-LF10-R	K1012523-052	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	7.78	ng/kg	JK	U	22
K1012523	SJFCA3-LF10-R	K1012523-052	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	13.5	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012523	SJFCA3-LF10-R	K1012523-052	EPA1668A	2,2'-Dichlorobiphenyl	139	ng/kg	JK	U	22
K1012523	SJFCA3-LF10-R	K1012523-052	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	10.9	ng/kg	JK	U	22
K1012523	SJFCA3-LF10-R	K1012523-052	EPA1668A	3,4,4'-Trichlorobiphenyl	35.3	ng/kg	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	6.28	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	4.46	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	2.57	pg/L	JK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	4.01	pg/L	BJ	J	13
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	2.69	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	12	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	4.23	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	3.41	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	13.1	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	2.58	pg/L	JK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	2.41	pg/L	JK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,4',5,5',6-Heptachlorobiphenyl	5.28	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,4',5,5'-Hexachlorobiphenyl	6.54	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	6.6	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	3.43	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	38.3	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	2.7	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',4-Trichlorobiphenyl	7.75	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	41.4	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	3.31	pg/L	JK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	13.9	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	34.2	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,3',4,4'-Tetrachlorobiphenyl	13.9	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	3.48	pg/L	JK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	8.66	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,3,4'-Trichlorobiphenyl	7.89	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,4',5-Trichlorobiphenyl	17	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,4',6-Trichlorobiphenyl	6.47	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2,4'-Dichlorobiphenyl	14.4	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	2-Chlorobiphenyl	3.34	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	3,3'-Dichlorobiphenyl	383	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	3-Chlorobiphenyl	3.34	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 018 and 030	16.8	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 021 and 033	13.2	pg/L	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 040, 041, and 071	10.2	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 044, 047, and 065	69.5	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 045 and 051	8.79	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 049 and 069	15.9	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 050 and 053	4.11	pg/L	JK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 061, 070, 074, and 076	34.4	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 083 and 099	29	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 085 and 116	5.51	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	30	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 088 and 091	4.44	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 090, 101, and 113	47.9	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 110 and 115	46.2	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 128 and 166	6.4	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 129, 138, and 163	40.2	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 135 and 151	8.15	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 147 and 149	25.3	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 153 and 168	32.6	pg/L	BJ	U	7
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 156 and 157	5.71	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 180 and 193	9.59	pg/L	BJK	U	22
K1012523	Catfish-K1012523	K1012523-053	EPA1668A	Coelution of PCB 198 and 199	2.85	pg/L	BJK	U	22
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	13.1	ng/kg	JK	U	22
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	5.99	ng/kg	JK	U	22
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	9.99	ng/kg	JK	U	22
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	2.37	ng/kg	JK	U	22
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	13.7	ng/kg	JK	U	22
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	6.66	ng/kg	JK	U	22
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	2,3',4-Trichlorobiphenyl	9.52	ng/kg	JK	U	22
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	2,3,4'-Trichlorobiphenyl	10.2	ng/kg	BJK	U	22
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	2,3',5'-Trichlorobiphenyl	7.17	ng/kg	JK	U	22
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	2,4',6-Trichlorobiphenyl	7.22	ng/kg	BJ	U	7
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	10.2	ng/kg	JK	U	22
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	10.8	ng/kg	JK	U	22
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	3,3'-Dichlorobiphenyl	154	ng/kg	BJ	U	7
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	3,4,4'-Trichlorobiphenyl	6	ng/kg	BJ	U	7
K1012526	SJFCA1-LF1	K1012526-004	EPA1668A	Coelution of PCB 098 and 102	26.5	ng/kg	BJ	U	7
K1012526	SJFCA1-LF1-R	K1012526-008	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	3.86	ng/kg	JK	U	22
K1012526	SJFCA1-LF1-R	K1012526-008	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	8.75	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012526	SJFCA1-LF1-R	K1012526-008	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	43.4	ng/kg	JK	U	22
K1012526	SJFCA1-LF1-R	K1012526-008	EPA1668A	2,4'-Dichlorobiphenyl	26.1	ng/kg	JK	U	22
K1012526	SJFCA1-LF1-R	K1012526-008	EPA1668A	2,5-Dichlorobiphenyl	29.4	ng/kg	JK	U	22
K1012526	SJFCA1-LF1-R	K1012526-008	EPA1668A	3,3'-Dichlorobiphenyl	75.5	ng/kg	BJ	U	7
K1012526	SJFCA1-LF1-R	K1012526-008	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	10.4	ng/kg	JK	U	22
K1012526	SJFCA1-LF1-R	K1012526-008	EPA1668A	Coelution of PCB 021 and 033	54.6	ng/kg	BJK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	12.3	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	16.8	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	2.06	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,2',4-Trichlorobiphenyl	8.64	ng/kg	BJ	U	7
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	6.29	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	12.2	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	8.41	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	3.63	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	1.58	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	1.95	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,3,4'-Trichlorobiphenyl	9.17	ng/kg	BJ	U	7
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,3',5'-Trichlorobiphenyl	4.15	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,3,6-Trichlorobiphenyl	5.06	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	2,4',6-Trichlorobiphenyl	7.21	ng/kg	BJ	U	7
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	3,3'-Dichlorobiphenyl	69.6	ng/kg	BJ	U	7
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	2.39	ng/kg	JK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	3,4,4'-Trichlorobiphenyl	6.75	ng/kg	BJ	U	7
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	Coelution of PCB 040, 041, and 071	44.1	ng/kg	BJK	U	22
K1012526	SJFCA1-LF2	K1012526-012	EPA1668A	Coelution of PCB 098 and 102	26.6	ng/kg	BJ	U	7
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	67.5	ng/kg	JK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	5.95	ng/kg	JK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	20.9	ng/kg	JK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	11.9	ng/kg	JK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	0.68	ng/kg	JK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	1.98	ng/kg	JK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2,2',4-Trichlorobiphenyl	10.1	ng/kg	BJ	U	7
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	10.3	ng/kg	JK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2,3,4'-Trichlorobiphenyl	5.89	ng/kg	BJK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2,3',6-Trichlorobiphenyl	4.71	ng/kg	JK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2,3,6-Trichlorobiphenyl	3.88	ng/kg	JK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2,4',5-Trichlorobiphenyl	18.3	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2,4',6-Trichlorobiphenyl	7.74	ng/kg	BJK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	2-Chlorobiphenyl	2.32	ng/kg	JK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	6.56	ng/kg	JK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	3,3'-Dichlorobiphenyl	60	ng/kg	BJ	U	7
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	Coelution of PCB 021 and 033	12.3	ng/kg	BJK	U	22
K1012526	SJFCA1-LF3	K1012526-016	EPA1668A	Coelution of PCB 098 and 102	14.6	ng/kg	BJ	U	7
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	14.1	ng/kg	JK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	5.25	ng/kg	JK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	1	ng/kg	JK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	2,2',4-Trichlorobiphenyl	7.66	ng/kg	BJ	U	7
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	8.75	ng/kg	JK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	6.97	ng/kg	JK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	3.82	ng/kg	JK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	2,3,4'-Trichlorobiphenyl	8.59	ng/kg	BJ	U	7
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	2,3',5'-Trichlorobiphenyl	3.85	ng/kg	JK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	2,3',6-Trichlorobiphenyl	3.67	ng/kg	JK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	2,3,6-Trichlorobiphenyl	8.03	ng/kg	JK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	2,4',6-Trichlorobiphenyl	6.41	ng/kg	BJ	U	7
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	2-Chlorobiphenyl	2.78	ng/kg	JK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	9.51	ng/kg	JK	U	22
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	3,3'-Dichlorobiphenyl	57.1	ng/kg	BJ	U	7
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	3,4,4'-Trichlorobiphenyl	6.83	ng/kg	BJ	U	7
K1012526	SJFCA1-LF4	K1012526-020	EPA1668A	Coelution of PCB 098 and 102	22.1	ng/kg	BJ	U	7
K1012526	SJFCA1-LF5	K1012526-024	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	9.17	ng/kg	JK	U	22
K1012526	SJFCA1-LF5	K1012526-024	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	28.8	ng/kg	JK	U	22
K1012526	SJFCA1-LF5	K1012526-024	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	19.7	ng/kg	JK	U	22
K1012526	SJFCA1-LF5	K1012526-024	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	0.871	ng/kg	JK	U	22
K1012526	SJFCA1-LF5	K1012526-024	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	1.78	ng/kg	JK	U	22
K1012526	SJFCA1-LF5	K1012526-024	EPA1668A	2,2',4-Trichlorobiphenyl	8.64	ng/kg	BJ	U	7
K1012526	SJFCA1-LF5	K1012526-024	EPA1668A	2,3',4-Trichlorobiphenyl	8.78	ng/kg	JK	U	22
K1012526	SJFCA1-LF5	K1012526-024	EPA1668A	2,3,4'-Trichlorobiphenyl	5.4	ng/kg	BJ	U	7
K1012526	SJFCA1-LF5	K1012526-024	EPA1668A	2,4',6-Trichlorobiphenyl	6.29	ng/kg	BJ	U	7
K1012526	SJFCA1-LF5	K1012526-024	EPA1668A	2-Chlorobiphenyl	2.71	ng/kg	JK	U	22
K1012526	SJFCA1-LF5	K1012526-024	EPA1668A	3,3'-Dichlorobiphenyl	78.5	ng/kg	BJ	U	7
K1012526	SJFCA1-LF5	K1012526-024	EPA1668A	3,4,4'-Trichlorobiphenyl	6.25	ng/kg	BJ	U	7
K1012526	SJFCA1-LF5	K1012526-024	EPA1668A	Coelution of PCB 098 and 102	21.7	ng/kg	BJ	U	7
K1012526	SJFCA1-LF6	K1012526-028	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	10.6	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012526	SJFCA1-LF6	K1012526-028	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	7.44	ng/kg	JK	U	22
K1012526	SJFCA1-LF6	K1012526-028	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	25.6	ng/kg	JK	U	22
K1012526	SJFCA1-LF6	K1012526-028	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	8.32	ng/kg	JK	U	22
K1012526	SJFCA1-LF6	K1012526-028	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	2.27	ng/kg	JK	U	22
K1012526	SJFCA1-LF6	K1012526-028	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	2.61	ng/kg	JK	U	22
K1012526	SJFCA1-LF6	K1012526-028	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	18.1	ng/kg	JK	U	22
K1012526	SJFCA1-LF6	K1012526-028	EPA1668A	2,3',5'-Trichlorobiphenyl	3.84	ng/kg	JK	U	22
K1012526	SJFCA1-LF6	K1012526-028	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	14.9	ng/kg	JK	U	22
K1012526	SJFCA1-LF6	K1012526-028	EPA1668A	3,3'-Dichlorobiphenyl	68.9	ng/kg	BJ	U	7
K1012526	SJFCA1-LF6	K1012526-028	EPA1668A	3,4,4'-Trichlorobiphenyl	7.44	ng/kg	BJ	U	7
K1012526	SJFCA1-LF6	K1012526-028	EPA1668A	Coelution of PCB 108 and 124	38.2	ng/kg	JK	U	22
K1012526	SJFCA1-LF6-R	K1012526-032	EPA1668A	2,2',3,4,6'-Pentachlorobiphenyl	9.94	ng/kg	JK	U	22
K1012526	SJFCA1-LF6-R	K1012526-032	EPA1668A	2,6-Dichlorobiphenyl	11.1	ng/kg	JK	U	22
K1012526	SJFCA1-LF6-R	K1012526-032	EPA1668A	3,3',4,5,5'-Pentachlorobiphenyl	54.9	ng/kg	JK	U	22
K1012526	SJFCA1-LF6-R	K1012526-032	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	68.2	ng/kg	JK	U	22
K1012526	SJFCA1-LF6-R	K1012526-032	EPA1668A	3,3'-Dichlorobiphenyl	66.7	ng/kg	BJ	U	7
K1012526	SJFCA1-LF6-R	K1012526-032	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	12	ng/kg	JK	U	22
K1012526	SJFCA1-LF6-R	K1012526-032	EPA1668A	3,4,4'-Trichlorobiphenyl	33.9	ng/kg	BJK	U	22
K1012526	SJFCA1-LF6-R	K1012526-032	EPA1668A	3,4,5-Trichlorobiphenyl	7.76	ng/kg	JK	U	22
K1012526	SJFCA1-LF6-R	K1012526-032	EPA1668A	Coelution of PCB 043 and 073	80.3	ng/kg	JK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	2,2',3,3',4,5'-Hexachlorobiphenyl	18.8	ng/kg	JK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	3.94	ng/kg	BJ	U	7
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	14.2	ng/kg	BJ	U	7
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	9.94	ng/kg	JK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	2,2',3-Trichlorobiphenyl	7.64	ng/kg	JK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	2,2',6-Trichlorobiphenyl	7.44	ng/kg	JK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	11.6	ng/kg	JK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	25.4	ng/kg	JK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	27.3	ng/kg	JK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	4.3	ng/kg	JK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	2,3,4'-Trichlorobiphenyl	2.35	ng/kg	BJK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	2,4',5-Trichlorobiphenyl	6.71	ng/kg	BJ	U	7
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	2,4',6-Trichlorobiphenyl	1.5	ng/kg	BJK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	Coelution of PCB 018 and 030	8.67	ng/kg	BJ	U	7
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	Coelution of PCB 040, 041, and 071	2.37	ng/kg	BJK	U	22
K1012526	SJFCA1-LF7	K1012526-036	EPA1668A	Coelution of PCB 098 and 102	1.2	ng/kg	BJK	U	22
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	15.4	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	10.3	ng/kg	JK	U	22
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	9.07	ng/kg	JK	U	22
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	2,2',4-Trichlorobiphenyl	9.06	ng/kg	BJ	U	7
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	2.36	ng/kg	JK	U	22
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	90.4	ng/kg	JK	U	22
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	4.7	ng/kg	JK	U	22
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	2,3',4-Trichlorobiphenyl	9.31	ng/kg	JK	U	22
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	2,3,4'-Trichlorobiphenyl	6.34	ng/kg	BJK	U	22
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	2,3',5'-Trichlorobiphenyl	3.65	ng/kg	JK	U	22
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	2,3,6-Trichlorobiphenyl	8.33	ng/kg	JK	U	22
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	2,4',6-Trichlorobiphenyl	6.44	ng/kg	BJ	U	7
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	3,3'-Dichlorobiphenyl	60.6	ng/kg	BJ	U	7
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	2.53	ng/kg	JK	U	22
K1012526	SJFCA1-LF8	K1012526-040	EPA1668A	3,4,4'-Trichlorobiphenyl	5.53	ng/kg	BJK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	9.19	ng/kg	JK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	3.63	ng/kg	JK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	1.72	ng/kg	JK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	2,2',4-Trichlorobiphenyl	7.99	ng/kg	BJ	U	7
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	2,2'-Dichlorobiphenyl	11.7	ng/kg	JK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	1.42	ng/kg	JK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	1.2	ng/kg	JK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	3.69	ng/kg	JK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	2,3',4-Trichlorobiphenyl	4.44	ng/kg	JK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	2,3,4'-Trichlorobiphenyl	6.79	ng/kg	BJ	U	7
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	2,3',6-Trichlorobiphenyl	4.39	ng/kg	JK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	2,4',5-Trichlorobiphenyl	20.7	ng/kg	BJ	U	7
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	2,4',6-Trichlorobiphenyl	5.8	ng/kg	BJ	U	7
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	4.46	ng/kg	JK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	3,3'-Dichlorobiphenyl	60.6	ng/kg	BJ	U	7
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	3,4,4'-Trichlorobiphenyl	1.68	ng/kg	BJK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	Coelution of PCB 043 and 073	11	ng/kg	JK	U	22
K1012526	SJFCA1-LF9	K1012526-044	EPA1668A	Coelution of PCB 098 and 102	17.6	ng/kg	BJ	U	7
K1012526	SJFCA1-LF10	K1012526-048	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	2.27	ng/kg	JK	U	22
K1012526	SJFCA1-LF10	K1012526-048	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	12.1	ng/kg	JK	U	22
K1012526	SJFCA1-LF10	K1012526-048	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	16.7	ng/kg	JK	U	22
K1012526	SJFCA1-LF10	K1012526-048	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	1.4	ng/kg	JK	U	22
K1012526	SJFCA1-LF10	K1012526-048	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	4.05	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012526	SJFCA1-LF10	K1012526-048	EPA1668A	2,3,4'-Trichlorobiphenyl	9.58	ng/kg	BJ	U	7
K1012526	SJFCA1-LF10	K1012526-048	EPA1668A	2,3'-Dichlorobiphenyl	7.12	ng/kg	JK	U	22
K1012526	SJFCA1-LF10	K1012526-048	EPA1668A	2,4',6-Trichlorobiphenyl	7.88	ng/kg	BJ	U	7
K1012526	SJFCA1-LF10	K1012526-048	EPA1668A	2-Chlorobiphenyl	2.98	ng/kg	JK	U	22
K1012526	SJFCA1-LF10	K1012526-048	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	11	ng/kg	JK	U	22
K1012526	SJFCA1-LF10	K1012526-048	EPA1668A	3,3'-Dichlorobiphenyl	70.1	ng/kg	BJ	U	7
K1012526	SJFCA1-LF10	K1012526-048	EPA1668A	3,4,4'-Trichlorobiphenyl	5.67	ng/kg	BJ	U	7
K1012526	SJFCA1-LF10	K1012526-048	EPA1668A	Coelution of PCB 108 and 124	25.8	ng/kg	JK	U	22
K1012526	SJFCA1-LF10-R	K1012526-052	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	103	ng/kg	JK	U	22
K1012526	SJFCA1-LF10-R	K1012526-052	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	10.7	ng/kg	JK	U	22
K1012526	SJFCA1-LF10-R	K1012526-052	EPA1668A	2,3',5'-Trichlorobiphenyl	20.4	ng/kg	JK	U	22
K1012526	SJFCA1-LF10-R	K1012526-052	EPA1668A	3,3'-Dichlorobiphenyl	59.5	ng/kg	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	16.9	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	3.75	pg/L	JK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	9.37	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	5.83	pg/L	JK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	20.7	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	6.51	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2.81	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	3.09	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	7.65	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	26.1	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	5.32	pg/L	JK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	4.65	pg/L	JK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,4',5,5'-Hexachlorobiphenyl	12	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	9.29	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	70.2	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',3-Trichlorobiphenyl	14.4	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',4-Trichlorobiphenyl	12.9	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	91.9	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	5.05	pg/L	JK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	26.5	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	6.78	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	57.1	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,3',4,4'-Tetrachlorobiphenyl	28.2	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	16.5	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,3,4'-Trichlorobiphenyl	18.3	pg/L	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,4',5-Trichlorobiphenyl	38.6	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,4',6-Trichlorobiphenyl	14	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	2,4'-Dichlorobiphenyl	32.5	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	3,3'-Dichlorobiphenyl	721	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	3,4,4'-Trichlorobiphenyl	9.57	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	4-Chlorobiphenyl	7.45	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 018 and 030	33.4	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 021 and 033	23	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 040, 041, and 071	18.7	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 044, 047, and 065	128	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 045 and 051	16.3	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 049 and 069	29.2	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 059, 062, and 075	2.65	pg/L	JK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 061, 070, 074, and 076	64.6	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 083 and 099	54.2	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	57.4	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 088 and 091	12.9	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 090, 101, and 113	89	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 110 and 115	82.8	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 128 and 166	13.4	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 129, 138, and 163	84.9	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 135 and 151	16.5	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 147 and 149	40.9	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 153 and 168	65.8	pg/L	BJ	U	7
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 156 and 157	9.32	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 180 and 193	17.9	pg/L	BJK	U	22
K1012526	Catfish-K1012526	K1012526-053	EPA1668A	Coelution of PCB 198 and 199	6.74	pg/L	BJK	U	22
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	5.47	ng/kg	JK	U	22
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	26	ng/kg	JK	U	22
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	5.96	ng/kg	JK	U	22
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	4.92	ng/kg	JK	U	22
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	12.8	ng/kg	JK	U	22
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	14.9	ng/kg	JK	U	22
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	22.3	ng/kg	JK	U	22
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	2,3,4'-Trichlorobiphenyl	3.66	ng/kg	JK	U	22
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	2,3',5'-Trichlorobiphenyl	2.37	ng/kg	JK	U	22
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	2.36	ng/kg	JK	U	22

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	3,3'-Dichlorobiphenyl	51.4	ng/kg	BJ	U	7
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	Coelution of PCB 021 and 033	5.28	ng/kg	JK	U	22
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	Coelution of PCB 026 and 029	25	ng/kg	JK	U	22
K1012530	SJFCACB-LF1	K1012530-004	EPA1668A	Coelution of PCB 040, 041, and 071	15	ng/kg	JK	U	22
K1012530	SJFCACB-LF1-R	K1012530-008	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	23.9	ng/kg	JK	U	22
K1012530	SJFCACB-LF1-R	K1012530-008	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	2.26	ng/kg	JK	U	22
K1012530	SJFCACB-LF1-R	K1012530-008	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	25.8	ng/kg	JK	U	22
K1012530	SJFCACB-LF1-R	K1012530-008	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	8.46	ng/kg	JK	U	22
K1012530	SJFCACB-LF1-R	K1012530-008	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	20	ng/kg	JK	U	22
K1012530	SJFCACB-LF1-R	K1012530-008	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	7.58	ng/kg	JK	U	22
K1012530	SJFCACB-LF1-R	K1012530-008	EPA1668A	2,3,4'-Trichlorobiphenyl	8.52	ng/kg	JK	U	22
K1012530	SJFCACB-LF1-R	K1012530-008	EPA1668A	2,3',5'-Trichlorobiphenyl	14.2	ng/kg	JK	U	22
K1012530	SJFCACB-LF1-R	K1012530-008	EPA1668A	3,3',4,4',5,5'-Hexachlorobiphenyl	10.3	ng/kg	JK	U	22
K1012530	SJFCACB-LF1-R	K1012530-008	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	17.1	ng/kg	JK	U	22
K1012530	SJFCACB-LF1-R	K1012530-008	EPA1668A	3,3'-Dichlorobiphenyl	60.1	ng/kg	BJ	U	7
K1012530	SJFCACB-LF1-R	K1012530-008	EPA1668A	3,4,4'-Trichlorobiphenyl	9.28	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	3.86	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	18.4	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	4.29	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	49.1	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	5.85	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	8.1	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	1.96	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	11	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	2,3,4'-Trichlorobiphenyl	4.12	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	2,3',5'-Trichlorobiphenyl	4.9	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	2,3',6-Trichlorobiphenyl	2.42	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	2,3,6-Trichlorobiphenyl	2.77	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	13.6	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	7.48	ng/kg	JK	U	22
K1012530	SJFCACB-LF2	K1012530-012	EPA1668A	3,3'-Dichlorobiphenyl	57.4	ng/kg	BJ	U	7
K1012530	SJFCACB-LF2-R	K1012530-016	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	3	ng/kg	JK	U	22
K1012530	SJFCACB-LF2-R	K1012530-016	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	19.9	ng/kg	JK	U	22
K1012530	SJFCACB-LF2-R	K1012530-016	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	2.85	ng/kg	JK	U	22
K1012530	SJFCACB-LF2-R	K1012530-016	EPA1668A	2,5-Dichlorobiphenyl	12	ng/kg	JK	U	22
K1012530	SJFCACB-LF2-R	K1012530-016	EPA1668A	3,3'-Dichlorobiphenyl	60.7	ng/kg	BJ	U	7
K1012530	SJFCACB-LF2-R	K1012530-016	EPA1668A	4,4'-Dichlorobiphenyl	10.2	ng/kg	JK	U	22

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012530	SJFCACB-LF2-R	K1012530-016	EPA1668A	Coelution of PCB 021 and 033	15.7	ng/kg	JK	U	22
K1012530	SJFCACB-LF2-R	K1012530-016	EPA1668A	Coelution of PCB 098 and 102	44.8	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	22	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	15	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	8.61	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	36.2	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	3.87	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	5.56	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	12.8	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	2,3,3',5,5',6-Hexachlorobiphenyl	4.63	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	3.54	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	57.4	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	2,3',5'-Trichlorobiphenyl	5.16	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	2,4',6-Trichlorobiphenyl	3.38	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	6.72	ng/kg	JK	U	22
K1012530	SJFCACB-LF3	K1012530-020	EPA1668A	3,3'-Dichlorobiphenyl	59.6	ng/kg	BJ	U	7
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	5.91	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	23.9	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	9.72	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	5.93	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	10.3	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	19.4	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	5.58	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	3.38	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,2',6-Trichlorobiphenyl	6.18	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	2.83	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	1.2	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	24.8	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	18.6	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	4.89	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,3,4'-Trichlorobiphenyl	1.99	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	2,3',5'-Trichlorobiphenyl	2.13	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	2.4	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	3,3'-Dichlorobiphenyl	59.7	ng/kg	BJ	U	7
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	Coelution of PCB 021 and 033	3.95	ng/kg	JK	U	22
K1012530	SJFCACB-LF4	K1012530-024	EPA1668A	Coelution of PCB 043 and 073	2.5	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	13	ng/kg	JK	U	22

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	37.7	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	11.5	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	0.874	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	8.51	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	15.1	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	1.58	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,2'-Dichlorobiphenyl	28.3	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	20	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	36.6	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	126	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,3',4,5',6-Pentachlorobiphenyl	15.5	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,3,4'-Trichlorobiphenyl	13.7	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,3',5'-Trichlorobiphenyl	12	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,3,6-Trichlorobiphenyl	9.67	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	2,4',6-Trichlorobiphenyl	12.1	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	3,3'-Dichlorobiphenyl	70.2	ng/kg	BJ	U	7
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	5.01	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	3,4,4'-Trichlorobiphenyl	13.6	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	Coelution of PCB 021 and 033	22.4	ng/kg	JK	U	22
K1012530	SJFCACB-LF4-R	K1012530-028	EPA1668A	Coelution of PCB 043 and 073	14.2	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	8.05	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	2.71	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	7.04	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	2.28	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	2,2',4-Trichlorobiphenyl	3.36	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	4.79	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	2,3,3',5,5',6-Hexachlorobiphenyl	4.3	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	6.1	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	23.3	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	2,3',4,5',6-Pentachlorobiphenyl	2.84	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	4.7	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	2,3,4'-Trichlorobiphenyl	3.06	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	2,3',5'-Trichlorobiphenyl	1.85	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	3,3'-Dichlorobiphenyl	47.5	ng/kg	BJK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	Coelution of PCB 043 and 073	3.73	ng/kg	JK	U	22
K1012530	SJFCACB-LF5	K1012530-032	EPA1668A	Coelution of PCB 108 and 124	18.6	ng/kg	JK	U	22
K1012530	SJFCACB-LF5-R	K1012530-036	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	47.1	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012530	SJFCACB-LF5-R	K1012530-036	EPA1668A	2,2',3,6'-Tetrachlorobiphenyl	11.4	ng/kg	JK	U	22
K1012530	SJFCACB-LF5-R	K1012530-036	EPA1668A	3,3'-Dichlorobiphenyl	71.3	ng/kg	BJ	U	7
K1012530	SJFCACB-LF5-R	K1012530-036	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	6.96	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	6	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	2.09	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	11.4	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	8.36	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	16.9	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	6.6	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	4.9	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	1.61	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,2',3-Trichlorobiphenyl	10.2	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	3	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	1.55	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,2',6-Trichlorobiphenyl	7.66	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	19.2	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	5.15	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	6.37	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	3.09	ng/kg	JK	U	22
K1012530	SJFCACB-LF6	K1012530-040	EPA1668A	3,3'-Dichlorobiphenyl	59	ng/kg	BJ	U	7
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	77.1	ng/kg	JK	U	22
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	73.9	ng/kg	JK	U	22
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	23	ng/kg	JK	U	22
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	6.83	ng/kg	JK	U	22
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	2.74	ng/kg	JK	U	22
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	16	ng/kg	JK	U	22
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	5.06	ng/kg	JK	U	22
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	26.8	ng/kg	JK	U	22
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1668A	2,3,6-Trichlorobiphenyl	8.92	ng/kg	JK	U	22
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1668A	2,3-Dichlorobiphenyl	18	ng/kg	JK	U	22
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1668A	3,3'-Dichlorobiphenyl	73.7	ng/kg	BJ	U	7
K1012530	SJFCACB-LF6-R	K1012530-044	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	6.66	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	1.89	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	24.1	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	3.96	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1668A	2,2',3,6,6'-Pentachlorobiphenyl	0.994	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	3.15	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012530	SJFCACB-LF7	K1012530-048	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	5.42	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1668A	2,3',4-Trichlorobiphenyl	10.7	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1668A	2,3,4'-Trichlorobiphenyl	2.72	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	3.98	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	4.76	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1668A	3,3'-Dichlorobiphenyl	68	ng/kg	BJ	U	7
K1012530	SJFCACB-LF7	K1012530-048	EPA1668A	3,4,4'-Trichlorobiphenyl	2.61	ng/kg	JK	U	22
K1012530	SJFCACB-LF7	K1012530-048	EPA1668A	Coelution of PCB 040, 041, and 071	13.7	ng/kg	JK	U	22
K1012530	SJFCACB-LF8	K1012530-052	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	1.76	ng/kg	JK	U	22
K1012530	SJFCACB-LF8	K1012530-052	EPA1668A	2,2',4-Trichlorobiphenyl	3.02	ng/kg	JK	U	22
K1012530	SJFCACB-LF8	K1012530-052	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	5.24	ng/kg	JK	U	22
K1012530	SJFCACB-LF8	K1012530-052	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	22.5	ng/kg	JK	U	22
K1012530	SJFCACB-LF8	K1012530-052	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	21.6	ng/kg	JK	U	22
K1012530	SJFCACB-LF8	K1012530-052	EPA1668A	2,3',4-Trichlorobiphenyl	4.92	ng/kg	JK	U	22
K1012530	SJFCACB-LF8	K1012530-052	EPA1668A	2,3,4'-Trichlorobiphenyl	2.35	ng/kg	JK	U	22
K1012530	SJFCACB-LF8	K1012530-052	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	13	ng/kg	JK	U	22
K1012530	SJFCACB-LF8	K1012530-052	EPA1668A	3,3'-Dichlorobiphenyl	74.7	ng/kg	BJ	U	7
K1012530	SJFCACB-LF8	K1012530-052	EPA1668A	Coelution of PCB 040, 041, and 071	8.74	ng/kg	JK	U	22
K1012530	SJFCACB-LF8	K1012530-052	EPA1668A	Coelution of PCB 043 and 073	3.38	ng/kg	JK	U	22
K1012530	SJFCACB-LF8	K1012530-052	EPA1668A	Coelution of PCB 098 and 102	3.58	ng/kg	JK	U	22
K1012530	SJFCACB-LF8-R	K1012530-056	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	51.8	ng/kg	JK	U	22
K1012530	SJFCACB-LF8-R	K1012530-056	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	132	ng/kg	JK	U	22
K1012530	SJFCACB-LF8-R	K1012530-056	EPA1668A	2,3',5'-Trichlorobiphenyl	9.1	ng/kg	JK	U	22
K1012530	SJFCACB-LF8-R	K1012530-056	EPA1668A	3,3',4,4',5,5'-Hexachlorobiphenyl	13.9	ng/kg	JK	U	22
K1012530	SJFCACB-LF8-R	K1012530-056	EPA1668A	3,3'-Dichlorobiphenyl	89	ng/kg	BJ	U	7
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	4.73	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	4.97	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	34.8	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	3.78	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	2,2',3-Trichlorobiphenyl	8.12	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	2,2',4-Trichlorobiphenyl	4.37	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	2,2',6-Trichlorobiphenyl	5.38	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	13.2	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	2.11	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	2,3',4,5',6-Pentachlorobiphenyl	7.03	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	2,3,4'-Trichlorobiphenyl	3.59	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	2,3',5'-Trichlorobiphenyl	1.99	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	2,4',6-Trichlorobiphenyl	2.54	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	3,3'-Dichlorobiphenyl	98.7	ng/kg	BJ	U	7
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	3,4,4'-Trichlorobiphenyl	2.05	ng/kg	JK	U	22
K1012530	SJFCACB-LF9	K1012530-060	EPA1668A	Coelution of PCB 098 and 102	3.64	ng/kg	JK	U	22
K1012530	SJFCACB-LF9-R	K1012530-064	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	1.7	ng/kg	JK	U	22
K1012530	SJFCACB-LF9-R	K1012530-064	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	16.2	ng/kg	JK	U	22
K1012530	SJFCACB-LF9-R	K1012530-064	EPA1668A	2,3,4'-Trichlorobiphenyl	18.9	ng/kg	JK	U	22
K1012530	SJFCACB-LF9-R	K1012530-064	EPA1668A	2,3',5'-Trichlorobiphenyl	10.5	ng/kg	JK	U	22
K1012530	SJFCACB-LF9-R	K1012530-064	EPA1668A	2,4-Dichlorobiphenyl	5.95	ng/kg	JK	U	22
K1012530	SJFCACB-LF9-R	K1012530-064	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	27.4	ng/kg	JK	U	22
K1012530	SJFCACB-LF9-R	K1012530-064	EPA1668A	3,3'-Dichlorobiphenyl	110	ng/kg	BJ	U	7
K1012530	SJFCACB-LF9-R	K1012530-064	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	7.96	ng/kg	JK	U	22
K1012530	SJFCACB-LF9-R	K1012530-064	EPA1668A	3,4,5-Trichlorobiphenyl	1.19	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	7.14	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	2,2',3,5,6,6'-Hexachlorobiphenyl	1.24	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	2,2',3-Trichlorobiphenyl	8.13	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	2.03	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	2,2',6,6'-Tetrachlorobiphenyl	2.18	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	2.2	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	2,3,3',5,5',6-Hexachlorobiphenyl	5.73	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	2,3,3',5-Tetrachlorobiphenyl	1.82	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	26.1	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	3.23	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	2,3,4'-Trichlorobiphenyl	3.14	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	2,4',6-Trichlorobiphenyl	2	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	2.95	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	3,3'-Dichlorobiphenyl	78.2	ng/kg	BJ	U	7
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	Coelution of PCB 021 and 033	4.81	ng/kg	JK	U	22
K1012530	SJFCACB-LF10	K1012530-068	EPA1668A	Coelution of PCB 098 and 102	11.1	ng/kg	JK	U	22
K1012530	SJFCACB-LF10-R	K1012530-072	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	40.1	ng/kg	JK	U	22
K1012530	SJFCACB-LF10-R	K1012530-072	EPA1668A	2,2',4,6,6'-Pentachlorobiphenyl	3.86	ng/kg	JK	U	22
K1012530	SJFCACB-LF10-R	K1012530-072	EPA1668A	2,2'-Dichlorobiphenyl	18.7	ng/kg	JK	U	22
K1012530	SJFCACB-LF10-R	K1012530-072	EPA1668A	2,3,3',4,5,5',6-Heptachlorobiphenyl	5.85	ng/kg	JK	U	22
K1012530	SJFCACB-LF10-R	K1012530-072	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	12.5	ng/kg	JK	U	22
K1012530	SJFCACB-LF10-R	K1012530-072	EPA1668A	2,3,4'-Trichlorobiphenyl	8.51	ng/kg	JK	U	22
K1012530	SJFCACB-LF10-R	K1012530-072	EPA1668A	2,3',6-Trichlorobiphenyl	5.31	ng/kg	JK	U	22
K1012530	SJFCACB-LF10-R	K1012530-072	EPA1668A	2-Chlorobiphenyl	3.83	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012530	SJFCACB-LF10-R	K1012530-072	EPA1668A	3,3'-Dichlorobiphenyl	84.9	ng/kg	BJ	U	7
K1012530	SJFCACB-LF10-R	K1012530-072	EPA1668A	Coelution of PCB 043 and 073	19	ng/kg	JK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	47.1	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	6.84	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	18.2	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	5.1	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2.22	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	1.7	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	3.49	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',3,4',5,5',6-Heptachlorobiphenyl	30.5	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',3,4',5,5'-Hexachlorobiphenyl	27.7	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	11.8	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	7.56	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	10.3	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	48.9	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	3.86	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',4-Trichlorobiphenyl	8.07	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	76.7	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,2',6-Trichlorobiphenyl	4.28	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	12.6	pg/L	JK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	34.7	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	3.77	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	96.9	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,3',4,4'-Tetrachlorobiphenyl	42.6	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,3,4'-Trichlorobiphenyl	12.2	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,4',5-Trichlorobiphenyl	24.7	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,4',6-Trichlorobiphenyl	7.9	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	2,4'-Dichlorobiphenyl	20.2	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	3,3'-Dichlorobiphenyl	466	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 018 and 030	20.8	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 021 and 033	14.3	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 040, 041, and 071	9.18	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 044, 047, and 065	113	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 045 and 051	13	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 049 and 069	38.7	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 059, 062, and 075	3.46	pg/L	JK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 061, 070, 074, and 076	59.7	pg/L	BJ	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 083 and 099	101	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 085 and 116	16.1	pg/L	BJK	U	22
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	49.1	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 088 and 091	8.95	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 090, 101, and 113	99	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 110 and 115	63.3	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 129, 138, and 163	129	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 135 and 151	12.2	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 147 and 149	49.7	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 153 and 168	150	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 156 and 157	12.4	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 180 and 193	49.1	pg/L	BJ	U	7
K1012530	Catfish-K1012530	K1012530-073	EPA1668A	Coelution of PCB 198 and 199	12.9	pg/L	BJ	U	7
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	4.68	ng/kg	JK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	5.37	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	3.2	ng/kg	JK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,2',3,3',5,5'-Hexachlorobiphenyl	1.95	ng/kg	JK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	1.22	ng/kg	JK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	4.28	ng/kg	BJK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	5.9	ng/kg	JK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,2',3,4,4',5',6-Heptachlorobiphenyl	10	ng/kg	JK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	3.86	ng/kg	JK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,2',3,4',5,5'-Hexachlorobiphenyl	16.8	ng/kg	JK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	11.8	ng/kg	BJK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	13.7	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	28.8	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,3,3',4',5-Pentachlorobiphenyl	5.76	ng/kg	JK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	1.7	ng/kg	JK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	1.61	ng/kg	JK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	3.71	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	2,4',5-Trichlorobiphenyl	5.8	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	3,3'-Dichlorobiphenyl	84	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	Coelution of PCB 018 and 030	3.31	ng/kg	BJK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	Coelution of PCB 021 and 033	2.12	ng/kg	BJK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	Coelution of PCB 040, 041, and 071	3.73	ng/kg	JK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	Coelution of PCB 044, 047, and 065	65.2	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	Coelution of PCB 049 and 069	4.15	ng/kg	BJ	U	7

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	Coelution of PCB 061, 070, 074, and 076	42.4	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	Coelution of PCB 090, 101, and 113	21.9	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	Coelution of PCB 093 and 100	2.76	ng/kg	JK	U	22
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	Coelution of PCB 110 and 115	23.7	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	Coelution of PCB 147 and 149	14.2	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1	K1012535-006	EPA1668A	Coelution of PCB 156 and 157	11.1	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	4.03	ng/kg	BJK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	1.36	ng/kg	JK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	4.22	ng/kg	BJK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	1.82	ng/kg	JK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	2.36	ng/kg	JK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	4.93	ng/kg	JK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	2.6	ng/kg	JK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	15.7	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	16.3	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	4.92	ng/kg	BJK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	3.7	ng/kg	JK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	1.82	ng/kg	JK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	6.52	ng/kg	JK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	5.49	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,3',4-Trichlorobiphenyl	1.5	ng/kg	JK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	2,4',5-Trichlorobiphenyl	6.33	ng/kg	BJK	U	22
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	3,3'-Dichlorobiphenyl	92.5	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	Coelution of PCB 018 and 030	4.6	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	Coelution of PCB 021 and 033	5.85	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	Coelution of PCB 049 and 069	8.99	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	Coelution of PCB 090, 101, and 113	51.2	ng/kg	BJ	U	7
K1012535	SJFCACB-CR1-R	K1012535-012	EPA1668A	Coelution of PCB 110 and 115	43.9	ng/kg	BJ	U	7
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	19.5	ng/kg	JK	U	22
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	8.32	ng/kg	JK	U	22
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	6.93	ng/kg	JK	U	22
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	14	ng/kg	JK	U	22
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	4.07	ng/kg	BJK	U	22
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	3.57	ng/kg	JK	U	22
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,2',3,3',5,5',6-Heptachlorobiphenyl	5.74	ng/kg	JK	U	22
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	6.53	ng/kg	JK	U	22
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,2',3,4',5,5',6-Heptachlorobiphenyl	32.4	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	12	ng/kg	BJ	U	7
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,2',4,4',5,6'-Hexachlorobiphenyl	7.27	ng/kg	JK	U	22
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	13	ng/kg	BJ	U	7
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	35.2	ng/kg	BJ	U	7
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	2,4',5-Trichlorobiphenyl	4.89	ng/kg	BJ	U	7
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	3,3'-Dichlorobiphenyl	70.2	ng/kg	BJ	U	7
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	Coelution of PCB 061, 070, 074, and 076	54.7	ng/kg	BJ	U	7
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	Coelution of PCB 090, 101, and 113	16.2	ng/kg	BJ	U	7
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	Coelution of PCB 110 and 115	19.8	ng/kg	BJ	U	7
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	Coelution of PCB 147 and 149	8.43	ng/kg	BJK	U	22
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	Coelution of PCB 156 and 157	10.7	ng/kg	BJ	U	7
K1012535	SJFCACB-CR2	K1012535-018	EPA1668A	Coelution of PCB 171 and 173	5.33	ng/kg	JK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	2.92	ng/kg	JK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	3.51	ng/kg	BJ	U	7
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	0.847	ng/kg	JK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	3.83	ng/kg	JK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	2.56	ng/kg	BJK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	8.73	ng/kg	BJK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	11	ng/kg	BJ	U	7
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,3,3',4',5-Pentachlorobiphenyl	7.4	ng/kg	JK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	8.72	ng/kg	JK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	1.5	ng/kg	JK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	2.03	ng/kg	JK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	2.83	ng/kg	BJK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,3,4'-Trichlorobiphenyl	1.81	ng/kg	JK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	2,4',5-Trichlorobiphenyl	8.13	ng/kg	BJ	U	7
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	2.14	ng/kg	JK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	3,3'-Dichlorobiphenyl	87	ng/kg	BJ	U	7
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	Coelution of PCB 018 and 030	5.13	ng/kg	BJK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	Coelution of PCB 021 and 033	4.43	ng/kg	BJ	U	7
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	Coelution of PCB 040, 041, and 071	3.73	ng/kg	JK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	Coelution of PCB 044, 047, and 065	65.2	ng/kg	BJ	U	7
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	Coelution of PCB 049 and 069	5.42	ng/kg	BJ	U	7
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	Coelution of PCB 061, 070, 074, and 076	41.2	ng/kg	BJ	U	7
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	Coelution of PCB 085 and 116	14.4	ng/kg	JK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	Coelution of PCB 090, 101, and 113	17.4	ng/kg	BJ	U	7
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	Coelution of PCB 110 and 115	17.1	ng/kg	BJ	U	7

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	Coelution of PCB 139 and 140	3.28	ng/kg	JK	U	22
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	Coelution of PCB 147 and 149	11.7	ng/kg	BJ	U	7
K1012535	SJFCACB-CR3	K1012535-024	EPA1668A	Coelution of PCB 198 and 199	6.45	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	8.28	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	0.955	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	4.62	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	1.57	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	2.98	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	3.78	ng/kg	BJK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	4.18	ng/kg	BJ	U	7
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	4.1	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	2.42	ng/kg	BJK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	12.8	ng/kg	BJ	U	7
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,2',4-Trichlorobiphenyl	2.3	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	16.4	ng/kg	BJ	U	7
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	1.02	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,3,3',4,4',5,6-Heptachlorobiphenyl	2.08	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	30.9	ng/kg	BJ	U	7
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,3,3',4',5-Pentachlorobiphenyl	6.6	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	1.84	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	5.73	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	2.19	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	2.15	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	1.22	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	5.48	ng/kg	BJ	U	7
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,3,4'-Trichlorobiphenyl	2.87	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	2,4',5-Trichlorobiphenyl	5.9	ng/kg	BJ	U	7
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	3.21	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	3,3'-Dichlorobiphenyl	61.9	ng/kg	BJ	U	7
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	Coelution of PCB 018 and 030	3.21	ng/kg	BJK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	Coelution of PCB 021 and 033	4.12	ng/kg	BJ	U	7
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	Coelution of PCB 049 and 069	7.45	ng/kg	BJ	U	7
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	Coelution of PCB 061, 070, 074, and 076	52	ng/kg	BJ	U	7
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	Coelution of PCB 088 and 091	2.98	ng/kg	JK	U	22
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	Coelution of PCB 090, 101, and 113	25.7	ng/kg	BJ	U	7
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	Coelution of PCB 110 and 115	26.7	ng/kg	BJ	U	7
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	Coelution of PCB 139 and 140	1.48	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	Coelution of PCB 147 and 149	14.7	ng/kg	BJ	U	7
K1012535	SJFCACB-CR4	K1012535-030	EPA1668A	Coelution of PCB 156 and 157	12.8	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,2',3,3',4,4',5,6-Octachlorobiphenyl	1.81	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	5.32	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,2',3,3',4,5,5'-Heptachlorobiphenyl	4.53	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	2.6	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	3.49	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	3.74	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	1.75	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	2.46	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	8.41	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	14.4	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	0.995	ng/kg	BJK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	1.94	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	2.42	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	1.38	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	3.07	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	1.35	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	2.15	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	4	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,3,4'-Trichlorobiphenyl	3.28	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,4',5-Trichlorobiphenyl	7.94	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	2,4',6-Trichlorobiphenyl	1.84	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	2.71	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	3,3'-Dichlorobiphenyl	75.6	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	Coelution of PCB 018 and 030	3.46	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	Coelution of PCB 021 and 033	3.87	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	Coelution of PCB 049 and 069	6	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	Coelution of PCB 088 and 091	2.55	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	Coelution of PCB 090, 101, and 113	20.1	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	Coelution of PCB 110 and 115	19.5	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	Coelution of PCB 135 and 151	2.85	ng/kg	JK	U	22
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	Coelution of PCB 147 and 149	10.9	ng/kg	BJ	U	7
K1012535	SJFCACB-CR5	K1012535-036	EPA1668A	Coelution of PCB 156 and 157	22	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	10.9	ng/kg	BJK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	4.16	ng/kg	JK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	2.07	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	2.88	ng/kg	JK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	3.61	ng/kg	JK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	3.85	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	3	ng/kg	BJK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	3.12	ng/kg	JK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',3,4,4',5',6-Heptachlorobiphenyl	8.56	ng/kg	JK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	2.54	ng/kg	JK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	3.93	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	12	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',3-Trichlorobiphenyl	3.53	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',4,4',5,6'-Hexachlorobiphenyl	6.27	ng/kg	JK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',4-Trichlorobiphenyl	3.94	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	20	ng/kg	BJK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,3,3',4',5-Pentachlorobiphenyl	5.69	ng/kg	JK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	4.12	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,3,4',5-Tetrachlorobiphenyl	2.01	ng/kg	JK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	7.38	ng/kg	BJK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,3,4'-Trichlorobiphenyl	5.97	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,4',5-Trichlorobiphenyl	15.3	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	2,4'-Dichlorobiphenyl	9.41	ng/kg	BJK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	2.5	ng/kg	JK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	3,3'-Dichlorobiphenyl	107	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	Coelution of PCB 018 and 030	7.17	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	Coelution of PCB 021 and 033	5.13	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	Coelution of PCB 026 and 029	2.41	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	Coelution of PCB 040, 041, and 071	8.49	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	Coelution of PCB 049 and 069	13.2	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	19.4	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	Coelution of PCB 090, 101, and 113	26	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	Coelution of PCB 093 and 100	3.28	ng/kg	JK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	Coelution of PCB 110 and 115	21.3	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	Coelution of PCB 147 and 149	12.7	ng/kg	BJK	U	22
K1012535	SJFCACB-CR6	K1012535-042	EPA1668A	Coelution of PCB 171 and 173	2.96	ng/kg	JK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	5.88	ng/kg	JK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	8.66	ng/kg	JK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	17	ng/kg	JK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,2',3,3',4,5'-Hexachlorobiphenyl	18.3	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	22.8	ng/kg	JK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	10.8	ng/kg	BJK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	2.4	ng/kg	JK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	25.9	ng/kg	BJK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,2',3-Trichlorobiphenyl	5.78	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,2',4-Trichlorobiphenyl	8.88	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	1.96	ng/kg	JK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	7.98	ng/kg	JK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,3,4'-Trichlorobiphenyl	12.1	ng/kg	BJK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	4.29	ng/kg	JK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	2,4'-Dichlorobiphenyl	19.6	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	3,3'-Dichlorobiphenyl	97.3	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	3,4,4'-Trichlorobiphenyl	10.9	ng/kg	JK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	4,4'-Dichlorobiphenyl	15	ng/kg	JK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	Coelution of PCB 018 and 030	13.1	ng/kg	BJK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	Coelution of PCB 021 and 033	12.1	ng/kg	BJ	U	7
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	Coelution of PCB 045 and 051	5.8	ng/kg	JK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	Coelution of PCB 050 and 053	4.21	ng/kg	JK	U	22
K1012535	SJFCACB-CR6-R	K1012535-048	EPA1668A	Coelution of PCB 108 and 124	4.24	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	3.71	ng/kg	BJK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	1.2	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	0.789	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	2.54	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	0.962	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	2.74	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	1.58	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	1.46	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	0.899	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	1.46	ng/kg	BJK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	7.21	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',3-Trichlorobiphenyl	2.23	ng/kg	BJK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',4,4',5,6'-Hexachlorobiphenyl	3.57	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	0.945	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',4-Trichlorobiphenyl	2.94	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	10.4	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,3,3',4',5-Pentachlorobiphenyl	2.12	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	1.19	ng/kg	BJK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	2.03	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,3,4,4'-Tetrachlorobiphenyl	2.58	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	0.891	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	0.619	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	1.01	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	2.5	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,3,4'-Trichlorobiphenyl	3.58	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,4',5-Trichlorobiphenyl	6.98	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	2,4'-Dichlorobiphenyl	5.82	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	3,3'-Dichlorobiphenyl	128	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 018 and 030	4.82	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 020 and 028	19.9	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 021 and 033	4.39	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 026 and 029	1.1	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 040, 041, and 071	2.54	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 044, 047, and 065	34	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 049 and 069	4.22	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 050 and 053	1.07	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 061, 070, 074, and 076	17.5	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	10.9	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 090, 101, and 113	10.9	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 110 and 115	10.6	ng/kg	BJ	U	7
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 135 and 151	1.55	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 139 and 140	0.903	ng/kg	JK	U	22
K1012535	SJFCACB-CR7	K1012535-054	EPA1668A	Coelution of PCB 147 and 149	5.52	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	2.74	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	0.846	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	2.91	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,3',4,5'-Hexachlorobiphenyl	2.29	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	4.42	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	3.3	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,3',5,5'-Hexachlorobiphenyl	2.1	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	0.786	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	4.5	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	2.04	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	3.24	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	0.512	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	4.76	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	13.4	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',3-Trichlorobiphenyl	3.24	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	1.23	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',4-Trichlorobiphenyl	4.38	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	20.2	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	3.53	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	1.08	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	0.647	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	8.19	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,3',4-Trichlorobiphenyl	1.2	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,3,4'-Trichlorobiphenyl	4.77	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,4',5-Trichlorobiphenyl	12.8	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	2,4'-Dichlorobiphenyl	9.22	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	3,3'-Dichlorobiphenyl	105	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	Coelution of PCB 018 and 030	7.03	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	Coelution of PCB 021 and 033	5.81	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	Coelution of PCB 026 and 029	2.43	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	Coelution of PCB 045 and 051	2.41	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	Coelution of PCB 049 and 069	12.9	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	21.7	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	Coelution of PCB 090, 101, and 113	28.9	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	Coelution of PCB 110 and 115	25.1	ng/kg	BJ	U	7
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	Coelution of PCB 156 and 157	7.46	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	Coelution of PCB 171 and 173	2.64	ng/kg	JK	U	22
K1012535	SJFCACB-CR8	K1012535-060	EPA1668A	Coelution of PCB 198 and 199	6.11	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	3.05	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	2.21	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	0.537	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	0.916	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	1.89	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	3.09	ng/kg	BJK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	0.828	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	4.08	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',3,4,4',5',6-Heptachlorobiphenyl	5.77	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	2.61	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	6.26	ng/kg	BJK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	13.8	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',3-Trichlorobiphenyl	3.46	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',4-Trichlorobiphenyl	4.55	ng/kg	BJK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	24.3	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,3,3',4,4',5,6-Heptachlorobiphenyl	1.58	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	4.38	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	2	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	1.94	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	3.2	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	9.05	ng/kg	BJK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,3',4-Trichlorobiphenyl	1.04	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,3,4'-Trichlorobiphenyl	4.74	ng/kg	BJK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,4',5-Trichlorobiphenyl	12	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	2,4'-Dichlorobiphenyl	8.89	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	3,3'-Dichlorobiphenyl	112	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	4,4'-Dichlorobiphenyl	8.25	ng/kg	JK	U	22
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	Coelution of PCB 018 and 030	7.57	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	Coelution of PCB 021 and 033	6.34	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	Coelution of PCB 026 and 029	3.04	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	Coelution of PCB 040, 041, and 071	11.5	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	22.4	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	Coelution of PCB 110 and 115	28.3	ng/kg	BJ	U	7
K1012535	SJFCACB-CR9	K1012535-066	EPA1668A	Coelution of PCB 135 and 151	6.37	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',3,3',4,4',5,6-Octachlorobiphenyl	1.08	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	0.818	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	2.62	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	3.98	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	3.04	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	0.673	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	1.36	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	2.89	ng/kg	BJK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	3.3	ng/kg	BJK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	12	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',3-Trichlorobiphenyl	3.24	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	0.353	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	1.46	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',4-Trichlorobiphenyl	3.85	ng/kg	BJ	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	20.3	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,3,3',4',5-Pentachlorobiphenyl	6.02	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	2.43	ng/kg	BJK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	1.43	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	2.01	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	6.42	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,3',4-Trichlorobiphenyl	0.922	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,3,4'-Trichlorobiphenyl	4.74	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,4',5-Trichlorobiphenyl	11	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	2,4'-Dichlorobiphenyl	8.08	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	1.33	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	3,3'-Dichlorobiphenyl	104	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	Coelution of PCB 018 and 030	7.52	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	Coelution of PCB 021 and 033	6.12	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	Coelution of PCB 026 and 029	2.41	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	Coelution of PCB 040, 041, and 071	6.72	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	Coelution of PCB 045 and 051	1.74	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	Coelution of PCB 049 and 069	9.21	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	Coelution of PCB 050 and 053	0.912	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	21.1	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	Coelution of PCB 090, 101, and 113	23.4	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	Coelution of PCB 093 and 100	5.31	ng/kg	JK	U	22
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	Coelution of PCB 110 and 115	19.6	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	Coelution of PCB 147 and 149	11.5	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10	K1012535-072	EPA1668A	Coelution of PCB 171 and 173	2.91	ng/kg	JK	U	22
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	3.36	ng/kg	JK	U	22
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	6.93	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	5.28	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	9.54	ng/kg	JK	U	22
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	19.3	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,2',3-Trichlorobiphenyl	3.21	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,2',4,5',6-Pentachlorobiphenyl	0.727	ng/kg	JK	U	22
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,2',4-Trichlorobiphenyl	4.7	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	35.6	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,3,3',4,4',5,5',6-Octachlorobiphenyl	0.732	ng/kg	JK	U	22
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	4.04	ng/kg	JK	U	22
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,3,3',4,4',5,6-Heptachlorobiphenyl	13.2	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	3.23	ng/kg	JK	U	22
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	6.73	ng/kg	BJK	U	22
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	3.97	ng/kg	JK	U	22
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,3,4'-Trichlorobiphenyl	8.26	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,4',5-Trichlorobiphenyl	17.8	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,4',6-Trichlorobiphenyl	4.84	ng/kg	BJK	U	22
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	2,4'-Dichlorobiphenyl	9.23	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	3,3'-Dichlorobiphenyl	109	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	4,4'-Dichlorobiphenyl	6.67	ng/kg	JK	U	22
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	Coelution of PCB 018 and 030	8.27	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	Coelution of PCB 021 and 033	8.22	ng/kg	BJ	U	7
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	Coelution of PCB 026 and 029	3.38	ng/kg	BJK	U	22
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	Coelution of PCB 045 and 051	0.818	ng/kg	JK	U	22
K1012535	SJFCACB-CR10-R	K1012535-078	EPA1668A	Coelution of PCB 050 and 053	2.28	ng/kg	JK	U	22
K1012535	Crab-K1012535	K1012535-080	EPA1668A	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	7.84	pg/L	BJ	U	7
K1012535	Crab-K1012535	K1012535-080	EPA1668A	2,2',3,4',5,5',6-Heptachlorobiphenyl	6.72	pg/L	BJ	U	7
K1012535	Crab-K1012535	K1012535-080	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	29	pg/L	BJ	U	7
K1012535	Crab-K1012535	K1012535-080	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	37.2	pg/L	BJ	U	7
K1012535	Crab-K1012535	K1012535-080	EPA1668A	2,4',5-Trichlorobiphenyl	10.3	pg/L	BJ	U	7
K1012535	Crab-K1012535	K1012535-080	EPA1668A	3,3'-Dichlorobiphenyl	153	pg/L	BJ	U	7
K1012535	Crab-K1012535	K1012535-080	EPA1668A	Coelution of PCB 018 and 030	13.7	pg/L	BJ	U	7
K1012535	Crab-K1012535	K1012535-080	EPA1668A	Coelution of PCB 020 and 028	13	pg/L	BJ	U	7
K1012535	Crab-K1012535	K1012535-080	EPA1668A	Coelution of PCB 021 and 033	6.02	pg/L	BJK	U	22
K1012535	Crab-K1012535	K1012535-080	EPA1668A	Coelution of PCB 044, 047, and 065	60.1	pg/L	BJ	U	7
K1012535	Crab-K1012535	K1012535-080	EPA1668A	Coelution of PCB 049 and 069	12.3	pg/L	BJK	U	22
K1012535	Crab-K1012535	K1012535-080	EPA1668A	Coelution of PCB 061, 070, 074, and 076	18.8	pg/L	BJK	U	22
K1012535	Crab-K1012535	K1012535-080	EPA1668A	Coelution of PCB 090, 101, and 113	35.3	pg/L	BJK	U	22
K1012535	Crab-K1012535	K1012535-080	EPA1668A	Coelution of PCB 110 and 115	34.8	pg/L	BJ	U	7
K1012535	Crab-K1012535	K1012535-080	EPA1668A	Coelution of PCB 129, 138, and 163	34	pg/L	BJ	U	7
K1012535	Crab-K1012535	K1012535-080	EPA1668A	Coelution of PCB 147 and 149	17.3	pg/L	BJ	U	7
K1012535	Crab-K1012535	K1012535-080	EPA1668A	Coelution of PCB 153 and 168	34.2	pg/L	BJK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	19.4	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	3.68	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	10.6	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	7.89	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	4.42	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	4.54	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	7.34	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	7.5	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	8.38	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	18.9	ng/kg	BJ	U	7
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	22.7	ng/kg	BJ	U	7
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	3.25	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	5.68	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	3.77	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	14.5	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	6.61	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	3.58	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	3,3'-Dichlorobiphenyl	83.2	ng/kg	BJ	U	7
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	Coelution of PCB 040, 041, and 071	14.2	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	Coelution of PCB 045 and 051	4.33	ng/kg	JK	U	22
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	Coelution of PCB 049 and 069	14.5	ng/kg	BJ	U	7
K1012540	SJFCA2-CR1	K1012540-006	EPA1668A	Coelution of PCB 135 and 151	11.7	ng/kg	JK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	7.09	ng/kg	BJK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	2.66	ng/kg	JK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	1.2	ng/kg	JK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	7.54	ng/kg	JK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1668A	2,2',4,5',6-Pentachlorobiphenyl	1.83	ng/kg	JK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1668A	2,2',4-Trichlorobiphenyl	8.46	ng/kg	JK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1668A	2,2'-Dichlorobiphenyl	4.89	ng/kg	JK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1668A	2,3,3',5'-Tetrachlorobiphenyl	1.94	ng/kg	JK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1668A	2,3',4,5',6-Pentachlorobiphenyl	5.42	ng/kg	JK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	3.19	ng/kg	JK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1668A	3,3'-Dichlorobiphenyl	92.1	ng/kg	BJ	U	7
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1668A	Coelution of PCB 021 and 033	10	ng/kg	JK	U	22
K1012540	SJFCA2-CR1-R	K1012540-012	EPA1668A	Coelution of PCB 050 and 053	4.62	ng/kg	JK	U	22
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	4.18	ng/kg	JK	U	22
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	5.06	ng/kg	BJK	U	22
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	1.93	ng/kg	JK	U	22
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	2.54	ng/kg	JK	U	22
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	6.07	ng/kg	BJK	U	22
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	21.2	ng/kg	BJ	U	7
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	2,2',4-Trichlorobiphenyl	6.43	ng/kg	JK	U	22
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	48.9	ng/kg	BJ	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	2.44	ng/kg	JK	U	22
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	8.95	ng/kg	JK	U	22
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	10.7	ng/kg	JK	U	22
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	7.94	ng/kg	JK	U	22
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	1.42	ng/kg	JK	U	22
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	3,3'-Dichlorobiphenyl	82.8	ng/kg	BJ	U	7
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	Coelution of PCB 018 and 030	9.33	ng/kg	BJ	U	7
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	Coelution of PCB 021 and 033	7.12	ng/kg	BJ	U	7
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	Coelution of PCB 045 and 051	3.58	ng/kg	JK	U	22
K1012540	SJFCA2-CR2	K1012540-018	EPA1668A	Coelution of PCB 050 and 053	3.55	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	8.93	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	0.978	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	2.28	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	6.08	ng/kg	BJK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	3.56	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	3.63	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	2.38	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	24.5	ng/kg	BJ	U	7
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	4.91	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	33.1	ng/kg	BJ	U	7
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	7.53	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	10.1	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	3.72	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	34.7	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	2,4',5-Trichlorobiphenyl	30.2	ng/kg	BJK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	3.01	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	3,3'-Dichlorobiphenyl	67.1	ng/kg	BJ	U	7
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	2.14	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	3,4,4'-Trichlorobiphenyl	30.2	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	Coelution of PCB 018 and 030	8.66	ng/kg	BJ	U	7
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	Coelution of PCB 026 and 029	4.57	ng/kg	JK	U	22
K1012540	SJFCA2-CR3	K1012540-024	EPA1668A	Coelution of PCB 050 and 053	4.42	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	6.77	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,2',3,3',4,5,5'-Heptachlorobiphenyl	7.26	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	10.4	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,2',3,3',4,5'-Hexachlorobiphenyl	5.32	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	10.4	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,2',3,3',5,5'-Hexachlorobiphenyl	11.2	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	7.17	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	4.86	ng/kg	BJK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	2.51	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	6.08	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	12.7	ng/kg	BJ	U	7
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	20.9	ng/kg	BJ	U	7
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	2.24	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	6.02	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	2.48	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,3,4'-Trichlorobiphenyl	6.76	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,4',5-Trichlorobiphenyl	11.9	ng/kg	BJ	U	7
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	2,4',6-Trichlorobiphenyl	4.03	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	3,3'-Dichlorobiphenyl	76.1	ng/kg	BJ	U	7
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	Coelution of PCB 018 and 030	6.44	ng/kg	BJ	U	7
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	Coelution of PCB 021 and 033	6.52	ng/kg	BJ	U	7
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	Coelution of PCB 049 and 069	10.9	ng/kg	BJ	U	7
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	Coelution of PCB 090, 101, and 113	38.1	ng/kg	BJ	U	7
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	Coelution of PCB 110 and 115	46.7	ng/kg	BJ	U	7
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	Coelution of PCB 135 and 151	6.87	ng/kg	JK	U	22
K1012540	SJFCA2-CR4	K1012540-030	EPA1668A	Coelution of PCB 139 and 140	9.45	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	4.58	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,2',3,3',4,5'-Hexachlorobiphenyl	16.5	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	9.22	ng/kg	BJ	U	7
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	4.62	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	2.4	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	5.23	ng/kg	BJK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,2',3,4,5,5',6-Heptachlorobiphenyl	3.62	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	1.96	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	26.9	ng/kg	BJ	U	7
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	2.11	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,2',4,5',6-Pentachlorobiphenyl	2.83	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	7.41	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,2',4-Trichlorobiphenyl	12.2	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	4.53	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	6.72	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	10.7	ng/kg	BJK	U	22

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	5.61	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	20	ng/kg	JK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	3,3'-Dichlorobiphenyl	76.5	ng/kg	BJK	U	22
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	Coelution of PCB 018 and 030	14.1	ng/kg	BJ	U	7
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	Coelution of PCB 021 and 033	6.98	ng/kg	BJ	U	7
K1012540	SJFCA2-CR5	K1012540-036	EPA1668A	Coelution of PCB 026 and 029	7.17	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	3.18	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	1.84	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	9.13	ng/kg	BJ	U	7
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	2.92	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	7.32	ng/kg	BJK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	6.11	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	35.4	ng/kg	BJ	U	7
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,2',3-Trichlorobiphenyl	4.47	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	0.99	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,2',4-Trichlorobiphenyl	9.28	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,3,3',4,4',5,6-Heptachlorobiphenyl	5.21	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	1.61	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	7.93	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,3',4-Trichlorobiphenyl	4.92	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	2,3',6-Trichlorobiphenyl	2.32	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	3,3'-Dichlorobiphenyl	85.1	ng/kg	BJ	U	7
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	3,4,4'-Trichlorobiphenyl	20	ng/kg	JK	U	22
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	Coelution of PCB 018 and 030	15.7	ng/kg	BJ	U	7
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	Coelution of PCB 021 and 033	6.67	ng/kg	BJ	U	7
K1012540	SJFCA2-CR6	K1012540-042	EPA1668A	Coelution of PCB 098 and 102	4.16	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	3.74	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	8.94	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	11.1	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	6.28	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	82.5	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	34.9	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1668A	2,3',4,5-Tetrachlorobiphenyl	9.44	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1668A	2,3',5'-Trichlorobiphenyl	2.86	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1668A	2,3',6-Trichlorobiphenyl	12.1	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1668A	2,4'-Dichlorobiphenyl	40	ng/kg	JK	U	22
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	10.5	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1668A	3,3'-Dichlorobiphenyl	72.8	ng/kg	BJ	U	7
K1012540	SJFCA2-CR6-R	K1012540-048	EPA1668A	3,4',5-Trichlorobiphenyl	3.16	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	4.74	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	15.3	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	2.11	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,2',3,3',4,5,5'-Heptachlorobiphenyl	15.2	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	2.34	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	3.6	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,2',3,3',5,5'-Hexachlorobiphenyl	12.5	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	5.37	ng/kg	BJ	U	7
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	62.9	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	31.7	ng/kg	BJ	U	7
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	2.35	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	3.55	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	3.99	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	10.8	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	18.4	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	30.3	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	8.98	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	4.38	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,3,4',5-Tetrachlorobiphenyl	6.17	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	3.39	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	2-Chlorobiphenyl	1.91	ng/kg	JK	U	22
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	3,3'-Dichlorobiphenyl	79	ng/kg	BJ	U	7
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	Coelution of PCB 018 and 030	11.9	ng/kg	BJ	U	7
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	Coelution of PCB 021 and 033	6.31	ng/kg	BJ	U	7
K1012540	SJFCA2-CR7	K1012540-054	EPA1668A	Coelution of PCB 050 and 053	7.23	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	9.14	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	10.1	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	1.44	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	15.8	ng/kg	BJ	U	7
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	8.61	ng/kg	BJK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	2.43	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	27	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,2',4,5',6-Pentachlorobiphenyl	4.82	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	5.34	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,2',4-Trichlorobiphenyl	6.2	ng/kg	JK	U	22

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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,3,3',4',5'-Pentachlorobiphenyl	2.83	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	2.39	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	6.58	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,3,4',5-Tetrachlorobiphenyl	8.68	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,3',4-Trichlorobiphenyl	5.04	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	2,3',6-Trichlorobiphenyl	2.12	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	28.6	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	2.19	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	3,3'-Dichlorobiphenyl	63.3	ng/kg	BJ	U	7
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	Coelution of PCB 021 and 033	7.14	ng/kg	BJ	U	7
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	Coelution of PCB 026 and 029	10.5	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	Coelution of PCB 045 and 051	5.86	ng/kg	JK	U	22
K1012540	SJFCA2-CR8	K1012540-060	EPA1668A	Coelution of PCB 098 and 102	3.67	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	3.72	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,2',3,3',4,4',5,6-Octachlorobiphenyl	4.64	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	1.87	ng/kg	BJK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	3.51	ng/kg	BJ	U	7
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	1.69	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	9.45	ng/kg	BJ	U	7
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	24.2	ng/kg	BJ	U	7
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	2.11	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	2.36	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	2.04	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	1.89	ng/kg	BJK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	1.49	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	7.01	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,3',4-Trichlorobiphenyl	1.74	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	2.89	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	2,4',5-Trichlorobiphenyl	14.9	ng/kg	BJ	U	7
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	3,3'-Dichlorobiphenyl	48.5	ng/kg	BJ	U	7
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	Coelution of PCB 018 and 030	4.5	ng/kg	BJ	U	7
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	Coelution of PCB 021 and 033	4.08	ng/kg	BJ	U	7
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	Coelution of PCB 026 and 029	3.16	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	Coelution of PCB 045 and 051	2.82	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	Coelution of PCB 049 and 069	16	ng/kg	BJ	U	7
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	Coelution of PCB 050 and 053	2.38	ng/kg	JK	U	22
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	Coelution of PCB 090, 101, and 113	55.8	ng/kg	BJ	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012540	SJFCA2-CR9	K1012540-066	EPA1668A	Coelution of PCB 110 and 115	45.2	ng/kg	BJ	U	7
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	8.93	ng/kg	JK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	3.67	ng/kg	JK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	8.28	ng/kg	JK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,2',3,3',4,4',5,6-Octachlorobiphenyl	3.22	ng/kg	JK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	2.3	ng/kg	JK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	8.17	ng/kg	BJ	U	7
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	3.91	ng/kg	BJK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	2.77	ng/kg	JK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	20.5	ng/kg	BJ	U	7
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.66	ng/kg	JK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	2.76	ng/kg	JK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,3,3',4,4',5,6-Heptachlorobiphenyl	6.12	ng/kg	JK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	1.81	ng/kg	JK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,3,3',4',5,6-Hexachlorobiphenyl	3.63	ng/kg	BJK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	8.16	ng/kg	JK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	6.31	ng/kg	JK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	3,3'-Dichlorobiphenyl	54.6	ng/kg	BJ	U	7
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	Coelution of PCB 018 and 030	8.93	ng/kg	BJ	U	7
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	Coelution of PCB 021 and 033	6.85	ng/kg	BJ	U	7
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	Coelution of PCB 026 and 029	5.86	ng/kg	JK	U	22
K1012540	SJFCA2-CR10	K1012540-072	EPA1668A	Coelution of PCB 045 and 051	5.09	ng/kg	JK	U	22
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	2.26	ng/kg	JK	U	22
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	18.8	ng/kg	BJ	U	7
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	5.67	ng/kg	BJK	U	22
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	5.13	ng/kg	JK	U	22
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	25.9	ng/kg	JK	U	22
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	20	ng/kg	JK	U	22
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1668A	2,3',4-Trichlorobiphenyl	7.73	ng/kg	JK	U	22
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1668A	2,3'-Dichlorobiphenyl	2.83	ng/kg	JK	U	22
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	7.96	ng/kg	JK	U	22
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1668A	3,3'-Dichlorobiphenyl	86.4	ng/kg	BJ	U	7
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1668A	Coelution of PCB 043 and 073	3.57	ng/kg	JK	U	22
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1668A	Coelution of PCB 045 and 051	5.73	ng/kg	JK	U	22
K1012540	SJFCA2-CR10-R	K1012540-078	EPA1668A	Coelution of PCB 098 and 102	9.44	ng/kg	JK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	10.2	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	4.95	pg/L	BJK	U	22

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	13.4	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	4.64	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,2',3,4',5,5',6-Heptachlorobiphenyl	9.04	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,2',3,4',5,5'-Hexachlorobiphenyl	6.53	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	4.26	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	4.61	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	43.1	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	3.2	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,2',4-Trichlorobiphenyl	11.4	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	53.3	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	3.35	pg/L	JK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	17.4	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,3',4,4',5-Pentachlorobiphenyl	37.7	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,3',4,4'-Tetrachlorobiphenyl	16.2	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,3,4'-Trichlorobiphenyl	8.75	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,4',5-Trichlorobiphenyl	25.4	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,4',6-Trichlorobiphenyl	7.09	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	2,4'-Dichlorobiphenyl	22.9	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	3,3'-Dichlorobiphenyl	530	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 018 and 030	21.5	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 021 and 033	17.6	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 040, 041, and 071	10.3	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 044, 047, and 065	92.7	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 045 and 051	12.5	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 049 and 069	19.3	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 061, 070, 074, and 076	39.7	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 083 and 099	30.8	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 085 and 116	4.97	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	34.2	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 088 and 091	5.29	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 090, 101, and 113	53.9	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 110 and 115	50.4	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 128 and 166	7.33	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 129, 138, and 163	50.2	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 135 and 151	8.12	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 147 and 149	27.3	pg/L	BJ	U	7
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 153 and 168	43.8	pg/L	BJ	U	7

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 156 and 157	6.1	pg/L	BJK	U	22
K1012540	Crab-K1012540	K1012540-079	EPA1668A	Coelution of PCB 180 and 193	9.49	pg/L	BJK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	1.63	ng/kg	JK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	2.27	ng/kg	JK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	1.71	ng/kg	JK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	1.72	ng/kg	BJK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	2.97	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	1.71	ng/kg	BJK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	9.85	ng/kg	BJK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,2',3-Trichlorobiphenyl	3.04	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,2',4-Trichlorobiphenyl	4.67	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	12.5	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,3',4,5,5'-Pentachlorobiphenyl	3.24	ng/kg	JK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	8.17	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,4',5-Trichlorobiphenyl	12.6	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	2,4'-Dichlorobiphenyl	6.09	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	3,3'-Dichlorobiphenyl	115	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	Coelution of PCB 018 and 030	5.85	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	Coelution of PCB 021 and 033	6.13	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	Coelution of PCB 026 and 029	1.08	ng/kg	BJK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	Coelution of PCB 040, 041, and 071	5.11	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	Coelution of PCB 045 and 051	1.51	ng/kg	JK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	Coelution of PCB 049 and 069	6.41	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	Coelution of PCB 050 and 053	1.18	ng/kg	JK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	Coelution of PCB 088 and 091	2.15	ng/kg	JK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	Coelution of PCB 090, 101, and 113	18.3	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	Coelution of PCB 110 and 115	22.7	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	Coelution of PCB 139 and 140	6.36	ng/kg	JK	U	22
K1012541	SJFCA3-CR1	K1012541-006	EPA1668A	Coelution of PCB 147 and 149	12.4	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	7.85	ng/kg	JK	U	22
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	4.97	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	2.84	ng/kg	JK	U	22
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	8.68	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	1.8	ng/kg	JK	U	22
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	2.37	ng/kg	JK	U	22
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,2',3-Trichlorobiphenyl	3.01	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,2',4-Trichlorobiphenyl	6.76	ng/kg	BJ	U	7

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	33.8	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	7.09	ng/kg	JK	U	22
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,3',4,5',6-Pentachlorobiphenyl	3.37	ng/kg	JK	U	22
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,3',4-Trichlorobiphenyl	2.22	ng/kg	JK	U	22
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,3',5'-Trichlorobiphenyl	0.708	ng/kg	JK	U	22
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	2,4'-Dichlorobiphenyl	9.07	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	3,3'-Dichlorobiphenyl	119	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	3,4,4',5-Tetrachlorobiphenyl	9.41	ng/kg	JK	U	22
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	Coelution of PCB 018 and 030	8.58	ng/kg	BJ	U	7
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	Coelution of PCB 026 and 029	4.22	ng/kg	BJK	U	22
K1012541	SJFCA3-CR1-R	K1012541-012	EPA1668A	Coelution of PCB 098 and 102	2.93	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	4.37	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	1.6	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	2.86	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	4.55	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	4.55	ng/kg	BJ	U	7
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	1.21	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	1.46	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	4.92	ng/kg	BJK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	0.853	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	24.4	ng/kg	BJ	U	7
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',3-Trichlorobiphenyl	3.8	ng/kg	BJ	U	7
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.37	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',4-Trichlorobiphenyl	5.22	ng/kg	BJK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	37.6	ng/kg	BJ	U	7
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,2',6-Trichlorobiphenyl	1.75	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,3,3',4,4',5,6-Heptachlorobiphenyl	7.35	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	4.06	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	9.1	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,3',4-Trichlorobiphenyl	2.93	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,3',6-Trichlorobiphenyl	1.59	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	2,4'-Dichlorobiphenyl	12	ng/kg	BJ	U	7
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	1.43	ng/kg	JK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	3,3'-Dichlorobiphenyl	128	ng/kg	BJ	U	7
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	Coelution of PCB 018 and 030	10.6	ng/kg	BJ	U	7
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	Coelution of PCB 021 and 033	8.28	ng/kg	BJK	U	22
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	Coelution of PCB 026 and 029	4.98	ng/kg	BJK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012541	SJFCA3-CR2	K1012541-017	EPA1668A	Coelution of PCB 043 and 073	1.38	ng/kg	JK	U	22
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	1.58	ng/kg	JK	U	22
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	6.9	ng/kg	JK	U	22
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	2,2',3,3',4,5,5'-Heptachlorobiphenyl	6.71	ng/kg	JK	U	22
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	3.09	ng/kg	JK	U	22
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	7.77	ng/kg	JK	U	22
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	7.52	ng/kg	BJ	U	7
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	2,2',3,3',5,5',6-Heptachlorobiphenyl	16.3	ng/kg	JK	U	22
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	2.74	ng/kg	JK	U	22
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	16.5	ng/kg	JK	U	22
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	26.7	ng/kg	BJ	U	7
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	2,2',4-Trichlorobiphenyl	7.1	ng/kg	BJ	U	7
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	4.56	ng/kg	JK	U	22
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	6.21	ng/kg	JK	U	22
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	3,3'-Dichlorobiphenyl	117	ng/kg	BJK	U	22
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	3,4,4'-Trichlorobiphenyl	16.4	ng/kg	JK	U	22
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	Coelution of PCB 018 and 030	13	ng/kg	BJ	U	7
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	Coelution of PCB 026 and 029	5.56	ng/kg	BJ	U	7
K1012541	SJFCA3-CR3	K1012541-023	EPA1668A	Coelution of PCB 093 and 100	10.1	ng/kg	JK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	6.78	ng/kg	JK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	26	ng/kg	JK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	1.49	ng/kg	JK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	1.92	ng/kg	JK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	4.8	ng/kg	JK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	8.4	ng/kg	BJ	U	7
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	2.37	ng/kg	JK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	1.68	ng/kg	JK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	3.93	ng/kg	BJK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	6.93	ng/kg	JK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	7	ng/kg	JK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	22.1	ng/kg	BJ	U	7
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',4,4',5,6'-Hexachlorobiphenyl	15.5	ng/kg	JK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,2',4-Trichlorobiphenyl	5.32	ng/kg	BJ	U	7
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	3.35	ng/kg	JK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	7.02	ng/kg	BJK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	3,3'-Dichlorobiphenyl	110	ng/kg	BJ	U	7
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	4,4'-Dichlorobiphenyl	35.2	ng/kg	JK	U	22

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	Coelution of PCB 018 and 030	10.2	ng/kg	BJ	U	7
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	Coelution of PCB 021 and 033	5.54	ng/kg	BJK	U	22
K1012541	SJFCA3-CR4	K1012541-028	EPA1668A	Coelution of PCB 026 and 029	5.07	ng/kg	BJK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	7.24	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	2.89	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	3.89	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	3.95	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',3,3',4,5'-Hexachlorobiphenyl	19.4	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	6.49	ng/kg	BJ	U	7
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	1.79	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	6.73	ng/kg	BJ	U	7
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	6.95	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	4.67	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	24.9	ng/kg	BJ	U	7
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	2.91	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',4-Trichlorobiphenyl	8.36	ng/kg	BJ	U	7
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	35.4	ng/kg	BJ	U	7
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,3,3',4,4',5,5'-Heptachlorobiphenyl	2.62	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	2.2	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	10.4	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	12.7	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	3,3'-Dichlorobiphenyl	112	ng/kg	BJ	U	7
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	4,4'-Dichlorobiphenyl	64.5	ng/kg	JK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	Coelution of PCB 018 and 030	11.2	ng/kg	BJ	U	7
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	Coelution of PCB 021 and 033	8.57	ng/kg	BJK	U	22
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	Coelution of PCB 026 and 029	5.42	ng/kg	BJ	U	7
K1012541	SJFCA3-CR5	K1012541-034	EPA1668A	Coelution of PCB 050 and 053	4.74	ng/kg	JK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	6.43	ng/kg	JK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,2',3,3',4,5,5'-Heptachlorobiphenyl	5.1	ng/kg	JK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	4.72	ng/kg	JK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	3.67	ng/kg	BJK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,2',3,4,4',5',6-Heptachlorobiphenyl	28.9	ng/kg	JK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	4.4	ng/kg	JK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	4.81	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	11.4	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,2',4-Trichlorobiphenyl	4.12	ng/kg	BJK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	20	ng/kg	BJ	U	7

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	1.85	ng/kg	JK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	6.48	ng/kg	JK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	6.04	ng/kg	JK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,3,4',5-Tetrachlorobiphenyl	2.67	ng/kg	JK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	9.12	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,3,4'-Trichlorobiphenyl	6.47	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,4',5-Trichlorobiphenyl	9.81	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	2,4',6-Trichlorobiphenyl	4.78	ng/kg	BJK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	3,3'-Dichlorobiphenyl	118	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	3,4,4'-Trichlorobiphenyl	14.4	ng/kg	JK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	Coelution of PCB 018 and 030	6.95	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	Coelution of PCB 021 and 033	4.32	ng/kg	BJK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	Coelution of PCB 040, 041, and 071	12.1	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	Coelution of PCB 045 and 051	6.95	ng/kg	JK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	Coelution of PCB 049 and 069	11.8	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	Coelution of PCB 088 and 091	4.25	ng/kg	JK	U	22
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	Coelution of PCB 090, 101, and 113	33.1	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6	K1012541-039	EPA1668A	Coelution of PCB 110 and 115	31	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	6.38	ng/kg	BJK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	11.2	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	5.75	ng/kg	JK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	25	ng/kg	JK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	18.4	ng/kg	JK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	7.55	ng/kg	JK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	2,2',4-Trichlorobiphenyl	9.9	ng/kg	BJK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	14.8	ng/kg	JK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	52.6	ng/kg	JK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	2,3',4,5',6-Pentachlorobiphenyl	4.01	ng/kg	JK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	3.78	ng/kg	JK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	3,3'-Dichlorobiphenyl	125	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	Coelution of PCB 018 and 030	15.8	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	Coelution of PCB 021 and 033	8.77	ng/kg	BJK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	Coelution of PCB 026 and 029	5.49	ng/kg	BJ	U	7
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	Coelution of PCB 043 and 073	5.98	ng/kg	JK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	Coelution of PCB 098 and 102	4.07	ng/kg	JK	U	22
K1012541	SJFCA3-CR6-R	K1012541-044	EPA1668A	Coelution of PCB 135 and 151	28.9	ng/kg	JK	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	1.16	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	14.3	ng/kg	JK	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	9.49	ng/kg	BJ	U	7
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	3.13	ng/kg	JK	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	1.59	ng/kg	JK	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	5.81	ng/kg	BJK	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	1.89	ng/kg	JK	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	1.32	ng/kg	JK	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,2',3-Trichlorobiphenyl	3.86	ng/kg	BJ	U	7
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	2.69	ng/kg	JK	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,2',4-Trichlorobiphenyl	5.05	ng/kg	BJ	U	7
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	1.58	ng/kg	JK	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	1.41	ng/kg	JK	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,3',4-Trichlorobiphenyl	1.71	ng/kg	JK	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,3,4'-Trichlorobiphenyl	8.83	ng/kg	BJ	U	7
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,4',5-Trichlorobiphenyl	23.7	ng/kg	BJ	U	7
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	2,4'-Dichlorobiphenyl	9.66	ng/kg	BJ	U	7
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	3,3'-Dichlorobiphenyl	114	ng/kg	BJ	U	7
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	4-Chlorobiphenyl	1.87	ng/kg	JK	U	22
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	Coelution of PCB 018 and 030	12.4	ng/kg	BJ	U	7
K1012541	SJFCA3-CR7	K1012541-050	EPA1668A	Coelution of PCB 021 and 033	6.99	ng/kg	BJ	U	7
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	8.88	ng/kg	BJ	U	7
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	3.22	ng/kg	JK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	1.73	ng/kg	JK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	6.06	ng/kg	BJ	U	7
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	9.23	ng/kg	JK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',3,4',5,6,6'-Heptachlorobiphenyl	1.14	ng/kg	JK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	2.54	ng/kg	JK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	15.5	ng/kg	BJK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	24.1	ng/kg	BJ	U	7
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',3-Trichlorobiphenyl	3.76	ng/kg	BJ	U	7
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.66	ng/kg	JK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	2.29	ng/kg	JK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',4-Trichlorobiphenyl	6.61	ng/kg	BJ	U	7
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,2',6-Trichlorobiphenyl	1.16	ng/kg	JK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	2.77	ng/kg	JK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	2.4	ng/kg	JK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	4.93	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	10.7	ng/kg	JK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	7.09	ng/kg	JK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2,4'-Dichlorobiphenyl	15.2	ng/kg	BJ	U	7
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	2-Chlorobiphenyl	1.63	ng/kg	JK	U	22
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	3,3'-Dichlorobiphenyl	126	ng/kg	BJ	U	7
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	Coelution of PCB 018 and 030	12.1	ng/kg	BJ	U	7
K1012541	SJFCA3-CR8	K1012541-055	EPA1668A	Coelution of PCB 021 and 033	10.9	ng/kg	BJ	U	7
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	6.45	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	1.4	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,2',3,3',5,6-Hexachlorobiphenyl	2.51	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,2',3,4,4',5,6'-Heptachlorobiphenyl	0.961	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	16.7	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,2',3,5,6'-Pentachlorobiphenyl	2.93	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,2',3-Trichlorobiphenyl	4.75	ng/kg	BJ	U	7
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	2.47	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,2',4,5',6-Pentachlorobiphenyl	1.5	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,2',4,5-Tetrachlorobiphenyl	3.7	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,2'-Dichlorobiphenyl	6.16	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	4.03	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	1.21	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	14.4	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	15.6	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	12.8	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	2.8	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	2,4'-Dichlorobiphenyl	20.5	ng/kg	BJ	U	7
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	3,3'-Dichlorobiphenyl	132	ng/kg	BJ	U	7
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	Coelution of PCB 018 and 030	18.5	ng/kg	BJ	U	7
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	Coelution of PCB 021 and 033	13.8	ng/kg	BJ	U	7
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	Coelution of PCB 043 and 073	2.91	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	Coelution of PCB 098 and 102	3.68	ng/kg	JK	U	22
K1012541	SJFCA3-CR9	K1012541-061	EPA1668A	Coelution of PCB 108 and 124	6.16	ng/kg	JK	U	22
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2,2',3,3',4,5,5'-Heptachlorobiphenyl	3.38	ng/kg	JK	U	22
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	2.16	ng/kg	JK	U	22
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	3.85	ng/kg	JK	U	22
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	7.65	ng/kg	BJ	U	7
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2,2',3,3',4-Pentachlorobiphenyl	2.28	ng/kg	JK	U	22
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	5.08	ng/kg	BJK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	3.1	ng/kg	JK	U	22
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	22.2	ng/kg	BJ	U	7
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2,2',3-Trichlorobiphenyl	3.03	ng/kg	BJ	U	7
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2,2',4-Trichlorobiphenyl	5.67	ng/kg	BJ	U	7
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2,3,3',4,4',5,6-Heptachlorobiphenyl	2.49	ng/kg	JK	U	22
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2,3,3',4',5,5'-Hexachlorobiphenyl	0.992	ng/kg	JK	U	22
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2,4'-Dichlorobiphenyl	13.8	ng/kg	BJ	U	7
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	2-Chlorobiphenyl	1.54	ng/kg	JK	U	22
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	3,3'-Dichlorobiphenyl	111	ng/kg	BJ	U	7
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	Coelution of PCB 018 and 030	11	ng/kg	BJ	U	7
K1012541	SJFCA3-CR10	K1012541-067	EPA1668A	Coelution of PCB 021 and 033	8.46	ng/kg	BJ	U	7
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1668A	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	2.59	ng/kg	JK	U	22
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	1.38	ng/kg	JK	U	22
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1668A	2,2',3,4,4',5,6-Heptachlorobiphenyl	5.3	ng/kg	JK	U	22
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	12.6	ng/kg	JK	U	22
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1668A	2,2',3-Trichlorobiphenyl	5.74	ng/kg	BJK	U	22
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1668A	2,2',6-Trichlorobiphenyl	2.09	ng/kg	JK	U	22
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	2.92	ng/kg	JK	U	22
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1668A	2-Chlorobiphenyl	2.16	ng/kg	JK	U	22
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	5.92	ng/kg	JK	U	22
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	7.96	ng/kg	JK	U	22
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1668A	3,3'-Dichlorobiphenyl	141	ng/kg	BJ	U	7
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1668A	Coelution of PCB 021 and 033	18.3	ng/kg	BJK	U	22
K1012541	SJFCA3-CR10-R	K1012541-073	EPA1668A	Coelution of PCB 098 and 102	18.9	ng/kg	JK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	11.2	pg/L	BJK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	5.29	pg/L	JK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	8.89	pg/L	BJK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	18.4	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,2',3,4',5,5',6-Heptachlorobiphenyl	21.6	pg/L	BJK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,2',3,4',5,5'-Hexachlorobiphenyl	13.2	pg/L	JK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	5.57	pg/L	JK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,2',3,5,5'-Pentachlorobiphenyl	7.14	pg/L	JK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	44.4	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,2',3-Trichlorobiphenyl	5.21	pg/L	BJK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	56.1	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,2',6-Trichlorobiphenyl	6.59	pg/L	BJK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,3,3',4,4',6-Hexachlorobiphenyl	7.38	pg/L	JK	U	22

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	27.6	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,3,4'-Trichlorobiphenyl	9.47	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,4',5-Trichlorobiphenyl	15.7	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	2,4',6-Trichlorobiphenyl	5.97	pg/L	BJK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	3,3'-Dichlorobiphenyl	228	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	3,4,4'-Trichlorobiphenyl	7.47	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 018 and 030	13.9	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 020 and 028	35.4	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 021 and 033	6.96	pg/L	BJK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 044, 047, and 065	87.6	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 061, 070, 074, and 076	45.2	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 083 and 099	60.8	pg/L	BJK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	37.4	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 090, 101, and 113	51.6	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 110 and 115	50.4	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 129, 138, and 163	81.6	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 135 and 151	7.2	pg/L	JK	U	22
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 147 and 149	28.8	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 153 and 168	94.7	pg/L	BJ	U	7
K1012541	Crab-K1012541	K1012541-074	EPA1668A	Coelution of PCB 171 and 173	5.65	pg/L	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	4.4	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',3,3',4,5,5'-Heptachlorobiphenyl	13.5	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	4.81	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	18.7	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',3,3',4,5',6-Heptachlorobiphenyl	3.18	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',3,3',5,5',6-Heptachlorobiphenyl	23.4	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',3,3',5,5'-Hexachlorobiphenyl	9.75	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	14.7	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	21.3	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	4.08	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',3,4',5,6'-Hexachlorobiphenyl	1.87	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	17	ng/kg	BJ	U	7
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',4,4',6,6'-Hexachlorobiphenyl	1.63	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',4-Trichlorobiphenyl	6.54	ng/kg	BJ	U	7
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	27.1	ng/kg	BJ	U	7
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	6.58	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	11.4	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	7.67	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	3.84	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	2,4'-Dichlorobiphenyl	10.7	ng/kg	JK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	3,3'-Dichlorobiphenyl	126	ng/kg	BJ	U	7
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	Coelution of PCB 018 and 030	10.1	ng/kg	BJ	U	7
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	Coelution of PCB 021 and 033	12.9	ng/kg	BJK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	Coelution of PCB 049 and 069	16.7	ng/kg	BJ	U	7
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	Coelution of PCB 090, 101, and 113	44.4	ng/kg	BJK	U	22
K1012545	SJFCA1-CR1	K1012545-006	EPA1668A	Coelution of PCB 093 and 100	19.6	ng/kg	JK	U	22
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	5.15	ng/kg	JK	U	22
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1668A	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	2.38	ng/kg	JK	U	22
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1668A	2,2',3,4,5,5'-Hexachlorobiphenyl	40.7	ng/kg	JK	U	22
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1668A	2,2',3,4,5',6-Hexachlorobiphenyl	19.2	ng/kg	JK	U	22
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1668A	2,2',3-Trichlorobiphenyl	5.5	ng/kg	BJK	U	22
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1668A	2,2',4-Trichlorobiphenyl	16.6	ng/kg	BJK	U	22
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	3.17	ng/kg	JK	U	22
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	33	ng/kg	JK	U	22
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1668A	2,4'-Dichlorobiphenyl	24	ng/kg	JK	U	22
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	17	ng/kg	JK	U	22
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	17.7	ng/kg	JK	U	22
K1012545	SJFCA1-CR1-R	K1012545-012	EPA1668A	3,3'-Dichlorobiphenyl	106	ng/kg	BJ	U	7
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	2,2',3,3',5,5',6-Heptachlorobiphenyl	3.09	ng/kg	JK	U	22
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	2,2',3,3',5,5'-Hexachlorobiphenyl	1.92	ng/kg	JK	U	22
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	2.65	ng/kg	BJ	U	7
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	2,2',3,4,4',5',6-Heptachlorobiphenyl	5.42	ng/kg	JK	U	22
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	1.94	ng/kg	JK	U	22
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	9.55	ng/kg	BJK	U	22
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	10.7	ng/kg	BJ	U	7
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	4.12	ng/kg	BJ	U	7
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	2,3,4'-Trichlorobiphenyl	3.64	ng/kg	JK	U	22
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	2,4',5-Trichlorobiphenyl	7.22	ng/kg	BJ	U	7
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	3,3'-Dichlorobiphenyl	92.4	ng/kg	BJ	U	7
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	3,4,4'-Trichlorobiphenyl	6.49	ng/kg	JK	U	22
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	4,4'-Dichlorobiphenyl	18	ng/kg	JK	U	22
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	Coelution of PCB 018 and 030	4.32	ng/kg	BJK	U	22
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	Coelution of PCB 021 and 033	4.69	ng/kg	BJ	U	7
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	Coelution of PCB 026 and 029	1.38	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	Coelution of PCB 049 and 069	4.26	ng/kg	BJ	U	7
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	Coelution of PCB 059, 062, and 075	3.25	ng/kg	JK	U	22
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	14	ng/kg	BJ	U	7
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	Coelution of PCB 090, 101, and 113	16	ng/kg	BJ	U	7
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	Coelution of PCB 110 and 115	15.4	ng/kg	BJ	U	7
K1012545	SJFCA1-CR2	K1012545-018	EPA1668A	Coelution of PCB 147 and 149	8.93	ng/kg	BJK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	2.83	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,2',3,3',4,5',6'-Heptachlorobiphenyl	7.81	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	2.3	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,2',3,3',5,5'-Hexachlorobiphenyl	2.37	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	2.25	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	3.76	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	2.48	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	9.71	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,2',3-Trichlorobiphenyl	3.29	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,2',4-Trichlorobiphenyl	3.6	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	18.7	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,3,3',4',5-Pentachlorobiphenyl	10.3	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	2.43	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	2.35	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,3,4,4'-Tetrachlorobiphenyl	14.1	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	3.74	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	1.73	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,3,4',5-Tetrachlorobiphenyl	1.73	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	10.1	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	2,4',5-Trichlorobiphenyl	12	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	4.91	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	3,3'-Dichlorobiphenyl	112	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	3,4,4'-Trichlorobiphenyl	7.96	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	Coelution of PCB 018 and 030	5.1	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	Coelution of PCB 021 and 033	4.52	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	Coelution of PCB 049 and 069	9.82	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	Coelution of PCB 059, 062, and 075	4.75	ng/kg	JK	U	22
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	17.6	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	Coelution of PCB 090, 101, and 113	35.6	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	Coelution of PCB 110 and 115	31.8	ng/kg	BJ	U	7
K1012545	SJFCA1-CR3	K1012545-024	EPA1668A	Coelution of PCB 171 and 173	5.89	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	6.45	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,2',3,3',4,4',5,6-Octachlorobiphenyl	4.27	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,2',3,3',4,5,5'-Heptachlorobiphenyl	6.25	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,2',3,3',5,5'-Hexachlorobiphenyl	5.05	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	12.5	ng/kg	BJ	U	7
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,2',4-Trichlorobiphenyl	4.35	ng/kg	BJ	U	7
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	21	ng/kg	BJ	U	7
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,3,3',4,4',5,6-Heptachlorobiphenyl	6.64	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	1.67	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	2.81	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	19.7	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,3',4,4',5'-Pentachlorobiphenyl	5.74	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,3,4,4',5-Pentachlorobiphenyl	7.99	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	4.98	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	1.8	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,4',5-Trichlorobiphenyl	14.6	ng/kg	BJ	U	7
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	2,4',6-Trichlorobiphenyl	5.14	ng/kg	BJK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	3,3'-Dichlorobiphenyl	98.2	ng/kg	BJ	U	7
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	3,4,4'-Trichlorobiphenyl	7.56	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	4,4'-Dichlorobiphenyl	13.1	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	Coelution of PCB 018 and 030	5.92	ng/kg	BJK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	Coelution of PCB 021 and 033	3.2	ng/kg	BJK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	Coelution of PCB 049 and 069	12.8	ng/kg	BJ	U	7
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	Coelution of PCB 050 and 053	1.91	ng/kg	JK	U	22
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	Coelution of PCB 090, 101, and 113	40.6	ng/kg	BJ	U	7
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	Coelution of PCB 110 and 115	36.9	ng/kg	BJ	U	7
K1012545	SJFCA1-CR4	K1012545-030	EPA1668A	Coelution of PCB 135 and 151	4.37	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	2.75	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2.69	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,2',3,3',5,5',6-Heptachlorobiphenyl	3.32	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,2',3,4,4',5',6-Heptachlorobiphenyl	6.73	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	3.96	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,2',3,4',5,5',6-Heptachlorobiphenyl	19.4	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	9.18	ng/kg	BJ	U	7
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,2',3-Trichlorobiphenyl	3.86	ng/kg	BJ	U	7
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,2',4,4',5,6'-Hexachlorobiphenyl	2.77	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,2',4-Trichlorobiphenyl	2.79	ng/kg	BJ	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	12.5	ng/kg	BJ	U	7
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,3,3',4,4',5,6-Heptachlorobiphenyl	2.32	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,3,3',4',5-Pentachlorobiphenyl	6.11	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	5.98	ng/kg	BJ	U	7
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,3,4'-Trichlorobiphenyl	5.49	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	2,4',5-Trichlorobiphenyl	8.1	ng/kg	BJ	U	7
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	4.16	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	3,3'-Dichlorobiphenyl	103	ng/kg	BJ	U	7
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	Coelution of PCB 018 and 030	5.75	ng/kg	BJ	U	7
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	Coelution of PCB 021 and 033	4.16	ng/kg	BJK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	Coelution of PCB 040, 041, and 071	4.23	ng/kg	JK	U	22
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	Coelution of PCB 049 and 069	6.57	ng/kg	BJ	U	7
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	17.9	ng/kg	BJ	U	7
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	Coelution of PCB 090, 101, and 113	19.6	ng/kg	BJ	U	7
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	Coelution of PCB 110 and 115	19.8	ng/kg	BJ	U	7
K1012545	SJFCA1-CR5	K1012545-036	EPA1668A	Coelution of PCB 147 and 149	10.1	ng/kg	BJK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	10.8	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	8.21	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	5.47	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,2',3,3',5,5'-Hexachlorobiphenyl	3.35	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	2.96	ng/kg	BJK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	8.16	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	19.3	ng/kg	BJ	U	7
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,2',4-Trichlorobiphenyl	3.94	ng/kg	BJ	U	7
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	44.8	ng/kg	BJ	U	7
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	4.76	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	9.93	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,3,4',5,6-Pentachlorobiphenyl	5.32	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	3.17	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,3,4'-Trichlorobiphenyl	5.5	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,4',5-Trichlorobiphenyl	18.6	ng/kg	BJ	U	7
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	2,4'-Dichlorobiphenyl	6.21	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	3,3'-Dichlorobiphenyl	90.2	ng/kg	BJK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	Coelution of PCB 018 and 030	9.05	ng/kg	BJ	U	7
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	Coelution of PCB 021 and 033	5.57	ng/kg	BJ	U	7
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	Coelution of PCB 026 and 029	4.69	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	Coelution of PCB 049 and 069	17	ng/kg	BJ	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	Coelution of PCB 050 and 053	4.05	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	29.9	ng/kg	BJK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	Coelution of PCB 139 and 140	2.56	ng/kg	JK	U	22
K1012545	SJFCA1-CR6	K1012545-042	EPA1668A	Coelution of PCB 171 and 173	12.2	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1668A	2,2',3,3',4,6-Hexachlorobiphenyl	6.66	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1668A	2,2',3,4',6,6'-Hexachlorobiphenyl	2.66	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1668A	2,2',3-Trichlorobiphenyl	8.79	ng/kg	BJK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1668A	2,2',6-Trichlorobiphenyl	3.25	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1668A	2,3,3',4,4',5',6-Heptachlorobiphenyl	28.9	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1668A	2,3,3',4,5,5'-Hexachlorobiphenyl	4.03	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1668A	2,3,3',5,5'-Pentachlorobiphenyl	6.94	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1668A	2,3',4,5',6-Pentachlorobiphenyl	4.92	ng/kg	JK	U	22
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1668A	3,3'-Dichlorobiphenyl	119	ng/kg	BJ	U	7
K1012545	SJFCA1-CR6-R	K1012545-048	EPA1668A	Coelution of PCB 021 and 033	17.6	ng/kg	BJ	U	7
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	4.49	ng/kg	JK	U	22
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	8.2	ng/kg	BJ	U	7
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	13.9	ng/kg	BJ	U	7
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	2,3,3',4',5-Pentachlorobiphenyl	4.65	ng/kg	JK	U	22
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	6.11	ng/kg	BJ	U	7
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	2,4',5-Trichlorobiphenyl	9.16	ng/kg	BJ	U	7
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	3,3',4,4'-Tetrachlorobiphenyl	2.09	ng/kg	JK	U	22
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	3,3'-Dichlorobiphenyl	89.5	ng/kg	BJ	U	7
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	Coelution of PCB 018 and 030	5.45	ng/kg	BJ	U	7
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	Coelution of PCB 021 and 033	3.35	ng/kg	BJK	U	22
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	Coelution of PCB 049 and 069	5.95	ng/kg	BJ	U	7
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	Coelution of PCB 059, 062, and 075	3.11	ng/kg	JK	U	22
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	10.9	ng/kg	BJ	U	7
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	Coelution of PCB 090, 101, and 113	16.4	ng/kg	BJ	U	7
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	Coelution of PCB 110 and 115	15.2	ng/kg	BJK	U	22
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	Coelution of PCB 128 and 166	7.01	ng/kg	JK	U	22
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	Coelution of PCB 147 and 149	11.4	ng/kg	BJ	U	7
K1012545	SJFCA1-CR7	K1012545-054	EPA1668A	Coelution of PCB 156 and 157	5.71	ng/kg	JK	U	22
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	2.73	ng/kg	JK	U	22
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	7.95	ng/kg	BJ	U	7
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	2,2',4-Trichlorobiphenyl	2.76	ng/kg	BJ	U	7
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	9.34	ng/kg	BJK	U	22
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	1.86	ng/kg	JK	U	22

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	2,3,4,4'-Tetrachlorobiphenyl	6.19	ng/kg	JK	U	22
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	3.51	ng/kg	BJ	U	7
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	2,3,4'-Trichlorobiphenyl	3.39	ng/kg	JK	U	22
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	2,4',5-Trichlorobiphenyl	7.19	ng/kg	BJ	U	7
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	3,3'-Dichlorobiphenyl	88.1	ng/kg	BJ	U	7
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	Coelution of PCB 018 and 030	4.48	ng/kg	BJ	U	7
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	Coelution of PCB 021 and 033	3.7	ng/kg	BJ	U	7
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	Coelution of PCB 049 and 069	4.28	ng/kg	BJ	U	7
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	Coelution of PCB 061, 070, 074, and 076	22.5	ng/kg	BJ	U	7
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	Coelution of PCB 088 and 091	1.91	ng/kg	JK	U	22
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	Coelution of PCB 090, 101, and 113	13.2	ng/kg	BJ	U	7
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	Coelution of PCB 110 and 115	12.4	ng/kg	BJ	U	7
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	Coelution of PCB 147 and 149	6.06	ng/kg	BJK	U	22
K1012545	SJFCA1-CR8	K1012545-060	EPA1668A	Coelution of PCB 198 and 199	2.78	ng/kg	JK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	8.35	ng/kg	JK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,2',3,3',4,4',5-Heptachlorobiphenyl	5.49	ng/kg	JK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,2',3,3',4,6'-Hexachlorobiphenyl	2.55	ng/kg	JK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,2',3,3',5,5',6-Heptachlorobiphenyl	2.52	ng/kg	JK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	2.87	ng/kg	BJK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,2',3,4,4',5-Hexachlorobiphenyl	2.65	ng/kg	JK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	10.2	ng/kg	BJ	U	7
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,2',3-Trichlorobiphenyl	3.07	ng/kg	BJ	U	7
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,2',4-Trichlorobiphenyl	3.27	ng/kg	BJK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	14.9	ng/kg	BJ	U	7
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,3',4,4',5,5'-Hexachlorobiphenyl	3.12	ng/kg	JK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	3.2	ng/kg	JK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	6.51	ng/kg	BJ	U	7
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,4',5-Trichlorobiphenyl	8.64	ng/kg	BJ	U	7
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	2,4',6-Trichlorobiphenyl	3.06	ng/kg	BJK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	3,3'-Dichlorobiphenyl	97.4	ng/kg	BJ	U	7
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	3,4,4'-Trichlorobiphenyl	3.87	ng/kg	JK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	Coelution of PCB 018 and 030	5.27	ng/kg	BJ	U	7
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	Coelution of PCB 021 and 033	4.51	ng/kg	BJ	U	7
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	Coelution of PCB 049 and 069	6.51	ng/kg	BJ	U	7
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	Coelution of PCB 061, 070, 074, and 076	31.5	ng/kg	BJ	U	7
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	13.8	ng/kg	BJ	U	7
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	Coelution of PCB 088 and 091	2.38	ng/kg	JK	U	22

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	Coelution of PCB 090, 101, and 113	18.3	ng/kg	BJ	U	7
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	Coelution of PCB 110 and 115	19.1	ng/kg	BJ	U	7
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	Coelution of PCB 135 and 151	2.78	ng/kg	JK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	Coelution of PCB 147 and 149	9.6	ng/kg	BJK	U	22
K1012545	SJFCA1-CR9	K1012545-066	EPA1668A	Coelution of PCB 171 and 173	2.33	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	2.19	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,2',3,3',4,5,5'-Heptachlorobiphenyl	2.95	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	3.65	ng/kg	BJK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,2',3,4,4',5,5',6-Octachlorobiphenyl	1.63	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,2',3,4'-Tetrachlorobiphenyl	5.15	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	12.5	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,2',3-Trichlorobiphenyl	2.68	ng/kg	BJK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,2',4,4',5,6'-Hexachlorobiphenyl	8.99	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,2',4-Trichlorobiphenyl	4.11	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	21.1	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,3,3',4,4',5,6-Heptachlorobiphenyl	2.18	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	2.18	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,3,3',4',5-Pentachlorobiphenyl	10.4	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,3,3',4'-Tetrachlorobiphenyl	4.2	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	1.9	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,3',5,5'-Tetrachlorobiphenyl	1.41	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,4',5-Trichlorobiphenyl	11.6	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	2,4'-Dichlorobiphenyl	6.9	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	3,3'-Dichlorobiphenyl	103	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	Coelution of PCB 018 and 030	5.92	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	Coelution of PCB 021 and 033	4.02	ng/kg	BJK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	Coelution of PCB 026 and 029	2.16	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	Coelution of PCB 049 and 069	11.2	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	Coelution of PCB 050 and 053	1.92	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	Coelution of PCB 059, 062, and 075	7.77	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	Coelution of PCB 088 and 091	5.4	ng/kg	JK	U	22
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	Coelution of PCB 090, 101, and 113	36.2	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10	K1012545-072	EPA1668A	Coelution of PCB 110 and 115	36.9	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	11.1	ng/kg	JK	U	22
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	2,2',3,3',4,5,6'-Heptachlorobiphenyl	16.1	ng/kg	JK	U	22
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	2,2',3,3',4,6,6'-Heptachlorobiphenyl	1.66	ng/kg	JK	U	22
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	2,2',3,3',5,6,6'-Heptachlorobiphenyl	4.27	ng/kg	JK	U	22

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	2,2',3,3',6,6'-Hexachlorobiphenyl	3.28	ng/kg	JK	U	22
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	12.2	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	2,2',3,4,4',6,6'-Heptachlorobiphenyl	2.92	ng/kg	JK	U	22
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	2,2',3-Trichlorobiphenyl	3.58	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	2,2',4,5',6-Pentachlorobiphenyl	1.99	ng/kg	JK	U	22
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	2,2',4-Trichlorobiphenyl	7.78	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	2,3,3',4',5',6-Hexachlorobiphenyl	20.5	ng/kg	JK	U	22
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	2,3',6-Trichlorobiphenyl	2.78	ng/kg	JK	U	22
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	3,3',4,4',5-Pentachlorobiphenyl	6.29	ng/kg	JK	U	22
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	3,3',4,5'-Tetrachlorobiphenyl	4.78	ng/kg	JK	U	22
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	3,3'-Dichlorobiphenyl	87.3	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	Coelution of PCB 018 and 030	14.7	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	Coelution of PCB 021 and 033	14.2	ng/kg	BJ	U	7
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	Coelution of PCB 045 and 051	6.61	ng/kg	JK	U	22
K1012545	SJFCA1-CR10-R	K1012545-078	EPA1668A	Coelution of PCB 108 and 124	7.01	ng/kg	JK	U	22
K1012545	Crab-K1012545	K1012545-079	EPA1668A	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	9.56	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	2,2',3,3',6-Pentachlorobiphenyl	6.24	pg/L	BJK	U	22
K1012545	Crab-K1012545	K1012545-079	EPA1668A	2,2',3,4',5,5',6-Heptachlorobiphenyl	14.4	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	2,2',3,5',6-Pentachlorobiphenyl	23.8	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	2,2',4-Trichlorobiphenyl	4.32	pg/L	BJK	U	22
K1012545	Crab-K1012545	K1012545-079	EPA1668A	2,2',5,5'-Tetrachlorobiphenyl	31.3	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	2,3,3',4,4'-Pentachlorobiphenyl	11.7	pg/L	BJK	U	22
K1012545	Crab-K1012545	K1012545-079	EPA1668A	2,3',4,5'-Tetrachlorobiphenyl	3.35	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	2,3,4',6-Tetrachlorobiphenyl	5.82	pg/L	BJK	U	22
K1012545	Crab-K1012545	K1012545-079	EPA1668A	2,4',5-Trichlorobiphenyl	9.42	pg/L	BJK	U	22
K1012545	Crab-K1012545	K1012545-079	EPA1668A	3,3'-Dichlorobiphenyl	200	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	Coelution of PCB 018 and 030	13	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	Coelution of PCB 020 and 028	19.6	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	Coelution of PCB 044, 047, and 065	61.1	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	Coelution of PCB 061, 070, 074, and 076	17.6	pg/L	BJK	U	22
K1012545	Crab-K1012545	K1012545-079	EPA1668A	Coelution of PCB 083 and 099	38.7	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	Coelution of PCB 086, 087, 097, 109, 119, and 125	22.6	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	Coelution of PCB 090, 101, and 113	31.3	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	Coelution of PCB 110 and 115	29.5	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	Coelution of PCB 129, 138, and 163	55.3	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	Coelution of PCB 147 and 149	14.8	pg/L	BJ	U	7
K1012545	Crab-K1012545	K1012545-079	EPA1668A	Coelution of PCB 153 and 168	63.6	pg/L	BJ	U	7

Qualified Data Summary Table
San Jacinto River Waste Pits - Tissue Sampling

SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1010961	CL-TTR3-001	K1010961-001	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1010961	CL-TTR3-001	K1010961-001	SW8270CSIM_3541	Phenol	15	ug/kg	J	U	7
K1010961	CL-TTR3-002	K1010961-002	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1010961	CL-TTR3-002	K1010961-002	SW8270CSIM_3541	Phenol	14	ug/kg	J	U	7
K1010961	CL-TTR3-003	K1010961-003	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1010961	CL-TTR3-003	K1010961-003	SW8270CSIM_3541	Phenol	13	ug/kg	J	U	7
K1010961	CL-TTR3-004	K1010961-004	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1010961	CL-TTR3-004	K1010961-004	SW8270CSIM_3541	Phenol	23	ug/kg	J	U	7
K1010961	CL-TTR4-001	K1010961-005	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1010961	CL-TTR4-001	K1010961-005	SW8270CSIM_3541	Phenol	13	ug/kg	J	U	7
K1010961	CL-TTR4-002	K1010961-006	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1010961	CL-TTR4-002	K1010961-006	SW8270CSIM_3541	Phenol	20	ug/kg	J	U	7
K1010961	CL-TTR4-003	K1010961-007	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1010961	CL-TTR4-003	K1010961-007	SW8270CSIM_3541	Phenol	14	ug/kg	J	U	7
K1010961	CL-TTR4-004	K1010961-008	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1010961	CL-TTR4-004	K1010961-008	SW8270CSIM_3541	Phenol	14	ug/kg	J	U	7
K1011128	CL-TTR1-001	K1011128-001	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR1-001	K1011128-001	SW8270CSIM_3541	Phenol	24	ug/kg	J	U	7
K1011128	CL-TTR1-002	K1011128-002	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR1-002	K1011128-002	SW8270CSIM_3541	Phenol	27	ug/kg	J	U	7
K1011128	CL-TTR1-003	K1011128-003	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR1-003	K1011128-003	SW8270CSIM_3541	Phenol	22	ug/kg	J	U	7
K1011128	CL-TTR1-004	K1011128-004	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR1-004	K1011128-004	SW8270CSIM_3541	Phenol	19	ug/kg	J	U	7
K1011128	CL-TTR1-005	K1011128-005	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR1-005	K1011128-005	SW8270CSIM_3541	Phenol	18	ug/kg	J	U	7
K1011128	CL-TTR3-005	K1011128-006	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR4-005	K1011128-007	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR4-005	K1011128-007	SW8270CSIM_3541	Phenol	17	ug/kg	J	U	7
K1011128	CL-TTR5-001	K1011128-008	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR5-001	K1011128-008	SW8270CSIM_3541	Phenol	20	ug/kg	J	U	7
K1011128	CL-TTR5-002	K1011128-009	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR5-002	K1011128-009	SW8270CSIM_3541	Phenol	28	ug/kg	J	U	7
K1011128	CL-TTR5-003	K1011128-010	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR5-003	K1011128-010	SW8270CSIM_3541	Phenol	19	ug/kg	J	U	7
K1011128	CL-TTR5-004	K1011128-011	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR5-004	K1011128-011	SW8270CSIM_3541	Phenol	18	ug/kg	J	U	7

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011128	CL-TTR5-005	K1011128-012	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR5-005	K1011128-012	SW8270CSIM_3541	Phenol	16	ug/kg	J	U	7
K1011128	CL-TTR6-001	K1011128-013	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR6-001	K1011128-013	SW8270CSIM_3541	Phenol	14	ug/kg	J	U	7
K1011128	CL-TTR6-002	K1011128-014	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR6-002	K1011128-014	SW8270CSIM_3541	Phenol	16	ug/kg	J	U	7
K1011128	CL-TTR6-003	K1011128-015	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR6-003	K1011128-015	SW8270CSIM_3541	Phenol	13	ug/kg	J	U	7
K1011128	CL-TTR6-004	K1011128-016	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR6-004	K1011128-016	SW8270CSIM_3541	Phenol	12	ug/kg	J	U	7
K1011128	CL-TTR6-005	K1011128-017	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011128	CL-TTR6-005	K1011128-017	SW8270CSIM_3541	Phenol	12	ug/kg	J	U	7
K1011248	CL-TTR7-001	K1011248-001	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011248	CL-TTR7-001	K1011248-001	SW8270CSIM_3541	Phenol	17	ug/kg	J	U	7
K1011248	CL-TTR7-002	K1011248-002	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011248	CL-TTR7-002	K1011248-002	SW8270CSIM_3541	Phenol	22	ug/kg	J	U	7
K1011248	CL-TTR7-003	K1011248-003	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011248	CL-TTR7-003	K1011248-003	SW8270CSIM_3541	Phenol	17	ug/kg	J	U	7
K1011248	CL-TTR7-004	K1011248-004	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011248	CL-TTR7-004	K1011248-004	SW8270CSIM_3541	Phenol	20	ug/kg	J	U	7
K1011248	CL-TTR7-005	K1011248-005	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011248	CL-TTR7-005	K1011248-005	SW8270CSIM_3541	Phenol	17	ug/kg	J	U	7
K1011248	CL-TTR8-001	K1011248-006	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011248	CL-TTR8-001	K1011248-006	SW8270CSIM_3541	Phenol	15	ug/kg	J	U	7
K1011248	CL-TTR8-002	K1011248-007	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011248	CL-TTR8-002	K1011248-007	SW8270CSIM_3541	Phenol	14	ug/kg	J	U	7
K1011248	CL-TTR8-003	K1011248-008	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011248	CL-TTR8-003	K1011248-008	SW8270CSIM_3541	Phenol	16	ug/kg	J	U	7
K1011248	CL-TTR8-004	K1011248-009	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011248	CL-TTR8-004	K1011248-009	SW8270CSIM_3541	Phenol	15	ug/kg	J	U	7
K1011248	CL-TTR8-005	K1011248-010	SW8270CSIM_3541	2,3,4,6-Tetrachlorophenol	4.7	ug/kg	U	UJ	10
K1011248	CL-TTR8-005	K1011248-010	SW8270CSIM_3541	Phenol	17	ug/kg	J	U	7
K1011254	FFFW-904	K1011254-001	SW8270C_3541	Benzo[a]anthracene	0.22	ug	J	U	7
K1011254	FFFW-904	K1011254-001	SW8270C_3541	Benzyl alcohol	0.33	ug	J	U	6
K1011254	FFFW-904	K1011254-001	SW8270C_3541	bis(2-Ethylhexyl)phthalate	0.64	ug	J	U	7
K1011254	FFFW-904	K1011254-001	SW8270C_3541	Chrysene	0.19	ug	J	U	7
K1011254	FFFW-904	K1011254-001	SW8270C_3541	Diethyl phthalate	4.8	ug	J	U	6

Qualified Data Summary Table
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SDG	Sample ID	Laboratory ID	Method	Analyte	Result	Units	Laboratory Flag	Validation Qualifier	Validation Reason
K1011254	FFFW-904	K1011254-001	SW8270C_3541	Di-n-butyl phthalate	0.76	ug	J	U	6
K1011254	FFFW-904	K1011254-001	SW8270C_3541	Fluoranthene	0.18	ug	J	U	6
K1011254	FFFW-904	K1011254-001	SW8270C_3541	Phenol	0.25	ug	J	U	6
K1011254	FFFW-904	K1011254-001	SW8270C_3541	Pyrene	0.2	ug	J	U	6
K1011254	FB-905	K1011254-002	SW8270C_3541	Benzo[a]anthracene	0.2	ug	J	U	7
K1011254	FB-905	K1011254-002	SW8270C_3541	bis(2-Ethylhexyl)phthalate	0.67	ug	J	U	7
K1011254	FB-905	K1011254-002	SW8270C_3541	Chrysene	0.17	ug	J	U	7
K1011379	FFFW-906	K1011379-001	SW8270C_3541	Benzo[a]anthracene	0.26	ug	J	U	7
K1011379	FFFW-906	K1011379-001	SW8270C_3541	Benzyl alcohol	0.45	ug	J	U	6
K1011379	FFFW-906	K1011379-001	SW8270C_3541	bis(2-Ethylhexyl)phthalate	0.68	ug	J	U	7
K1011379	FFFW-906	K1011379-001	SW8270C_3541	Chrysene	0.14	ug	J	U	7
K1011379	FFFW-906	K1011379-001	SW8270C_3541	Diethyl phthalate	4.8	ug	J	U	6
K1011379	FFFW-906	K1011379-001	SW8270C_3541	Di-n-butyl phthalate	1.3	ug	J	U	6
K1011379	FFFW-906	K1011379-001	SW8270C_3541	Fluoranthene	0.08	ug	J	U	6
K1011379	FFFW-906	K1011379-001	SW8270C_3541	Phenol	0.27	ug	J	U	6
K1011379	FFFW-907	K1011379-002	SW8270C_3541	Benzo[a]anthracene	0.23	ug	J	U	7
K1011379	FFFW-907	K1011379-002	SW8270C_3541	Benzyl alcohol	0.48	ug	J	U	6
K1011379	FFFW-907	K1011379-002	SW8270C_3541	bis(2-Ethylhexyl)phthalate	0.69	ug	J	U	7
K1011379	FFFW-907	K1011379-002	SW8270C_3541	Chrysene	0.14	ug	J	U	7
K1011379	FFFW-907	K1011379-002	SW8270C_3541	Diethyl phthalate	4.3	ug	J	U	6
K1011379	FFFW-907	K1011379-002	SW8270C_3541	Di-n-butyl phthalate	2.7	ug	J	U	6
K1011379	FFFW-907	K1011379-002	SW8270C_3541	Fluoranthene	0.13	ug	J	U	6
K1011379	FFFW-907	K1011379-002	SW8270C_3541	Phenol	0.31	ug	J	U	6
K1011379	FFFW-908	K1011379-003	SW8270C_3541	Benzo[a]anthracene	0.21	ug	J	U	7
K1011379	FFFW-908	K1011379-003	SW8270C_3541	Benzyl alcohol	0.35	ug	J	U	6
K1011379	FFFW-908	K1011379-003	SW8270C_3541	bis(2-Ethylhexyl)phthalate	1.3	ug	J	U	7
K1011379	FFFW-908	K1011379-003	SW8270C_3541	Chrysene	0.12	ug	J	U	7
K1011379	FFFW-908	K1011379-003	SW8270C_3541	Diethyl phthalate	3.5	ug	J	U	6
K1011379	FFFW-908	K1011379-003	SW8270C_3541	Di-n-butyl phthalate	2.2	ug	J	U	6
K1011379	FFFW-908	K1011379-003	SW8270C_3541	Fluoranthene	0.09	ug	J	U	6
K1011379	FFFW-908	K1011379-003	SW8270C_3541	Phenol	0.42	ug	J	U	6
K1011383	GulfKillifish	K1011383-022	SW8270CSIM_3541	Naphthalene	0.039	ug/L		U	7
K1012518	Catfish	K1012518-057	SW8270C_3520C	bis(2-Ethylhexyl)phthalate	0.38	ug/L	J	J	1
K1012526	SJFCA1-LF10-R	K1012526-052	SW8270CSIM_3541	bis(2-Ethylhexyl)phthalate	340	ug/kg	J	J	9
K1012530	SJFCACB-LF8-R	K1012530-056	SW8270CSIM_3541	bis(2-Ethylhexyl)phthalate	210	ug/kg	U	UJ	13
K1012541	Crab-K1012541	K1012541-074	SW8270C_3520C	bis(2-Ethylhexyl)phthalate	0.75	ug/L	J	U	7

APPENDIX B
SUMMARY STATISTICS FOR LIPID-NORMALIZED CONCENTRATIONS OF DIOXINS, FURANS, AND PCBS IN TISSUE BY FCA, AND WET WEIGHT CONCENTRATIONS OF PCB CONGENERS IN TISSUE BY FCA

Table B-1
Summary Statistics for Dioxins and Furans in Edible Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
Blue Crab - Edible																
Dioxins/Furans (ng/kg - lw)																
2,3,7,8-TCDD	5/10	442	2,570	597	2/10	59.8	101	47	0/10	--	--	32.7	0/10	--	--	48.5
1,2,3,7,8-PeCDD	0/10	--	--	42.8	0/10	--	--	11.3	0/10	--	--	17.8	0/10	--	--	43.6
1,2,3,4,7,8-HxCDD	0/10	--	--	32.1	0/10	--	--	9.16	0/10	--	--	13.7	0/10	--	--	31.8
1,2,3,6,7,8-HxCDD	2/10	40.3	97.4	53.4	0/10	--	--	12	0/10	--	--	16.8	0/10	--	--	39.4
1,2,3,7,8,9-HxCDD	1/10	101	101	43.7	0/10	--	--	10.3	0/10	--	--	14.6	0/10	--	--	33.7
1,2,3,4,6,7,8-HpCDD	7/10	36.2	615	144	1/10	28.1	28.1	12.7	0/10	--	--	15.6	0/10	--	--	29.3
OCDD	5/10	342	2,400	563	5/10	68.7	438	132	0/10	--	--	50.3	3/10	101	1,030	194
2,3,7,8-TCDF	9/10	105	6,400	1,620	8/10	105	490	192	4/10	97.2	504	123	0/10	--	--	47.1
1,2,3,7,8-PeCDF	0/10	--	--	38.6	0/10	--	--	10.8	0/10	--	--	16.2	0/10	--	--	39.5
2,3,4,7,8-PeCDF	0/10	--	--	36.6	0/10	--	--	10.7	0/10	--	--	15.4	0/10	--	--	37.8
1,2,3,4,7,8-HxCDF	1/10	105	105	33.9	0/10	--	--	7.39	0/10	--	--	11.3	0/10	--	--	23.4
1,2,3,6,7,8-HxCDF	3/10	32.4	94.4	41.3	0/10	--	--	7.2	0/10	--	--	10.7	0/10	--	--	22.3
1,2,3,7,8,9-HxCDF	0/10	--	--	29.8	0/10	--	--	9.71	0/10	--	--	13.8	0/10	--	--	27.8
2,3,4,6,7,8-HxCDF	1/10	70.9	70.9	31.1	0/10	--	--	8.01	0/10	--	--	11.6	0/10	--	--	24.7
1,2,3,4,6,7,8-HpCDF	0/10	--	--	33.8	0/10	--	--	7.89	0/10	--	--	13.5	0/10	--	--	22.8
1,2,3,4,7,8,9-HpCDF	0/10	--	--	43.8	0/10	--	--	11.4	0/10	--	--	20	0/10	--	--	33.2
OCDF	4/10	34.6	535	146	0/10	--	--	17	0/10	--	--	30.6	0/10	--	--	57.1
TEQ_{DF} [b]	10/10	67.9	3,590	842	8/10	41.5	199	87.8	4/10	37	174	77.6	3/10	37.1	404	131
TEQ_{DFP} [c]	10/10	93.5	4,010	967	10/10	86.3	357	191	10/10	34.9	238	148	10/10	69.4	686	223
TEQ_{P} [d]	10/10	25.8	423	125	10/10	39.7	265	103	10/10	22.2	168	70.3	10/10	23.9	282	92.2
Polychlorinated Biphenyls (µg/kg - lw)																
Total PCBs [e]	10/10	184	6,310	1,880	10/10	1,390	5,020	2,980	10/10	929	5,100	2,550	10/10	425	4,210	1,460

FCA = fish collection area
lw = lipid weight
-- = not applicable, no detected values

a - Mean calculation includes detected and non-detected values. Non-detected values were set at one-half the detection limit.
b - Toxicity equivalent for dioxins and furans calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
c - Toxicity equivalent for dioxins, furans, and polychlorinated biphenyls calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
d - Toxicity equivalent for polychlorinated biphenyls calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
e - Total polychlorinated biphenyls calculated as the sum of all 209 congeners with non-detects set at one-half the detection limit.

Table B-2
Summary Statistics for Polychlorinated Biphenyl Congeners in Edible Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
Blue Crab - Edible																
Polychlorinated Biphenyl Congeners [b] (ng/kg - lw)																
PCB001	0/10	--	--	816	0/10	--	--	398	2/10	1,040	1,430	594	0/10	--	--	966
PCB002	0/10	--	--	849	0/10	--	--	386	0/10	--	--	349	0/10	--	--	1,010
PCB003	0/10	--	--	987	0/10	--	--	454	2/10	1,090	1,550	663	0/10	--	--	1,180
PCB004	0/10	--	--	2,760	0/10	--	--	2,590	0/10	--	--	7,820	0/10	--	--	9,710
PCB005	0/10	--	--	3,240	0/10	--	--	1,200	0/10	--	--	2,950	0/10	--	--	3,410
PCB006	0/10	--	--	2,670	0/10	--	--	1,020	0/10	--	--	2,710	0/10	--	--	2,890
PCB007	0/10	--	--	2,790	0/10	--	--	1,090	0/10	--	--	2,920	0/10	--	--	3,020
PCB008	0/10	--	--	2,740	7/10	1,830	20,800	6,150	0/10	--	--	4,530	0/10	--	--	3,990
PCB009	0/10	--	--	2,750	0/10	--	--	1,050	0/10	--	--	2,720	0/10	--	--	2,960
PCB010	0/10	--	--	2,170	0/10	--	--	1,990	0/10	--	--	5,850	0/10	--	--	7,190
PCB011	0/10	--	--	60,400	0/10	--	--	14,800	0/10	--	--	30,200	0/10	--	--	50,300
PCB012+013	0/10	--	--	2,770	0/10	--	--	1,030	0/10	--	--	2,730	0/10	--	--	2,930
PCB014	0/10	--	--	2,650	0/10	--	--	990	0/10	--	--	2,630	0/10	--	--	2,810
PCB015	4/10	8,960	17,000	8,800	10/10	13,800	81,600	35,500	6/10	13,000	65,700	22,300	0/10	--	--	3,620
PCB016	0/10	--	--	1,850	0/10	--	--	681	0/10	--	--	964	0/10	--	--	1,810
PCB017	0/10	--	--	2,070	5/10	1,010	4,290	1,880	1/10	7,060	7,060	1,930	0/10	--	--	1,800
PCB018+030	0/10	--	--	3,480	2/10	1,870	5,310	2,460	0/10	--	--	2,790	0/10	--	--	2,690
PCB019	0/10	--	--	1,100	0/10	--	--	463	3/10	504	1,720	633	1/10	653	653	1,110
PCB020+028	10/10	12,100	197,000	86,400	10/10	64,300	276,000	130,000	10/10	50,900	237,000	123,000	9/10	29,400	260,000	75,200
PCB021+033	0/10	--	--	2,640	1/10	2,030	2,030	1,340	0/10	--	--	1,870	0/10	--	--	2,220
PCB022	6/10	2,790	25,100	7,080	9/10	2,600	19,300	7,050	8/10	4,040	17,300	7,370	1/10	7,960	7,960	2,240
PCB023	0/10	--	--	877	0/10	--	--	427	0/10	--	--	321	0/10	--	--	748
PCB024	0/10	--	--	1,010	0/10	--	--	405	0/10	--	--	310	0/10	--	--	887
PCB025	1/10	577	577	752	5/10	752	3,660	1,340	4/10	420	2,660	885	0/10	--	--	671
PCB026+029	2/10	1,130	5,540	1,400	4/10	1,050	4,850	1,950	4/10	2,500	4,590	2,000	1/10	1,340	1,340	1,080
PCB027	0/10	--	--	902	1/10	1,540	1,540	485	4/10	691	1,810	675	1/10	680	680	843
PCB031	1/10	13,700	13,700	7,440	7/10	7,090	24,900	11,300	7/10	5,130	23,400	11,500	0/10	--	--	4,710
PCB032	8/10	593	6,570	3,670	9/10	1,620	16,700	5,590	9/10	2,350	9,060	4,470	6/10	1,240	10,800	2,690
PCB034	0/10	--	--	835	0/10	--	--	404	0/10	--	--	287	0/10	--	--	689
PCB035	0/10	--	--	826	0/10	--	--	407	0/10	--	--	288	0/10	--	--	712
PCB036	0/10	--	--	754	0/10	--	--	358	0/10	--	--	252	0/10	--	--	614
PCB037	6/10	1,660	13,900	5,880	8/10	5,920	26,500	10,800	8/10	4,850	23,000	11,300	8/10	1,600	13,500	3,830

Table B-2
Summary Statistics for Polychlorinated Biphenyl Congeners in Edible Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB038	0/10	--	--	816	0/10	--	--	396	0/10	--	--	287	0/10	--	--	699
PCB039	0/10	--	--	804	0/10	--	--	391	0/10	--	--	278	0/10	--	--	684
PCB040+041+071	9/10	746	28,300	8,330	9/10	3,780	17,900	9,920	8/10	5,220	23,100	10,700	3/10	4,030	26,700	5,470
PCB042	3/10	2,440	8,900	2,130	9/10	1,450	10,200	5,010	7/10	1,780	8,660	4,120	4/10	763	8,140	2,180
PCB043+073	0/10	--	--	855	0/10	--	--	376	0/10	--	--	413	0/10	--	--	795
PCB044+047+065	10/10	10,800	377,000	109,000	10/10	73,100	235,000	140,000	10/10	56,000	296,000	138,000	7/10	24,900	194,000	69,900
PCB045+051	4/10	1,110	6,770	1,990	3/10	1,800	2,690	1,160	5/10	2,180	4,530	1,990	2/10	1,630	2,950	1,460
PCB046	0/10	--	--	1,060	0/10	--	--	476	0/10	--	--	391	0/10	--	--	979
PCB048	0/10	--	--	913	1/10	1,160	1,160	684	2/10	992	1,730	732	1/10	1,590	1,590	1,060
PCB049+069	0/10	--	--	5,050	7/10	8,470	32,900	14,100	8/10	4,630	26,400	13,700	1/10	11,100	11,100	4,730
PCB050+053	0/10	--	--	944	4/10	1,580	4,510	2,000	7/10	1,750	6,780	3,230	1/10	1,200	1,200	963
PCB052	0/10	--	--	10,300	5/10	19,200	51,600	22,100	6/10	20,500	44,700	20,000	0/10	--	--	8,860
PCB054	0/10	--	--	467	0/10	--	--	230	0/10	--	--	155	0/10	--	--	439
PCB055	0/10	--	--	741	0/10	--	--	338	1/10	2,430	2,430	489	0/10	--	--	701
PCB056	2/10	4,340	11,700	2,380	8/10	1,140	9,560	3,550	7/10	1,290	10,600	4,190	0/10	--	--	1,300
PCB057	0/10	--	--	662	0/10	--	--	300	0/10	--	--	244	0/10	--	--	635
PCB058	0/10	--	--	689	0/10	--	--	314	0/10	--	--	252	0/10	--	--	672
PCB059+062+075	6/10	1,080	18,400	5,740	10/10	6,210	17,000	10,500	10/10	4,310	22,000	9,890	10/10	931	14,400	5,390
PCB060	8/10	2,420	51,900	17,500	10/10	16,100	63,500	33,700	10/10	11,400	59,900	31,900	9/10	3,060	41,100	10,600
PCB061+070+074+076	8/10	8,100	183,000	59,600	10/10	58,300	190,000	108,000	10/10	38,400	192,000	103,000	5/10	23,400	104,000	39,400
PCB063	4/10	1,190	10,300	2,050	8/10	971	6,930	2,890	9/10	1,850	7,780	3,110	3/10	1,040	2,820	1,060
PCB064	4/10	6,480	23,700	7,330	10/10	3,810	27,300	12,300	8/10	4,460	21,300	11,700	0/10	--	--	2,860
PCB066	10/10	11,500	260,000	91,100	10/10	82,000	277,000	157,000	10/10	57,900	291,000	146,000	10/10	10,800	208,000	66,200
PCB067	0/10	--	--	604	1/10	528	528	321	0/10	--	--	222	0/10	--	--	584
PCB068	3/10	1,850	7,230	2,220	6/10	1,550	4,760	2,110	10/10	1,320	6,020	2,780	5/10	1,020	6,180	1,920
PCB072	1/10	709	709	736	6/10	1,070	2,860	1,200	5/10	860	3,740	1,100	1/10	863	863	668
PCB077	5/10	2,640	17,300	5,030	9/10	5,070	17,000	9,310	10/10	3,660	15,600	8,780	3/10	2,040	9,820	2,240
PCB078	0/10	--	--	803	0/10	--	--	377	0/10	--	--	374	0/10	--	--	591
PCB079	0/10	--	--	707	0/10	--	--	373	1/10	940	940	405	0/10	--	--	526
PCB080	0/10	--	--	693	0/10	--	--	328	0/10	--	--	337	0/10	--	--	517
PCB081	0/10	--	--	938	0/10	--	--	444	0/10	--	--	433	0/10	--	--	667
PCB082	0/10	--	--	1,490	1/10	1,060	1,060	695	1/10	2,410	2,410	794	1/10	551	551	939
PCB083+099	10/10	15,600	560,000	161,000	10/10	125,000	528,000	270,000	10/10	80,300	461,000	220,000	10/10	38,600	368,000	149,000
PCB084	0/10	--	--	1,560	0/10	--	--	1,070	1/10	6,720	6,720	1,630	0/10	--	--	2,140

Table B-2
Summary Statistics for Polychlorinated Biphenyl Congeners in Edible Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB085+116	10/10	2,900	89,400	24,700	10/10	20,500	92,600	47,800	10/10	13,300	69,200	35,800	9/10	3,550	42,900	14,600
PCB086+087++097+109+119 +125	3/10	16,600	61,000	16,900	10/10	15,700	50,400	29,900	10/10	8,870	55,100	27,900	5/10	7,390	73,900	18,300
PCB088+091	4/10	2,390	13,600	3,260	10/10	2,210	11,000	6,060	8/10	2,240	12,000	5,950	6/10	888	12,000	3,660
PCB089	0/10	--	--	1,020	0/10	--	--	405	0/10	--	--	310	0/10	--	--	784
PCB090+101+113	1/10	20,900	20,900	16,400	8/10	20,700	96,000	40,400	8/10	12,000	70,600	35,300	1/10	29,400	29,400	14,400
PCB092	4/10	2,680	11,200	3,130	8/10	3,320	11,300	6,830	7/10	1,910	16,600	6,610	2/10	4,590	12,200	2,880
PCB093+100	5/10	641	19,200	3,740	10/10	4,290	18,500	9,980	9/10	3,100	18,700	8,610	7/10	1,230	10,300	3,770
PCB094	0/10	--	--	1,070	0/10	--	--	426	0/10	--	--	401	0/10	--	--	841
PCB095	0/10	--	--	6,520	1/10	20,300	20,300	6,330	2/10	19,400	27,900	8,520	0/10	--	--	6,360
PCB096	0/10	--	--	699	0/10	--	--	278	0/10	--	--	222	0/10	--	--	541
PCB098+102	0/10	--	--	953	2/10	1,090	1,420	632	2/10	960	1,360	584	0/10	--	--	750
PCB103	0/10	--	--	841	1/10	707	707	455	0/10	--	--	288	0/10	--	--	658
PCB104	0/10	--	--	633	0/10	--	--	250	0/10	--	--	186	0/10	--	--	483
PCB105	10/10	5,140	219,000	54,500	10/10	41,700	289,000	111,000	10/10	28,200	135,000	74,000	7/10	5,030	38,500	22,200
PCB106	0/10	--	--	839	0/10	--	--	610	0/10	--	--	396	0/10	--	--	634
PCB107	6/10	1,080	44,000	9,950	10/10	6,640	34,800	18,600	10/10	6,760	34,600	15,900	4/10	2,310	16,800	5,400
PCB108+124	0/10	--	--	879	2/10	1,640	1,800	931	4/10	1,180	2,460	1,060	0/10	--	--	707
PCB110+115	2/10	15,000	15,400	16,300	8/10	16,200	69,200	37,200	8/10	10,700	82,200	35,700	0/10	--	--	12,400
PCB111	0/10	--	--	1,030	0/10	--	--	481	0/10	--	--	372	0/10	--	--	621
PCB112	0/10	--	--	942	0/10	--	--	396	0/10	--	--	365	0/10	--	--	592
PCB114	4/10	1,970	4,690	2,530	8/10	2,670	14,800	6,350	7/10	2,010	11,100	4,400	2/10	3,240	8,360	1,660
PCB117	1/10	1,460	1,460	1,750	7/10	2,220	4,880	3,250	5/10	1,550	5,990	2,720	2/10	1,080	1,120	912
PCB118	10/10	17,100	771,000	186,000	10/10	140,000	808,000	339,000	10/10	92,200	466,000	245,000	10/10	24,900	333,000	116,000
PCB120	2/10	1,240	6,370	1,480	6/10	1,460	5,760	2,610	6/10	1,050	5,890	2,300	3/10	1,540	4,860	1,490
PCB121	0/10	--	--	1,000	0/10	--	--	415	0/10	--	--	378	0/10	--	--	622
PCB122	0/10	--	--	918	0/10	--	--	676	0/10	--	--	428	0/10	--	--	702
PCB123	2/10	1,640	2,610	1,800	3/10	4,150	4,330	3,690	6/10	1,640	4,940	3,140	0/10	--	--	881
PCB126	0/10	--	--	916	1/10	1,670	1,670	758	1/10	1,380	1,380	499	0/10	--	--	655
PCB127	0/10	--	--	887	0/10	--	--	659	0/10	--	--	406	0/10	--	--	682
PCB128+166	9/10	1,980	80,600	20,700	10/10	16,700	92,800	43,400	10/10	11,200	61,700	32,000	10/10	3,460	51,100	15,600
PCB129+138+163	10/10	12,900	617,000	158,000	10/10	118,000	461,000	280,000	10/10	74,600	446,000	218,000	10/10	28,400	321,000	107,000
PCB130	7/10	2,100	13,500	4,220	8/10	2,620	9,630	4,890	9/10	1,850	10,300	4,740	5/10	1,080	2,310	1,470
PCB131	0/10	--	--	897	0/10	--	--	515	0/10	--	--	333	0/10	--	--	682

Table B-2
Summary Statistics for Polychlorinated Biphenyl Congeners in Edible Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB132	5/10	1,330	6,210	2,470	0/10	--	--	1,150	1/10	6,280	6,280	2,010	0/10	--	--	2,350
PCB133	1/10	2,750	2,750	1,610	8/10	2,730	11,500	5,400	10/10	1,850	11,100	5,140	6/10	988	4,790	2,320
PCB134	0/10	--	--	965	0/10	--	--	563	1/10	758	758	465	0/10	--	--	716
PCB135+151	4/10	1,830	4,650	2,550	8/10	2,960	13,600	6,820	8/10	2,590	20,700	7,940	5/10	1,850	13,000	2,950
PCB136	0/10	--	--	559	4/10	345	1,360	563	4/10	485	2,290	722	2/10	563	3,060	820
PCB137	5/10	2,740	38,800	6,600	8/10	4,590	29,000	12,500	9/10	3,710	20,600	9,860	6/10	1,940	9,580	3,800
PCB139+140	4/10	1,250	12,200	2,420	9/10	2,410	11,400	5,790	9/10	1,510	9,610	4,590	5/10	1,470	6,460	2,040
PCB141	2/10	1,150	9,600	1,650	5/10	2,500	13,800	3,670	6/10	2,980	13,100	4,080	1/10	1,790	1,790	968
PCB142	0/10	--	--	913	0/10	--	--	505	0/10	--	--	334	0/10	--	--	694
PCB143	0/10	--	--	830	0/10	--	--	457	0/10	--	--	315	0/10	--	--	653
PCB144	0/10	--	--	1,160	3/10	918	1,880	706	2/10	520	2,310	652	0/10	--	--	931
PCB145	0/10	--	--	608	0/10	--	--	245	0/10	--	--	177	0/10	--	--	417
PCB146	10/10	2,580	113,000	29,600	10/10	21,500	103,000	50,400	10/10	16,000	94,400	42,100	9/10	6,880	43,300	20,900
PCB147+149	5/10	10,300	55,000	14,900	10/10	9,970	44,100	26,400	9/10	10,400	67,200	28,900	2/10	15,200	41,000	10,700
PCB148	0/10	--	--	769	6/10	529	2,890	1,080	4/10	560	2,660	877	1/10	2,180	2,180	700
PCB150	0/10	--	--	582	0/10	--	--	233	0/10	--	--	171	0/10	--	--	403
PCB152	0/10	--	--	551	0/10	--	--	220	0/10	--	--	160	0/10	--	--	374
PCB153+168	10/10	15,500	685,000	177,000	10/10	141,000	642,000	329,000	10/10	93,800	628,000	275,000	10/10	53,100	414,000	167,000
PCB154	7/10	563	21,500	5,390	10/10	4,750	22,100	11,200	9/10	3,300	21,200	10,200	7/10	5,950	25,800	9,710
PCB155	0/10	--	--	575	3/10	576	904	483	3/10	215	585	356	0/10	--	--	359
PCB156+157	9/10	1,500	103,000	20,100	10/10	11,800	121,000	38,200	10/10	8,630	51,700	25,000	5/10	2,810	22,800	8,820
PCB158	10/10	1,100	74,600	16,200	10/10	9,710	65,900	28,700	10/10	6,990	43,000	20,600	10/10	2,490	24,800	9,270
PCB159	0/10	--	--	758	0/10	--	--	345	0/10	--	--	278	0/10	--	--	674
PCB160	0/10	--	--	681	0/10	--	--	377	0/10	--	--	250	0/10	--	--	540
PCB161	0/10	--	--	650	0/10	--	--	356	0/10	--	--	235	0/10	--	--	483
PCB162	0/10	--	--	790	3/10	887	2,140	929	5/10	471	2,760	900	0/10	--	--	710
PCB164	1/10	1,220	1,220	827	5/10	954	5,010	1,690	4/10	1,130	7,170	1,820	3/10	563	2,940	868
PCB165	0/10	--	--	725	0/10	--	--	401	0/10	--	--	261	0/10	--	--	539
PCB167	6/10	734	7,290	6,090	10/10	6,680	35,600	15,400	10/10	4,280	23,800	11,300	7/10	1,640	14,900	4,780
PCB169	0/10	--	--	812	0/10	--	--	357	0/10	--	--	284	0/10	--	--	721
PCB170	7/10	1,180	57,500	13,800	10/10	9,170	53,100	26,000	9/10	5,550	38,000	18,100	8/10	1,960	45,400	10,500
PCB171+173	4/10	4,930	31,900	6,360	10/10	5,290	25,500	12,600	10/10	3,180	23,800	10,000	6/10	1,180	19,300	4,400
PCB172	1/10	1,750	1,750	2,080	8/10	2,240	13,300	5,610	7/10	1,540	11,900	4,170	5/10	1,260	2,980	2,190
PCB174	1/10	1,250	1,250	1,440	6/10	708	4,780	1,770	3/10	1,700	13,100	2,550	1/10	3,960	3,960	1,520

Table B-2
Summary Statistics for Polychlorinated Biphenyl Congeners in Edible Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB175	0/10	--	--	876	4/10	890	3,950	1,140	5/10	488	3,360	959	0/10	--	--	568
PCB176	0/10	--	--	629	0/10	--	--	288	2/10	492	1,460	334	0/10	--	--	418
PCB177	6/10	3,420	26,000	6,660	9/10	6,090	18,800	9,050	8/10	3,560	26,200	9,040	3/10	3,390	16,700	3,640
PCB178	6/10	1,320	26,900	5,990	10/10	6,960	27,700	13,700	9/10	4,870	31,500	12,500	9/10	1,570	22,000	7,110
PCB179	0/10	--	--	602	3/10	834	1,940	686	5/10	269	2,760	877	2/10	217	471	501
PCB180+193	10/10	3,250	177,000	45,900	10/10	25,900	167,000	80,200	10/10	16,900	136,000	58,300	10/10	8,440	122,000	38,400
PCB181	0/10	--	--	1,410	0/10	--	--	534	0/10	--	--	343	0/10	--	--	1,230
PCB182	0/10	--	--	838	1/10	862	862	474	1/10	1,020	1,020	301	0/10	--	--	561
PCB183	8/10	1,640	52,700	13,500	10/10	8,680	51,700	25,000	9/10	5,900	47,600	19,000	7/10	2,760	26,600	9,640
PCB184	0/10	--	--	626	2/10	598	889	392	1/10	656	656	217	0/10	--	--	427
PCB185	0/10	--	--	1,470	1/10	1,120	1,120	641	0/10	--	--	361	0/10	--	--	1,290
PCB186	0/10	--	--	669	0/10	--	--	303	0/10	--	--	174	0/10	--	--	455
PCB187	9/10	3,190	160,000	40,000	10/10	26,400	126,000	64,100	10/10	17,700	147,000	61,000	9/10	8,130	110,000	31,900
PCB188	0/10	--	--	674	3/10	303	1,510	561	4/10	244	1,420	476	0/10	--	--	431
PCB189	0/10	--	--	1,090	1/10	2,650	2,650	765	4/10	1,040	2,480	835	1/10	1,640	1,640	1,100
PCB190	3/10	2,510	8,550	2,720	8/10	2,550	11,700	5,810	8/10	1,570	9,440	3,970	4/10	1,250	4,700	1,950
PCB191	0/10	--	--	1,130	2/10	881	2,640	940	2/10	1,130	1,550	658	0/10	--	--	955
PCB192	0/10	--	--	1,270	0/10	--	--	441	0/10	--	--	295	0/10	--	--	1,040
PCB194	5/10	2,410	17,700	4,800	9/10	2,380	19,000	8,740	9/10	1,980	14,100	5,870	4/10	1,380	10,600	3,460
PCB195	2/10	1,470	2,620	1,660	8/10	1,280	7,540	3,170	10/10	645	6,220	2,830	1/10	1,350	1,350	1,120
PCB196	3/10	1,590	8,500	2,680	8/10	2,320	19,200	7,490	10/10	1,660	15,800	6,250	7/10	1,000	11,700	3,560
PCB197	0/10	--	--	794	4/10	852	2,400	966	1/10	1,400	1,400	620	1/10	1,180	1,180	763
PCB198+199	8/10	861	34,800	9,560	10/10	5,570	36,100	15,800	10/10	4,140	38,200	14,300	8/10	1,760	35,000	8,090
PCB200	0/10	--	--	800	0/10	--	--	323	0/10	--	--	226	0/10	--	--	638
PCB201	2/10	868	5,080	1,180	7/10	1,070	5,020	2,040	5/10	1,640	5,780	1,770	2/10	1,290	2,490	961
PCB202	8/10	464	17,300	4,250	9/10	3,930	15,200	7,130	10/10	2,570	17,300	6,840	5/10	1,190	4,770	2,860
PCB203	1/10	13,600	13,600	2,520	8/10	1,680	18,200	6,980	9/10	1,960	13,400	5,820	3/10	1,710	7,270	2,960
PCB204	0/10	--	--	757	0/10	--	--	319	0/10	--	--	204	0/10	--	--	640
PCB205	0/10	--	--	873	0/10	--	--	345	0/10	--	--	218	0/10	--	--	737

Table B-2
Summary Statistics for Polychlorinated Biphenyl Congeners in Edible Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB206	1/10	2,080	2,080	1,930	6/10	1,390	9,060	3,010	4/10	2,970	6,610	2,350	1/10	3,730	3,730	1,890
PCB207	0/10	--	--	1,060	5/10	1,170	7,270	2,330	7/10	1,190	7,060	2,270	4/10	1,300	2,370	1,400
PCB208	1/10	2,920	2,920	1,320	8/10	1,420	12,600	4,470	9/10	1,540	9,890	3,930	4/10	1,470	19,300	3,540
PCB209	9/10	2,040	354,000	48,000	10/10	15,000	142,000	45,300	10/10	12,500	103,000	40,100	7/10	9,640	82,900	19,100

Notes

FCA = fish collection area
lw = lipid weight
-- = not applicable, no detected values

a - Mean calculation includes detected and non-detected values. Non-detected values were set at one-half the detection limit.
b - PCB###+#### indicates a co-elution of two or more PCB congeners.

Table B-3
Summary Statistics for Dioxins and Furans in Whole Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
Blue Crab - Whole																
Dioxins/Furans (ng/kg - lw)																
2,3,7,8-TCDD	3/3	303	735	566	3/3	201	385	323	2/3	100	197	147	1/3	38.3	38.3	26.9
1,2,3,7,8-PeCDD	0/3	--	--	8.03	0/3	--	--	4.62	0/3	--	--	6.56	0/3	--	--	15.5
1,2,3,4,7,8-HxCDD	0/3	--	--	6.21	0/3	--	--	4.15	0/3	--	--	5.96	0/3	--	--	10.7
1,2,3,6,7,8-HxCDD	1/3	29.9	29.9	17.7	0/3	--	--	5.69	0/3	--	--	7.37	0/3	--	--	13.0
1,2,3,7,8,9-HxCDD	0/3	--	--	7.94	0/3	--	--	4.76	0/3	--	--	6.38	0/3	--	--	11.3
1,2,3,4,6,7,8-HpCDD	3/3	27.6	61.1	49.8	1/3	25.6	25.6	20.7	1/3	12.5	12.5	19.5	0/3	--	--	22.8
OCDD	2/3	244	774	441	3/3	272	766	564	2/3	599	634	437	3/3	440	919	606
2,3,7,8-TCDF	3/3	792	2,300	1,700	3/3	627	1,400	1130	3/3	377	986	677	2/3	75.2	77.6	59.0
1,2,3,7,8-PeCDF	1/3	34.4	34.4	18.6	0/3	--	--	8.67	0/3	--	--	7.82	0/3	--	--	13.4
2,3,4,7,8-PeCDF	3/3	23.9	45.4	37.6	1/3	31.9	31.9	17.6	0/3	--	--	7.56	0/3	--	--	12.8
1,2,3,4,7,8-HxCDF	0/3	--	--	5.93	0/3	--	--	5.00	0/3	--	--	6.26	0/3	--	--	7.42
1,2,3,6,7,8-HxCDF	0/3	--	--	4.93	0/3	--	--	4.96	0/3	--	--	4.34	0/3	--	--	7.09
1,2,3,7,8,9-HxCDF	0/3	--	--	5.20	0/3	--	--	6.73	0/3	--	--	5.48	0/3	--	--	8.56
2,3,4,6,7,8-HxCDF	0/3	--	--	4.69	0/3	--	--	5.45	0/3	--	--	4.68	0/3	--	--	7.90
1,2,3,4,6,7,8-HpCDF	1/3	16.1	16.1	9.83	0/3	--	--	4.50	2/3	9.21	20.5	10.7	0/3	--	--	7.71
1,2,3,4,7,8,9-HpCDF	0/3	--	--	6.89	0/3	--	--	5.74	0/3	--	--	6.92	0/3	--	--	11.1
OCDF	1/3	29.0	29.0	26.2	0/3	--	--	11.6	0/3	--	--	11.0	0/3	--	--	17.8
TEQ_{DF} [b]	3/3	400	992	762	3/3	273	540	450	3/3	143	284	228	3/3	44.2	70.5	59.7
TEQ_{DFP} [c]	3/3	573	1,090	913	3/3	354	717	588	3/3	169	495	380	3/3	75.4	159	111
TEQ_{P} [d]	3/3	82.0	198	151	3/3	80.6	177	137	3/3	25.7	237	152	3/3	31.2	88.6	51.0
Polychlorinated Biphenyls (µg/kg - lw)																
Total PCBs [e]	3/3	4,520	9,070	6,410	3/3	3,670	7,080	4,850	3/3	1,870	5,880	4,530	3/3	1,290	2,290	1,640

Notes

FCA = fish collection area
lw = lipid weight
-- = not applicable, no detected values

a - Mean calculation includes detected and non-detected values. Non-detected values were set at one-half the detection limit.
b - Toxicity equivalent for dioxins and furans calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
c - Toxicity equivalent for dioxins, furans and polychlorinated biphenyls calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
d - Toxicity equivalent for polychlorinated biphenyls calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
e - Total polychlorinated biphenyls calculated as the sum of all 209 congeners with non-detects set at one-half the detection limit.

Table B-4
Summary Statistics for Polychlorinated Biphenyl Congners in Whole Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
Blue Crab - Whole																
Polychlorinated Biphenyl Congeners [b] (ng/kg - lw)																
PCB001	0/3	--	--	239	1/3	433	433	269	0/3	--	--	205	0/3	--	--	276
PCB002	0/3	--	--	250	0/3	--	--	167	0/3	--	--	192	0/3	--	--	291
PCB003	0/3	--	--	289	0/3	--	--	192	0/3	--	--	220	0/3	--	--	334
PCB004	0/3	--	--	1,040	0/3	--	--	824	1/3	285	285	5,620	0/3	--	--	2,480
PCB005	0/3	--	--	831	0/3	--	--	356	0/3	--	--	1,940	0/3	--	--	992
PCB006	0/3	--	--	692	0/3	--	--	311	1/3	285	285	1,860	0/3	--	--	858
PCB007	0/3	--	--	715	0/3	--	--	322	0/3	--	--	1,930	0/3	--	--	905
PCB008	2/3	2,350	2,690	2,390	3/3	1,170	4,650	2,800	1/3	1,650	1,650	2,600	0/3	--	--	1,910
PCB009	0/3	--	--	705	0/3	--	--	311	0/3	--	--	1,800	0/3	--	--	878
PCB010	0/3	--	--	798	0/3	--	--	575	0/3	--	--	4,120	0/3	--	--	1,820
PCB011	0/3	--	--	13,300	0/3	--	--	7,490	0/3	--	--	12,600	0/3	--	--	19,800
PCB012+013	0/3	--	--	717	0/3	--	--	307	0/3	--	--	1,790	0/3	--	--	873
PCB014	0/3	--	--	682	0/3	--	--	293	0/3	--	--	1,730	0/3	--	--	837
PCB015	3/3	25,900	48,800	36,000	3/3	24,700	39,600	31,600	3/3	11,500	33,700	22,300	1/3	4,480	4,480	2,460
PCB016	0/3	--	--	562	3/3	340	1,090	634	0/3	--	--	392	1/3	778	778	794
PCB017	1/3	2,130	2,130	1,470	3/3	596	3,820	2,010	1/3	1,010	1,010	931	1/3	647	647	943
PCB018+030	2/3	5,330	9,450	5,430	3/3	1,140	8,590	4,230	1/3	2,290	2,290	1,640	0/3	--	--	1,460
PCB019	1/3	388	388	346	0/3	--	--	188	2/3	105	227	242	1/3	452	452	361
PCB020+028	3/3	108,000	301,000	181,000	3/3	119,000	166,000	135,000	3/3	47,700	204,000	139,000	3/3	40,500	62,400	49,900
PCB021+033	1/3	4,500	4,500	2,340	3/3	728	3,500	2,010	0/3	--	--	672	0/3	--	--	1,320
PCB022	3/3	4,690	11,900	7,100	3/3	3,110	11,600	6,730	3/3	3,070	4,430	3,640	1/3	1,020	1,020	1,430
PCB023	0/3	--	--	425	0/3	--	--	168	0/3	--	--	232	0/3	--	--	253
PCB024	0/3	--	--	246	0/3	--	--	159	0/3	--	--	166	0/3	--	--	262
PCB025	3/3	696	2,130	1,550	3/3	360	2,400	1,170	3/3	228	754	578	2/3	732	1,060	671
PCB026+029	3/3	1,720	6,960	4,460	3/3	776	6,560	3,200	1/3	1,830	1,830	907	2/3	408	1,200	832
PCB027	2/3	872	1,210	797	2/3	183	536	532	2/3	205	446	316	1/3	426	426	301
PCB031	3/3	7,560	24,300	18,000	3/3	4,390	26,300	14,000	3/3	3,910	7,360	5,290	1/3	5,760	5,760	3,720
PCB032	3/3	3,330	7,510	5,280	3/3	2,360	8,830	4,750	3/3	2,280	3,050	2,730	3/3	520	2,030	1,450
PCB034	0/3	--	--	400	0/3	--	--	182	0/3	--	--	205	0/3	--	--	236
PCB035	0/3	--	--	399	0/3	--	--	161	0/3	--	--	207	0/3	--	--	239
PCB036	0/3	--	--	368	0/3	--	--	144	0/3	--	--	177	0/3	--	--	211
PCB037	3/3	15,600	47,500	27,600	3/3	14,000	20,600	18,100	3/3	6,130	31,700	19,700	3/3	1,250	3,090	2,380

Table B-4
Summary Statistics for Polychlorinated Biphenyl Congners in Whole Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB038	0/3	--	--	394	0/3	--	--	158	0/3	--	--	203	0/3	--	--	238
PCB039	0/3	--	--	389	1/3	341	341	278	0/3	--	--	198	0/3	--	--	232
PCB040+041+071	3/3	14,700	23,900	20,000	3/3	7,200	30,100	16,500	3/3	5,080	13,900	9,090	3/3	2,220	6,870	5,020
PCB042	3/3	3,960	10,500	7,470	3/3	1,700	14,300	7,330	2/3	1,910	3,910	2,540	2/3	2,510	3,240	2,030
PCB043+073	1/3	2,210	2,210	969	2/3	340	1,250	627	1/3	423	423	370	0/3	--	--	236
PCB044+047+065	3/3	149,000	348,000	234,000	3/3	149,000	240,000	182,000	3/3	62,000	250,000	177,000	3/3	44,800	106,000	70,900
PCB045+051	2/3	1,180	2,450	1,380	2/3	540	2,600	1,240	3/3	516	2,390	1,250	0/3	--	--	398
PCB046	0/3	--	--	376	0/3	--	--	185	0/3	--	--	170	0/3	--	--	288
PCB048	3/3	813	2,970	1,920	3/3	426	2,430	1,320	2/3	284	767	610	2/3	839	1,160	765
PCB049+069	3/3	9,470	29,400	17,900	3/3	3,410	47,600	22,900	3/3	2,870	13,500	8,610	2/3	9,190	9,780	6,650
PCB050+053	3/3	1,320	9,230	4,160	2/3	1,980	8,710	3,640	3/3	465	1,900	1,130	0/3	--	--	402
PCB052	3/3	15,200	87,200	43,000	3/3	5,770	73,700	36,100	2/3	12,300	21,400	12,200	1/3	14,900	14,900	8,650
PCB054	0/3	--	--	126	0/3	--	--	89.2	0/3	--	--	82.1	0/3	--	--	130
PCB055	0/3	--	--	270	0/3	--	--	131	0/3	--	--	117	0/3	--	--	205
PCB056	3/3	4,780	9,180	7,650	3/3	2,240	13,400	7,700	3/3	1,530	3,790	2,640	1/3	2,210	2,210	1,360
PCB057	0/3	--	--	241	0/3	--	--	115	0/3	--	--	105	0/3	--	--	188
PCB058	1/3	903	903	489	0/3	--	--	134	0/3	--	--	108	0/3	--	--	195
PCB059+062+075	3/3	11,400	27,800	18,500	3/3	12,000	18,700	14,600	3/3	4,800	19,100	14,000	3/3	3,710	7,610	5,110
PCB060	3/3	29,300	86,300	49,300	3/3	31,400	42,900	37,100	3/3	11,300	88,500	48,400	3/3	5,260	10,400	8,300
PCB086+087++097+109+119 +125	3/3	128,000	311,000	207,000	3/3	121,000	220,000	156,000	3/3	57,500	222,000	154,000	3/3	32,300	70,600	48,000
PCB063	3/3	3,860	10,000	6,780	3/3	3850	6,910	4,950	3/3	1,710	4,240	2,990	3/3	643	1,830	1,240
PCB064	3/3	11,400	33,200	21,600	3/3	4,650	36,700	19,000	3/3	3,320	9,840	6,500	2/3	4,980	6,090	3,920
PCB066	3/3	200,000	504,000	314,000	3/3	189,000	285,000	226,000	3/3	75,400	372,000	247,000	3/3	51,300	86,800	67,200
PCB067	1/3	1,810	1,810	767	0/3	--	--	312	1/3	285	285	182	0/3	--	--	171
PCB068	3/3	2,930	7,910	5,120	3/3	1,760	3,490	2,640	3/3	1,370	4,410	3,020	3/3	866	2,410	1,440
PCB072	3/3	2,090	4,770	3,790	3/3	1,520	4,410	2,770	3/3	716	1,650	1,170	2/3	292	606	426
PCB077	3/3	13,300	34,100	21,700	3/3	12,800	19,500	16,100	3/3	4,910	28,100	17,000	3/3	1,590	2,800	2,120
PCB078	0/3	--	--	343	0/3	--	--	208	0/3	--	--	269	0/3	--	--	232
PCB079	1/3	1,580	1,580	1,090	2/3	826	883	814	1/3	1,010	1,010	543	0/3	--	--	207
PCB080	1/3	790	790	421	1/3	256	256	232	0/3	--	--	241	0/3	--	--	205
PCB081	2/3	745	1,670	928	3/3	467	963	683	1/3	242	242	468	0/3	--	--	263
PCB082	0/3	--	--	520	2/3	313	2,350	1,000	1/3	622	622	375	1/3	775	775	451
PCB083+099	3/3	455,000	884,000	680,000	3/3	332,000	615,000	427,000	3/3	154,000	596,000	435,000	3/3	132,000	294,000	190,000

Table B-4
Summary Statistics for Polychlorinated Biphenyl Congners in Whole Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB084	2/3	2,340	2,930	2,140	2/3	1,190	4,280	1,990	1/3	1,170	1,170	991	0/3	--	--	961
PCB085+116	3/3	64,700	138,000	89,000	3/3	51,300	98,700	69,900	3/3	23,100	93,300	68,700	3/3	11,900	25,100	17,100
PCB086+087+4ma	3/3	60,400	89,700	71,000	3/3	32,000	75,500	48,100	3/3	20,800	58,500	41,000	3/3	14,600	26,800	19,300
PCB088+091	3/3	6,900	20,900	14,200	3/3	4,860	22,000	11,700	3/3	2,180	6,090	4,370	3/3	1,540	4,500	3,330
PCB089	0/3	--	--	298	1/3	381	381	232	1/3	102	102	154	0/3	--	--	263
PCB090+101+113	3/3	43,600	151,000	91,700	3/3	29,000	157,000	82,100	3/3	17,700	42,000	32,900	2/3	23,100	26,300	18,300
PCB092	3/3	8,110	31,200	17,500	3/3	4,540	29,600	14,900	3/3	2,670	8,450	5,090	2/3	1,440	3,770	2,430
PCB093+100	3/3	13,800	33,300	21,600	3/3	12,200	21,800	16,200	3/3	6,370	25,000	16,800	3/3	3,730	9,010	5,760
PCB094	3/3	892	1,380	1,150	3/3	630	1,850	1,090	3/3	482	1,160	721	0/3	--	--	281
PCB095	3/3	10,000	30,500	18,200	3/3	5,960	29,600	14,400	3/3	4,830	8,260	6,770	1/3	6,910	6,910	4620
PCB096	0/3	--	--	203	0/3	--	--	117	0/3	--	--	95.4	0/3	--	--	184
PCB098+102	3/3	1,610	4,100	2790	2/3	921	4,060	1,870	0/3	--	--	387	1/3	565	565	376
PCB103	2/3	1,050	2,490	1,270	2/3	852	2,620	1,190	1/3	586	586	295	0/3	--	--	232
PCB104	0/3	--	--	181	0/3	--	--	107	0/3	--	--	83.3	0/3	--	--	161
PCB105	3/3	125,000	251,000	170,000	3/3	103,000	178,000	134,000	3/3	46,800	194,000	133,000	3/3	19,900	32,600	26,100
PCB106	0/3	--	--	332	0/3	--	--	196	0/3	--	--	223	0/3	--	--	411
PCB107	3/3	24,100	64,500	40,600	3/3	24,400	48,400	32,800	3/3	11,000	35,600	26,300	3/3	6,580	10,900	8,130
PCB108+124	2/3	2,240	3,730	2,190	3/3	1,240	5,020	2,710	2/3	725	1,360	860	0/3	--	--	505
PCB110+115	3/3	40,900	98,500	68,200	3/3	23,100	139,000	70,400	3/3	22,300	38,300	30,600	2/3	18,300	19,300	14,200
PCB111	1/3	2,150	2,150	985	2/3	791	1,220	748	2/3	278	993	500	1/3	597	597	353
PCB112	0/3	--	--	323	0/3	--	--	194	0/3	--	--	139	0/3	--	--	198
PCB114	3/3	8,320	16,500	11,100	3/3	6,430	11,600	8,420	3/3	3,230	13,600	8,360	3/3	1,560	2,630	2,050
PCB117	3/3	5,550	13,900	10,100	3/3	4,950	7,150	6,130	2/3	413	3,240	1,310	2/3	1,170	1,650	1,130
PCB118	3/3	422,000	831,000	572,000	3/3	343,000	620,000	444,000	3/3	162,000	603,000	446,000	3/3	96,800	157,000	119,000
PCB120	3/3	4,440	10,400	6750	2/3	3,640	7,000	4,140	3/3	1,780	7,830	5,050	3/3	1,810	4,500	2,750
PCB121	0/3	--	--	369	0/3	--	--	251	0/3	--	--	271	0/3	--	--	208
PCB122	0/3	--	--	364	0/3	--	--	208	0/3	--	--	244	0/3	--	--	446
PCB123	3/3	8,000	14,700	10,600	3/3	5,770	11,300	7,930	2/3	2,900	12,500	6,710	3/3	1,620	2,140	1,840
PCB126	1/3	1,680	1,680	1,140	2/3	1,300	1,390	1,090	2/3	1,570	2,010	1,250	0/3	--	--	386
PCB127	0/3	--	--	356	1/3	468	468	301	1/3	825	825	463	0/3	--	--	431
PCB128+166	3/3	61,400	123,000	86,400	3/3	46,400	102,000	68,200	3/3	24,300	88,800	64,200	3/3	12,600	22,500	16,800
PCB129+138+163	3/3	503,000	977,000	691,000	3/3	378,000	808,000	550,000	3/3	200,000	676,000	503,000	3/3	110,000	193,000	140,000
PCB130	3/3	9,720	21,200	15,500	3/3	8,910	22,100	14,000	3/3	5,350	11,900	7,790	2/3	2,090	3,680	2,390
PCB131	0/3	--	--	364	1/3	496	496	335	0/3	--	--	176	0/3	--	--	208

Table B-4
Summary Statistics for Polychlorinated Biphenyl Congners in Whole Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB132	2/3	921	6,780	2,660	1/3	7,850	7,850	3,210	1/3	2,170	2,170	1,120	1/3	3,040	3,040	1,830
PCB133	3/3	9,960	19,600	13,500	3/3	8,260	15,400	11,100	3/3	3,990	15,600	11,200	3/3	3,110	6,250	4,260
PCB134	1/3	1,680	1,680	799	0/3	--	--	245	1/3	155	155	205	0/3	--	--	214
PCB135+151	3/3	10,300	31,300	18,200	3/3	5,400	33,000	16,500	2/3	3,200	9,520	5,060	3/3	2,180	7,140	5,140
PCB136	2/3	719	1,260	761	3/3	421	1,820	929	3/3	281	608	491	3/3	409	1,160	837
PCB137	3/3	18,500	35,100	25,200	3/3	12,800	27,500	19,800	3/3	7,510	28,700	20,300	3/3	4,530	6,320	5,170
PCB139+140	3/3	8,960	16,000	11,700	3/3	6,240	12,700	9,180	3/3	3,280	12,500	9,420	3/3	2,390	4,130	2,970
PCB141	2/3	5,010	15,900	7,830	3/3	2,990	17,800	8,720	3/3	2,410	4,950	3,360	2/3	2,410	2,700	1760
PCB142	0/3	--	--	336	0/3	--	--	204	0/3	--	--	175	0/3	--	--	210
PCB143	0/3	--	--	302	0/3	--	--	183	0/3	--	--	168	0/3	--	--	201
PCB144	2/3	1,480	2,970	1,880	3/3	1,100	2,530	1,620	2/3	1,050	1,840	1,030	2/3	374	743	501
PCB145	0/3	--	--	141	0/3	--	--	110	0/3	--	--	82.4	0/3	--	--	139
PCB146	3/3	94,200	202,000	139,000	3/3	79,900	153,000	106,000	3/3	37,600	135,000	95,200	3/3	26,600	59,100	38,700
PCB147+149	3/3	46,600	115,000	77,600	3/3	35,000	117,000	65,700	3/3	17,300	32,400	26,900	3/3	8,910	19,900	16,000
PCB148	3/3	1,870	4,320	2,840	3/3	1,240	2,870	1,920	2/3	2,830	3,430	2,190	2/3	1,100	1,560	1,040
PCB150	0/3	--	--	162	1/3	394	394	203	1/3	107	107	107	0/3	--	--	135
PCB152	0/3	--	--	126	0/3	--	--	98.7	0/3	--	--	74.3	0/3	--	--	125
PCB153+168	3/3	646,000	1,140,000	829,000	3/3	494,000	949,000	650,000	3/3	241,000	933,000	676,000	3/3	188,000	380,000	256,000
PCB154	3/3	23,500	49,900	33,100	3/3	20,500	29,900	24,000	3/3	9,770	44,800	27,400	3/3	9,850	24,500	15,500
PCB155	3/3	1,160	3,280	2,020	3/3	907	1,850	1,270	3/3	441	1,650	1,160	3/3	420	776	555
PCB156+157	3/3	46,300	91,100	63,700	3/3	33,700	65,800	47,300	3/3	17,700	71,000	48,400	3/3	11,100	17,700	13,400
PCB158	3/3	40,100	76,600	54,200	3/3	26,600	56,700	40,700	3/3	15,300	61,000	42,800	3/3	8670	13,400	10,400
PCB159	0/3	--	--	303	1/3	595	595	324	0/3	--	--	181	0/3	--	--	228
PCB160	0/3	--	--	255	0/3	--	--	150	0/3	--	--	131	0/3	--	--	165
PCB161	0/3	--	--	238	0/3	--	--	143	0/3	--	--	123	0/3	--	--	148
PCB162	3/3	1,930	4,770	3,120	3/3	1,720	3,410	2,430	3/3	886	3,200	2,370	3/3	896	1,570	1,130
PCB164	1/3	7,180	7,180	3,600	3/3	2,220	11,200	5,550	1/3	2,870	2,870	1,570	2/3	797	1,560	928
PCB165	0/3	--	--	266	1/3	392	392	263	1/3	553	553	277	0/3	--	--	163
PCB167	3/3	24,900	44,900	31,900	3/3	19,100	36,200	25,100	3/3	9,560	33,600	24,700	3/3	4,960	8,460	6,450
PCB169	0/3	--	--	287	0/3	--	--	214	0/3	--	--	176	0/3	--	--	232
PCB170	3/3	37,000	135,000	78,700	3/3	33,700	75,100	50,500	3/3	19,100	70,300	50,800	3/3	12,600	18,800	16,500
PCB171+173	3/3	19,700	52,200	33,100	3/3	17,400	33,700	23,300	3/3	9,140	31,900	23,300	3/3	4,720	7,810	6,490
PCB172	3/3	8,790	31,600	18,800	3/3	9,160	17,700	12,900	3/3	5,190	17,400	12,400	3/3	4,150	6,470	5,050
PCB174	3/3	1,480	10,000	5,140	3/3	1,430	11,300	5,380	2/3	2,220	3,380	2,050	2/3	1,040	3,070	1,800

Table B-4
Summary Statistics for Polychlorinated Biphenyl Congners in Whole Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB175	3/3	2,300	6,130	4,020	3/3	1,850	3,860	2,790	3/3	1,150	4,210	2,790	2/3	731	1,060	805
PCB176	1/3	1,300	1,300	553	1/3	305	305	359	2/3	210	374	242	1/3	379	379	219
PCB177	3/3	21,600	42,500	31,300	3/3	19,200	44,500	27,800	3/3	11,800	21,100	15,900	3/3	5,380	6,220	5,790
PCB178	3/3	25,200	49,800	34,200	3/3	17,500	39,700	27,200	3/3	10,200	33,600	25,700	3/3	7,220	11,900	9,190
PCB179	1/3	4,160	4,160	1,640	3/3	319	4,260	2,090	3/3	254	1,390	685	3/3	250	1,300	921
PCB180+193	3/3	135,000	423,000	254,000	3/3	128,000	234,000	170,000	3/3	69,700	241,000	178,000	3/3	47,200	76,400	60,200
PCB181	2/3	898	1,680	993	0/3	--	--	368	2/3	902	1,150	733	0/3	--	--	289
PCB182	1/3	2,010	2,010	817	1/3	774	774	623	2/3	528	1,290	799	0/3	--	--	185
PCB183	3/3	44,200	107,000	73,200	3/3	42,100	72,300	54,000	3/3	23,900	73,800	52,600	3/3	14,000	23,200	18,100
PCB184	2/3	808	1,150	744	3/3	371	700	504	3/3	198	634	482	2/3	254	376	259
PCB185	0/3	--	--	564	1/3	3,440	3,440	1,270	0/3	--	--	202	1/3	396	396	367
PCB186	0/3	--	--	158	0/3	--	--	112	0/3	--	--	79.0	0/3	--	--	136
PCB187	3/3	155,000	335,000	231,000	3/3	126,000	258,000	175,000	3/3	66,400	202,000	151,000	3/3	46,800	80,700	58,300
PCB188	3/3	860	2,300	1,430	3/3	772	1,400	1,010	3/3	348	1,400	931	1/3	872	872	453
PCB189	3/3	1,960	5,640	3,480	3/3	1,630	3,290	2,280	3/3	999	3,780	2,820	2/3	936	1,230	983
PCB190	3/3	6,200	26,600	15,200	3/3	6,160	13,500	8,950	3/3	3,620	13,600	9,840	3/3	2,780	4,160	3,300
PCB191	2/3	2,290	6,810	3,600	3/3	1,800	4,350	2,820	3/3	1,190	4,270	3,080	3/3	705	1,330	1,050
PCB192	0/3	--	--	487	0/3	--	--	187	0/3	--	--	167	0/3	--	--	245
PCB194	3/3	12,700	50,600	29,000	3/3	11,400	25,100	16,400	3/3	7,190	28,000	20,300	3/3	8,710	12,500	10,200
PCB195	3/3	3,050	14,000	8,650	3/3	3,190	8,800	5,270	3/3	2,440	9,000	6,780	3/3	2,170	3,200	2,800
PCB196	3/3	9,750	30,700	20,000	3/3	9,520	20,100	13,600	3/3	6,110	24,900	16,200	3/3	4,510	8,340	6,260
PCB197	2/3	3,890	5,280	3,350	3/3	1,490	3,730	2,400	3/3	1,060	3,670	2,730	2/3	1,160	1,250	963
PCB198+199	3/3	20,300	73,800	44,700	3/3	21,600	43,200	30,700	3/3	12,100	48,700	32,700	3/3	11,900	17,400	14,300
PCB200	1/3	510	510	305	0/3	--	--	177	0/3	--	--	103	0/3	--	--	181
PCB201	3/3	3,540	9,160	6,020	3/3	3,320	5,690	4,380	3/3	1,780	5,550	4,060	2/3	1,880	2,100	1,550
PCB202	3/3	10,700	24,600	16,200	3/3	9,420	17,700	12,400	3/3	4,520	14,500	10,800	3/3	1,960	4,620	3,410
PCB203	3/3	7,150	29,000	19,000	3/3	7960	20,600	12,600	3/3	5,420	23,500	15,800	3/3	6,600	11,300	8,950
PCB204	1/3	318	318	257	1/3	379	379	196	0/3	--	--	114	0/3	--	--	182
PCB205	2/3	410	1,010	528	2/3	283	621	351	3/3	192	707	503	1/3	591	591	332

Table B-4
Summary Statistics for Polychlorinated Biphenyl Congners in Whole Blue Crab Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB206	3/3	3,320	13,400	8,620	3/3	4,470	9,090	6,210	3/3	2,870	10,800	7,890	3/3	3,570	5,910	4,870
PCB207	3/3	2,450	8,470	5,690	3/3	2,450	5,810	3,650	3/3	1,440	7,110	4,900	3/3	1,950	3,740	2,780
PCB208	3/3	3,930	13,000	8,570	3/3	4,180	8,660	5,930	3/3	2,740	9,410	6,930	3/3	3,510	5,530	4,770
PCB209	3/3	42,200	151,000	93,900	3/3	48,300	95,700	72,100	3/3	30,100	95,800	71,900	3/3	16,300	30,900	25,000

Notes

FCA = fish collection area
lw = lipid weight
-- = not applicable, no detected values

a - Mean calculation includes detected and non-detected values. Non-detected values were set at one-half the detection limit.
b - PCB###+#### indicates a co-elution of two or more PCB congeners.

Table B-5
Summary Statistics for Dioxins and Furans in Fillet Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
Catfish - Fillet																
Dioxins/Furans (ng/kg - lw)																
2,3,7,8-TCDD	10/10	184	304	255	10/10	176	477	310	10/10	149	413	246	2/10	16.2	20.7	13.6
1,2,3,7,8-PeCDD	2/10	6.32	13.7	5.57	4/10	6.74	13.1	7.49	4/10	7.79	28.1	9.58	1/10	10.4	10.4	3.59
1,2,3,4,7,8-HxCDD	2/10	1.67	5.06	2.76	3/10	3.84	10	3.48	3/10	5.13	15.9	5.23	4/10	2.92	8.64	3.34
1,2,3,6,7,8-HxCDD	6/10	9.4	29.7	15.1	6/10	20.6	40.5	21	5/10	14.6	142	35.9	4/10	10.7	15.2	8.33
1,2,3,7,8,9-HxCDD	4/10	3.45	14.6	5.25	0/10	--	--	3.55	4/10	2.02	50.8	11.2	2/10	5	9.41	2.94
1,2,3,4,6,7,8-HpCDD	1/10	32.8	32.8	19.8	0/10	--	--	19.7	2/10	146	286	62.1	0/10	--	--	16
OCDD	0/10	--	--	46.8	0/10	--	--	47.7	0/10	--	--	78.4	0/10	--	--	42.3
2,3,7,8-TCDF	6/10	17.2	39.9	23	9/10	50.3	102	65	8/10	33	57.2	40.4	0/10	--	--	3.05
1,2,3,7,8-PeCDF	0/10	--	--	3.43	1/10	5.2	5.2	2.56	0/10	--	--	2.56	0/10	--	--	2.23
2,3,4,7,8-PeCDF	3/10	9.15	16.8	8.04	5/10	10.2	19.6	12	3/10	13.6	33.8	12.4	0/10	--	--	2.12
1,2,3,4,7,8-HxCDF	0/10	--	--	2.06	1/10	2.9	2.9	1.95	1/10	4.75	4.75	2	0/10	--	--	1.43
1,2,3,6,7,8-HxCDF	0/10	--	--	1.97	0/10	--	--	1.64	0/10	--	--	1.55	1/10	6.18	6.18	1.73
1,2,3,7,8,9-HxCDF	0/10	--	--	2.65	0/10	--	--	2.05	0/10	--	--	1.86	0/10	--	--	1.66
2,3,4,6,7,8-HxCDF	0/10	--	--	2.2	0/10	--	--	1.91	0/10	--	--	1.7	0/10	--	--	1.43
1,2,3,4,6,7,8-HpCDF	0/10	--	--	2.62	0/10	--	--	1.7	0/10	--	--	1.76	0/10	--	--	1.66
1,2,3,4,7,8,9-HpCDF	0/10	--	--	3.97	0/10	--	--	2.37	0/10	--	--	2.34	0/10	--	--	2.09
OCDF	0/10	--	--	8.48	0/10	--	--	3.4	0/10	--	--	4.69	0/10	--	--	3.59
TEQ_{DF} [b]	10/10	191	324	269	10/10	193	499	332	10/10	165	434	270	9/10	12.5	31.4	20.5
TEQ_{DFP} [c]	10/10	243	567	416	10/10	272	724	442	10/10	198	834	390	10/10	38.7	131	64.9
TEQ_{P} [d]	10/10	39.5	264	147	10/10	65.5	225	110	10/10	32.3	403	120	10/10	19.3	99.8	44.4
Polychlorinated Biphenyls (µg/kg - lw)																
Total PCBs [e]	10/10	2,360	22,600	11,400	10/10	4,200	14,500	9,020	10/10	3,800	27,300	9,540	10/10	1,770	11,100	4,460

Notes

FCA = fish collection area
lw = lipid weight
-- = not applicable, no detected values

a - Mean calculation includes detected and non-detected values. Non-detected values were set at one-half the detection limit.
b - Toxicity equivalent for dioxins and furans calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
c - Toxicity equivalent for dioxins, furans and polychlorinated biphenyls calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
d - Toxicity equivalent for polychlorinated biphenyls calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
e - Total polychlorinated biphenyls calculated as the sum of all 209 congeners with non-detects set at one-half the detection limit.

Table B-6
Summary Statistics for Polychlorinated Biphenyl Congeners in Fillet Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
Catfish - Fillet																
Polychlorinated Biphenyl Congeners [b] (ng/kg - lw)																
PCB001	4/10	106	621	255	5/10	334	2,010	445	2/10	325	367	183	0/10	--	--	93.9
PCB002	0/10	--	--	150	0/10	--	--	89.6	0/10	--	--	87.4	0/10	--	--	91.5
PCB003	0/10	--	--	164	1/10	188	188	116	0/10	--	--	107	0/10	--	--	107
PCB004	1/10	1,530	1,530	1,660	4/10	1,200	6,470	1,850	3/10	1,390	1,780	1,650	0/10	--	--	611
PCB005	0/10	--	--	1,160	0/10	--	--	523	0/10	--	--	661	0/10	--	--	386
PCB006	0/10	--	--	1,050	2/10	320	478	528	0/10	--	--	550	1/10	424	424	368
PCB007	0/10	--	--	1,080	0/10	--	--	493	0/10	--	--	587	0/10	--	--	353
PCB008	1/10	639	639	1,030	0/10	--	--	512	0/10	--	--	656	1/10	485	485	352
PCB009	0/10	--	--	1,000	0/10	--	--	470	0/10	--	--	583	0/10	--	--	335
PCB010	0/10	--	--	1,050	0/10	--	--	576	0/10	--	--	898	0/10	--	--	427
PCB011	0/10	--	--	4,830	0/10	--	--	4,330	0/10	--	--	4,390	0/10	--	--	3,310
PCB012+013	0/10	--	--	1,050	0/10	--	--	475	0/10	--	--	587	0/10	--	--	336
PCB014	0/10	--	--	1,010	0/10	--	--	454	0/10	--	--	569	0/10	--	--	322
PCB015	0/10	--	--	1,100	1/10	619	619	604	0/10	--	--	647	0/10	--	--	371
PCB016	9/10	1,200	11,900	4,660	10/10	2,140	6,850	3,820	9/10	1,300	7,530	3,420	7/10	613	1,710	904
PCB017	3/10	740	2,950	832	8/10	564	1,860	908	8/10	615	2,520	1,080	7/10	334	807	409
PCB018+030	9/10	1,410	13,600	5,680	10/10	2,990	10,000	5,320	9/10	3,210	13,000	5,930	10/10	775	2,300	1,480
PCB019	9/10	1,250	9,780	4,540	10/10	2,660	8,110	4,770	10/10	2,170	7,900	4,480	7/10	482	1,290	625
PCB020+028	10/10	17,900	188,000	75,700	10/10	23,000	115,000	59,100	10/10	29,100	119,000	60,200	10/10	16,000	40,200	26,200
PCB021+033	8/10	243	5,770	1,590	0/10	--	--	369	4/10	507	1,730	637	6/10	402	864	421
PCB022	1/10	535	535	501	1/10	680	680	445	3/10	500	1,600	672	1/10	204	204	156
PCB023	0/10	--	--	136	0/10	--	--	71.7	0/10	--	--	76.7	0/10	--	--	76.6
PCB024	5/10	214	1,720	544	9/10	328	1,110	576	6/10	280	1,250	438	3/10	137	357	123
PCB025	5/10	647	1,640	769	5/10	441	1,770	749	8/10	580	1,770	1,010	8/10	691	1,440	856
PCB026+029	10/10	1,060	14,100	5,110	10/10	2,000	8,390	4,810	10/10	2,520	6,540	4,620	9/10	2,060	4,540	2,770
PCB027	5/10	314	960	458	7/10	257	971	473	7/10	219	1,670	583	2/10	118	179	88.1
PCB031	7/10	1,850	10,300	3,710	10/10	1,640	8,860	4,710	9/10	3,130	5,910	4,360	10/10	2,260	6,030	3,910
PCB032	1/10	465	465	435	10/10	322	1,180	648	8/10	394	2,020	654	7/10	172	362	225
PCB034	2/10	89.9	416	263	5/10	281	594	261	3/10	313	694	235	0/10	--	--	99
PCB035	0/10	--	--	124	0/10	--	--	67.9	0/10	--	--	69.5	0/10	--	--	70.6
PCB036	0/10	--	--	111	0/10	--	--	59.1	0/10	--	--	63.2	0/10	--	--	63.7
PCB037	0/10	--	--	296	4/10	523	826	354	4/10	339	607	360	3/10	186	291	146

Table B-6
Summary Statistics for Polychlorinated Biphenyl Congeners in Fillet Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB038	0/10	--	--	123	0/10	--	--	66.5	1/10	130	130	78.1	0/10	--	--	70.5
PCB039	0/10	--	--	120	0/10	--	--	64.6	0/10	--	--	68.6	0/10	--	--	69.2
PCB040+041+071	8/10	1,400	11,800	4,760	10/10	2,970	9,040	4,730	10/10	1,760	10,900	5,070	7/10	1,090	2,280	1,270
PCB042	9/10	3,480	32,000	13,600	10/10	6,950	24,400	12,100	10/10	3,940	26,400	11,700	10/10	1,500	5,350	3,140
PCB043+073	2/10	1,080	1,090	321	6/10	730	1,670	925	1/10	1,430	1,430	235	4/10	274	1,010	279
PCB044+047+065	10/10	75,600	839,000	371,000	10/10	128,000	446,000	266,000	10/10	99,900	822,000	289,000	10/10	46,600	182,000	94,400
PCB045+051	10/10	3,160	18,900	10,200	10/10	4,390	16,500	8,430	10/10	4,180	18,000	8,520	10/10	1,580	4,690	2,450
PCB046	5/10	300	3,000	752	6/10	557	1,510	696	4/10	547	1,310	441	3/10	232	495	183
PCB048	1/10	1,090	1,090	209	1/10	501	501	256	3/10	457	1,950	379	1/10	360	360	124
PCB049+069	10/10	50,800	559,000	238,000	10/10	88,300	299,000	174,000	10/10	68,400	476,000	189,000	10/10	39,800	134,000	67,300
PCB050+053	10/10	5,120	34,500	19,500	10/10	11,400	36,400	23,600	10/10	7,560	42,300	22,500	10/10	2,870	8,860	4,570
PCB052	10/10	68,600	629,000	293,000	10/10	126,000	408,000	228,000	10/10	97,600	549,000	245,000	10/10	45,900	154,000	76,200
PCB054	7/10	286	1,800	768	7/10	765	1,320	816	9/10	445	1,780	839	5/10	111	186	124
PCB055	0/10	--	--	82.9	0/10	--	--	64.1	0/10	--	--	62.9	0/10	--	--	51.7
PCB056	5/10	295	2,180	785	6/10	718	2,630	958	8/10	693	3,350	1,400	2/10	195	213	158
PCB057	0/10	--	--	83.6	0/10	--	--	64.1	1/10	246	246	82	3/10	151	217	107
PCB058	2/10	287	377	176	1/10	257	257	79.8	0/10	--	--	79.3	5/10	595	1,640	542
PCB059+062+075	10/10	5,270	45,400	20,700	10/10	8,830	28,700	15,900	10/10	6,510	44,200	17,500	10/10	2,910	9,880	4,900
PCB060	10/10	9,460	94,500	47,800	10/10	15,300	64,700	37,900	10/10	15,100	120,000	41,500	10/10	4,030	27,000	12,000
PCB086+087++097+109+119+125	10/10	40,700	396,000	206,000	10/10	73,600	279,000	170,000	10/10	65,800	507,000	181,000	10/10	29,600	124,000	64,900
PCB063	10/10	2,760	24,200	12,700	10/10	4,730	16,100	10,000	10/10	4,130	28,100	10,600	10/10	1,620	7,180	3,720
PCB064	10/10	11,400	85,900	40,700	10/10	22,100	70,900	36,600	10/10	14,900	88,700	40,700	10/10	4,770	17,600	8,490
PCB066	10/10	68,600	680,000	337,000	10/10	117,000	427,000	259,000	10/10	91,200	853,000	282,000	10/10	39,700	186,000	91,300
PCB067	0/10	--	--	104	0/10	--	--	52.6	0/10	--	--	64.6	5/10	372	732	367
PCB068	9/10	1,190	15,800	5,860	10/10	2,100	7,150	4,730	9/10	2,370	12,000	4,580	10/10	1,490	6,330	3,200
PCB072	10/10	954	11,100	4,330	10/10	1,740	5,390	3,610	10/10	1,330	8,620	3,470	9/10	1,080	4,970	2,100
PCB077	8/10	413	1,760	738	7/10	1,010	1,650	959	7/10	499	1,570	897	8/10	498	1,150	647
PCB078	0/10	--	--	163	0/10	--	--	127	0/10	--	--	130	0/10	--	--	98.9
PCB079	7/10	220	1,730	896	7/10	414	1,450	728	5/10	435	2,050	604	1/10	194	194	167
PCB080	0/10	--	--	144	0/10	--	--	114	0/10	--	--	116	0/10	--	--	85.8
PCB081	1/10	151	151	186	0/10	--	--	156	4/10	254	409	232	0/10	--	--	112
PCB082	4/10	902	2,800	1,210	7/10	1,200	4,270	1800	3/10	837	2,130	936	3/10	371	1,000	437
PCB083+099	10/10	181,000	1,820,000	913,000	10/10	282,000	1,070,000	677,000	10/10	264,000	2,330,000	729,000	10/10	126,000	884,000	341,000

Table B-6
Summary Statistics for Polychlorinated Biphenyl Congeners in Fillet Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB084	9/10	2,880	17,500	9,370	10/10	6,550	23,600	12,500	9/10	6,050	16,600	9,240	10/10	2,450	7,680	4,350
PCB085+116	10/10	24,900	307,000	146,000	10/10	40,100	191,000	109,000	10/10	36,200	367,000	112,000	10/10	13,300	88,000	34,500
PCB086+087+4ma	10/10	32,900	306,000	144,000	10/10	60,900	210,000	115,000	10/10	40,400	294,000	111,000	10/10	24,500	98,200	42,700
PCB088+091	10/10	10,800	97,300	43,900	10/10	19,500	74,200	42,500	10/10	16,100	74,400	34,200	10/10	13,000	41,200	20,800
PCB089	0/10	--	--	101	0/10	--	--	87.8	0/10	--	--	84.9	0/10	--	--	63.8
PCB090+101+113	10/10	117,000	1,160,000	555,000	10/10	201,000	716,000	418,000	10/10	143,000	1,240,000	433,000	10/10	88,200	412,000	175,000
PCB092	10/10	15,100	117,000	60,700	10/10	30,700	91,700	54,200	10/10	21,700	115,000	53,300	10/10	13,300	53,800	24,400
PCB093+100	10/10	5,700	57,900	29,200	10/10	8,910	35,500	23,100	10/10	8,550	73,600	23,000	10/10	4,760	24,200	11,000
PCB094	8/10	260	1,770	994	8/10	603	1,690	1,040	6/10	625	1,490	859	8/10	282	1,040	479
PCB095	10/10	23,400	153,000	84,400	10/10	46,700	162,000	91,900	10/10	30,600	148,000	75,200	10/10	21,300	70,800	34,700
PCB096	6/10	302	710	366	5/10	257	1,160	447	6/10	238	610	311	3/10	127	410	131
PCB098+102	3/10	1,730	3,350	1,670	10/10	1,420	4,820	2,920	8/10	907	4,740	2,240	7/10	625	1,530	836
PCB103	10/10	2,310	24,400	10,400	10/10	3,280	12,700	8,520	10/10	2,860	20,200	7,380	10/10	2,660	10,100	4,570
PCB104	2/10	196	814	179	5/10	153	372	156	3/10	134	591	152	1/10	225	225	57.9
PCB105	10/10	48,100	542,000	255,000	10/10	85,100	364,000	215,000	10/10	75,400	686,000	225,000	10/10	22,100	188,000	66,500
PCB106	0/10	--	--	324	0/10	--	--	174	0/10	--	--	176	0/10	--	--	142
PCB107	10/10	11,800	111,000	57,000	10/10	20,200	71,700	44,100	10/10	18,800	136,000	48,200	10/10	9,310	51,900	23,900
PCB108+124	6/10	589	5,640	2,330	9/10	1,870	5,260	3,260	9/10	887	5,830	3,020	9/10	1,200	4,950	2,020
PCB110+115	10/10	31,700	257,000	128,000	10/10	75,300	233,000	125,000	10/10	44,200	281,000	130,000	10/10	18,000	78,700	33,400
PCB111	6/10	332	2,840	1,290	5/10	443	2,030	956	7/10	519	3,960	1,050	6/10	486	1,920	683
PCB112	0/10	--	--	404	0/10	--	--	216	0/10	--	--	242	0/10	--	--	196
PCB114	9/10	3,240	30,500	15,000	9/10	5,160	22,200	11,900	10/10	4,870	39,800	13,400	6/10	2,170	11,900	3,860
PCB117	9/10	3,170	16,900	7,780	9/10	3,860	11,900	5,300	9/10	2,770	11,400	6,210	7/10	1,900	5,930	2,590
PCB118	10/10	176,000	1,640,000	818,000	10/10	284,000	1,080,000	660,000	10/10	261,000	2,050,000	691,000	10/10	93,800	698,000	269,000
PCB120	10/10	2,070	20,800	10,700	10/10	3,150	11,600	7,570	10/10	3,030	25,200	7,790	10/10	2,190	14,800	5,810
PCB121	2/10	225	913	519	2/10	1,280	1,750	490	2/10	321	2,240	438	2/10	319	1,050	314
PCB122	0/10	--	--	366	0/10	--	--	184	0/10	--	--	183	0/10	--	--	157
PCB123	9/10	2,790	31,000	14,500	10/10	5,280	21,300	12,800	10/10	3,640	38,600	12,500	8/10	1,950	11,000	3,710
PCB126	6/10	299	1,580	986	6/10	586	1,700	709	4/10	616	2,870	821	5/10	250	712	283
PCB127	0/10	--	--	344	0/10	--	--	202	6/10	442	2,660	729	0/10	--	--	152
PCB128+166	10/10	28,900	338,000	155,000	10/10	50,700	203,000	125,000	10/10	47,400	398,000	132,000	10/10	19,100	156,000	55,800
PCB129+138+163	10/10	217,000	2,130,000	1,030,000	10/10	387,000	1,300,000	854,000	10/10	330,000	2,660,000	892,000	10/10	142,000	1,060,000	406,000
PCB130	9/10	4,190	33,600	17,900	10/10	10,000	25,800	17,100	10/10	6,460	31,900	16,200	10/10	5,910	18,200	10,400
PCB131	0/10	--	--	264	1/10	665	665	240	0/10	--	--	151	2/10	257	840	195

Table B-6
Summary Statistics for Polychlorinated Biphenyl Congeners in Fillet Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB132	10/10	9,650	65,100	36,200	10/10	19,900	60,800	37,600	10/10	12,900	66,000	32,900	10/10	10,300	38,700	16,700
PCB133	10/10	4,110	32,500	`	10/10	5,800	18,000	11,900	10/10	5,210	32,900	12,100	10/10	3,500	18,800	8,390
PCB134	0/10	--	--	267	1/10	1,470	1,470	336	0/10	--	--	160	2/10	966	2,430	534
PCB135+151	10/10	11,200	68,000	38,600	10/10	24,500	62,800	40,000	10/10	13,400	73,800	37,900	10/10	11,500	47,300	19,800
PCB136	9/10	1,280	6,110	3,510	10/10	2,360	7,620	5,290	10/10	1,700	6,080	3,560	10/10	1,280	4,810	2,320
PCB137	10/10	8,990	95,500	43,900	10/10	16,100	57,900	35,800	10/10	13,600	105,000	39,600	10/10	4,830	46,900	16,000
PCB139+140	10/10	4,030	39,500	19,200	10/10	6,670	23,600	15,000	10/10	5,990	47,800	16,000	10/10	2,740	18,100	7,310
PCB141	10/10	12,900	162,000	75,000	10/10	28,300	87,900	58,000	10/10	23,700	164,000	64,000	10/10	9,310	48,300	22,300
PCB142	0/10	--	--	257	0/10	--	--	182	0/10	--	--	150	0/10	--	--	113
PCB143	0/10	--	--	246	0/10	--	--	167	0/10	--	--	139	0/10	--	--	110
PCB144	10/10	2,290	43,800	18,500	10/10	7,510	28,900	14,000	10/10	6,690	31,700	14,700	10/10	1,800	14,100	3,800
PCB145	0/10	--	--	64.4	0/10	--	--	50.3	0/10	--	--	57.7	0/10	--	--	51.9
PCB146	10/10	54,300	494,000	248,000	10/10	80,500	290,000	187,000	10/10	78,800	635,000	200,000	10/10	39,100	301,000	113,000
PCB147+149	10/10	58,500	488,000	252,000	10/10	110,000	337,000	222,000	10/10	89,000	514,000	211,000	10/10	59,800	264,000	118,000
PCB148	10/10	1,090	9,670	5,060	10/10	1,350	5,820	3,670	10/10	1,430	12,300	3,560	10/10	1,060	6,190	2,640
PCB150	5/10	229	916	445	10/10	332	1,050	739	7/10	348	904	443	6/10	409	1720	601
PCB152	6/10	55	376	157	3/10	73	191	92.4	3/10	147	236	114	0/10	--	--	53.5
PCB153+168	10/10	326,000	2,920,000	1,440,000	10/10	461,000	1,640,000	1,080,000	10/10	444,000	3,650,000	1,140,000	10/10	211,000	1,880,000	645,000
PCB154	10/10	10,300	128,000	62,700	10/10	18,600	76,100	43,300	10/10	19,500	164,000	50,000	10/10	10,100	78,700	29,100
PCB155	9/10	713	7,610	3,140	10/10	954	3,450	2,230	9/10	859	7,340	2,210	9/10	447	3,810	1,300
PCB156+157	10/10	20,500	218,000	103,000	10/10	39,100	143,000	86,800	10/10	33,600	256,000	93,000	10/10	13,100	110,000	38,000
PCB158	10/10	16,600	184,000	84,200	10/10	31,100	108,000	68,000	10/10	26,400	200,000	72,300	10/10	9,030	78,800	27,300
PCB159	8/10	242	3,400	1,580	9/10	730	2,600	1,500	8/10	902	3,310	1,560	6/10	344	1690	667
PCB160	0/10	--	--	195	0/10	--	--	135	0/10	--	--	107	0/10	--	--	88.2
PCB161	0/10	--	--	179	0/10	--	--	127	0/10	--	--	103	0/10	--	--	81.1
PCB162	9/10	1,240	11,900	5,720	9/10	2,070	6,760	4,190	10/10	1,900	15,200	4,950	9/10	1,380	9,480	3,080
PCB164	10/10	4,380	46,100	24,200	10/10	11,400	33,400	22,300	9/10	9,840	54,100	22,100	10/10	4,140	20,300	8,560
PCB165	0/10	--	--	202	0/10	--	--	143	0/10	--	--	117	1/10	300	300	173
PCB167	10/10	7,830	69,000	35,100	10/10	14,300	47,800	29,500	10/10	10,400	83,400	30,500	10/10	5,900	28,800	14,000
PCB169	2/10	691	1,130	344	0/10	--	--	278	0/10	--	--	194	0/10	--	--	137
PCB170	10/10	33,900	509,000	221,000	10/10	77,000	274,000	164,000	10/10	75,200	549,000	194,000	10/10	30,600	342,000	102,000
PCB171+173	10/10	13,400	157,000	72,900	10/10	27,200	88,100	56,200	10/10	26,100	184,000	63,800	10/10	9,170	103,000	31,400
PCB172	10/10	7,210	92,900	42,300	10/10	14,300	47,400	29,500	10/10	14,100	93,900	34,300	10/10	6,940	73,600	22,400
PCB174	10/10	6,740	75,200	40,000	10/10	21,200	62,000	40,000	10/10	19,900	77,100	41,900	10/10	8,960	31,100	17,100

Table B-6
Summary Statistics for Polychlorinated Biphenyl Congeners in Fillet Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB175	10/10	1,690	16,300	7,770	10/10	2,670	8,880	5,830	8/10	2,640	15,100	5,470	9/10	1,440	9,390	3,630
PCB176	8/10	628	4,000	1,680	7/10	1,010	3,340	1,690	8/10	723	2,040	1,190	9/10	750	2,740	1,190
PCB177	9/10	4,260	23,500	13,600	10/10	11,300	22,800	15,500	9/10	6,680	25,500	14,800	10/10	6,450	20,100	10,800
PCB178	10/10	8,060	55,900	30,000	10/10	13,200	38,500	25,200	10/10	10,000	59,300	23,600	10/10	8,190	40,800	18,500
PCB179	9/10	1,780	8,920	4,910	10/10	3,260	9,610	6,750	10/10	2,620	10,100	5,320	10/10	2,250	7,970	3,840
PCB180+193	10/10	96,900	1,250,000	561,000	10/10	173,000	621,000	377,000	10/10	169,000	1,200,000	431,000	10/10	77,100	928,000	268,000
PCB181	7/10	442	5,260	1,870	5/10	770	2,790	1,360	7/10	902	6,080	1,920	7/10	272	3,170	915
PCB182	7/10	453	4,710	2,040	8/10	996	3,080	1,790	9/10	934	5,640	2,060	7/10	692	3,980	1,210
PCB183	10/10	34,100	358,000	162,000	10/10	63,900	207,000	136,000	10/10	59,100	388,000	139,000	10/10	20,400	269,000	77,400
PCB184	7/10	329	3,200	1,250	8/10	517	1,790	1,080	7/10	536	3,940	1,190	9/10	345	2,400	764
PCB185	10/10	1,110	19,800	8,140	8/10	3,000	9,130	5,250	9/10	3,510	10,900	7,450	3/10	1,480	5,510	1,630
PCB186	0/10	--	--	62.6	0/10	--	--	62.5	0/10	--	--	51.7	0/10	--	--	50.2
PCB187	10/10	79,100	705,000	347,000	10/10	130,000	453,000	292,000	10/10	128,000	834,000	289,000	10/10	65,900	419,000	180,000
PCB188	10/10	465	4,610	2,370	9/10	684	2,930	1,670	10/10	728	5,050	1,790	10/10	642	4,350	1,750
PCB189	10/10	1,560	16,200	7,720	9/10	2,490	8,880	5,110	10/10	2,530	19,800	6,800	10/10	1,530	13,400	4,180
PCB190	10/10	7,210	97,500	43,600	10/10	15,900	55,500	33,400	10/10	15,200	109,000	38,900	10/10	5,610	66,800	19,700
PCB191	10/10	1,710	22,400	9,890	10/10	3,370	11,800	7,400	10/10	3,750	24,300	8,700	10/10	1,310	13,800	4,230
PCB192	0/10	--	--	161	0/10	--	--	142	0/10	--	--	164	0/10	--	--	134
PCB194	10/10	16,400	221,000	95,500	10/10	22,400	88,400	54,400	10/10	24,700	202,000	70,300	10/10	22,400	177,000	57,900
PCB195	10/10	6,200	86,900	38,000	10/10	12,900	46,900	29,200	10/10	12,300	89,500	33,400	10/10	7,010	57,700	19,700
PCB196	10/10	10,000	125,000	56,100	10/10	20,500	66,100	43,500	10/10	19,900	141,000	50,500	10/10	9,380	81,500	28,400
PCB197	10/10	1,950	21,800	10,500	10/10	3,900	13,100	8,620	10/10	3,700	26,200	9,210	10/10	1,940	15,800	5,460
PCB198+199	10/10	17,100	203,000	93,000	10/10	39,200	121,000	77,500	10/10	35,400	201,000	85,400	10/10	21,200	127,000	53,900
PCB200	8/10	231	2,440	995	5/10	957	1,810	958	6/10	521	2,030	845	7/10	400	1,480	655
PCB201	10/10	2,420	23,800	11,200	9/10	3,780	12,100	7,420	10/10	3,710	21,600	8,390	10/10	3,160	16,100	7,870
PCB202	10/10	3,660	25,400	14,200	9/10	5,980	18,000	10,700	10/10	4,860	28,500	11,600	10/10	5,170	21,700	10,500
PCB203	10/10	15,000	200,000	88,900	10/10	33,900	111,000	71,900	10/10	32,100	212,000	80,800	10/10	16,100	137,000	47,500
PCB204	9/10	131	1,460	714	8/10	261	1,070	564	4/10	317	1,750	520	4/10	171	521	181
PCB205	10/10	752	9,870	4,520	9/10	1,590	5,600	3,470	8/10	1,930	5,460	3,370	8/10	1,060	8,720	2,540

Table B-6
Summary Statistics for Polychlorinated Biphenyl Congeners in Fillet Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB206	10/10	7,950	113,000	49,700	10/10	17,900	60,300	39,600	10/10	19,400	116,000	44,400	10/10	12,200	99,900	34,300
PCB207	10/10	4,150	51,600	26,100	10/10	9,080	31,600	20,400	10/10	9,930	76,900	24,000	10/10	6,130	38,500	15,100
PCB208	10/10	5,430	72,300	35,700	10/10	12,000	41,300	25,600	10/10	11,800	83,200	30,400	10/10	10,700	63,400	25,300
PCB209	10/10	88,000	1,200,000	555,000	10/10	194,000	693,000	442,000	10/10	178,000	1,470,000	488,000	10/10	95,100	574,000	216,000

Notes

FCA = fish collection area

lw = lipid weight

-- = not applicable, no detected values

a - Mean calculation includes detected and non-detected values. Non-detected values were set at one-half the detection limit.

b - PCB###+#### indicates a co-elution of two or more PCB congeners.

Table B-7
Summary Statistics for Dioxins and Furans in Whole Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
Catfish - Whole																
Dioxins/Furans (ng/kg - lw)																
2,3,7,8-TCDD	3/3	243	338	295	4/4	167	294	234	3/3	206	313	255	8/8	15.9	46.1	27.9
1,2,3,7,8-PeCDD	1/3	14.1	14.1	8.26	4/4	5.87	12.9	8.48	3/3	7.61	26.5	16.6	7/8	5.13	13.9	7.96
1,2,3,4,7,8-HxCDD	3/3	4.40	6.00	5.16	4/4	2.02	7.17	3.64	3/3	3.02	24.7	13.1	6/8	3.14	6.70	3.72
1,2,3,6,7,8-HxCDD	3/3	23.7	37.7	31.2	3/4	6.78	38.8	17.9	3/3	17.8	141	73.7	8/8	11.4	32.1	17.4
1,2,3,7,8,9-HxCDD	3/3	6.35	9.27	8.30	3/4	4.60	9.74	5.08	3/3	4.75	45.9	24.3	8/8	3.71	8.75	5.42
1,2,3,4,6,7,8-HpCDD	3/3	38.3	43.9	42.0	4/4	22.1	46.0	31.2	3/3	30.3	288	140	8/8	31.0	50.3	37.2
OCDD	3/3	83.8	118	103	4/4	54.5	88.6	72.6	3/3	98.7	373	205	8/8	76.5	134	108
2,3,7,8-TCDF	3/3	29.9	38.8	33.2	4/4	37.8	55.0	45.8	3/3	24.7	49.4	40.1	6/8	7.15	9.93	7.39
1,2,3,7,8-PeCDF	1/3	1.79	1.79	1.07	2/4	1.31	1.58	1.06	2/3	1.37	2.99	2.03	0/8	--	--	0.659
2,3,4,7,8-PeCDF	3/3	17.6	20.2	19.3	4/4	11.1	19.2	14.2	3/3	8.36	32.4	22.2	5/8	3.23	6.98	3.65
1,2,3,4,7,8-HxCDF	2/3	0.904	1.29	0.799	2/4	0.750	1.48	0.685	1/3	2.52	2.52	1.32	1/8	0.810	0.810	0.429
1,2,3,6,7,8-HxCDF	0/3	--	--	0.195	1/4	0.614	0.614	0.337	2/3	1.27	1.62	1.04	2/8	0.712	3.36	0.741
1,2,3,7,8,9-HxCDF	0/3	--	--	0.233	0/4	--	--	0.280	2/3	0.419	0.529	0.412	1/8	0.885	0.885	0.469
2,3,4,6,7,8-HxCDF	0/3	--	--	0.238	1/4	0.593	0.593	0.346	1/3	1.90	1.90	0.939	1/8	1.08	1.08	0.453
1,2,3,4,6,7,8-HpCDF	1/3	0.803	0.803	0.408	0/4	--	--	0.313	1/3	0.607	0.607	0.381	1/8	1.39	1.39	0.450
1,2,3,4,7,8,9-HpCDF	0/3	--	--	0.297	0/4	--	--	0.435	0/3	--	--	0.314	0/8	--	--	0.396
OCDF	1/3	3.42	3.42	1.53	0/4	--	--	0.431	0/3	--	--	0.531	2/8	2.00	3.68	1.28
TEQ_{DF} [b]	3/3	264	367	318	4/4	183	316	255	3/3	222	378	296	8/8	24.2	68.5	41.0
TEQ_{DFP} [c]	3/3	359	540	440	4/4	246	462	343	3/3	332	489	389	8/8	37.7	159	94.6
TEQ_{P} [d]	3/3	94.5	174	123	4/4	44.8	146	88.0	3/3	58.9	111	93.3	8/8	11.8	92.3	53.6
Polychlorinated Biphenyls (µg/kg - lw)																
Total PCBs [e]	3/3	6,380	14,700	9,300	4/4	4,780	9,930	7,400	3/3	7,370	9,060	8,050	8/8	1,290	14,600	5,620

Notes

FCA = fish collection area
lw = lipid weight
-- = not applicable, no detected values

a - Mean calculation includes detected and non-detected values. Non-detected values were set at one-half the detection limit.
b - Toxicity equivalent for dioxins and furans calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
c - Toxicity equivalent for dioxins, furans, and polychlorinated biphenyls calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
d - Toxicity equivalent for polychlorinated biphenyls calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
e - Total polychlorinated biphenyls calculated as the sum of all 209 congeners with non-detects set at one-half the detection limit.

Table B-8
Summary Statistics for Polychlorinated Biphenyl Congeners in Whole Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
Catfish - Whole																
Polychlorinated Biphenyl Congeners [b] (ng/kg - lw)																
PCB001	3/3	119	204	173	3/4	150	203	178	3/3	174	242	219	4/8	38.8	137	57.1
PCB002	0/3	--	--	16.8	0/4	--	--	15.3	0/3	--	--	18.0	0/8	--	--	17.1
PCB003	0/3	--	--	18.5	1/4	17.4	17.4	17.9	0/3	--	--	20.8	1/8	67.5	67.5	25.3
PCB004	3/3	1,130	1,610	1,340	4/4	948	1,640	1240	2/3	585	1380	857	5/8	183	626	322
PCB005	0/3	--	--	58.5	0/4	--	--	68.1	0/3	--	--	169	4/8	131	429	201
PCB006	3/3	289	467	404	1/4	225	225	161	0/3	--	--	141	3/8	103	370	149
PCB007	0/3	--	--	53.6	1/4	129	129	98.6	0/3	--	--	150	2/8	77.6	122	101
PCB008	2/3	243	401	261	2/4	280	300	226	0/3	--	--	146	3/8	104	629	170
PCB009	1/3	252	252	148	2/4	179	205	158	0/3	--	--	148	2/8	88.6	310	120
PCB010	0/3	--	--	86.0	0/4	--	--	101	0/3	--	--	203	0/8	--	--	59.8
PCB011	0/3	--	--	466	0/4	--	--	730	0/3	--	--	568	0/8	--	--	774
PCB012+013	0/3	--	--	51.6	0/4	--	--	61.7	0/3	--	--	150	0/8	--	--	72.7
PCB014	0/3	--	--	49.7	0/4	--	--	58.8	0/3	--	--	146	0/8	--	--	69.6
PCB015	3/3	339	466	404	2/4	315	340	237	0/3	--	--	166	0/8	--	--	82.7
PCB016	3/3	2,690	4,070	3,300	4/4	1,850	3,160	2,480	3/3	2,470	2,860	2,600	8/8	550	1,480	975
PCB017	3/3	577	957	809	3/4	411	817	498	3/3	654	892	770	8/8	166	806	385
PCB018+030	3/3	3,420	5,970	4,780	4/4	2,490	4,990	3,490	3/3	3,660	4,660	4,090	8/8	550	2,160	1,240
PCB019	3/3	2,790	4,430	3,490	4/4	2,780	3,880	3,410	3/3	2,590	3,230	2,920	8/8	321	1,080	688
PCB020+028	3/3	26,300	51,200	39,200	4/4	25,900	51,600	35,900	3/3	31,400	47,100	37,100	8/8	7,720	32,000	18,500
PCB021+033	3/3	294	557	398	3/4	267	401	288	3/3	403	636	486	6/8	48.1	743	244
PCB022	3/3	471	763	618	4/4	352	572	475	3/3	558	701	634	2/8	140	244	129
PCB023	0/3	--	--	27.4	0/4	--	--	28.4	0/3	--	--	20.8	0/8	--	--	29.6
PCB024	3/3	378	637	495	4/4	300	594	411	3/3	316	502	384	6/8	75.8	225	145
PCB025	3/3	463	853	641	4/4	694	952	828	3/3	566	819	721	8/8	456	1,420	937
PCB026+029	3/3	2,370	4,030	3,330	4/4	3,070	4,490	3,470	3/3	2,690	4,130	3,400	8/8	1,150	4,400	2,940
PCB027	3/3	358	602	508	4/4	237	461	343	3/3	460	528	495	7/8	75.3	233	137
PCB031	3/3	2,070	3,400	2,640	4/4	2,610	3,950	3,310	3/3	2,380	3,490	2,990	8/8	1,700	6,250	3,830
PCB032	3/3	368	532	465	4/4	193	480	319	3/3	331	524	399	8/8	97.9	463	177
PCB034	3/3	182	309	225	4/4	148	292	211	3/3	232	294	253	3/8	199	264	144
PCB035	0/3	--	--	25.1	0/4	--	--	26.5	0/3	--	--	18.9	0/8	--	--	27.4
PCB036	0/3	--	--	23.0	0/4	--	--	23.2	0/3	--	--	17.3	0/8	--	--	24.5
PCB037	2/3	285	454	298	4/4	298	446	367	2/3	317	353	272	4/8	182	284	150

Table B-8
Summary Statistics for Polychlorinated Biphenyl Congeners in Whole Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB038	0/3	--	--	27.1	0/4	--	--	26.2	1/3	84.3	84.3	41.6	0/8	--	--	27.7
PCB039	0/3	--	--	24.3	0/4	--	--	25.4	0/3	--	--	18.7	0/8	--	--	26.8
PCB040+041+071	3/3	3,090	5,850	4,460	4/4	2,470	4,360	3,190	3/3	3,280	3,640	3,430	8/8	729	2,400	1,430
PCB042	3/3	8,120	14,500	11,300	4/4	6,400	10,900	8,430	3/3	7,490	7,980	7,720	8/8	1,610	4,530	2,980
PCB043+073	1/3	1,060	1,060	476	2/4	27.7	628	172	0/3	--	--	14.3	4/8	21.9	364	121
PCB044+047+065	3/3	177,000	436,000	279,000	4/4	116,000	259,000	196,000	3/3	200,000	210,000	203,000	8/8	31,000	202,000	95,900
PCB045+051	3/3	4,780	10,400	6,860	4/4	4,200	7,500	5,550	3/3	4,210	6,580	5,150	8/8	1,130	2,940	2,040
PCB046	3/3	580	1,060	760	3/4	451	846	544	1/3	896	896	307	5/8	23.3	336	143
PCB048	2/3	753	895	553	0/4	--	--	12.8	2/3	33.6	696	247	3/8	169	225	84.6
PCB049+069	3/3	129,000	292,000	191,000	4/4	84,200	170,000	134,000	3/3	119,000	155,000	137,000	8/8	26,100	123,000	67,100
PCB050+053	3/3	7,950	22,300	13,800	4/4	13,400	20,600	17,100	3/3	9,710	12,600	11,500	8/8	2,170	5,740	4,110
PCB052	3/3	173,000	367,000	238,000	4/4	117,000	214,000	174,000	3/3	147,000	190,000	173,000	8/8	29,600	141,000	76,000
PCB054	3/3	217	911	571	4/4	546	944	720	3/3	373	625	511	8/8	60.4	249	154
PCB055	0/3	--	--	8.50	0/4	--	--	10.5	0/3	--	--	11.9	0/8	--	--	12.3
PCB056	3/3	659	1,260	1,050	4/4	666	1030	876	3/3	910	1,390	1170	6/8	183	677	284
PCB057	1/3	111	111	70.0	0/4	--	--	20.6	0/3	--	--	23.6	6/8	173	311	169
PCB058	2/3	347	1,690	682	0/4	--	--	9.75	0/3	--	--	11.1	6/8	151	931	467
PCB059+062+075	3/3	12,500	24,000	16,600	4/4	8,270	15,600	11,700	3/3	11,100	13,400	12,100	8/8	1,890	8,630	4,670
PCB060	3/3	22,000	56,900	34,600	4/4	18,100	37,600	30,000	3/3	24,500	32,500	28,400	8/8	2,710	33,700	12,600
PCB061+070+074+076	3/3	104,000	241,000	155,000	4/4	86,400	166,000	136,000	3/3	113,000	140,000	129,000	8/8	20,000	155,000	69,900
PCB063	3/3	6,860	16,500	10,300	4/4	4,650	9,870	7,850	3/3	7,380	8,330	7,840	8/8	1,090	9,000	3,980
PCB064	3/3	23,400	47,400	34,500	4/4	21,100	30,800	25,600	3/3	23,200	32,400	27,200	8/8	4,010	11,600	7,990
PCB066	3/3	162,000	406,000	254,000	4/4	117,000	256,000	202,000	3/3	184,000	214,000	201,000	8/8	26,500	232,000	98,400
PCB067	2/3	355	682	348	0/4	--	--	8.64	0/3	--	--	9.80	8/8	212	685	462
PCB068	3/3	109	7,070	3,850	4/4	2,770	4,910	3,900	3/3	3,180	4,310	3,660	8/8	110	7,290	2,820
PCB072	3/3	2,070	4,710	3,130	4/4	2,240	3,190	2,740	3/3	2,180	2,720	2,420	8/8	708	4,170	2,050
PCB077	3/3	525	737	630	4/4	713	976	851	3/3	277	800	574	8/8	376	1,010	695
PCB078	0/3	--	--	35.8	0/4	--	--	51.5	0/3	--	--	45.5	0/8	--	--	31.3
PCB079	3/3	331	1,020	744	4/4	190	888	582	3/3	530	786	620	8/8	148	764	402
PCB080	0/3	--	--	31.9	0/4	--	--	48.2	0/3	--	--	40.7	0/8	--	--	27.3
PCB081	2/3	58.6	275	129	2/4	202	219	148	2/3	150	184	139	2/8	111	325	97.9
PCB082	2/3	922	2,140	1,070	4/4	1,020	1,980	1,450	2/3	1,370	1,400	1,010	2/8	383	492	230
PCB083+099	3/3	449,000	897,000	614,000	4/4	301,000	816,000	563,000	3/3	389,000	571,000	475,000	8/8	87,200	1,100,000	415,000
PCB084	3/3	4,710	11,300	7,410	4/4	6,320	12,200	8,360	3/3	4,340	6,890	5,700	8/8	2,120	5,520	3,940

Table B-8
Summary Statistics for Polychlorinated Biphenyl Congeners in Whole Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB085+116	3/3	66,700	164,000	102,000	4/4	39,000	121,000	81,900	3/3	76,100	95,800	89,100	8/8	9,220	109,000	42,100
PCB086+087++097+109+119+125	3/3	87,900	164,000	116,000	4/4	56,800	130,000	90,200	3/3	78,900	93,700	87,300	8/8	17,100	79,600	43,700
PCB088+091	3/3	26,200	55,100	36,000	4/4	21,700	38,300	31,200	3/3	20,900	34,500	25,600	8/8	9,150	32,200	20,400
PCB089	0/3	--	--	21.6	0/4	--	--	20.1	0/3	--	--	19.1	0/8	--	--	17.2
PCB090+101+113	3/3	329,000	517,000	395,000	4/4	193,000	491,000	358,000	3/3	280,000	359,000	316,000	8/8	59,200	384,000	191,000
PCB092	3/3	33,500	78,800	51,600	4/4	31,600	50,400	42,700	3/3	33,100	50,400	41,200	8/8	8,890	49,500	25,900
PCB093+100	3/3	15,200	36,000	22,800	4/4	8,610	27,000	18,400	3/3	17,700	19,900	18,700	8/8	3220	29,000	12,500
PCB094	3/3	621	1,260	881	4/4	532	1,110	827	3/3	627	792	689	7/8	105	609	411
PCB095	3/3	38,900	104,000	65,800	4/4	47,100	80,500	63,300	3/3	46,100	53,700	49,100	8/8	15,900	44,300	30,200
PCB096	3/3	204	503	338	4/4	294	534	393	3/3	61.0	311	203	6/8	89.0	221	139
PCB098+102	3/3	1,470	3,490	2,360	4/4	1,430	2,670	2,090	3/3	1,580	1,840	1,730	7/8	284	1,360	780
PCB103	3/3	5,630	12,800	8,360	4/4	3,910	8,570	6,680	3/3	4,880	7,710	5,860	8/8	1,800	7,970	4,700
PCB104	3/3	46.5	177	106	3/4	60.8	151	95.2	1/3	41.2	41.2	38.6	2/8	36.6	38.9	23.4
PCB105	3/3	127,000	331,000	198,000	4/4	87,500	227,000	165,000	3/3	149,000	182,000	169,000	8/8	15,900	227,000	81,300
PCB106	0/3	--	--	78.1	0/4	--	--	78.5	0/3	--	--	70.8	0/8	--	--	69.3
PCB107	3/3	31,700	65,300	44,100	4/4	23,500	43,200	35,500	3/3	36,300	46,200	40,500	8/8	6740	70,700	28,400
PCB108+124	3/3	1,710	2,590	2,010	4/4	2,250	3,300	2,780	3/3	1,820	2,310	2,130	8/8	865	3,860	2,150
PCB110+115	3/3	69,500	161,000	114,000	4/4	75,200	123,000	94,100	3/3	74,700	128,000	98,600	8/8	14,400	57,400	33,800
PCB111	3/3	990	2,110	1,370	4/4	764	1,430	1,240	3/3	848	1,170	999	8/8	205	2,590	1,000
PCB112	0/3	--	--	148	0/4	--	--	97.3	0/3	--	--	144	0/8	--	--	67.0
PCB114	3/3	7,770	21,700	12,900	4/4	5,650	13,400	9,880	3/3	9,630	11,300	10,500	8/8	1,060	14,300	5,320
PCB117	3/3	4,720	6,830	5,850	4/4	2,880	6,050	4,340	3/3	2,850	10,800	6,410	8/8	1,130	6,610	3,180
PCB118	3/3	402,000	821,000	545,000	4/4	295,000	715,000	501,000	3/3	325,000	513,000	408,000	8/8	67,900	871,000	329,000
PCB120	3/3	5,770	12,700	8,300	4/4	4,320	8,300	6,440	3/3	6,350	7,550	6,960	8/8	1,520	19,400	7,340
PCB121	2/3	601	1,400	701	1/4	1,200	1,200	387	0/3	--	--	155	3/8	448	1,630	434
PCB122	1/3	639	639	276	0/4	--	--	84.4	0/3	--	--	73.4	1/8	259	259	125
PCB123	3/3	7,290	20,800	12,000	4/4	5,680	13,000	9,630	3/3	8,100	10,200	9420	8/8	890	12,800	4,650
PCB126	3/3	700	1,300	910	3/4	465	1,120	616	2/3	706	880	658	6/8	74.3	473	325
PCB127	0/3	--	--	140	2/4	522	524	314	3/3	360	987	654	3/8	297	702	220
PCB128+166	3/3	82,000	203,000	126,000	4/4	59,600	154,000	106,000	3/3	93,400	141,000	115,000	8/8	14,200	198,000	73,300
PCB129+138+163	3/3	661,000	1,080,000	809,000	4/4	482,000	1,310,000	819,000	3/3	495,000	758,000	649,000	8/8	104,000	1,620,000	586,000
PCB130	3/3	11,500	26,800	17,900	4/4	11,200	17,600	14,600	3/3	10,400	16,600	13,900	8/8	4030	21,600	11,900
PCB131	1/3	369	369	191	0/4	--	--	71.1	0/3	--	--	82.7	2/8	278	433	143

Table B-8
Summary Statistics for Polychlorinated Biphenyl Congeners in Whole Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB132	3/3	19,700	44,200	30,500	4/4	22,000	37,700	29,000	3/3	20,200	25,300	22,900	8/8	7,260	25,500	16,500
PCB133	3/3	9,960	22,300	14,400	4/4	6,670	12,600	10,000	3/3	9,210	13,400	11,400	8/8	2,510	22,200	10,000
PCB134	1/3	1,610	1,610	606	0/4	--	--	76.5	0/3	--	--	88.3	4/8	72.0	1,400	520
PCB135+151	3/3	19,800	45,200	31,400	4/4	27,100	43,200	32,600	3/3	24,600	33,700	28,400	8/8	8,980	30,200	20,100
PCB136	3/3	1,760	4,480	2,950	4/4	3,030	5,690	3,980	3/3	1,510	2,950	2,230	8/8	1,030	3,100	2,190
PCB137	3/3	23,500	66,900	39,500	4/4	18,500	42,100	30,300	3/3	30,500	45,200	36,500	8/8	3,610	59,300	21,700
PCB139+140	3/3	10,800	25,800	16,100	4/4	6,900	17,600	12,400	3/3	12,900	16,900	14,400	8/8	1,920	23,900	9,460
PCB141	3/3	45,100	104,000	67,700	4/4	28,500	64,400	48,800	3/3	51,300	69,700	58,300	8/8	6,660	60,200	26,500
PCB142	0/3	--	--	96.3	0/4	--	--	72.6	0/3	--	--	82.0	0/8	--	--	54.9
PCB143	0/3	--	--	92.3	0/4	--	--	67.0	0/3	--	--	76.1	0/8	--	--	53.0
PCB144	3/3	8,460	13,400	11,300	4/4	7,910	19,700	12,400	3/3	11,300	14,900	12,600	8/8	1,220	10,400	4,080
PCB145	0/3	--	--	5.92	0/4	--	--	8.99	0/3	--	--	8.78	0/8	--	--	10.9
PCB146	3/3	138,000	308,000	197,000	4/4	104,000	223,000	161,000	3/3	158,000	207,000	177,000	8/8	29,200	382,000	146,000
PCB147+149	3/3	145,000	318,000	211,000	4/4	118,000	221,000	177,000	3/3	140,000	189,000	170,000	8/8	42,000	240,000	127,000
PCB148	3/3	2,540	6,060	3,720	4/4	1,800	4,080	3,010	3/3	2,830	3,280	3,060	8/8	725	7,680	3,180
PCB150	3/3	397	640	492	4/4	470	682	544	3/3	225	649	401	8/8	294	986	628
PCB152	3/3	20.6	219	114	3/4	84.9	157	105	1/3	34.8	34.8	38.3	5/8	27.8	117	40.7
PCB153+168	3/3	880,000	1,550,000	1,110,000	4/4	673,000	1,850,000	1,130,000	3/3	664,000	1,080,000	884,000	8/8	153,000	3,020,000	987,000
PCB154	3/3	28,600	60,500	42,200	4/4	24,900	59,000	39,300	3/3	39,300	50,700	45,500	8/8	7040	86,800	37,000
PCB155	3/3	1,660	4,080	2,670	4/4	1,210	2,530	1,840	3/3	1,700	2,670	2,190	8/8	353	4,750	1,680
PCB156+157	3/3	54,500	146,000	88,800	4/4	44,100	97,000	71,300	3/3	69,600	96,500	80,800	8/8	9450	141,000	50,500
PCB158	3/3	45,000	119,000	72,100	4/4	35,500	76,200	56,000	3/3	53,900	82,300	65,400	8/8	6410	98,900	36,300
PCB159	3/3	1,190	2,280	1,610	4/4	530	1,650	1,120	3/3	1,260	1,830	1,500	8/8	111	2,340	933
PCB160	0/3	--	--	72.1	0/4	--	--	54.6	0/3	--	--	58.4	0/8	--	--	43.1
PCB161	0/3	--	--	69.0	0/4	--	--	50.2	0/3	--	--	56.3	0/8	--	--	39.5
PCB162	3/3	3,200	8,670	5220	4/4	2,820	5,380	4,090	3/3	3,920	5,170	4,380	8/8	780	12,000	4,220
PCB164	3/3	16,200	32,700	22,700	4/4	12,000	22,700	18,200	3/3	16,000	26,700	20,100	8/8	2,690	20,500	9,620
PCB165	2/3	560	1,170	592	0/4	--	--	56.4	0/3	--	--	64.3	3/8	524	1,200	312
PCB167	3/3	20,600	49,800	31,100	4/4	15,000	34,300	24,800	3/3	23,700	28,900	25,900	8/8	4270	39,800	17,500
PCB169	1/3	357	357	158	0/4	--	--	90.5	1/3	538	538	204	1/8	703	703	205
PCB170	3/3	129,000	316,000	196,000	4/4	101,000	214,000	150,000	3/3	160,000	230,000	188,000	8/8	26,400	512,000	156,000
PCB171+173	3/3	40,500	104,000	64,400	4/4	33,900	70,500	51,300	3/3	51,000	69,800	58,600	8/8	7660	146,000	46,300
PCB172	3/3	26,100	62,900	39,900	4/4	20,300	38,900	28,200	3/3	32,200	44,700	36,400	8/8	6230	108,000	34,800
PCB174	3/3	26,300	57,700	40,700	4/4	25,400	37,600	33,700	3/3	30,300	42,900	36,000	8/8	6840	46,900	21,300

Table B-8
Summary Statistics for Polychlorinated Biphenyl Congeners in Whole Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB175	3/3	5,020	10,900	7,100	4/4	3,620	7,640	5,410	3/3	5,170	6,300	5,820	8/8	1,110	13,900	5,310
PCB176	3/3	1,190	2,050	1,500	4/4	1,150	2,310	1,640	2/3	391	1,380	675	8/8	672	1,800	1,340
PCB177	3/3	8,160	18,300	13,800	4/4	11,200	15,200	13,200	3/3	9,730	14,500	11,900	8/8	5,520	20,100	12,100
PCB178	3/3	18,900	41,300	28,100	4/4	17,900	28,400	23,000	3/3	17,600	24,900	21,900	8/8	6,490	49,500	23,100
PCB179	3/3	2,740	7,140	4,670	4/4	4,850	7,680	5,710	3/3	2,980	4,340	3,650	8/8	1,970	6,440	4,120
PCB180+193	3/3	288,000	700,000	440,000	4/4	261,000	500,000	350,000	3/3	233,000	403,000	326,000	8/8	66,000	1,070,000	376,000
PCB181	3/3	1,360	3,550	2,130	4/4	1,120	2,020	1,550	3/3	1,710	2,800	2,150	7/8	274	4,870	1,490
PCB182	3/3	1,170	3,500	2,080	4/4	1,280	2,250	1,740	3/3	1,650	2,350	1,930	7/8	338	5,060	1,620
PCB183	3/3	88,000	248,000	150,000	4/4	94,300	165,000	125,000	3/3	114,000	149,000	126,000	8/8	17,700	408,000	122,000
PCB184	3/3	1,010	2,630	1,580	4/4	745	1,450	1,110	3/3	1,190	1,580	1,380	8/8	213	3,230	1,170
PCB185	3/3	243	11,500	5,690	4/4	4,740	11,600	6,770	3/3	7,490	9,240	8,420	7/8	1,130	7,980	2,940
PCB186	0/3	--	--	11.0	0/4	--	--	12.0	0/3	--	--	11.7	0/8	--	--	13.7
PCB187	3/3	209,000	467,000	311,000	4/4	176,000	352,000	258,000	3/3	236,000	320,000	270,000	8/8	54,200	635,000	247,000
PCB188	3/3	1,530	3,360	2,140	4/4	1,240	2,080	1,590	3/3	1,450	2,010	1,700	8/8	531	6,440	2,380
PCB189	3/3	4,330	12,000	7,200	4/4	3,510	6,890	5,080	3/3	5,900	8,610	6,810	8/8	1,180	19,100	6,150
PCB190	3/3	25,000	64,900	39,800	4/4	22,300	43,700	31,000	3/3	31,400	47,200	38,300	8/8	4,950	100,000	30,300
PCB191	3/3	5,490	14,100	8,820	4/4	4,600	9,040	6,710	3/3	6,940	10,600	8,530	8/8	1,100	20,000	6,320
PCB192	0/3	--	--	59.8	0/4	--	--	66.2	0/3	--	--	56.9	0/8	--	--	51.3
PCB194	3/3	48,800	131,000	76,600	4/4	33,100	74,200	49,600	3/3	64,100	89,700	74,100	8/8	17,000	242,000	79,200
PCB195	3/3	21,700	60,600	36,500	4/4	17,900	41,500	28,000	3/3	31,300	42,000	35,400	8/8	5,810	84,000	29,700
PCB196	3/3	32,300	88,300	53,800	4/4	27,400	57,400	41,800	3/3	48,100	64,900	53,900	8/8	8,580	125,000	44,000
PCB197	3/3	6,390	17,900	10,700	4/4	6,000	10,900	8,510	3/3	8,670	11,200	9,590	8/8	1,550	23,700	8,330
PCB198+199	3/3	58,600	152,000	96,200	4/4	50,400	91,800	72,900	3/3	79,000	115,000	92,100	8/8	18,800	200,000	78,500
PCB200	3/3	711	1,550	1,060	4/4	893	1,250	1,080	3/3	734	1,240	926	8/8	389	1620	825
PCB201	3/3	7,670	18,000	11,500	4/4	5,810	10,000	7,810	3/3	7,820	10,400	9,280	8/8	2,790	26,900	11,100
PCB202	3/3	8,570	21,700	13,700	4/4	8,640	13,700	11,000	3/3	8,950	12,900	10,700	8/8	4,210	27,400	13,300
PCB203	3/3	52,000	141,000	86,100	4/4	47,700	96,000	69,500	3/3	77,500	99,500	85,300	8/8	14,000	212,000	74,700
PCB204	3/3	452	1,360	782	4/4	377	760	546	3/3	702	953	786	8/8	88.9	1,300	432
PCB205	3/3	2,490	7,190	4,280	4/4	2,450	4,710	3,340	3/3	3,640	4,580	4,040	8/8	860	13,000	4,210

Table B-8
Summary Statistics for Polychlorinated Biphenyl Congeners in Whole Hardhead Catfish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB206	3/3	26,200	72,800	43,300	4/4	27,900	43,000	33,400	3/3	37,400	44,600	42,100	8/8	10,200	138,000	49,000
PCB207	3/3	14,700	37,800	22,600	4/4	12,000	21,900	17,600	3/3	21,000	25,800	23,400	8/8	4,530	45,600	19,800
PCB208	3/3	22,900	56,100	34,100	4/4	16,400	27,000	22,600	3/3	25,800	36,400	31,100	8/8	8,920	88,000	35,800
PCB209	3/3	305,000	679,000	433,000	4/4	273,000	458,000	367,000	3/3	268,000	519,000	377,000	8/8	72,000	772,000	302,000

Notes

FCA = fish collection area

lw = lipid weight

-- = not applicable, no detected values

a - Mean calculation includes detected and non-detected values. Non-detected values were set at one-half the detection limit.

b - PCB###+#### indicates a co-elution of two or more PCB congeners.

Table B-9
Summary Statistics for Dioxins and Furans in Edible Clam Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
Clam - Edible																
Dioxins/Furans (ng/kg - lw)																
2,3,7,8-TCDD	4/5	23	615	297	13/15	15.3	17,000	3,100	3/5	14.3	38.1	69.4	1/10	58.8	58.8	9.47
1,2,3,7,8-PeCDD	0/5	--	--	9.55	0/15	--	--	19.2	0/5	--	--	19.1	0/10	--	--	1.52
1,2,3,4,7,8-HxCDD	0/5	--	--	8.3	0/15	--	--	23.7	0/5	--	--	15.5	0/10	--	--	1.23
1,2,3,6,7,8-HxCDD	0/5	--	--	10.3	1/15	5.64	5.64	28.9	0/5	--	--	20	0/10	--	--	1.63
1,2,3,7,8,9-HxCDD	0/5	--	--	9.04	1/15	3.63	3.63	25.5	0/5	--	--	16.5	0/10	--	--	1.35
1,2,3,4,6,7,8-HpCDD	3/5	18	382	169	8/15	30.5	1,200	190	3/5	18.2	128	77.2	6/10	7.24	67.1	15.6
OCDD	5/5	129	3,090	1,680	13/15	218	4,960	1,540	5/5	92.8	2,870	929	10/10	58.8	624	178
2,3,7,8-TCDF	4/5	92.6	1,990	1,100	15/15	63.3	96,600	17,100	5/5	59.1	2,240	662	9/10	7.71	219	52.8
1,2,3,7,8-PeCDF	0/5	--	--	10.3	2/15	2.78	935	111	0/5	--	--	16.9	0/10	--	--	1.35
2,3,4,7,8-PeCDF	0/5	--	--	11.3	3/15	85	823	127	0/5	--	--	16.3	0/10	--	--	1.35
1,2,3,4,7,8-HxCDF	0/5	--	--	9.57	2/15	10.5	66	49.9	0/5	--	--	18.4	0/10	--	--	1.09
1,2,3,6,7,8-HxCDF	0/5	--	--	9.23	2/15	5.36	19.3	16.8	0/5	--	--	17.5	0/10	--	--	1.04
1,2,3,7,8,9-HxCDF	0/5	--	--	15	0/15	--	--	20.6	0/5	--	--	23.8	0/10	--	--	1.5
2,3,4,6,7,8-HxCDF	0/5	--	--	10.8	1/15	4.74	4.74	15.1	0/5	--	--	20.2	0/10	--	--	1.21
1,2,3,4,6,7,8-HpCDF	0/5	--	--	11.1	1/15	79.1	79.1	22.1	0/5	--	--	16.6	0/10	--	--	1.22
1,2,3,4,7,8,9-HpCDF	0/5	--	--	15.6	1/15	8.53	8.53	24.8	0/5	--	--	22.1	0/10	--	--	1.77
OCDF	0/5	--	--	16.3	1/15	352	352	51.2	0/5	--	--	49.2	0/10	--	--	2.83
TEQ_{DF} [b]	5/5	33.6	766	430	15/15	28.8	27,000	4,880	5/5	22.4	553	175	10/10	2.68	90.9	17.9
TEQ_{DFP} [c]	5/5	37.2	861	499	15/15	35.4	28,000	5,130	5/5	30.6	951	301	10/10	4.58	117	24.6
TEQ_{P} [d]	5/5	3.5	148	68.8	15/15	6.64	896	246	5/5	8.13	399	126	10/10	1.74	26	6.71
Polychlorinated Biphenyls (µg/kg - lw)																
Total PCBs [e]	5/5	369	16,700	7,670	15/15	178	112,000	27,400	5/5	647	43,700	13,100	10/10	167	2,150	558

Notes

FCA = fish collection area
lw = lipid weight
-- = not applicable, no detected values

a - Mean calculation includes detected and non-detected values. Non-detected values were set at one-half the detection limit.
b - Toxicity equivalent for dioxins and furans calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
c - Toxicity equivalent for dioxins, furans and polychlorinated biphenyls calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
d - Toxicity equivalent for polychlorinated biphenyls calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
e - Total polychlorinated biphenyls calculated as the sum of all 209 congeners with non-detects set at one-half the detection limit.

Table B-10
Summary Statistics for Polychlorinated Biphenyl Congeners in Edible Clam Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
Clam - Edible																
Polychlorinated Biphenyl Congeners [b] (ng/kg - lw)																
PCB001	0/5	--	--	710	7/15	5,240	55,900	16,600	5/5	207	11,100	3,520	9/10	69.8	642	177
PCB002	0/5	--	--	211	2/15	226	2,290	541	0/5	--	--	314	0/10	--	--	44.4
PCB003	0/5	--	--	416	1/15	1,360	1,360	1,590	3/5	255	7,330	2,100	1/10	116	116	60.9
PCB004	2/5	5,790	17,200	5,760	15/15	297	241,000	73,000	3/5	2,510	39,300	12,400	0/10	--	--	818
PCB005	0/5	--	--	592	0/15	--	--	896	0/5	--	--	681	0/10	--	--	189
PCB006	2/5	3,520	4,290	1,780	11/15	1,270	42,400	8,990	5/5	370	24,600	7,630	1/10	893	893	274
PCB007	0/5	--	--	551	5/15	1,030	13,400	3,460	0/5	--	--	691	0/10	--	--	174
PCB008	5/5	507	23,700	11,700	15/15	588	464,000	137,000	4/5	3,800	111,000	32,800	10/10	768	6,710	1,900
PCB009	0/5	--	--	542	5/15	1,030	15,300	3,400	0/5	--	--	669	0/10	--	--	167
PCB010	0/5	--	--	1,470	0/15	--	--	1,790	0/5	--	--	1,120	0/10	--	--	581
PCB011	0/5	--	--	37,100	0/15	--	--	56,400	0/5	--	--	68,300	0/10	--	--	4,950
PCB012+013	0/5	--	--	548	2/15	2,830	21,000	2,230	0/5	--	--	737	0/10	--	--	169
PCB014	0/5	--	--	530	0/15	--	--	779	0/5	--	--	652	0/10	--	--	164
PCB015	0/5	--	--	8,730	7/15	22,500	276,000	70,600	0/5	--	--	12,300	0/10	--	--	745
PCB016	3/5	621	29,100	11,700	12/15	385	139,000	26,100	5/5	928	60,000	17,900	9/10	406	3,510	1,210
PCB017	5/5	808	37,500	17,400	15/15	510	187,000	36,400	5/5	1,630	101,000	31,300	9/10	844	8,340	2,240
PCB018+030	5/5	1,900	70,700	34,800	15/15	946	331,000	70,600	5/5	2,730	179,000	56,400	10/10	1,250	15,000	4,220
PCB019	5/5	1,490	58,700	25,300	15/15	345	195,000	38,800	5/5	1,590	103,000	32,600	10/10	687	6,100	1,970
PCB020+028	3/5	3,960	199,000	78,800	15/15	2,390	955,000	193,000	5/5	11,700	729,000	224,000	9/10	3,650	38,200	10,300
PCB021+033	5/5	811	45,700	20,600	14/15	533	203,000	38,500	2/5	4,100	5,870	18,300	0/10	--	--	1,300
PCB022	0/5	--	--	11,800	5/15	13,100	59,300	28,400	5/5	3,140	201,000	61,400	0/10	--	--	1,280
PCB023	0/5	--	--	518	0/15	--	--	752	0/5	--	--	641	0/10	--	--	64
PCB024	1/5	515	515	347	8/15	23.8	2,310	889	1/5	267	267	651	1/10	60.2	60.2	54.5
PCB025	5/5	393	18,400	8,370	14/15	193	83,800	15,800	4/5	1,010	63,900	19,600	10/10	196	2,950	815
PCB026+029	5/5	602	27,900	13,300	15/15	347	136,000	26,400	5/5	1,370	85,000	26,300	10/10	294	4,700	1,330
PCB027	5/5	267	11,200	5,280	15/15	147	49,300	9,860	5/5	446	26,000	7,930	9/10	189	1,990	558
PCB031	4/5	2,120	115,000	47,000	15/15	1,260	514,000	98,400	5/5	4,640	309,000	94,100	7/10	2,200	19,800	5,050
PCB032	2/5	27,000	38,300	15,500	9/15	478	56,100	21,800	5/5	1,820	110,000	33,800	0/10	--	--	662
PCB034	0/5	--	--	474	0/15	--	--	682	0/5	--	--	546	0/10	--	--	60.1
PCB035	1/5	802	802	640	3/15	185	2,340	1,180	2/5	2,650	9,860	2,580	0/10	--	--	59.5
PCB036	0/5	--	--	426	0/15	--	--	642	0/5	--	--	563	0/10	--	--	56.2
PCB037	1/5	43,800	43,800	12,900	6/15	463	34,700	18,100	5/5	2,810	177,000	53,400	0/10	--	--	755

Table B-10
Summary Statistics for Polychlorinated Biphenyl Congeners in Edible Clam Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB038	0/5	--	--	458	0/15	--	--	675	0/5	--	--	583	0/10	--	--	59.7
PCB039	0/5	--	--	455	1/15	5,280	5,280	920	0/5	--	--	563	0/10	--	--	60.9
PCB040+041+071	5/5	3,930	179,000	84,200	15/15	2,020	655,000	154,000	5/5	7,680	513,000	159,000	10/10	1,520	22,900	6,040
PCB042	5/5	2,180	97,300	46,800	15/15	1,220	366,000	89,400	5/5	3,780	251,000	80,100	10/10	855	13,100	3,560
PCB043+073	5/5	195	10,800	5,070	12/15	1,000	48,300	9,420	4/5	423	31,000	9,560	3/10	217	1,180	215
PCB044+047+065	5/5	10,900	481,000	229,000	15/15	5,620	1,900,000	469,000	5/5	15,800	1,030,000	322,000	10/10	4,500	68,100	18,100
PCB045+051	5/5	1,420	60,300	28,900	15/15	726	229,000	51,500	5/5	2,220	139,000	43,100	10/10	506	8,170	2,160
PCB046	5/5	384	17,700	8,000	15/15	183	63,400	14,300	5/5	630	41,300	13,100	9/10	147	2,110	582
PCB048	5/5	966	46,300	21,800	15/15	551	194,000	41,800	5/5	2,110	133,000	41,600	10/10	435	6,320	1,810
PCB049+069	5/5	8,100	349,000	168,000	15/15	4,150	1,360,000	344,000	5/5	11,200	759,000	235,000	10/10	3,200	48,400	13,200
PCB050+053	5/5	7,930	343,000	150,000	15/15	2,210	1,070,000	233,000	5/5	8,710	629,000	196,000	10/10	2,770	29,100	9,160
PCB052	5/5	13,200	615,000	282,000	15/15	7,020	2,460,000	705,000	5/5	19,600	1,220,000	381,000	9/10	6,980	82,100	21,600
PCB054	4/5	110	4,070	1,680	15/15	33.9	12,600	2,970	5/5	84.4	5,710	1,830	7/10	49.5	644	142
PCB055	0/5	--	--	382	2/15	7,800	11,600	2,140	0/5	--	--	181	0/10	--	--	31.6
PCB056	5/5	2,640	124,000	56,400	15/15	1,400	497,000	120,000	5/5	8,170	561,000	175,000	10/10	1,200	16,700	4,440
PCB057	2/5	345	414	356	2/15	347	1,020	508	1/5	124	124	664	1/10	36.1	36.1	31.1
PCB058	0/5	--	--	375	4/15	25.3	1,640	829	1/5	6,500	6,500	1,370	0/10	--	--	39.5
PCB059+062+075	5/5	891	39,300	18,900	15/15	491	157,000	36,300	5/5	1,750	113,000	35,700	10/10	366	6,050	1,590
PCB060	5/5	1,000	51,100	21,900	15/15	547	230,000	47,200	5/5	4,230	281,000	89,300	10/10	586	8,410	2,190
PCB061+070+074+076	5/5	12,100	601,000	268,000	15/15	6,810	2,310,000	603,000	5/5	26,500	1,740,000	538,000	10/10	5,900	84,600	21,600
PCB063	5/5	320	14,000	6,440	15/15	174	61,700	14,700	5/5	758	50,900	15,600	9/10	167	2,440	623
PCB064	5/5	3,590	167,000	78,900	15/15	2,020	655,000	163,000	5/5	7,680	501,000	157,000	10/10	1,550	24,000	6,300
PCB066	5/5	8,080	357,000	168,000	15/15	4,410	1,420,000	337,000	5/5	20,400	1,330,000	410,000	10/10	3,790	57,400	14,900
PCB067	4/5	88.6	5,060	1,780	9/15	43.7	16,400	3,500	4/5	541	16,900	5,230	3/10	68.4	79.6	68.3
PCB068	5/5	224	8,600	4,340	11/15	88.4	32,800	7,480	3/5	166	14,400	4,240	9/10	104	1,310	325
PCB072	5/5	244	8,930	4,570	14/15	105	32,700	8,250	3/5	592	15,400	4,600	8/10	76.1	994	264
PCB077	5/5	495	23,800	10,700	15/15	352	93,100	22,400	5/5	1,870	119,000	36,700	8/10	235	3,340	720
PCB078	0/5	--	--	267	0/15	--	--	592	0/5	--	--	511	0/10	--	--	38.4
PCB079	4/5	97.5	5,210	1,960	9/15	467	32,800	7,190	3/5	314	10,200	2,890	1/10	60.6	60.6	43.8
PCB080	0/5	--	--	246	0/15	--	--	540	0/5	--	--	485	0/10	--	--	33.9
PCB081	1/5	396	396	345	3/15	25.2	493	772	1/5	2,270	2,270	860	0/10	--	--	40.8
PCB082	5/5	1,200	66,700	26,900	15/15	618	549,000	130,000	5/5	3,180	199,000	61,400	2/10	1,190	4,620	1,220
PCB083+099	5/5	15,800	713,000	329,000	15/15	7,210	4,490,000	1,100,000	5/5	24,600	1,570,000	474,000	10/10	6,190	87,200	22,300
PCB084	5/5	2,870	170,000	71,100	15/15	1,780	1,230,000	296,000	5/5	5,170	343,000	105,000	0/10	--	--	2,090

Table B-10
Summary Statistics for Polychlorinated Biphenyl Congeners in Edible Clam Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB085+116	5/5	2,120	109,000	46,300	15/15	1,070	905,000	209,000	5/5	4,950	330,000	101,000	10/10	933	12,800	3,310
PCB086+087++097+109+119+125	5/5	7,730	454,000	186,000	15/15	3,970	3,580,000	834,000	5/5	17,200	1,070,000	329,000	0/10	--	--	5,770
PCB088+091	5/5	3,100	150,000	69,400	15/15	1,700	924,000	229,000	4/5	9,460	293,000	87,800	7/10	1,240	16,200	3,500
PCB089	3/5	1,610	5,270	2,350	11/15	566	36,800	7,810	4/5	246	16,400	5,070	4/10	56.1	371	91.9
PCB090+101+113	5/5	17,400	887,000	388,000	15/15	8,600	6,730,000	1,560,000	5/5	31,000	2,010,000	613,000	4/10	13,900	89,600	20,400
PCB092	5/5	3,500	170,000	75,200	15/15	1,740	1,330,000	315,000	5/5	6,120	403,000	123,000	10/10	1,450	20,200	5,190
PCB093+100	4/5	567	25,400	10,300	15/15	298	93,000	27,500	5/5	600	35,600	10,900	10/10	254	3,380	942
PCB094	4/5	1,770	6,280	2,920	13/15	86	30,300	8,370	4/5	190	12,800	3,410	8/10	56.8	970	224
PCB095	5/5	11,800	629,000	271,000	15/15	6,710	4,680,000	1,110,000	5/5	19,200	1,220,000	373,000	3/10	9,820	66,600	14,200
PCB096	5/5	118	5,450	2,550	14/15	62.9	27,800	7,610	5/5	198	11,900	3,780	6/10	39.2	578	119
PCB098+102	5/5	720	34,600	16,000	15/15	365	189,000	48,100	5/5	1,090	69,000	21,500	7/10	211	3,170	754
PCB103	5/5	473	19,000	9,140	14/15	203	78,800	21,000	5/5	351	24,300	7,390	10/10	144	2,220	558
PCB104	1/5	23.2	23.2	149	3/15	269	2,240	340	0/5	--	--	131	0/10	--	--	17.3
PCB105	5/5	4,090	201,000	87,300	15/15	2,150	1,530,000	373,000	5/5	12,300	771,000	233,000	4/10	5,360	29,300	6,820
PCB106	0/5	--	--	464	0/15	--	--	755	0/5	--	--	809	0/10	--	--	46.3
PCB107	5/5	1,390	61,100	28,300	15/15	638	412,000	103,000	5/5	2,630	180,000	53,000	10/10	608	8,330	2,160
PCB108+124	5/5	527	24,700	11,000	13/15	2,510	204,000	48,200	5/5	1,370	96,600	28,300	6/10	282	3,670	849
PCB110+115	5/5	16,900	887,000	383,000	15/15	8,840	6,910,000	1,650,000	5/5	38,600	2,460,000	742,000	4/10	16,700	107,000	24,000
PCB111	0/5	--	--	358	0/15	--	--	1,010	0/5	--	--	652	0/10	--	--	56.9
PCB112	0/5	--	--	334	0/15	--	--	931	0/5	--	--	585	0/10	--	--	51.5
PCB114	5/5	241	13,300	5,700	13/15	154	102,000	24,700	4/5	719	16,800	8,170	8/10	159	1,900	498
PCB117	1/5	10,300	10,300	4,380	9/15	263	147,000	29,400	3/5	1,060	56,100	14,400	6/10	226	2,720	566
PCB118	5/5	13,500	645,000	285,000	15/15	6,470	4,080,000	1,020,000	5/5	31,800	2,040,000	608,000	10/10	6,500	85,600	22,300
PCB120	4/5	192	8,070	3,250	12/15	733	23,400	6,280	4/5	154	10,800	3,110	6/10	66.9	860	183
PCB121	0/5	--	--	368	0/15	--	--	1,020	0/5	--	--	643	0/10	--	--	55.1
PCB122	3/5	135	2,630	2,200	8/15	753	49,200	12,500	4/5	1,110	30,100	8,720	4/10	154	1,280	283
PCB123	5/5	281	12,900	5,790	13/15	1350	82,400	20,200	4/5	1,540	47,900	13,800	8/10	137	1,060	359
PCB126	0/5	--	--	443	4/15	57.6	7,170	1,670	0/5	--	--	803	0/10	--	--	46.8
PCB127	0/5	--	--	469	0/15	--	--	771	0/5	--	--	894	0/10	--	--	53.6
PCB128+166	5/5	2,640	121,000	54,700	15/15	1,470	1,570,000	332,000	5/5	6,900	460,000	137,000	6/10	1,650	19,800	4,660
PCB129+138+163	5/5	20,700	913,000	419,000	15/15	10,400	9,970,000	2,160,000	5/5	45,000	3,090,000	899,000	10/10	10,100	140,000	35,200
PCB130	5/5	1,030	47,600	21,500	15/15	550	522,000	114,000	5/5	2,030	161,000	46,200	9/10	490	6,650	1,640
PCB131	3/5	127	7,930	2,560	11/15	1,660	113,000	23,000	4/5	318	23,700	7,010	5/10	96.9	799	172

Table B-10
Summary Statistics for Polychlorinated Biphenyl Congeners in Edible Clam Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB132	5/5	4,330	231,000	95,100	15/15	2,160	2,950,000	615,000	5/5	9,470	717,000	213,000	1/10	3,580	3,580	3,260
PCB133	5/5	350	15,100	7,410	15/15	171	116,000	27,200	4/5	1,120	34,900	10,200	8/10	156	1,900	474
PCB134	5/5	521	30,700	13,000	15/15	357	391,000	86,900	5/5	1,230	89,300	27,200	0/10	--	--	445
PCB135+151	5/5	6,210	285,000	130,000	15/15	3,120	2,970,000	664,000	5/5	9,380	709,000	211,000	10/10	2,540	33,800	8,520
PCB136	5/5	1,920	96,000	43,000	15/15	992	1,030,000	225,000	5/5	2,690	210,000	64,000	4/10	1,190	8,430	1,910
PCB137	5/5	668	33,100	14,300	15/15	344	464,000	96,800	5/5	1,870	146,000	41,600	4/10	623	5,210	1,020
PCB139+140	4/5	352	9,870	5,340	15/15	153	196,000	42,300	5/5	643	47,900	14,000	8/10	137	1,810	455
PCB141	5/5	2,380	111,000	49,900	15/15	1,220	1,280,000	275,000	5/5	5,320	373,000	107,000	7/10	1,300	15,300	3,690
PCB142	0/5	--	--	459	0/15	--	--	1,360	0/5	--	--	751	0/10	--	--	35.8
PCB143	0/5	--	--	435	3/15	7,290	24,200	3,950	1/5	446	446	727	0/10	--	--	31.7
PCB144	5/5	1,200	65,400	26,200	15/15	311	768,000	163,000	5/5	2,260	177,000	52,800	0/10	--	--	885
PCB145	0/5	--	--	121	0/15	--	--	214	0/5	--	--	109	0/10	--	--	17.2
PCB146	5/5	4,270	177,000	83,500	15/15	1,950	1,420,000	320,000	5/5	5,830	417,000	121,000	10/10	1,670	20,500	5,310
PCB147+149	5/5	15,500	700,000	322,000	15/15	6,990	6,820,000	1,510,000	5/5	22,200	1,740,000	516,000	10/10	5,600	69,800	18,100
PCB148	5/5	89.1	3,170	1,540	12/15	31.6	16,200	3,550	3/5	138	4,100	1,210	3/10	59.4	367	68.4
PCB150	5/5	144	6,250	2,870	14/15	44.7	19,300	5,070	5/5	68.8	6,910	2,030	8/10	30.1	481	122
PCB152	2/5	29.3	920	292	7/15	632	10,900	2,250	4/5	79.8	2,570	734	2/10	27.3	33.2	19.5
PCB153+168	5/5	23,000	953,000	453,000	15/15	11,200	8,230,000	1,850,000	5/5	36,600	2,700,000	769,000	10/10	9,940	128,000	32,700
PCB154	5/5	1,180	46,900	22,200	15/15	342	236,000	56,700	5/5	885	67,300	19,800	7/10	383	2,780	720
PCB155	4/5	1,010	2,880	1,450	7/15	23.6	5,830	1,100	1/5	927	927	407	3/10	16.8	36.1	33.5
PCB156+157	5/5	1,720	81,300	35,500	15/15	798	830,000	182,000	5/5	4,460	289,000	85,100	4/10	2,040	12,200	2,790
PCB158	5/5	1,500	72,700	32,300	15/15	783	919,000	197,000	5/5	3,840	281,000	81,800	6/10	891	10,800	2,550
PCB159	3/5	111	4,480	1,680	14/15	51.3	53,000	11,200	3/5	190	13,100	3,170	5/10	68.5	427	123
PCB160	0/5	--	--	332	0/15	--	--	985	0/5	--	--	541	0/10	--	--	26.9
PCB161	0/5	--	--	314	0/15	--	--	926	0/5	--	--	507	0/10	--	--	26
PCB162	3/5	78.5	1,290	1,010	9/15	1,030	27,700	6,150	2/5	178	3,970	1,880	3/10	45.8	626	107
PCB164	5/5	943	50,100	22,400	15/15	649	535,000	111,000	5/5	2,360	170,000	49,800	6/10	587	7,180	1,690
PCB165	0/5	--	--	346	0/15	--	--	1,050	0/5	--	--	562	0/10	--	--	29.6
PCB167	5/5	874	35,200	16,400	15/15	383	319,000	71,200	5/5	1,780	124,000	35,900	10/10	430	5,280	1,390
PCB169	0/5	--	--	339	1/15	1,250	1,250	839	0/5	--	--	413	0/10	--	--	30.4
PCB170	5/5	3,720	139,000	68,500	15/15	1,360	1,450,000	310,000	5/5	7,100	400,000	117,000	10/10	1,540	24,400	6,080
PCB171+173	5/5	1,400	54,800	27,000	15/15	595	653,000	140,000	5/5	2,460	164,000	48,100	10/10	573	8,780	2,160
PCB172	5/5	667	24,700	12,400	15/15	218	208,000	48,000	5/5	998	60,300	17,600	6/10	316	4,030	910
PCB174	5/5	3,060	119,000	58,000	15/15	1,280	1,620,000	343,000	5/5	5,110	340,000	101,000	10/10	1,350	19,400	4,930

Table B-10
Summary Statistics for Polychlorinated Biphenyl Congeners in Edible Clam Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB175	3/5	169	6,410	2,290	14/15	51.9	50,400	11,300	5/5	224	15,300	4,270	6/10	66.1	776	175
PCB176	5/5	479	16,500	8,140	15/15	172	209,000	42,300	5/5	598	42,400	12,200	8/10	140	1,830	432
PCB177	5/5	2,270	87,300	43,500	15/15	891	962,000	211,000	5/5	3,470	227,000	67,000	10/10	918	13,100	3,340
PCB178	5/5	1,010	40,400	19,800	15/15	476	339,000	79,700	5/5	1,280	96,000	27,600	10/10	420	6,170	1,590
PCB179	5/5	1,710	68,000	32,900	15/15	791	711,000	158,000	5/5	1,990	151,000	45,000	10/10	645	8,300	2,130
PCB180+193	5/5	8,420	289,000	146,000	15/15	2,410	2,840,000	605,000	5/5	13,900	821,000	235,000	10/10	3,950	43,300	11,800
PCB181	3/5	47.2	1,710	749	8/15	758	20,400	4,800	1/5	74.1	74.1	639	0/10	--	--	51.5
PCB182	2/5	55.8	2,210	669	10/15	32.3	16,200	3,960	1/5	204	204	314	2/10	90.1	273	63.4
PCB183	5/5	2,960	113,000	55,300	15/15	1,160	1,210,000	265,000	5/5	4,780	340,000	97,000	10/10	1,360	19,200	4,940
PCB184	4/5	62.2	1,610	857	4/15	142	3,180	489	0/5	--	--	154	0/10	--	--	16.6
PCB185	4/5	3,960	12,100	6,000	12/15	1,420	155,000	30,700	4/5	1,310	38,900	11,400	7/10	143	1,310	382
PCB186	0/5	--	--	135	0/15	--	--	230	0/5	--	--	159	0/10	--	--	17
PCB187	5/5	8,160	303,000	151,000	15/15	3,800	2,840,000	631,000	5/5	10,500	776,000	225,000	10/10	3,620	51,700	13,100
PCB188	3/5	657	1,740	879	6/15	275	5,070	840	0/5	--	--	146	2/10	157	202	43.7
PCB189	3/5	141	5,690	2,100	13/15	55.1	37,400	8,080	4/5	234	14,600	3,610	4/10	70.9	117	87.8
PCB190	5/5	690	25,700	13,300	15/15	315	314,000	65,800	5/5	1,480	76,000	22,200	8/10	340	5,620	1,380
PCB191	5/5	190	6,670	3,310	12/15	71.5	68,900	14,700	4/5	678	19,000	5,680	5/10	83.7	1,330	271
PCB192	0/5	--	--	222	0/15	--	--	866	0/5	--	--	479	0/10	--	--	41.2
PCB194	5/5	1,210	42,100	21,600	15/15	274	323,000	66,200	5/5	2,220	109,000	30,200	10/10	576	5,440	1,650
PCB195	5/5	610	27,100	13,500	15/15	394	334,000	62,100	5/5	1,390	82,400	23,300	10/10	410	6,010	1,510
PCB196	5/5	1,250	43,400	22,100	15/15	471	434,000	93,500	5/5	1,810	116,000	32,800	10/10	602	7,640	2,010
PCB197	4/5	427	15,300	6,640	13/15	105	56,900	13,500	3/5	257	6,680	3,280	9/10	102	1,160	307
PCB198+199	5/5	2,350	88,700	44,700	15/15	1,200	807,000	178,000	5/5	3,450	229,000	66,300	10/10	1,230	17,400	4,490
PCB200	3/5	212	8,330	3,180	14/15	118	97,700	20,900	5/5	296	23,300	6,780	8/10	107	1,390	340
PCB201	5/5	321	10,200	5,320	14/15	78.3	74,900	15,400	3/5	255	7,050	3,620	6/10	209	916	261
PCB202	4/5	619	24,400	11,000	15/15	254	147,000	35,600	5/5	776	50,700	14,600	9/10	280	2,230	760
PCB203	5/5	1,870	68,700	34,600	15/15	791	628,000	140,000	5/5	3,140	200,000	56,900	10/10	1,030	13,900	3,600
PCB204	2/5	439	582	451	2/15	694	1,720	384	0/5	--	--	212	0/10	--	--	16.1
PCB205	3/5	95.1	1,260	1,070	13/15	42.4	29,200	5,680	5/5	130	9,090	2,610	3/10	130	592	128

Table B-10
Summary Statistics for Polychlorinated Biphenyl Congeners in Edible Clam Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB206	5/5	1,460	46,100	24,400	14/15	509	234,000	62,200	5/5	1,780	125,000	35,700	10/10	567	7,810	2,030
PCB207	5/5	1,600	43,700	24,100	14/15	350	182,000	37,800	5/5	758	60,100	17,100	10/10	259	3,600	937
PCB208	5/5	1,460	53,500	28,600	14/15	456	144,000	36,900	5/5	1,010	68,400	19,700	10/10	277	5,090	1,270
PCB209	5/5	22,400	820,000	445,000	15/15	8,680	2,430,000	650,000	5/5	15,800	1,110,000	314,000	10/10	2,490	54,400	13,200

Notes

FCA = fish collection area

lw = lipid weight

-- = not applicable, no detected values

a - Mean calculation includes detected and non-detected values. Non-detected values were set at one-half the detection limit.

b - PCB###+#### indicates a co-elution of two or more PCB congeners.

Table B-11
Summary Statistics for Dioxins and Furans in Whole Gulf Killifish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
Gulf Killifish - Whole																
Dioxins/Furans (ng/kg - lw)																
2,3,7,8-TCDD	0/2	--	--	44.3	3/6	128	255	98.5	0/2	--	--	2.4	0/8	--	--	2.39
1,2,3,7,8-PeCDD	0/2	--	--	12.7	0/6	--	--	19.4	0/2	--	--	0.734	0/8	--	--	0.811
1,2,3,4,7,8-HxCDD	0/2	--	--	13.9	0/6	--	--	18.8	0/2	--	--	0.361	0/8	--	--	0.768
1,2,3,6,7,8-HxCDD	0/2	--	--	15.5	0/6	--	--	20.7	0/2	--	--	0.485	0/8	--	--	0.909
1,2,3,7,8,9-HxCDD	0/2	--	--	14.3	0/6	--	--	19.1	0/2	--	--	0.393	0/8	--	--	0.807
1,2,3,4,6,7,8-HpCDD	0/2	--	--	8.38	4/6	2.59	15.7	46.6	2/2	3.64	8.94	6.29	6/8	4.08	31.5	7.9
OCDD	0/2	--	--	213	1/6	42.7	42.7	392	2/2	35.2	58	46.6	4/8	61.5	90.7	68.5
2,3,7,8-TCDF	0/2	--	--	11.7	4/6	26.2	306	106	2/2	6.81	7.2	7	2/8	7.4	35.2	6.24
1,2,3,7,8-PeCDF	0/2	--	--	17.4	0/6	--	--	16.8	0/2	--	--	0.477	0/8	--	--	0.77
2,3,4,7,8-PeCDF	0/2	--	--	17	1/6	5.61	5.61	18.1	0/2	--	--	0.487	0/8	--	--	0.75
1,2,3,4,7,8-HxCDF	0/2	--	--	8.26	1/6	7.11	7.11	11.4	0/2	--	--	0.38	0/8	--	--	0.583
1,2,3,6,7,8-HxCDF	0/2	--	--	7.86	1/6	1.86	1.86	10.1	0/2	--	--	0.365	0/8	--	--	0.558
1,2,3,7,8,9-HxCDF	0/2	--	--	9.11	0/6	--	--	11.5	0/2	--	--	0.521	0/8	--	--	0.672
2,3,4,6,7,8-HxCDF	0/2	--	--	8.3	0/6	--	--	10.5	0/2	--	--	0.418	0/8	--	--	0.596
1,2,3,4,6,7,8-HpCDF	0/2	--	--	13.2	0/6	--	--	14	0/2	--	--	0.426	1/8	7.2	7.2	1.53
1,2,3,4,7,8,9-HpCDF	0/2	--	--	15.6	0/6	--	--	18.5	0/2	--	--	0.544	0/8	--	--	1.05
OCDF	0/2	--	--	14.8	0/6	--	--	20.2	0/2	--	--	0.781	1/8	39.5	39.5	5.76
TEQ_{DF} [b]	0/2	--	--	72	5/6	5.53	270	146	2/2	3.64	5.11	4.38	7/8	0.905	17.1	4.69
TEQ_{DFP} [c]	2/2	56.2	736	396	6/6	41.7	3,240	700	2/2	9.32	9.77	9.55	8/8	4.59	40.9	15
TEQ_{P} [d]	2/2	47.5	600	324	6/6	29.6	2,960	554	2/2	4.66	5.71	5.19	8/8	3.3	23.8	10.3
Polychlorinated Biphenyls (µg/kg - lw)																
Total PCBs [e]	2/2	2,600	63,200	32,900	6/6	1,390	139,000	27,000	2/2	389	440	415	8/8	178	1,800	616

Notes

FCA = fish collection area
lw = lipid weight
-- = not applicable, no detected values

a - Mean calculation includes detected and non-detected values. Non-detected values were set at one-half the detection limit.
b - Toxicity equivalent for dioxins and furans calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
c - Toxicity equivalent for dioxins, furans and polychlorinated biphenyls calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
b - Toxicity equivalent for polychlorinated biphenyls calculated using mammalian toxicity equivalency factors (TEFs) with non-detects set at one-half the detection limit.
e - Total polychlorinated biphenyls calculated as the sum of all 209 congeners with non-detects set at one-half the detection limit.

Table B-12
Summary Statistics for Polychlorinated Biphenyl Congeners in Whole Gulf Killifish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
Gulf Killifish - Whole																
Polychlorinated Biphenyl Congeners [b] (ng/kg - lw)																
PCB001	2/2	527	12,500	6,520	6/6	1,110	38,600	11,900	1/2	52.4	52.4	44.4	7/8	60.8	408	143
PCB002	0/2	--	--	533	0/6	--	--	685	0/2	--	--	10.5	3/8	53.4	260	68.5
PCB003	0/2	--	--	599	4/6	186	16,100	2,900	0/2	--	--	11.8	5/8	56.3	153	84.4
PCB004	1/2	2,360	2,360	13,900	4/6	6,140	32,400	25,900	1/2	265	265	412	0/8	--	--	391
PCB005	0/2	--	--	816	0/6	--	--	1,310	0/2	--	--	65.4	0/8	--	--	47.2
PCB006	2/2	799	18,500	9,630	6/6	907	73,600	13,900	0/2	--	--	94.9	5/8	211	941	331
PCB007	0/2	--	--	743	3/6	281	1,330	1,510	0/2	--	--	61.2	1/8	194	194	61.1
PCB008	0/2	--	--	33,500	4/6	12,500	55,000	65,900	2/2	465	538	501	1/8	446	446	1,130
PCB009	1/2	207	207	792	3/6	442	1,870	1,630	0/2	--	--	59.2	1/8	254	254	67.3
PCB010	1/2	197	197	1,480	2/6	282	1,180	3,550	0/2	--	--	213	0/8	--	--	71.2
PCB011	0/2	--	--	120,000	0/6	--	--	149,000	0/2	--	--	649	0/8	--	--	4,710
PCB012+013	0/2	--	--	734	0/6	--	--	1,160	0/2	--	--	59	0/8	--	--	43.4
PCB014	0/2	--	--	700	0/6	--	--	1,110	0/2	--	--	56.9	0/8	--	--	40.9
PCB015	1/2	45,300	45,300	23,000	5/6	1,200	238,000	41,900	0/2	--	--	63.3	4/8	476	2,710	795
PCB016	2/2	4,380	101,000	52,600	6/6	1,670	366,000	65,600	2/2	331	431	381	7/8	345	3,680	1,290
PCB017	2/2	5,790	131,000	68,300	6/6	2,170	502,000	90,400	2/2	506	690	598	0/8	--	--	970
PCB018+030	2/2	11,400	257,000	134,000	5/6	3,900	29,200	57,000	2/2	873	1,210	1,040	0/8	--	--	1,640
PCB019	0/2	--	--	10,700	0/6	--	--	12,900	1/2	205	205	152	2/8	257	267	354
PCB020+028	2/2	39,300	796,000	418,000	6/6	15,100	3,280,000	586,000	2/2	5,030	6,100	5,560	1/8	3,250	3,250	5,540
PCB021+033	0/2	--	--	23,000	0/6	--	--	41,100	0/2	--	--	173	0/8	--	--	749
PCB022	0/2	--	--	36,500	0/6	--	--	55,100	1/2	1,030	1,030	755	0/8	--	--	983
PCB023	0/2	--	--	999	0/6	--	--	1,230	0/2	--	--	23.4	0/8	--	--	37.8
PCB024	2/2	222	5,040	2,630	4/6	83.4	13,500	2,450	0/2	--	--	11.8	3/8	57.8	93	42
PCB025	2/2	1,270	28,700	15,000	4/6	919	121,000	21,700	2/2	203	224	213	2/8	128	152	231
PCB026+029	2/2	4,470	96,000	50,300	6/6	1,210	344,000	62,100	2/2	483	554	518	2/8	360	431	595
PCB027	2/2	1,970	38,900	20,400	6/6	564	122,000	22,200	2/2	152	187	170	2/8	159	199	250
PCB031	1/2	13,500	13,500	78,500	2/6	8,260	40,000	111,000	1/2	1,650	1,650	1,300	0/8	--	--	2,020
PCB032	1/2	7,080	7,080	40,700	2/6	2,540	16,100	43,200	2/2	694	742	718	0/8	--	--	638
PCB034	0/2	--	--	945	1/6	434	434	1,190	0/2	--	--	21.3	0/8	--	--	34.8
PCB035	0/2	--	--	945	0/6	--	--	1,120	0/2	--	--	20.9	0/8	--	--	35.1
PCB036	0/2	--	--	907	0/6	--	--	1,050	0/2	--	--	20	0/8	--	--	33.1

Table B-12
Summary Statistics for Polychlorinated Biphenyl Congeners in Whole Gulf Killifish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB037	0/2	--	--	13,800	0/6	--	--	20,400	0/2	--	--	115	0/8	--	--	439
PCB038	0/2	--	--	945	0/6	--	--	1,160	0/2	--	--	21.4	0/8	--	--	35.1
PCB039	0/2	--	--	950	0/6	--	--	1,160	0/2	--	--	21.3	0/8	--	--	35.1
PCB040+041+071	2/2	18,200	400,000	209,000	6/6	7,620	1,240,000	225,000	2/2	2,140	2,640	2,390	2/8	1,230	1,680	2,000
PCB042	2/2	9,090	194,000	102,000	6/6	3,640	698,000	126,000	2/2	1,110	1,190	1,150	7/8	629	5,780	1,970
PCB043+073	2/2	1,180	26,000	13,600	3/6	2,600	80,700	14,500	1/2	176	176	127	4/8	112	330	184
PCB044+047+065	2/2	76,600	1,560,000	817,000	6/6	28,300	4,930,000	886,000	2/2	6,350	7,080	6,720	8/8	5,220	41,000	15,700
PCB045+051	2/2	4,250	114,000	59,100	6/6	1,930	393,000	70,600	2/2	635	679	657	7/8	356	3,060	1,060
PCB046	2/2	799	20,000	10,400	3/6	281	1,720	6,610	1/2	100	100	79.9	4/8	76.4	287	151
PCB048	2/2	2,600	78,700	40,600	5/6	1,110	246,000	44,300	1/2	442	442	329	4/8	393	2,340	700
PCB049+069	2/2	50,100	1,120,000	585,000	6/6	22,500	3,440,000	626,000	2/2	4,890	5,640	5,260	8/8	4,140	31,400	11,800
PCB050+053	2/2	6,470	169,000	87,600	6/6	2,970	634,000	113,000	2/2	740	826	783	8/8	995	9,350	2,530
PCB052	2/2	87,700	1,910,000	997,000	6/6	41,700	5,810,000	1,070,000	2/2	7,860	9,320	8,590	6/8	6,700	58,100	17,200
PCB054	1/2	3,750	3,750	1,910	6/6	53.1	13,900	2,510	0/2	--	--	5.91	1/8	59.4	59.4	29.3
PCB055	0/2	--	--	505	0/6	--	--	981	0/2	--	--	7.41	0/8	--	--	20.5
PCB056	2/2	4,600	111,000	57,900	6/6	1,280	406,000	73,700	2/2	858	1,100	980	0/8	--	--	588
PCB057	0/2	--	--	449	1/6	285	285	879	0/2	--	--	6.72	0/8	--	--	18.4
PCB058	0/2	--	--	467	3/6	74.2	15,800	3,240	0/2	--	--	6.91	0/8	--	--	19
PCB059+062+075	2/2	6,620	133,000	70,000	6/6	2,420	436,000	78,300	2/2	677	864	770	8/8	481	3,530	1,380
PCB060	2/2	9,740	209,000	110,000	6/6	3,770	661,000	119,000	2/2	1,990	3,380	2,690	8/8	683	6,230	2,360
PCB061+070+074+076	2/2	76,600	1,580,000	831,000	6/6	23,300	4,710,000	849,000	2/2	9,460	12,100	10,800	8/8	5,140	43,000	16,500
PCB063	2/2	2,810	57,000	29,900	6/6	992	171,000	30,900	2/2	371	508	440	7/8	188	1,650	607
PCB064	2/2	25,300	521,000	273,000	6/6	12,600	1,740,000	316,000	2/2	3,020	4,140	3,580	8/8	1,830	14,900	5,570
PCB066	2/2	76,600	1,620,000	847,000	6/6	21,600	4,010,000	722,000	2/2	9,110	14,300	11,700	8/8	4,650	39,200	15,300
PCB067	0/2	--	--	1,910	3/6	540	24,300	4,380	0/2	--	--	15.7	0/8	--	--	26.1
PCB068	2/2	1,680	27,900	14,800	6/6	460	84,300	15,200	1/2	105	105	72.5	7/8	104	993	352
PCB072	2/2	1,580	31,100	16,400	6/6	452	85,000	15,200	2/2	107	110	109	7/8	79.9	778	267
PCB077	2/2	1,890	39,800	20,900	6/6	588	138,000	24,800	2/2	364	589	476	0/8	--	--	214
PCB078	0/2	--	--	935	0/6	--	--	953	0/2	--	--	15.5	0/8	--	--	25.7
PCB079	2/2	266	6,450	3,360	4/6	441	1,110	1,720	2/2	60.8	133	97	4/8	39.8	182	65.3
PCB080	0/2	--	--	839	0/6	--	--	827	0/2	--	--	14	0/8	--	--	23
PCB081	0/2	--	--	1,050	0/6	--	--	990	0/2	--	--	16.5	0/8	--	--	28.1
PCB082	0/2	--	--	12,700	4/6	2,240	10,300	16,700	1/2	519	519	368	0/8	--	--	318

Table B-12
Summary Statistics for Polychlorinated Biphenyl Congeners in Whole Gulf Killifish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB083+099	2/2	155,000	3,300,000	1,730,000	6/6	60,600	6,680,000	1,280,000	2/2	15,800	18,800	17,300	8/8	7,850	84,400	28,200
PCB084	0/2	--	--	38,000	3/6	8,990	28,400	45,000	0/2	--	--	419	0/8	--	--	888
PCB085+116	2/2	21,000	389,000	205,000	6/6	11,400	1,040,000	206,000	2/2	3,730	4,910	4,320	8/8	1,370	15,200	4,710
PCB086+087++097+109+119+125	2/2	41,400	842,000	441,000	6/6	28,900	2,440,000	484,000	2/2	6,890	9,150	8,020	1/8	38,700	38,700	8,170
PCB088+091	2/2	13,400	266,000	140,000	6/6	8,180	793,000	153,000	2/2	1,630	1,930	1,780	6/8	916	9,720	2,900
PCB089	1/2	276	276	1,590	3/6	291	877	1,780	1/2	51.3	51.3	38.5	0/8	--	--	22.5
PCB090+101+113	2/2	105,000	2,260,000	1,180,000	6/6	66,100	6,700,000	1,330,000	2/2	18,200	21,100	19,600	7/8	8,650	95,000	27,900
PCB092	2/2	20,800	542,000	281,000	6/6	13,700	1,200,000	243,000	2/2	3,250	4,300	3,770	8/8	1,640	18,700	5,820
PCB093+100	2/2	4,340	77,700	41,000	6/6	1,480	189,000	34,800	2/2	237	251	244	8/8	265	2,200	910
PCB094	2/2	455	9,250	4,850	5/6	236	21,900	4,010	0/2	--	--	21	4/8	45.9	160	70.4
PCB095	1/2	45,000	45,000	281,000	5/6	31,900	171,000	349,000	1/2	7,350	7,350	5,130	0/8	--	--	6,820
PCB096	1/2	4,740	4,740	2,400	3/6	142	12,400	2,190	0/2	--	--	8.8	1/8	91.7	91.7	26.9
PCB098+102	2/2	2,120	43,600	22,900	5/6	1090	119,000	22,200	2/2	249	308	278	5/8	132	1,310	400
PCB103	2/2	1,760	40,600	21,200	6/6	788	106,000	19,900	2/2	125	166	146	7/8	152	1,290	461
PCB104	0/2	--	--	293	0/6	--	--	436	0/2	--	--	4.1	0/8	--	--	12
PCB105	2/2	41,100	972,000	506,000	6/6	23,300	2,140,000	418,000	2/2	9,470	10,800	10,100	8/8	2,960	38,100	11,200
PCB106	0/2	--	--	424	0/6	--	--	548	0/2	--	--	25.9	0/8	--	--	30.2
PCB107	2/2	11,900	208,000	110,000	6/6	6,140	643,000	124,000	2/2	2,090	2,320	2,210	8/8	918	8,530	2,750
PCB108+124	1/2	1,480	1,480	6,590	5/6	1,120	108,000	20,000	1/2	300	300	209	1/8	198	198	217
PCB110+115	2/2	79,200	1,580,000	827,000	6/6	61,400	5,010,000	1,000,000	2/2	15,000	19,200	17,100	2/8	9,980	81,800	17,800
PCB111	1/2	352	352	1,530	1/6	848	848	1,240	0/2	--	--	21.5	0/8	--	--	33.9
PCB112	0/2	--	--	1,250	0/6	--	--	1,000	0/2	--	--	19.9	0/8	--	--	30.9
PCB114	2/2	2,750	72,100	37,400	6/6	1,390	132,000	25,900	2/2	578	651	615	6/8	230	2,560	682
PCB117	2/2	4,210	91,300	47,800	4/6	10,300	269,000	51,500	2/2	593	898	746	5/8	296	1,150	648
PCB118	2/2	143,000	3,510,000	1,830,000	6/6	66,500	6,790,000	1,310,000	2/2	27,000	30,700	28,800	8/8	9,350	109,000	33,200
PCB120	2/2	1,890	32,500	17,200	6/6	614	76,400	14,300	1/2	133	133	96.4	6/8	94	970	304
PCB121	0/2	--	--	1,390	0/6	--	--	1,060	0/2	--	--	22	0/8	--	--	33.9
PCB122	0/2	--	--	472	0/6	--	--	606	0/2	--	--	28	0/8	--	--	33.1
PCB123	2/2	2,030	58,100	30,100	4/6	2,830	5,670	9,960	2/2	389	522	456	4/8	167	1,820	427
PCB126	1/2	396	396	2,010	5/6	253	25,400	4,730	0/2	--	--	32.6	3/8	73.8	122	78.4
PCB127	0/2	--	--	455	2/6	522	703	808	0/2	--	--	26.9	0/8	--	--	32.2
PCB128+166	2/2	29,100	757,000	393,000	6/6	18,500	1,340,000	283,000	2/2	6,060	6,340	6,200	8/8	2,130	21,200	6,990

Table B-12
Summary Statistics for Polychlorinated Biphenyl Congeners in Whole Gulf Killifish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB129+138+163	2/2	222,000	5,790,000	3,010,000	6/6	125,000	10,100,000	2,080,000	2/2	42,500	46,400	44,400	8/8	14,900	154,000	50,700
PCB130	2/2	9,810	213,000	112,000	6/6	6,650	505,000	107,000	2/2	1,910	2,210	2,060	8/8	659	7,500	2,320
PCB131	0/2	--	--	940	0/6	--	--	1,080	0/2	--	--	20.3	0/8	--	--	34.3
PCB132	1/2	11,900	11,900	67,300	4/6	11,800	59,700	103,000	2/2	2,790	3,430	3,110	0/8	--	--	2,100
PCB133	2/2	4,690	123,000	63,700	6/6	2,430	218,000	44,200	2/2	714	773	744	8/8	302	2,790	993
PCB134	0/2	--	--	7,780	4/6	1,580	8,200	12,900	1/2	344	344	252	0/8	--	--	275
PCB135+151	2/2	28,700	704,000	366,000	6/6	20,300	1,510,000	325,000	2/2	4,890	7,220	6,060	6/8	2,200	22,700	7190
PCB136	0/2	--	--	25,400	3/6	10,200	19,000	32,200	1/2	647	647	463	0/8	--	--	649
PCB137	2/2	8,310	219,000	114,000	6/6	5,720	401,000	87,400	2/2	2,220	2,500	2,360	8/8	639	7,650	2360
PCB139+140	2/2	3,180	67,900	35,600	6/6	1,920	134,000	28,900	2/2	590	669	630	7/8	188	2,070	663
PCB141	2/2	12,900	330,000	172,000	6/6	12,700	836,000	180,000	2/2	3,560	4,220	3,890	4/8	1,450	16,100	3,740
PCB142	0/2	--	--	974	0/6	--	--	1,070	0/2	--	--	20.7	0/8	--	--	35.5
PCB143	0/2	--	--	844	0/6	--	--	1,010	0/2	--	--	19.5	0/8	--	--	31.1
PCB144	2/2	2,920	72,500	37,700	5/6	2,230	17,000	22,500	1/2	1,640	1,640	986	0/8	--	--	545
PCB145	0/2	--	--	429	0/6	--	--	276	0/2	--	--	4.56	0/8	--	--	14.3
PCB146	2/2	48,100	1,190,000	617,000	6/6	21,400	2,000,000	404,000	2/2	6,660	7,210	6,940	8/8	2,850	27,300	9,450
PCB147+149	2/2	57,800	1,170,000	616,000	6/6	44,100	3,520,000	725,000	2/2	10,800	13,400	12,100	2/8	6,650	47,700	11,400
PCB148	2/2	675	11,400	6,030	4/6	687	31,600	5,850	2/2	44.3	55.5	49.9	7/8	33.3	275	122
PCB150	2/2	273	6,110	3,190	6/6	159	19,900	3,670	0/2	--	--	10.2	4/8	33	127	49.7
PCB152	1/2	71.4	71.4	415	1/6	156	156	288	0/2	--	--	4.17	0/8	--	--	12.9
PCB153+168	2/2	275,000	7,250,000	3,760,000	6/6	130,000	11,100,000	2,270,000	2/2	42,700	43,300	43,000	8/8	16,400	160,000	56,200
PCB154	2/2	7,730	161,000	84,400	6/6	2,340	292,000	55,400	2/2	601	616	609	8/8	394	3,490	1,400
PCB155	2/2	456	9,960	5,210	3/6	111	654	1,310	0/2	--	--	6.03	5/8	17.9	165	56.9
PCB156+157	2/2	18,200	502,000	260,000	6/6	10,700	850,000	176,000	2/2	4,700	4,830	4,770	8/8	1,320	16,200	4,940
PCB158	2/2	16,500	451,000	234,000	6/6	10,500	729,000	156,000	2/2	3,380	3,810	3,590	8/8	1,210	14,100	4,310
PCB159	2/2	358	8,450	4410	5/6	314	19,800	4,210	1/2	67.8	67.8	51.7	4/8	73.3	263	89.8
PCB160	0/2	--	--	738	0/6	--	--	915	0/2	--	--	15	0/8	--	--	26.8
PCB161	0/2	--	--	675	0/6	--	--	783	0/2	--	--	14.7	0/8	--	--	24.7
PCB162	1/2	942	942	5,110	5/6	572	64,400	12,200	2/2	202	230	216	3/8	56.4	205	127
PCB164	2/2	5,550	115,000	60,500	6/6	4,660	350,000	72,800	2/2	1,300	1,610	1,450	5/8	735	5,590	1,590
PCB165	0/2	--	--	757	0/6	--	--	895	0/2	--	--	18	0/8	--	--	28.2
PCB167	2/2	9,480	274,000	142,000	6/6	5,080	418,000	85,200	2/2	2,160	2,180	2,170	8/8	635	7,010	2,280
PCB169	0/2	--	--	1,180	0/6	--	--	606	0/2	--	--	15.5	0/8	--	--	28.8

Table B-12
Summary Statistics for Polychlorinated Biphenyl Congeners in Whole Gulf Killifish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB170	2/2	39,700	1,260,000	651,000	6/6	22,700	1,810,000	369,000	2/2	7,030	7,400	7,220	8/8	2,530	23,900	8,980
PCB171+173	2/2	13,000	340,000	176,000	6/6	7,290	588,000	121,000	2/2	1,970	1,990	1,980	8/8	705	6,330	2,570
PCB172	2/2	7,920	228,000	118,000	6/6	4,070	367,000	74,900	2/2	895	1,190	1,040	8/8	442	4,410	1,560
PCB174	2/2	10,000	230,000	120,000	6/6	9,360	639,000	136,000	2/2	1,860	2,520	2,190	6/8	726	7,840	2,660
PCB175	2/2	1,500	39,800	20,700	5/6	1,760	54,600	11,500	2/2	249	288	269	5/8	129	818	291
PCB176	1/2	1,100	1,100	5,550	6/6	962	62,600	13,200	2/2	203	217	210	4/8	130	510	208
PCB177	2/2	19,000	489,000	254,000	6/6	11,400	1,010,000	211,000	2/2	2,530	2,760	2,650	8/8	1,040	8,170	3,180
PCB178	2/2	12,600	328,000	170,000	6/6	6,440	599,000	123,000	2/2	1,660	1,700	1,680	8/8	761	6,330	2,620
PCB179	2/2	4,100	86,200	45,200	6/6	3,650	279,000	58,200	2/2	655	762	708	5/8	318	1,900	811
PCB180+193	2/2	116,000	3,550,000	1,830,000	6/6	55,900	4,810,000	990,000	2/2	17,400	18,100	17,700	8/8	6,790	61,000	23,600
PCB181	1/2	481	481	2,470	5/6	344	2,460	3,130	1/2	103	103	73.9	4/8	162	365	124
PCB182	1/2	525	525	2,620	4/6	823	1,360	3,170	2/2	91.5	98.4	95	4/8	61.1	367	110
PCB183	2/2	31,900	875,000	454,000	6/6	15,700	1,340,000	277,000	2/2	4,610	5,470	5,040	8/8	1,890	18,500	6,970
PCB184	1/2	316	316	1,180	2/6	208	11,900	2,060	0/2	--	--	7.83	1/8	58.9	58.9	24.4
PCB185	2/2	1,400	29,800	15,600	6/6	1,040	114,000	22,900	1/2	267	267	144	4/8	131	452	250
PCB186	0/2	--	--	381	0/6	--	--	392	0/2	--	--	5.79	0/8	--	--	14.5
PCB187	2/2	94,800	2,380,000	1,240,000	6/6	44,900	4,070,000	836,000	2/2	12,000	12,900	12,400	8/8	5,430	47,200	19,400
PCB188	2/2	347	7,580	3,970	5/6	117	13,900	2,570	1/2	31.4	31.4	17.9	4/8	25.9	147	48
PCB189	2/2	1,260	31,500	16,400	6/6	555	43,400	8,890	2/2	161	170	165	5/8	69	722	202
PCB190	2/2	5,900	183,000	94,500	6/6	2,770	246,000	50,400	2/2	656	873	765	8/8	404	3,680	1,250
PCB191	2/2	2,070	60,400	31,200	6/6	1,000	82,900	17,000	2/2	347	376	362	5/8	161	1,360	454
PCB192	0/2	--	--	1,110	0/6	--	--	588	0/2	--	--	22.3	0/8	--	--	27.4
PCB194	2/2	11,000	451,000	231,000	6/6	5,550	435,000	90,600	2/2	1,670	1,870	1,770	8/8	899	8,990	3,350
PCB195	2/2	6,310	221,000	114,000	6/6	2,900	272,000	56,000	2/2	932	1,040	986	8/8	508	4,680	1,950
PCB196	2/2	13,600	398,000	206,000	6/6	6,440	582,000	118,000	2/2	1,720	1,910	1,820	8/8	935	8,010	3,510
PCB197	2/2	2,680	67,900	35,300	6/6	822	106,000	20,400	2/2	209	264	237	7/8	145	1,030	463
PCB198+199	2/2	29,200	815,000	422,000	6/6	14,200	1,340,000	273,000	2/2	3,700	4,020	3,860	8/8	2,120	16,100	7,520
PCB200	1/2	429	429	2,590	5/6	408	34,100	6,730	2/2	57.3	79.6	68.4	4/8	34.9	319	91.1
PCB201	2/2	3,550	101,000	52,200	6/6	1,640	159,000	32,400	2/2	440	445	442	7/8	213	1,680	773
PCB202	2/2	5,860	167,000	86,200	6/6	2,420	282,000	55,200	2/2	690	815	753	8/8	399	3,410	1,580
PCB203	2/2	13,700	440,000	227,000	6/6	6,400	592,000	120,000	2/2	1,540	1,740	1,640	8/8	1,260	10,400	3,880
PCB204	2/2	180	4,190	2,180	2/6	104	249	646	0/2	--	--	8.28	0/8	--	--	20.8
PCB205	2/2	350	11,800	6,070	3/6	422	1,150	1,400	0/2	--	--	12.1	1/8	257	257	51.1

Table B-12
Summary Statistics for Polychlorinated Biphenyl Congeners in Whole Gulf Killifish Tissue by FCA, Lipid Normalized

	FCA1				FCA2				FCA3				Background			
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]
PCB206	2/2	4,350	127,000	65,500	5/6	1,930	159,000	30,100	2/2	398	454	426	7/8	477	4,790	1,530
PCB207	2/2	4,900	165,000	85,200	6/6	1,390	226,000	41,400	2/2	382	487	434	7/8	344	3,130	1,160
PCB208	2/2	5,900	174,000	90,000	6/6	1,760	277,000	50,400	2/2	391	495	443	6/8	374	3,560	1,160
PCB209	2/2	58,000	1,650,000	853,000	6/6	12,300	2,480,000	446,000	2/2	2,520	4,040	3,280	8/8	2,980	31,900	10,800

Notes

FCA = fish collection area

lw = lipid weight

-- = not applicable, no detected values

a - Mean calculation includes detected and non-detected values. Non-detected values were set at one-half the detection limit.

b - PCB###+#### indicates a co-elution of two or more PCB congeners.

Table B-13
Summary Statistics for Polychlorinated Biphenyls in Edible Blue Crab Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
Blue Crab - Edible																				
Polychlorinated Biphenyls (ng/kg - ww)																				
PCB001	0/10	--	--	0.717	NA	0/10	--	--	0.971	NA	2/10	1.32	2.57	1.18	NA	0/10	--	--	0.735	NA
PCB002	0/10	--	--	0.741	NA	0/10	--	--	0.949	NA	0/10	--	--	0.749	NA	0/10	--	--	0.773	NA
PCB003	0/10	--	--	0.858	NA	0/10	--	--	1.11	NA	2/10	1.97	1.97	1.26	NA	0/10	--	--	0.902	NA
PCB004	0/10	--	--	2.7	NA	0/10	--	--	5.94	NA	0/10	--	--	17.7	NA	0/10	--	--	5.9	NA
PCB005	0/10	--	--	2.73	NA	0/10	--	--	2.83	NA	0/10	--	--	5.9	NA	0/10	--	--	2.61	NA
PCB006	0/10	--	--	2.27	NA	0/10	--	--	2.4	NA	0/10	--	--	5.41	NA	0/10	--	--	2.23	NA
PCB007	0/10	--	--	2.36	NA	0/10	--	--	2.57	NA	0/10	--	--	5.83	NA	0/10	--	--	2.34	NA
PCB008	0/10	--	--	2.74	NA	7/10	7.13	46.7	14.9	NA	0/10	--	--	8.78	NA	0/10	--	--	3.45	NA
PCB009	0/10	--	--	2.32	NA	0/10	--	--	2.48	NA	0/10	--	--	5.44	NA	0/10	--	--	2.28	NA
PCB010	0/10	--	--	2.1	NA	0/10	--	--	4.56	NA	0/10	--	--	13.3	NA	0/10	--	--	4.38	NA
PCB011	0/10	--	--	50	NA	0/10	--	--	35.8	NA	0/10	--	--	59.2	NA	0/10	--	--	46.7	NA
PCB012+013	0/10	--	--	2.35	NA	0/10	--	--	2.42	NA	0/10	--	--	5.44	NA	0/10	--	--	2.28	NA
PCB014	0/10	--	--	2.24	NA	0/10	--	--	2.34	NA	0/10	--	--	5.26	NA	0/10	--	--	2.18	NA
PCB015	4/10	21.5	55.2	15.5	NA	10/10	48.1	159	83.9	NA	6/10	33.1	83.4	41.8	NA	0/10	--	--	2.9	NA
PCB016	0/10	--	--	1.56	NA	0/10	--	--	1.68	NA	0/10	--	--	1.87	NA	0/10	--	--	1.66	NA
PCB017	0/10	--	--	1.84	NA	5/10	2.93	7.17	4.59	NA	1/10	12.7	12.7	3.88	NA	0/10	--	--	1.69	NA
PCB018+030	0/10	--	--	3.07	NA	2/10	6.39	17.8	6.4	NA	0/10	--	--	5.59	NA	0/10	--	--	2.62	NA
PCB019	0/10	--	--	0.967	NA	0/10	--	--	1.14	NA	3/10	1.29	3.09	1.24	NA	1/10	1.09	1.09	1	NA
PCB020+028	10/10	32.7	487	110	NA	10/10	221	484	326	NA	10/10	158	346	247	NA	9/10	56.6	92.2	68.1	NA
PCB021+033	0/10	--	--	2.53	NA	1/10	6.94	6.94	3.4	NA	0/10	--	--	3.76	NA	0/10	--	--	2.23	NA
PCB022	6/10	5.01	29.5	6.88	NA	9/10	8.79	26.2	16.3	NA	8/10	12.8	31.1	15.8	NA	1/10	2.23	2.23	1.95	NA
PCB023	0/10	--	--	0.856	NA	0/10	--	--	1.08	NA	0/10	--	--	0.664	NA	0/10	--	--	0.684	NA
PCB024	0/10	--	--	0.902	NA	0/10	--	--	0.997	NA	0/10	--	--	0.645	NA	0/10	--	--	0.798	NA
PCB025	1/10	1.09	1.09	0.768	NA	5/10	3.1	8.19	3.03	NA	4/10	0.751	4.78	1.77	NA	0/10	--	--	0.61	NA
PCB026+029	2/10	2.14	2.88	1.38	NA	4/10	3.21	9.95	4.38	NA	4/10	6.4	8.27	4.09	NA	1/10	1.6	1.6	1.05	NA
PCB027	0/10	--	--	0.803	NA	1/10	3.46	3.46	1.18	NA	4/10	1.6	3.26	1.33	NA	1/10	0.891	0.891	0.771	NA
PCB031	1/10	44.4	44.4	9.3	NA	7/10	25.2	46.7	27.3	NA	7/10	27.7	42.1	25	NA	0/10	--	--	4.54	NA
PCB032	8/10	2.59	13	4.47	NA	9/10	4.71	37.4	12.9	NA	9/10	6.2	16.3	9.5	NA	6/10	1.98	5.3	2.64	NA
PCB034	0/10	--	--	0.807	NA	0/10	--	--	1.02	NA	0/10	--	--	0.59	NA	0/10	--	--	0.632	NA
PCB035	0/10	--	--	0.807	NA	0/10	--	--	1.03	NA	0/10	--	--	0.594	NA	0/10	--	--	0.655	NA
PCB036	0/10	--	--	0.743	NA	0/10	--	--	0.907	NA	0/10	--	--	0.517	NA	0/10	--	--	0.57	NA
PCB037	6/10	3.19	44.9	9.01	NA	8/10	17.4	61.1	27.1	NA	8/10	16	41.1	23	NA	8/10	3.12	4.62	3.24	NA
PCB038	0/10	--	--	0.796	NA	0/10	--	--	1	NA	0/10	--	--	0.59	NA	0/10	--	--	0.643	NA
PCB039	0/10	--	--	0.785	NA	0/10	--	--	0.99	NA	0/10	--	--	0.571	NA	0/10	--	--	0.625	NA
PCB040+041+071	9/10	2.56	23.5	8.51	NA	9/10	11.6	38.7	24.1	NA	8/10	18.1	41.6	22.4	NA	3/10	4.63	13.1	4.46	NA

Table B-13
Summary Statistics for Polychlorinated Biphenyls in Edible Blue Crab Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB042	3/10	4.63	7.91	2.76	NA	9/10	4.46	20	12	NA	7/10	3.74	12.1	8.52	NA	4/10	1.22	5	2.05	NA
PCB043+073	0/10	--	--	0.908	NA	0/10	--	--	0.943	NA	0/10	--	--	0.819	NA	0/10	--	--	0.74	NA
PCB044+047+065	10/10	43.2	342	109	NA	10/10	201	637	362	NA	10/10	167	431	272	NA	7/10	74.6	102	70.4	NA
PCB045+051	4/10	2.09	4.6	2.18	NA	3/10	3.65	6.03	2.85	NA	5/10	3.44	8.16	3.7	NA	2/10	2.61	3.87	1.52	NA
PCB046	0/10	--	--	1.12	NA	0/10	--	--	1.19	NA	0/10	--	--	0.811	NA	0/10	--	--	0.91	NA
PCB048	0/10	--	--	0.974	NA	1/10	3.26	3.26	1.76	NA	2/10	2.2	2.54	1.4	NA	1/10	2.08	2.08	1.05	NA
PCB049+069	0/10	--	--	4.76	NA	7/10	27.1	73.6	33.4	NA	8/10	23.1	47.5	29.2	NA	1/10	14.5	14.5	4.73	NA
PCB050+053	0/10	--	--	1.06	NA	4/10	6.49	15.1	5.42	NA	7/10	4.47	12.9	6.41	NA	1/10	1.57	1.57	0.956	NA
PCB052	0/10	--	--	9.71	NA	5/10	60.7	173	58	NA	6/10	48.6	69.7	41	NA	0/10	--	--	8.2	NA
PCB054	0/10	--	--	0.441	NA	0/10	--	--	0.563	NA	0/10	--	--	0.327	NA	0/10	--	--	0.416	NA
PCB055	0/10	--	--	0.802	NA	0/10	--	--	0.843	NA	1/10	3.09	3.09	0.837	NA	0/10	--	--	0.664	NA
PCB056	2/10	2.33	2.43	1.74	NA	8/10	3.9	13.4	8.84	NA	7/10	8.8	19	8.59	NA	0/10	--	--	1.25	NA
PCB057	0/10	--	--	0.713	NA	0/10	--	--	0.747	NA	0/10	--	--	0.505	NA	0/10	--	--	0.606	NA
PCB058	0/10	--	--	0.741	NA	0/10	--	--	0.777	NA	0/10	--	--	0.52	NA	0/10	--	--	0.648	NA
PCB059+062+075	6/10	2.08	24.1	6.48	NA	10/10	14.3	46	27.3	NA	10/10	11.5	29.3	19.7	NA	10/10	1.49	7.01	5.03	NA
PCB060	8/10	6.25	107	22.7	NA	10/10	49.6	172	86.7	NA	10/10	36.6	99	62.8	NA	9/10	7.21	12.7	9.13	NA
PCB061+070+2m	8/10	35.8	262	76.4	NA	10/10	201	514	276	NA	10/10	147	320	206	NA	5/10	51	66.9	39	NA
PCB063	4/10	2.74	10.6	2.58	NA	8/10	2.98	12.3	7.24	NA	9/10	4.02	12.6	6.58	NA	3/10	1.38	1.89	1.04	NA
PCB064	4/10	11.9	22.3	8.46	NA	10/10	11.7	46.7	29.8	NA	8/10	25.4	38.3	24.7	NA	0/10	--	--	2.61	NA
PCB066	10/10	26.8	430	114	NA	10/10	234	750	402	NA	10/10	172	450	291	NA	10/10	17.2	87.9	62.2	NA
PCB067	0/10	--	--	0.649	NA	1/10	1.77	1.77	0.829	NA	0/10	--	--	0.461	NA	0/10	--	--	0.556	NA
PCB068	3/10	1.61	8.02	2	NA	6/10	4.69	10.5	5.29	NA	10/10	3.17	8.97	5.67	NA	5/10	1.66	2.76	1.61	NA
PCB072	1/10	1.34	1.34	0.832	NA	6/10	3.51	4.62	2.97	NA	5/10	2.78	5.85	2.36	NA	1/10	1.13	1.13	0.659	NA
PCB077	5/10	2.56	26.9	5.92	2.51	9/10	15.4	39	23.5	22	10/10	9.66	24.9	17.8	16.3	3/10	2.59	2.75	1.59	1.48
PCB078	0/10	--	--	0.828	NA	0/10	--	--	0.928	NA	0/10	--	--	0.742	NA	0/10	--	--	0.589	NA
PCB079	0/10	--	--	0.727	NA	0/10	--	--	0.933	NA	1/10	2.34	2.34	0.841	NA	0/10	--	--	0.524	NA
PCB080	0/10	--	--	0.704	NA	0/10	--	--	0.808	NA	0/10	--	--	0.667	NA	0/10	--	--	0.518	NA
PCB081	0/10	--	--	0.947	0.85	0/10	--	--	1.1	1.03	0/10	--	--	0.86	0.833	0/10	--	--	0.665	0.635
PCB082	0/10	--	--	1.45	NA	1/10	2.96	2.96	1.62	NA	1/10	4.33	4.33	1.58	NA	1/10	0.881	0.881	0.962	NA
PCB083+099	10/10	40.2	509	183	NA	10/10	351	1,430	684	NA	10/10	225	830	433	NA	10/10	61.7	243	144	NA
PCB084	0/10	--	--	1.26	NA	0/10	--	--	2.6	NA	1/10	12.1	12.1	3.23	NA	0/10	--	--	1.78	NA
PCB085+116	10/10	7.29	78.1	27.4	NA	10/10	61.3	251	120	NA	10/10	34	122	71.1	NA	9/10	5.68	23.2	13.3	NA
PCB086+087+4ma	3/10	31.7	53.7	18.1	NA	10/10	50.8	113	75	NA	10/10	32.4	99.1	55	NA	5/10	16.4	26.1	15.6	NA
PCB088+091	4/10	4.52	9.82	3.8	NA	10/10	6.77	25.1	15.1	NA	8/10	11.7	21.6	12.4	NA	6/10	1.42	6.55	3	NA
PCB089	0/10	--	--	0.958	NA	0/10	--	--	0.999	NA	0/10	--	--	0.651	NA	0/10	--	--	0.76	NA
PCB090+101+113	1/10	64.1	64.1	18.4	NA	8/10	70.9	215	101	NA	8/10	70.7	127	73.3	NA	1/10	38.5	38.5	13.4	NA
PCB092	4/10	5.07	13	3.88	NA	8/10	9.63	37.7	17.2	NA	7/10	13	29.9	13.3	NA	2/10	3.42	5	2.24	NA

Table B-13
Summary Statistics for Polychlorinated Biphenyls in Edible Blue Crab Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB093+100	5/10	3.23	10	4.46	NA	10/10	12	50.2	26	NA	9/10	9.23	33.7	16.6	NA	7/10	1.96	7.35	3.85	NA
PCB094	0/10	--	--	0.997	NA	0/10	--	--	1.05	NA	0/10	--	--	0.848	NA	0/10	--	--	0.811	NA
PCB095	0/10	--	--	5.81	NA	1/10	68	68	16.8	NA	2/10	30.2	50.2	16.3	NA	0/10	--	--	5.61	NA
PCB096	0/10	--	--	0.648	NA	0/10	--	--	0.688	NA	0/10	--	--	0.466	NA	0/10	--	--	0.516	NA
PCB098+102	0/10	--	--	0.888	NA	2/10	2.96	3.19	1.59	NA	2/10	2.12	2.39	1.17	NA	0/10	--	--	0.731	NA
PCB103	0/10	--	--	0.783	NA	1/10	1.98	1.98	1.18	NA	0/10	--	--	0.595	NA	0/10	--	--	0.634	NA
PCB104	0/10	--	--	0.594	NA	0/10	--	--	0.621	NA	0/10	--	--	0.391	NA	0/10	--	--	0.46	NA
PCB105	10/10	15.2	177	58.9	43.1	10/10	123	483	267	214	10/10	76.8	237	149	142	7/10	8.04	45.8	22	18.4
PCB106	0/10	--	--	0.816	NA	0/10	--	--	1.37	NA	0/10	--	--	0.816	NA	0/10	--	--	0.654	NA
PCB107	6/10	3.06	35.8	10.7	NA	10/10	20.4	85.9	45.6	NA	10/10	18.2	62.3	32.3	NA	4/10	6.92	9.73	5	NA
PCB108+124	0/10	--	--	0.855	NA	2/10	5.04	5.48	2.32	NA	4/10	2.99	3.12	2	NA	0/10	--	--	0.72	NA
PCB110+115	2/10	46.1	50	19	NA	8/10	55.5	155	89.8	NA	8/10	68.3	148	73.9	NA	0/10	--	--	10.6	NA
PCB111	0/10	--	--	1	NA	0/10	--	--	1.13	NA	0/10	--	--	0.76	NA	0/10	--	--	0.628	NA
PCB112	0/10	--	--	0.905	NA	0/10	--	--	0.905	NA	0/10	--	--	0.747	NA	0/10	--	--	0.598	NA
PCB114	4/10	4.11	15.2	3.8	2.5	8/10	9.92	40.1	16.6	15.1	7/10	6.38	14.1	8.98	8.26	2/10	2.34	3.86	1.26	0.918
PCB117	1/10	2.43	2.43	1.85	NA	7/10	9.13	16.7	8.89	NA	5/10	2.78	8.91	5.54	NA	2/10	1.87	2.54	1.07	NA
PCB118	10/10	48.4	545	195	139	10/10	428	1540	826	680	10/10	268	839	489	446	10/10	39.9	178	111	99.2
PCB120	2/10	2.07	3.31	1.3	NA	6/10	4.1	15.6	6.32	NA	6/10	2.68	10.6	3.99	NA	3/10	2.38	2.62	1.44	NA
PCB121	0/10	--	--	0.952	NA	0/10	--	--	0.955	NA	0/10	--	--	0.773	NA	0/10	--	--	0.616	NA
PCB122	0/10	--	--	0.888	NA	0/10	--	--	1.52	NA	0/10	--	--	0.884	NA	0/10	--	--	0.728	NA
PCB123	2/10	4.36	5.04	2.28	1.09	3/10	12.3	13.9	9.59	9.6	6/10	4.2	12.3	6.46	6.41	0/10	--	--	0.824	0.778
PCB126	0/10	--	--	0.861	0.683	1/10	4.53	4.53	1.76	1.44	1/10	2.48	2.48	0.995	1.02	0/10	--	--	0.675	0.648
PCB127	0/10	--	--	0.876	NA	0/10	--	--	1.46	NA	0/10	--	--	0.838	NA	0/10	--	--	0.71	NA
PCB128+166	9/10	6.24	61.7	22.5	NA	10/10	55.5	182	106	NA	10/10	28.6	111	64.5	NA	10/10	6.41	24.7	14.3	NA
PCB129+138+163	10/10	42.5	482	167	NA	10/10	361	1,250	703	NA	10/10	191	802	434	NA	10/10	45.4	192	101	NA
PCB130	7/10	2.49	8.87	3.96	NA	8/10	10.1	22	12.3	NA	9/10	3.31	18.5	9.61	NA	5/10	1.8	3.03	1.55	NA
PCB131	0/10	--	--	0.769	NA	0/10	--	--	1.22	NA	0/10	--	--	0.681	NA	0/10	--	--	0.651	NA
PCB132	5/10	2.55	4.82	2.3	NA	0/10	--	--	2.99	NA	1/10	11.3	11.3	4.05	NA	0/10	--	--	1.9	NA
PCB133	1/10	4.6	4.6	1.86	NA	8/10	7.65	31.3	13.9	NA	10/10	5.5	20	10.2	NA	6/10	1.58	5.51	2.5	NA
PCB134	0/10	--	--	0.84	NA	0/10	--	--	1.34	NA	1/10	1.94	1.94	0.957	NA	0/10	--	--	0.675	NA
PCB135+151	4/10	4.39	8.52	3.33	NA	8/10	8.59	45.7	17.6	NA	8/10	14	37.3	16.6	NA	5/10	3.65	5.13	2.74	NA
PCB136	0/10	--	--	0.489	NA	4/10	1.42	4.56	1.49	NA	4/10	0.869	4.13	1.39	NA	2/10	0.9	1.5	0.676	NA
PCB137	5/10	2.02	20.2	6.16	NA	8/10	13.7	78.7	31.4	NA	9/10	10.3	37.1	20	NA	6/10	3.57	11.4	4.06	NA
PCB139+140	4/10	2.36	8.07	2.53	NA	9/10	6.8	31	14.5	NA	9/10	4.42	17.3	9.03	NA	5/10	1.81	3.77	1.74	NA
PCB141	2/10	1.92	2.17	1.12	NA	5/10	9.54	31	9.04	NA	6/10	5.18	23.5	7.56	NA	1/10	2.99	2.99	1.09	NA
PCB142	0/10	--	--	0.782	NA	0/10	--	--	1.2	NA	0/10	--	--	0.683	NA	0/10	--	--	0.654	NA
PCB143	0/10	--	--	0.701	NA	0/10	--	--	1.08	NA	0/10	--	--	0.648	NA	0/10	--	--	0.622	NA

Table B-13
Summary Statistics for Polychlorinated Biphenyls in Edible Blue Crab Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB144	0/10	--	--	1.09	NA	3/10	2.57	4.21	1.9	NA	2/10	1.33	4.15	1.4	NA	0/10	--	--	0.757	NA
PCB145	0/10	--	--	0.533	NA	0/10	--	--	0.605	NA	0/10	--	--	0.377	NA	0/10	--	--	0.396	NA
PCB146	10/10	7.47	82.6	31	NA	10/10	66.1	280	129	NA	10/10	40.9	170	83.8	NA	9/10	11	39.4	22.5	NA
PCB147+149	5/10	19.4	39.8	17.6	NA	10/10	30.6	118	68.1	NA	9/10	18.4	121	59.1	NA	2/10	19.9	20.1	8.48	NA
PCB148	0/10	--	--	0.678	NA	6/10	1.48	7.83	2.73	NA	4/10	1.45	4.78	1.56	NA	1/10	1.07	1.07	0.581	NA
PCB150	0/10	--	--	0.511	NA	0/10	--	--	0.577	NA	0/10	--	--	0.363	NA	0/10	--	--	0.382	NA
PCB152	0/10	--	--	0.48	NA	0/10	--	--	0.544	NA	0/10	--	--	0.34	NA	0/10	--	--	0.357	NA
PCB153+168	10/10	46.3	529	189	NA	10/10	395	1,740	841	NA	10/10	240	1130	542	NA	10/10	85	345	166	NA
PCB154	7/10	1.57	12.4	5.33	NA	10/10	12.2	59.8	30	NA	9/10	8.45	38.2	20	NA	7/10	7.21	23.3	8.65	NA
PCB155	0/10	--	--	0.535	NA	3/10	1.23	2.64	1.24	NA	3/10	0.745	1.46	0.746	NA	0/10	--	--	0.349	NA
PCB156+157	9/10	5.46	53.5	20.2	13.9	10/10	34.1	202	89.7	59.2	10/10	22.1	93	50.3	45.9	5/10	4.49	27.1	9.4	8.16
PCB158	10/10	3.95	45.5	16	NA	10/10	27.2	144	69.9	NA	10/10	18.7	77.4	41.4	NA	10/10	3.99	18.9	8.85	NA
PCB159	0/10	--	--	0.736	NA	0/10	--	--	0.836	NA	0/10	--	--	0.543	NA	0/10	--	--	0.578	NA
PCB160	0/10	--	--	0.601	NA	0/10	--	--	0.89	NA	0/10	--	--	0.511	NA	0/10	--	--	0.509	NA
PCB161	0/10	--	--	0.558	NA	0/10	--	--	0.844	NA	0/10	--	--	0.48	NA	0/10	--	--	0.458	NA
PCB162	0/10	--	--	0.768	NA	3/10	2.97	4.79	2.39	NA	5/10	1.43	4.96	1.82	NA	0/10	--	--	0.606	NA
PCB164	1/10	2.31	2.31	0.849	NA	5/10	2.93	6.82	3.99	NA	4/10	3.91	12.9	3.91	NA	3/10	0.941	1.93	0.804	NA
PCB165	0/10	--	--	0.623	NA	0/10	--	--	0.949	NA	0/10	--	--	0.532	NA	0/10	--	--	0.512	NA
PCB167	6/10	3.7	23.4	7.2	5.65	10/10	18.7	68.3	37.5	29.8	10/10	11.3	42.8	22.6	21.4	7/10	3.84	8.61	4.34	4.27
PCB169	0/10	--	--	0.776	0.628	0/10	--	--	0.869	0.8	0/10	--	--	0.554	0.503	0/10	--	--	0.615	0.531
PCB170	7/10	5.94	76.8	18.6	11.9	10/10	31.3	123	64.9	48.7	9/10	14.2	68.4	35.9	36.1	8/10	3.14	19.1	8.55	6.81
PCB171+173	4/10	4.81	29.4	7.26	NA	10/10	14.8	69.2	32	NA	10/10	8.13	42.9	19.8	NA	6/10	1.89	8.06	3.59	NA
PCB172	1/10	5.37	5.37	2.42	NA	8/10	6.27	36.1	14.5	NA	7/10	5.06	21.5	8.28	NA	5/10	1.46	4.53	2.09	NA
PCB174	1/10	2.09	2.09	1.46	NA	6/10	2.42	10.7	4.74	NA	3/10	4.23	23.6	4.82	NA	1/10	1.94	1.94	1.07	NA
PCB175	0/10	--	--	0.801	NA	4/10	2.23	10.7	2.88	NA	5/10	1.69	6.04	2.03	NA	0/10	--	--	0.551	NA
PCB176	0/10	--	--	0.538	NA	0/10	--	--	0.664	NA	2/10	0.768	2.63	0.621	NA	0/10	--	--	0.405	NA
PCB177	6/10	2.96	13.5	5.97	NA	9/10	16.3	37.8	22.9	NA	8/10	6.37	47.2	19.2	NA	3/10	4.44	4.92	2.37	NA
PCB178	6/10	2.53	14	6.46	NA	10/10	19.5	75.2	35.1	NA	9/10	13.4	56.7	24.7	NA	9/10	2.51	9.58	6.18	NA
PCB179	0/10	--	--	0.518	NA	3/10	2.26	6.49	1.93	NA	5/10	1.83	4.97	1.8	NA	2/10	0.347	0.617	0.493	NA
PCB180+193	10/10	8.12	200	54.9	34.9	10/10	72.5	452	204	158	10/10	43.3	245	114	107	10/10	13.5	99.6	36.3	29.4
PCB181	0/10	--	--	1.39	NA	0/10	--	--	1.32	NA	0/10	--	--	0.68	NA	0/10	--	--	0.916	NA
PCB182	0/10	--	--	0.731	NA	1/10	1.93	1.93	1.1	NA	1/10	1.3	1.3	0.538	NA	0/10	--	--	0.543	NA
PCB183	8/10	3.14	55.6	15.2	NA	10/10	24.3	140	64.5	NA	9/10	15.1	85.7	38	NA	7/10	4.42	30.6	10.3	NA
PCB184	0/10	--	--	0.535	NA	2/10	1.34	2.41	0.932	NA	1/10	1.18	1.18	0.42	NA	0/10	--	--	0.41	NA
PCB185	0/10	--	--	1.46	NA	1/10	3.75	3.75	1.64	NA	0/10	--	--	0.716	NA	0/10	--	--	0.956	NA
PCB186	0/10	--	--	0.574	NA	0/10	--	--	0.695	NA	0/10	--	--	0.343	NA	0/10	--	--	0.441	NA
PCB187	9/10	10	119	43.3	NA	10/10	77.5	341	167	NA	10/10	45.3	264	120	NA	9/10	13	51.5	27.3	NA

Table B-13
Summary Statistics for Polychlorinated Biphenyls in Edible Blue Crab Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB188	0/10	--	--	0.599	NA	3/10	1.25	4.09	1.45	NA	4/10	0.945	2.15	0.913	NA	0/10	--	--	0.425	NA
PCB189	0/10	--	--	1.04	1	1/10	7.17	7.17	1.9	1.17	4/10	1.79	4.47	1.57	1.13	1/10	1.89	1.89	0.853	0.523
PCB190	3/10	1.71	16.2	3.52	NA	8/10	7.39	31.7	13.9	NA	8/10	5.78	17	8.19	NA	4/10	1.75	5.4	1.86	NA
PCB191	0/10	--	--	1.16	NA	2/10	2.95	4.41	2.26	NA	2/10	1.97	2.03	1.23	NA	0/10	--	--	0.72	NA
PCB192	0/10	--	--	1.28	NA	0/10	--	--	1.08	NA	0/10	--	--	0.586	NA	0/10	--	--	0.79	NA
PCB194	5/10	2.3	24.4	5.53	NA	9/10	6.66	51.5	22	NA	9/10	5.08	25.4	11.6	NA	4/10	2.2	12.2	3.6	NA
PCB195	2/10	4.51	8.5	2.21	NA	8/10	3.58	17.1	7.7	NA	10/10	1.65	11.2	5.8	NA	1/10	1.77	1.77	0.977	NA
PCB196	3/10	1.7	15.5	3.26	NA	8/10	6.49	52	19.3	NA	10/10	4.25	28.5	12.6	NA	7/10	1.6	10.1	3.19	NA
PCB197	0/10	--	--	0.762	NA	4/10	2.23	5.38	2.39	NA	1/10	3.48	3.48	1.29	NA	1/10	1.36	1.36	0.632	NA
PCB198+199	8/10	4.34	36.7	10.8	NA	10/10	15.6	97.8	40.3	NA	10/10	10.6	68.8	29.3	NA	8/10	2.81	12.3	7.24	NA
PCB200	0/10	--	--	0.76	NA	0/10	--	--	0.794	NA	0/10	--	--	0.432	NA	0/10	--	--	0.503	NA
PCB201	2/10	1.45	2.64	1.11	NA	7/10	3.3	13.6	5.43	NA	5/10	2.76	10.4	3.18	NA	2/10	1.22	1.48	0.768	NA
PCB202	8/10	1.39	15.4	4.85	NA	9/10	10.9	41.1	18.4	NA	10/10	7.62	31.2	13.7	NA	5/10	2.81	5.48	2.93	NA
PCB203	1/10	7.09	7.09	2.57	NA	8/10	6.91	40.7	17.1	NA	9/10	6.51	24.2	11.7	NA	3/10	2.85	8.36	2.77	NA
PCB204	0/10	--	--	0.721	NA	0/10	--	--	0.782	NA	0/10	--	--	0.391	NA	0/10	--	--	0.505	NA
PCB205	0/10	--	--	0.85	NA	0/10	--	--	0.844	NA	0/10	--	--	0.417	NA	0/10	--	--	0.573	NA
PCB206	1/10	6.73	6.73	2.03	NA	6/10	4.41	20.3	7.66	NA	4/10	5.31	11.9	4.72	NA	1/10	4.29	4.29	1.72	NA
PCB207	0/10	--	--	1.11	NA	5/10	3.28	19.7	5.52	NA	7/10	3.49	12.7	4.97	NA	4/10	1.7	2.73	1.35	NA
PCB208	1/10	9.47	9.47	1.99	NA	8/10	5.84	34.1	11.4	NA	9/10	3.94	17.8	8	NA	4/10	3.41	5.41	2.7	NA
PCB209	9/10	4.73	184	41.8	NA	10/10	55	384	117	NA	10/10	32.1	186	80.3	NA	7/10	10.3	27.6	15	NA

Notes

FCA = fish collection area
NA = data not available
ww = wet weight
-- = Not applicable, no detected values

a - Mean and median calculations include detected and non-detected values. Non-detected values were set at one-half the detection limit.

Table B-14
Summary Statistics for Polychlorinated Biphenyls in Whole Blue Crab Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
Blue Crab - Whole																				
Polychlorinated Biphenyls (ng/kg - ww)																				
PCB001	0/3	--	--	0.940	0.756	1/3	2.05	2.05	1.34	1.11	0/3	--	--	0.933	0.934	0/3	--	--	0.839	0.800
PCB002	0/3	--	--	0.987	0.779	0/3	--	--	0.855	0.830	0/3	--	--	0.763	0.387	0/3	--	--	0.871	0.818
PCB003	0/3	--	--	1.14	0.896	0/3	--	--	0.986	0.960	0/3	--	--	0.877	0.448	0/3	--	--	1.00	0.928
PCB004	0/3	--	--	4.11	2.78	0/3	--	--	4.20	4.18	1/3	3.16	3.16	20.0	3.16	0/3	--	--	7.78	4.30
PCB005	0/3	--	--	3.28	2.58	0/3	--	--	1.90	2.18	0/3	--	--	6.94	1.08	0/3	--	--	2.97	3.11
PCB006	0/3	--	--	2.73	2.13	0/3	--	--	1.67	1.84	1/3	3.16	3.16	7.12	3.16	0/3	--	--	2.57	2.78
PCB007	0/3	--	--	2.83	2.23	0/3	--	--	1.72	1.98	0/3	--	--	6.87	1.01	0/3	--	--	2.71	2.98
PCB008	2/3	9.03	11.9	9.72	9.03	3/3	9.51	19.3	13.7	12.2	1/3	18.3	18.3	13.3	17.8	0/3	--	--	5.10	4.36
PCB009	0/3	--	--	2.79	2.19	0/3	--	--	1.67	1.90	0/3	--	--	6.42	0.977	0/3	--	--	2.63	2.84
PCB010	0/3	--	--	3.15	2.23	0/3	--	--	2.86	2.70	0/3	--	--	14.3	1.01	0/3	--	--	5.70	3.25
PCB011	0/3	--	--	53.1	52.9	0/3	--	--	39.8	39.4	0/3	--	--	61.0	61.0	0/3	--	--	49.4	51.0
PCB012+013	0/3	--	--	2.83	2.20	0/3	--	--	1.64	1.85	0/3	--	--	6.40	0.970	0/3	--	--	2.60	2.79
PCB014	0/3	--	--	2.70	2.11	0/3	--	--	1.57	1.79	0/3	--	--	6.19	0.932	0/3	--	--	2.49	2.69
PCB015	3/3	86.9	188	148	169	3/3	117	247	176	165	3/3	89.7	128	111	115	1/3	14.5	14.5	7.43	5.40
PCB016	0/3	--	--	2.33	2.44	3/3	2.25	4.52	3.18	2.76	0/3	--	--	1.94	2.08	1/3	2.52	2.52	2.16	2.35
PCB017	1/3	10.8	10.8	6.40	5.43	3/3	4.84	15.9	9.47	7.71	1/3	11.2	11.2	5.94	3.69	1/3	2.09	2.09	2.51	2.16
PCB018+030	2/3	20.5	48.0	24.5	20.5	3/3	9.26	35.7	19.7	14.1	1/3	25.4	25.4	11.7	5.97	0/3	--	--	3.68	3.97
PCB019	1/3	1.30	1.30	1.37	1.30	0/3	--	--	0.967	0.919	2/3	0.937	1.16	1.15	1.16	1/3	0.748	0.748	0.978	1.09
PCB020+028	3/3	363	1160	736	686	3/3	564	969	741	691	3/3	528	842	645	566	3/3	103	151	135	151
PCB021+033	1/3	17.3	17.3	9.27	6.05	3/3	5.91	14.5	9.69	8.62	0/3	--	--	3.96	3.42	0/3	--	--	3.31	3.65
PCB022	3/3	15.8	45.6	28.5	24.1	3/3	25.3	48.0	33.2	26.2	3/3	11.7	34.0	21.3	18.3	1/3	3.29	3.29	3.75	3.35
PCB023	0/3	--	--	1.74	1.80	0/3	--	--	0.819	0.750	0/3	--	--	1.09	1.21	0/3	--	--	0.708	0.785
PCB024	0/3	--	--	0.968	0.758	0/3	--	--	0.814	0.746	0/3	--	--	0.696	0.466	0/3	--	--	0.752	0.858
PCB025	3/3	2.34	9.26	6.60	8.21	3/3	2.92	9.98	5.47	3.52	3/3	0.937	8.36	3.96	2.57	2/3	1.75	2.73	1.73	1.75
PCB026+029	3/3	5.77	35.4	19.7	18.1	3/3	6.30	27.3	14.8	10.7	1/3	20.3	20.3	7.85	1.92	2/3	1.32	4.46	2.42	1.48
PCB027	2/3	3.35	6.13	3.51	3.35	2/3	1.48	2.54	2.56	2.54	2/3	0.843	4.94	2.27	1.02	1/3	1.59	1.59	0.920	0.779
PCB031	3/3	25.4	112	77.1	93.6	3/3	35.6	109	66.3	54.3	3/3	15.7	81.6	37.8	16.1	1/3	21.5	21.5	10.6	7.40
PCB032	3/3	11.2	28.9	21.8	25.4	3/3	14.6	36.7	23.5	19.1	3/3	9.79	25.2	15.9	12.5	3/3	1.68	7.56	4.08	2.99
PCB034	0/3	--	--	1.64	1.72	0/3	--	--	0.867	0.725	0/3	--	--	0.977	1.12	0/3	--	--	0.659	0.715
PCB035	0/3	--	--	1.64	1.69	0/3	--	--	0.790	0.743	0/3	--	--	0.984	1.13	0/3	--	--	0.663	0.740
PCB036	0/3	--	--	1.51	1.54	0/3	--	--	0.705	0.688	0/3	--	--	0.844	0.970	0/3	--	--	0.589	0.634
PCB037	3/3	52.3	183	112	100	3/3	66.5	168	105	81.5	3/3	67.9	130	90.5	73.2	3/3	4.65	9.98	6.43	4.66
PCB038	0/3	--	--	1.62	1.67	0/3	--	--	0.773	0.743	0/3	--	--	0.966	1.11	0/3	--	--	0.659	0.720
PCB039	0/3	--	--	1.60	1.64	1/3	2.77	2.77	1.64	1.42	0/3	--	--	0.945	1.09	0/3	--	--	0.643	0.710
PCB040+041+071	3/3	49.3	109	83.4	92.0	3/3	57.5	125	80.3	58.4	3/3	20.9	92.4	53.5	47.4	3/3	7.18	22.3	13.6	11.4
PCB042	3/3	13.3	53.1	32.4	30.8	3/3	13.8	59.4	33.9	28.5	2/3	7.88	43.3	19.1	7.88	2/3	5.36	9.35	5.27	5.36

Table B-14
Summary Statistics for Polychlorinated Biphenyls in Whole Blue Crab Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB043+073	1/3	11.2	11.2	4.60	1.75	2/3	2.76	5.20	3.11	2.76	1/3	1.74	1.74	1.47	1.74	0/3	--	--	0.714	0.887
PCB044+047+065	3/3	500	1340	962	1050	3/3	707	1270	990	997	3/3	688	905	815	853	3/3	145	229	183	176
PCB045+051	2/3	3.97	12.4	6.11	3.97	2/3	4.39	10.8	5.97	4.39	3/3	2.12	9.35	6.55	8.18	0/3	--	--	1.18	0.960
PCB046	0/3	--	--	1.52	1.46	0/3	--	--	0.945	0.989	0/3	--	--	0.737	0.584	0/3	--	--	0.872	1.09
PCB048	3/3	2.73	15.1	8.49	7.65	3/3	3.46	10.1	6.26	5.25	2/3	1.17	8.51	4.11	2.66	2/3	1.92	3.13	2.00	1.92
PCB049+069	3/3	31.8	149	79.4	57.1	3/3	27.7	198	103	83.8	3/3	11.8	150	64.6	32.3	2/3	15.2	36.5	18.3	15.2
PCB050+053	3/3	4.44	46.9	19.6	7.45	2/3	9.43	36.2	15.8	9.43	3/3	1.91	21.1	8.82	3.48	0/3	--	--	1.10	0.937
PCB052	3/3	51.2	443	199	103	3/3	46.9	306	163	137	2/3	42.1	237	97.1	42.1	1/3	55.7	55.7	25.9	14.4
PCB054	0/3	--	--	0.498	0.408	0/3	--	--	0.460	0.451	0/3	--	--	0.369	0.327	0/3	--	--	0.378	0.464
PCB055	0/3	--	--	1.09	1.02	0/3	--	--	0.666	0.682	0/3	--	--	0.505	0.393	0/3	--	--	0.615	0.769
PCB056	3/3	16.1	45.6	32.3	35.3	3/3	18.2	55.7	36.4	35.3	3/3	6.31	42.0	19.1	8.91	1/3	8.26	8.26	3.99	2.41
PCB057	0/3	--	--	0.969	0.908	0/3	--	--	0.584	0.604	0/3	--	--	0.457	0.359	0/3	--	--	0.564	0.692
PCB058	1/3	4.58	4.58	2.22	1.44	0/3	--	--	0.733	0.679	0/3	--	--	0.471	0.372	0/3	--	--	0.586	0.729
PCB059+062+075	3/3	38.4	107	76.1	83.1	3/3	62.4	97.3	79.1	77.5	3/3	53.2	74.1	64.2	65.3	3/3	12.0	15.0	13.2	12.6
PCB060	3/3	98.6	332	198	164	3/3	149	300	209	178	3/3	125	364	215	155	3/3	17.2	29.9	22.2	19.6
PCB061+070+2m	3/3	431	1200	851	927	3/3	603	983	834	915	3/3	627	913	726	637	3/3	105	153	125	117
PCB063	3/3	13.0	38.5	28.1	32.9	3/3	18.3	33.1	26.7	28.7	3/3	12.4	18.9	15.3	14.5	3/3	2.08	4.71	3.27	3.02
PCB064	3/3	38.3	169	94.8	77.5	3/3	37.8	153	88.0	73.7	3/3	13.7	109	48.1	21.6	2/3	10.1	18.6	10.3	10.1
PCB066	3/3	671	1940	1270	1220	3/3	898	1,640	1240	1190	3/3	836	1530	1120	997	3/3	144	205	180	192
PCB067	1/3	9.20	9.20	3.66	1.23	0/3	--	--	1.52	1.19	1/3	3.15	3.15	1.36	0.701	0/3	--	--	0.517	0.639
PCB068	3/3	9.86	30.4	21.0	22.9	3/3	8.34	28.4	16.0	11.2	3/3	13.5	15.2	14.6	15.1	3/3	3.23	3.99	3.54	3.39
PCB072	3/3	7.03	22.8	16.1	18.3	3/3	11.3	18.3	14.0	12.3	3/3	2.95	12.8	7.14	5.64	2/3	0.944	1.00	1.12	1.00
PCB077	3/3	44.8	131	88.3	88.9	3/3	60.6	131	90.8	81.1	3/3	54.5	116	77.2	61.2	3/3	3.27	9.06	6.09	5.94
PCB078	0/3	--	--	1.36	1.15	0/3	--	--	1.05	0.926	0/3	--	--	1.21	1.29	0/3	--	--	0.619	0.643
PCB079	1/3	8.00	8.00	4.77	4.87	2/3	4.19	6.71	4.65	4.19	1/3	4.16	4.16	2.64	2.37	0/3	--	--	0.552	0.578
PCB080	1/3	3.04	3.04	1.65	1.01	1/3	2.08	2.08	1.33	1.18	0/3	--	--	1.09	1.17	0/3	--	--	0.546	0.578
PCB081	2/3	3.78	6.43	3.81	3.78	3/3	2.22	5.03	3.75	4.00	1/3	2.68	2.68	2.38	2.68	0/3	--	--	0.703	0.759
PCB082	0/3	--	--	2.07	1.91	2/3	2.54	9.77	4.63	2.54	1/3	6.89	6.89	2.91	1.13	1/3	1.28	1.28	1.10	1.20
PCB083+099	3/3	2310	3400	2690	2350	3/3	1,590	2,700	2280	2560	3/3	1,710	2,280	2010	2030	3/3	425	537	483	486
PCB084	2/3	8.98	14.9	9.25	8.98	2/3	9.65	17.8	9.95	9.65	1/3	13.0	13.0	6.55	3.68	0/3	--	--	2.59	2.13
PCB085+116	3/3	217	530	359	329	3/3	244	484	379	410	3/3	257	369	315	319	3/3	41.5	46.0	44.0	44.5
PCB086+087+4ma	3/3	211	345	288	307	3/3	174	314	249	260	3/3	180	230	203	200	3/3	44.3	61.2	51.0	47.4
PCB088+091	3/3	23.2	106	61.9	56.7	3/3	39.4	91.6	56.8	39.4	3/3	8.98	67.5	31.0	16.6	3/3	4.97	14.7	9.04	7.45
PCB089	0/3	--	--	1.20	1.20	1/3	1.58	1.58	1.13	1.06	1/3	1.13	1.13	0.807	0.922	0/3	--	--	0.799	0.888
PCB090+101+113	3/3	146	767	408	309	3/3	236	653	392	286	3/3	73.0	465	224	133	2/3	43.4	86.3	49.1	43.4
PCB092	3/3	27.2	158	78.7	50.6	3/3	36.9	123	70.1	50.4	3/3	11.0	93.6	39.6	14.2	2/3	4.66	6.23	6.21	6.23
PCB093+100	3/3	46.4	128	88.0	89.6	3/3	57.9	120	89.3	90.6	3/3	70.6	85.2	78.3	79.1	3/3	12.1	17.0	14.6	14.9

Table B-14
Summary Statistics for Polychlorinated Biphenyls in Whole Blue Crab Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB094	3/3	3.00	5.89	4.74	5.32	3/3	2.99	7.68	5.72	6.50	3/3	1.99	5.80	3.91	3.95	0/3	--	--	0.856	0.960
PCB095	3/3	33.7	155	80.9	54.2	3/3	37.0	123	69.4	48.4	3/3	19.9	91.6	45.4	24.7	1/3	25.8	25.8	13.5	8.04
PCB096	0/3	--	--	0.818	0.829	0/3	--	--	0.607	0.544	0/3	--	--	0.418	0.338	0/3	--	--	0.560	0.620
PCB098+102	3/3	5.40	20.8	12.2	10.3	2/3	7.48	16.8	9.09	7.48	0/3	--	--	2.57	1.63	1/3	0.933	0.933	0.970	0.933
PCB103	2/3	4.05	12.6	5.85	4.05	2/3	4.05	10.9	5.28	4.05	1/3	6.50	6.50	2.52	0.771	0/3	--	--	0.691	0.754
PCB104	0/3	--	--	0.731	0.735	0/3	--	--	0.545	0.500	0/3	--	--	0.362	0.282	0/3	--	--	0.492	0.582
PCB105	3/3	418	964	691	690	3/3	490	991	740	740	3/3	519	800	618	535	3/3	53.8	83.8	70.7	74.3
PCB106	0/3	--	--	1.33	1.25	0/3	--	--	1.07	1.09	0/3	--	--	0.964	0.749	0/3	--	--	0.914	0.723
PCB107	3/3	80.9	248	166	168	3/3	116	209	175	201	3/3	122	133	126	122	3/3	18.0	25.8	21.7	21.3
PCB108+124	2/3	8.61	18.9	9.85	8.61	3/3	8.87	20.8	13.2	10.0	2/3	2.99	15.0	6.57	2.99	0/3	--	--	1.22	1.43
PCB110+115	3/3	137	500	296	251	3/3	187	576	333	235	3/3	91.7	425	208	106	2/3	31.9	68.5	38.9	31.9
PCB111	1/3	8.27	8.27	3.92	2.35	2/3	5.09	6.42	4.20	5.09	2/3	3.08	4.09	2.65	3.08	1/3	0.986	0.986	0.865	0.843
PCB112	0/3	--	--	1.29	1.23	0/3	--	--	0.971	1.02	0/3	--	--	0.699	0.775	0/3	--	--	0.561	0.517
PCB114	3/3	28.0	63.6	45.0	43.3	3/3	30.5	58.7	45.8	48.2	3/3	28.3	55.9	40.0	35.8	3/3	4.35	6.32	5.50	5.83
PCB117	3/3	18.6	56.0	42.6	53.3	3/3	23.5	58.0	35.9	26.2	2/3	1.70	35.9	12.8	1.70	2/3	1.93	6.18	3.32	1.93
PCB118	3/3	1420	3200	2320	2350	3/3	1,630	3,000	2,400	2,570	3/3	1,800	2,480	2,080	1950	3/3	260	361	319	337
PCB120	3/3	14.9	40.0	27.5	27.5	2/3	29.1	29.6	22.4	29.1	3/3	19.8	26.7	23.1	22.9	3/3	5.85	7.44	6.85	7.27
PCB121	0/3	--	--	1.51	1.61	0/3	--	--	1.38	1.23	0/3	--	--	1.20	1.09	0/3	--	--	0.587	0.550
PCB122	0/3	--	--	1.45	1.36	0/3	--	--	1.14	1.14	0/3	--	--	1.05	0.811	0/3	--	--	1.00	0.801
PCB123	3/3	26.9	56.5	43.4	46.8	3/3	27.4	55.0	43.1	46.8	2/3	32.1	51.4	33.3	32.1	3/3	3.54	6.03	5.09	5.70
PCB126	1/3	8.53	8.53	4.98	4.58	2/3	5.79	10.6	6.36	5.79	2/3	6.48	6.86	5.04	6.48	0/3	--	--	0.896	0.786
PCB127	0/3	--	--	1.42	1.32	1/3	3.80	3.80	1.92	1.08	1/3	3.39	3.39	1.95	1.68	0/3	--	--	0.962	0.751
PCB128+166	3/3	206	473	353	380	3/3	220	458	367	423	3/3	270	328	300	303	3/3	37.1	50.0	44.7	47.1
PCB129+138+163	3/3	1690	3760	2820	3000	3/3	1,800	3,770	2,980	3,360	3/3	2,220	2,600	2,380	2,310	3/3	319	409	371	384
PCB130	3/3	32.6	81.5	64.3	78.9	3/3	42.3	91.8	74.3	88.8	3/3	25.2	59.3	41.7	40.6	2/3	6.08	6.75	6.02	6.08
PCB131	0/3	--	--	1.54	1.47	1/3	4.02	4.02	2.08	1.49	0/3	--	--	0.867	0.912	0/3	--	--	0.592	0.606
PCB132	2/3	3.54	34.4	13.0	3.54	1/3	32.6	32.6	14.0	6.97	1/3	24.1	24.1	9.47	2.60	1/3	11.3	11.3	5.51	2.81
PCB133	3/3	33.5	75.3	54.5	54.8	3/3	39.2	78.0	60.5	64.1	3/3	44.3	57.1	51.6	53.3	3/3	10.1	12.8	11.1	10.3
PCB134	1/3	8.54	8.54	3.72	1.61	0/3	--	--	1.27	1.33	1/3	1.72	1.72	1.14	0.917	0/3	--	--	0.610	0.654
PCB135+151	3/3	34.8	159	81.3	50.2	3/3	43.9	137	78.1	53.4	2/3	13.2	106	42.4	13.2	3/3	7.04	22.8	13.9	11.8
PCB136	2/3	2.76	6.40	3.39	2.76	3/3	2.59	7.56	4.52	3.42	3/3	1.16	6.74	3.30	1.99	3/3	1.32	3.52	2.25	1.91
PCB137	3/3	62.3	135	103	111	3/3	60.7	156	110	114	3/3	83.3	118	95.2	84.0	3/3	10.4	17.4	14.2	14.7
PCB139+140	3/3	30.1	61.7	47.6	51.0	3/3	29.7	69.8	50.7	52.7	3/3	36.3	51.7	43.5	42.4	3/3	6.83	8.92	7.84	7.78
PCB141	2/3	16.8	80.7	35.8	16.8	3/3	24.3	73.9	41.3	25.6	3/3	9.31	54.8	24.7	9.92	2/3	3.98	10.1	4.87	3.98
PCB142	0/3	--	--	1.39	1.50	0/3	--	--	1.02	0.881	0/3	--	--	0.858	0.917	0/3	--	--	0.594	0.621
PCB143	0/3	--	--	1.26	1.33	0/3	--	--	0.924	0.845	0/3	--	--	0.827	0.897	0/3	--	--	0.566	0.569
PCB144	2/3	4.98	15.1	8.23	4.98	3/3	5.22	10.5	8.59	10.1	2/3	6.27	11.6	6.24	6.27	2/3	1.23	1.39	1.29	1.25

Table B-14
Summary Statistics for Polychlorinated Biphenyls in Whole Blue Crab Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB145	0/3	--	--	0.557	0.517	0/3	--	--	0.583	0.603	0/3	--	--	0.366	0.298	0/3	--	--	0.403	0.493
PCB146	3/3	317	777	566	606	3/3	379	690	569	637	3/3	417	466	448	461	3/3	85.9	113	99.0	97.7
PCB147+149	3/3	157	586	338	272	3/3	212	488	328	284	3/3	71.0	343	175	111	3/3	28.8	72.2	44.6	32.8
PCB148	3/3	6.29	16.6	11.5	11.7	3/3	5.89	13.4	10.4	11.9	2/3	11.7	11.7	8.95	11.7	2/3	2.58	4.11	2.71	2.58
PCB150	0/3	--	--	0.670	0.624	1/3	1.63	1.63	0.965	0.681	1/3	1.19	1.19	0.654	0.501	0/3	--	--	0.391	0.479
PCB152	0/3	--	--	0.500	0.470	0/3	--	--	0.527	0.559	0/3	--	--	0.331	0.273	0/3	--	--	0.364	0.441
PCB153+168	3/3	2170	4400	3370	3540	3/3	2,350	4,100	3460	3940	3/3	2670	3510	3,120	3,180	3/3	607	746	661	629
PCB154	3/3	79.1	192	134	131	3/3	97.4	176	133	124	3/3	108	153	125	114	3/3	36.8	40.5	38.8	39.1
PCB155	3/3	3.88	12.6	8.24	8.23	3/3	4.95	7.70	6.67	7.36	3/3	4.89	5.66	5.40	5.64	3/3	1.28	1.57	1.46	1.52
PCB156+157	3/3	156	350	259	272	3/3	160	344	259	273	3/3	193	292	227	196	3/3	29.2	42.0	35.7	36.0
PCB158	3/3	135	295	221	233	3/3	126	316	226	235	3/3	170	251	199	177	3/3	22.2	32.4	28.0	29.4
PCB159	0/3	--	--	1.26	1.53	1/3	2.47	2.47	1.61	1.38	0/3	--	--	0.869	0.923	0/3	--	--	0.628	0.715
PCB160	0/3	--	--	1.05	1.17	0/3	--	--	0.745	0.620	0/3	--	--	0.638	0.687	0/3	--	--	0.464	0.473
PCB161	0/3	--	--	0.990	1.07	0/3	--	--	0.719	0.630	0/3	--	--	0.606	0.645	0/3	--	--	0.422	0.429
PCB162	3/3	6.47	18.3	12.8	13.6	3/3	8.17	17.6	13.3	14.2	3/3	9.82	12.5	11.1	10.9	3/3	2.59	3.44	2.98	2.90
PCB164	1/3	36.4	36.4	16.5	7.57	3/3	15.3	46.6	26.6	18.1	1/3	31.8	31.8	12.8	4.58	2/3	1.32	5.84	2.84	1.36
PCB165	0/3	--	--	1.10	1.20	1/3	3.19	3.19	1.63	1.16	1/3	2.28	2.28	1.25	0.770	0/3	--	--	0.463	0.482
PCB167	3/3	83.7	173	129	131	3/3	90.6	162	134	150	3/3	106	127	116	115	3/3	14.0	19.2	17.2	18.5
PCB169	0/3	--	--	1.17	1.21	0/3	--	--	1.17	1.05	0/3	--	--	0.782	0.657	0/3	--	--	0.645	0.719
PCB170	3/3	124	520	323	324	3/3	160	347	273	312	3/3	212	259	237	240	3/3	31.1	58.6	45.6	47.1
PCB171+173	3/3	66.1	201	135	139	3/3	82.6	152	125	140	3/3	98.5	131	110	101	3/3	12.9	22.5	17.7	17.6
PCB172	3/3	29.5	121	77.5	81.7	3/3	43.5	96.1	71.1	73.6	3/3	49.8	71.5	59.6	57.5	3/3	10.7	15.5	13.6	14.7
PCB174	3/3	4.97	50.7	23.6	15.2	3/3	11.6	46.8	24.9	16.3	2/3	7.60	37.5	15.8	7.60	2/3	3.38	5.08	4.41	4.76
PCB175	3/3	7.73	23.6	16.6	18.5	3/3	8.77	21.7	15.5	16.0	3/3	10.3	17.3	13.5	12.8	2/3	2.73	3.43	2.40	2.73
PCB176	1/3	6.61	6.61	2.63	0.674	1/3	2.48	2.48	1.93	2.46	2/3	0.866	4.15	1.83	0.866	1/3	0.627	0.627	0.532	0.556
PCB177	3/3	72.5	163	129	152	3/3	91.3	185	145	160	3/3	60.2	131	87.7	72.2	3/3	10.3	20.1	16.4	18.7
PCB178	3/3	84.6	192	139	140	3/3	83.0	200	149	165	3/3	113	138	122	115	3/3	19.6	27.4	24.7	26.9
PCB179	1/3	21.1	21.1	7.96	1.50	3/3	2.59	17.7	9.44	8.02	3/3	1.04	15.4	5.95	1.40	3/3	0.810	4.54	2.50	2.15
PCB180+193	3/3	455	1620	1040	1040	3/3	607	1,190	924	974	3/3	767	990	843	773	3/3	126	185	162	176
PCB181	2/3	4.56	6.47	4.12	4.56	0/3	--	--	2.00	2.23	2/3	3.08	4.72	3.15	3.08	0/3	--	--	0.833	0.719
PCB182	1/3	10.2	10.2	3.94	0.948	1/3	6.28	6.28	3.68	3.07	2/3	5.33	5.85	4.38	5.33	0/3	--	--	0.560	0.714
PCB183	3/3	148	411	302	347	3/3	200	386	296	300	3/3	206	304	258	265	3/3	38.4	55.3	48.6	52.2
PCB184	2/3	4.10	4.42	3.15	4.10	3/3	1.76	3.57	2.75	2.91	3/3	2.16	2.52	2.30	2.20	2/3	0.622	0.820	0.666	0.622
PCB185	0/3	--	--	2.28	2.29	1/3	14.3	14.3	5.51	1.21	0/3	--	--	0.945	0.957	1/3	1.48	1.48	1.11	1.43
PCB186	0/3	--	--	0.637	0.662	0/3	--	--	0.580	0.542	0/3	--	--	0.365	0.355	0/3	--	--	0.409	0.449
PCB187	3/3	520	1290	946	1030	3/3	596	1150	941	1070	3/3	690	763	730	737	3/3	133	177	154	151
PCB188	3/3	2.89	8.86	5.82	5.71	3/3	4.03	6.27	5.38	5.83	3/3	3.86	4.78	4.31	4.30	1/3	1.44	1.44	1.05	0.910

Table B-14
Summary Statistics for Polychlorinated Biphenyls in Whole Blue Crab Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB189	3/3	6.60	21.7	14.2	14.5	3/3	7.74	15.5	12.3	13.7	3/3	11.1	15.1	13.0	12.9	2/3	3.49	3.99	2.93	3.49
PCB190	3/3	20.8	102	62.9	65.4	3/3	29.2	58.6	48.0	56.0	3/3	40.1	55.9	46.0	42.1	3/3	4.60	13.4	9.70	11.0
PCB191	2/3	7.70	26.2	14.2	8.61	3/3	8.55	18.7	15.1	18.1	3/3	12.9	17.6	14.5	13.2	3/3	2.20	3.63	2.82	2.63
PCB192	0/3	--	--	1.98	1.95	0/3	--	--	0.958	1.01	0/3	--	--	0.774	0.771	0/3	--	--	0.705	0.604
PCB194	3/3	42.7	195	119	120	3/3	53.9	104	87.4	104	3/3	79.8	106	93.9	95.7	3/3	20.6	32.5	27.7	30.0
PCB195	3/3	10.3	53.8	36.4	45.2	3/3	15.2	36.5	27.6	31.0	3/3	27.1	37.1	31.5	30.4	3/3	5.02	10.3	7.82	8.10
PCB196	3/3	32.8	118	83.4	99.5	3/3	45.2	91.3	73.3	83.3	3/3	60.5	102	76.9	67.7	3/3	13.8	19.1	16.6	16.8
PCB197	2/3	19.8	20.3	14.3	19.8	3/3	7.06	16.1	12.9	15.5	3/3	11.7	15.1	12.9	11.9	2/3	1.92	4.03	2.58	1.92
PCB198+199	3/3	68.3	284	185	203	3/3	102	222	168	180	3/3	128	200	154	134	3/3	28.7	44.5	39.2	44.2
PCB200	1/3	2.59	2.59	1.36	1.00	0/3	--	--	0.854	0.664	0/3	--	--	0.556	0.541	0/3	--	--	0.530	0.580
PCB201	3/3	11.9	35.2	24.8	27.1	3/3	15.7	33.5	24.3	23.7	3/3	16.6	22.8	19.7	19.7	2/3	3.47	6.07	4.01	3.47
PCB202	3/3	35.8	94.6	66.2	68.2	3/3	44.7	81.9	66.7	73.4	3/3	46.1	59.8	52.0	50.1	3/3	7.31	11.8	8.93	7.64
PCB203	3/3	24.0	111	80.5	106	3/3	37.8	85.7	66.0	74.4	3/3	60.1	96.8	73.4	63.2	3/3	18.7	28.9	24.1	24.6
PCB204	1/3	1.61	1.61	1.10	1.20	1/3	1.57	1.57	0.944	0.635	0/3	--	--	0.534	0.541	0/3	--	--	0.535	0.594
PCB205	2/3	2.08	3.88	2.17	2.08	2/3	2.30	2.58	1.86	2.30	3/3	2.13	2.51	2.35	2.41	1/3	1.91	1.91	1.00	0.763
PCB206	3/3	11.1	51.5	36.4	46.5	3/3	24.1	37.7	32.7	36.3	3/3	31.8	44.4	36.8	34.2	3/3	9.78	16.5	13.2	13.3
PCB207	3/3	8.22	32.6	24.0	31.2	3/3	11.6	24.1	19.2	21.8	3/3	16.0	29.3	22.1	21.0	3/3	6.18	8.59	7.35	7.28
PCB208	3/3	13.2	50.0	35.9	44.5	3/3	23.5	36.0	31.1	34.0	3/3	29.4	38.7	32.9	30.4	3/3	9.15	17.1	13.1	13.1
PCB209	3/3	142	582	390	447	3/3	343	398	378	392	3/3	306	394	345	334	3/3	46.1	99.9	68.9	60.7

Notes

FCA = fish collection area
NA = data not available
ww = wet weight
-- = Not applicable, no detected values

a - Mean and median calculations include detected and non-detected values. Non-detected values were set at one-half the detection limit.

Table B-15
Summary Statistics for Polychlorinated Biphenyls in Fillet Hardhead Catfish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
Catfish - Fillet																				
Polychlorinated Biphenyls (ng/kg - ww)																				
PCB001	4/10	2.74	4.74	2.33	NA	5/10	3.63	12.5	4.57	NA	2/10	4.7	4.87	2.28	NA	0/10	--	--	1.06	NA
PCB002	0/10	--	--	0.957	NA	0/10	--	--	1.02	NA	0/10	--	--	0.994	NA	0/10	--	--	1.04	NA
PCB003	0/10	--	--	1.08	NA	1/10	1.83	1.83	1.3	NA	0/10	--	--	1.2	NA	0/10	--	--	1.22	NA
PCB004	1/10	19.4	19.4	10.8	NA	4/10	16	40.3	18.2	NA	3/10	20.8	22.9	19.2	NA	0/10	--	--	7.11	NA
PCB005	0/10	--	--	6.15	NA	0/10	--	--	5.85	NA	0/10	--	--	7.15	NA	0/10	--	--	4.64	NA
PCB006	0/10	--	--	5.67	NA	2/10	4.66	5.57	5.99	NA	0/10	--	--	5.95	NA	1/10	5.85	5.85	4.47	NA
PCB007	0/10	--	--	5.72	NA	0/10	--	--	5.51	NA	0/10	--	--	6.35	NA	0/10	--	--	4.24	NA
PCB008	1/10	8.12	8.12	5.83	NA	0/10	--	--	5.76	NA	0/10	--	--	7.02	NA	1/10	6.69	6.69	4.29	NA
PCB009	0/10	--	--	5.38	NA	0/10	--	--	5.26	NA	0/10	--	--	6.28	NA	0/10	--	--	4.02	NA
PCB010	0/10	--	--	6.11	NA	0/10	--	--	6.72	NA	0/10	--	--	9.89	NA	0/10	--	--	5.05	NA
PCB011	0/10	--	--	35.2	NA	0/10	--	--	45.6	NA	0/10	--	--	48	NA	0/10	--	--	32.7	NA
PCB012+013	0/10	--	--	5.53	NA	0/10	--	--	5.31	NA	0/10	--	--	6.33	NA	0/10	--	--	4.05	NA
PCB014	0/10	--	--	5.32	NA	0/10	--	--	5.08	NA	0/10	--	--	6.15	NA	0/10	--	--	3.87	NA
PCB015	0/10	--	--	5.92	NA	1/10	6.04	6.04	6.67	NA	0/10	--	--	6.98	NA	0/10	--	--	4.51	NA
PCB016	9/10	29.8	57.9	39.9	NA	10/10	30.2	90.2	44.4	NA	9/10	12.6	109	43.1	NA	7/10	6.25	23.6	11.4	NA
PCB017	3/10	13.2	19.1	7.34	NA	8/10	7.38	19.4	10.1	NA	8/10	5.95	32.7	12.8	NA	7/10	3.98	8.91	4.77	NA
PCB018+030	9/10	35.9	113	52.3	NA	10/10	36	115	60.1	NA	9/10	24.2	207	74.7	NA	10/10	7.91	31.7	17.3	NA
PCB019	9/10	26.3	72.9	41.7	NA	10/10	35.8	91.2	55.8	NA	10/10	17.6	93	56	NA	7/10	4.92	13.8	7.27	NA
PCB020+028	10/10	118	878	646	NA	10/10	400	1,000	665	NA	10/10	220	1,370	754	NA	10/10	183	534	303	NA
PCB021+033	8/10	3.91	25.8	11.8	NA	0/10	--	--	4.06	NA	4/10	8.27	14	7.36	NA	6/10	4.72	8.68	4.78	NA
PCB022	1/10	13.8	13.8	4.6	NA	1/10	13.4	13.4	5.24	NA	3/10	13.8	26.7	8.73	NA	1/10	4.41	4.41	1.79	NA
PCB023	0/10	--	--	1.02	NA	0/10	--	--	0.821	NA	0/10	--	--	0.932	NA	0/10	--	--	0.921	NA
PCB024	5/10	5.53	9	5.12	NA	9/10	4.23	10.7	6.71	NA	6/10	2.26	6.63	4.78	NA	3/10	1.62	1.81	1.23	NA
PCB025	5/10	4.86	16.7	6.97	NA	5/10	3.64	16	8.49	NA	8/10	4.38	30.9	13.3	NA	8/10	5.86	19.9	10.3	NA
PCB026+029	10/10	5.83	67.3	44	NA	10/10	34.8	93.8	55.1	NA	10/10	19	130	61.2	NA	9/10	21	54.3	31.7	NA
PCB027	5/10	4.29	11.8	4.55	NA	7/10	3.93	12.6	5.35	NA	7/10	2.12	21.6	6.75	NA	2/10	1.56	1.91	1	NA
PCB031	7/10	33.4	57.5	32.2	NA	10/10	28.5	86.1	52.7	NA	9/10	25.3	135	59.3	NA	10/10	23.1	83.2	46.9	NA
PCB032	1/10	12	12	4.02	NA	10/10	4.29	12.1	6.99	NA	8/10	3.81	16.1	6.9	NA	7/10	2.27	4.99	2.66	NA
PCB034	2/10	2.32	5.28	2.2	NA	5/10	3.46	6.89	3.14	NA	3/10	3.31	8.64	2.93	NA	0/10	--	--	1.24	NA
PCB035	0/10	--	--	0.922	NA	0/10	--	--	0.778	NA	0/10	--	--	0.843	NA	0/10	--	--	0.842	NA
PCB036	0/10	--	--	0.83	NA	0/10	--	--	0.678	NA	0/10	--	--	0.767	NA	0/10	--	--	0.764	NA
PCB037	0/10	--	--	2.48	NA	4/10	5.64	10.3	4.09	NA	4/10	3.28	7.83	4.21	NA	3/10	3.52	4.02	1.9	NA
PCB038	0/10	--	--	0.913	NA	0/10	--	--	0.763	NA	1/10	1.55	1.55	0.946	NA	0/10	--	--	0.845	NA
PCB039	0/10	--	--	0.89	NA	0/10	--	--	0.74	NA	0/10	--	--	0.833	NA	0/10	--	--	0.831	NA
PCB040+041+071	8/10	36	86.3	44.6	NA	10/10	36.7	92.7	54.2	NA	10/10	17	148	63.1	NA	7/10	9.67	31.5	15.1	NA
PCB042	9/10	79.9	270	128	NA	10/10	87.2	228	137	NA	10/10	38.1	328	145	NA	10/10	15.3	65.5	36.8	NA
PCB043+073	2/10	13.7	19.9	4.38	NA	6/10	8.65	20.2	11.4	NA	1/10	17.1	17.1	2.67	NA	4/10	4.08	10	3.19	NA
PCB044+047+065	10/10	448	4,960	3150	NA	10/10	1,720	4,420	2,950	NA	10/10	961	5,320	3,280	NA	10/10	572	1,990	1,030	NA
PCB045+051	10/10	11.8	153	96.5	NA	10/10	60.2	175	96.9	NA	10/10	31.8	197	105	NA	10/10	16.1	47.3	27.9	NA

Table B-15
Summary Statistics for Polychlorinated Biphenyls in Fillet Hardhead Catfish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB046	5/10	7.73	16.4	7.11	NA	6/10	5.43	19	7.94	NA	4/10	4.13	21.9	6.73	NA	3/10	2.44	3.45	1.92	NA
PCB048	1/10	28.2	28.2	3.48	NA	1/10	8.72	8.72	2.86	NA	3/10	5.54	32.6	5.72	NA	1/10	3.85	3.85	1.43	NA
PCB049+069	10/10	244	3,150	2,070	NA	10/10	1,250	2,920	1,950	NA	10/10	658	4,000	2,210	NA	10/10	425	1,450	756	NA
PCB050+053	10/10	18.2	340	192	NA	10/10	183	430	273	NA	10/10	57.1	476	282	NA	10/10	29.3	99.3	52.2	NA
PCB052	10/10	304	4,100	2,620	NA	10/10	1,770	3,840	2,570	NA	10/10	819	5,550	2,940	NA	10/10	516	1,630	851	NA
PCB054	7/10	4.66	14.3	7.84	NA	7/10	7.95	18.9	9.9	NA	9/10	3.36	14.5	9.64	NA	5/10	1.73	2.56	1.42	NA
PCB055	0/10	--	--	0.576	NA	0/10	--	--	0.73	NA	0/10	--	--	0.692	NA	0/10	--	--	0.58	NA
PCB056	5/10	7.61	28.3	8.43	NA	6/10	10.2	16.4	9.98	NA	8/10	5.23	50.4	17.2	NA	2/10	2.57	4.61	1.91	NA
PCB057	0/10	--	--	0.649	NA	0/10	--	--	0.738	NA	1/10	4.11	4.11	1.11	NA	3/10	1.63	1.99	1.16	NA
PCB058	2/10	3.65	6.89	1.78	NA	1/10	3.19	3.19	0.931	NA	0/10	--	--	0.99	NA	5/10	7.86	19.3	6.43	NA
PCB059+062+075	10/10	22.6	292	186	NA	10/10	125	270	179	NA	10/10	51.2	413	208	NA	10/10	29.7	96.9	54.7	NA
PCB060	10/10	68	712	402	NA	10/10	262	641	418	NA	10/10	117	645	470	NA	10/10	58.1	368	138	NA
PCB061+070+2m	10/10	272	2,950	1,750	NA	10/10	1,260	2,760	1,880	NA	10/10	547	2,810	2,070	NA	10/10	390	1,460	731	NA
PCB063	10/10	14.8	167	110	NA	10/10	71.4	167	112	NA	10/10	31.8	173	121	NA	10/10	23.2	85.1	41.7	NA
PCB064	10/10	36.3	707	383	NA	10/10	264	672	415	NA	10/10	120	1,180	508	NA	10/10	48.7	167	96.3	NA
PCB066	10/10	458	4,810	2,860	NA	10/10	1,780	4,420	2,860	NA	10/10	861	4,390	3,160	NA	10/10	513	1,940	1,020	NA
PCB067	0/10	--	--	1.02	NA	0/10	--	--	0.6	NA	0/10	--	--	0.783	NA	5/10	5.35	10.3	4.51	NA
PCB068	9/10	30.6	77.7	50.6	NA	10/10	37.2	77.5	52.4	NA	9/10	19	79.5	53.1	NA	10/10	20	74	34.4	NA
PCB072	10/10	2.91	62	39	NA	10/10	29.5	68.7	41.2	NA	10/10	12.9	67.2	40.8	NA	9/10	15.5	44.7	22.4	NA
PCB077	8/10	3.47	13.8	6.66	7.71	7/10	7.42	23.3	10.9	10.8	7/10	3.77	29.8	12.8	13.6	8/10	4.77	14.7	7.42	7.11
PCB078	0/10	--	--	1.17	NA	0/10	--	--	1.38	NA	0/10	--	--	1.46	NA	0/10	--	--	1.11	NA
PCB079	7/10	2.26	21	8.58	NA	7/10	5.34	11.7	7.47	NA	5/10	5.98	19.2	7.14	NA	1/10	1.98	1.98	1.9	NA
PCB080	0/10	--	--	1.04	NA	0/10	--	--	1.24	NA	0/10	--	--	1.3	NA	0/10	--	--	0.96	NA
PCB081	1/10	3.9	3.9	1.55	1.23	0/10	--	--	1.69	1.37	4/10	3.25	5.27	2.84	2.33	0/10	--	--	1.27	1.23
PCB082	4/10	16.5	46.1	13.3	NA	7/10	17.7	42.3	20.2	NA	3/10	8.09	25.3	12.2	NA	3/10	4.9	11.5	4.92	NA
PCB083+099	10/10	1,830	13,800	7,640	NA	10/10	4,060	12,800	7,420	NA	10/10	2,200	11,100	7,910	NA	10/10	1,820	6,860	3,520	NA
PCB084	9/10	46.5	179	92	NA	10/10	90.7	264	146	NA	9/10	58.5	210	118	NA	10/10	27	106	51.2	NA
PCB085+116	10/10	395	2,240	1,190	NA	10/10	522	2,070	1,190	NA	10/10	273	1,750	1,220	NA	10/10	191	719	360	NA
PCB086+087+4ma	10/10	219	2,140	1,270	NA	10/10	792	1,820	1,280	NA	10/10	364	2,450	1,310	NA	10/10	250	853	465	NA
PCB088+091	10/10	59.2	602	396	NA	10/10	317	793	479	NA	10/10	130	651	410	NA	10/10	134	519	237	NA
PCB089	0/10	--	--	0.709	NA	0/10	--	--	1.01	NA	0/10	--	--	0.97	NA	0/10	--	--	0.723	NA
PCB090+101+113	10/10	869	7,630	4,770	NA	10/10	2,610	7,050	4,610	NA	10/10	1,380	8,760	4,920	NA	10/10	1,040	3,570	1,860	NA
PCB092	10/10	81	895	553	NA	10/10	422	842	610	NA	10/10	164	1,260	644	NA	10/10	173	519	266	NA
PCB093+100	10/10	56.4	433	246	NA	10/10	116	426	253	NA	10/10	72.1	351	248	NA	10/10	61.8	246	115	NA
PCB094	8/10	5.04	17	9.99	NA	8/10	8.18	24.5	12.7	NA	6/10	9.38	24.9	10.9	NA	8/10	3.47	14.3	5.61	NA
PCB095	10/10	104	1,340	812	NA	10/10	693	1,840	1,050	NA	10/10	231	1,750	936	NA	10/10	219	861	396	NA
PCB096	6/10	4.34	8.06	4.02	NA	5/10	4.47	11.5	5.05	NA	6/10	2.37	11.4	4.31	NA	3/10	1.68	5.17	1.44	NA
PCB098+102	3/10	32.9	44.7	18.5	NA	10/10	19.8	59.3	33.3	NA	8/10	7.94	79.1	29.8	NA	7/10	8.25	21.1	10.6	NA
PCB103	10/10	14.9	128	88.5	NA	10/10	51.9	156	95.2	NA	10/10	27.7	116	83.2	NA	10/10	27.1	117	50.4	NA
PCB104	2/10	3.59	3.64	1.4	NA	5/10	1.75	3.52	1.7	NA	3/10	2.01	3.18	1.5	NA	1/10	1.11	1.11	0.539	NA
PCB105	10/10	515	3,970	2140	2020	10/10	1,220	4,010	2,350	2,350	10/10	569	3,610	2,470	2,760	10/10	318	1,410	685	533

Table B-15
Summary Statistics for Polychlorinated Biphenyls in Fillet Hardhead Catfish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB106	0/10	--	--	2.01	NA	0/10	--	--	1.98	NA	0/10	--	--	1.95	NA	0/10	--	--	1.53	NA
PCB107	10/10	102	758	481	NA	10/10	310	820	491	NA	10/10	144	788	541	NA	10/10	134	529	251	NA
PCB108+124	6/10	12.4	37.5	18.4	NA	9/10	21.5	60.8	36.5	NA	9/10	6.7	81.5	39.4	NA	9/10	14.5	40.4	21.7	NA
PCB110+115	10/10	200	2,440	1,200	NA	10/10	974	2,000	1,410	NA	10/10	334	3,970	1,630	NA	10/10	184	603	365	NA
PCB111	6/10	5.68	25.1	10.7	NA	5/10	7.71	19.8	10.2	NA	7/10	5.02	18.9	10.5	NA	6/10	6.31	15.7	7.11	NA
PCB112	0/10	--	--	2.93	NA	0/10	--	--	2.37	NA	0/10	--	--	2.71	NA	0/10	--	--	2.15	NA
PCB114	9/10	83.5	239	131	119	9/10	79.3	234	132	141	10/10	36.8	211	148	164	6/10	28.6	89	38.3	32.9
PCB117	9/10	30.4	107	65.5	NA	9/10	35.9	88.7	62.1	NA	9/10	26.8	158	76.6	NA	7/10	26	81.9	31.4	NA
PCB118	10/10	1,700	12,100	6,930	6,490	10/10	3,980	12,200	7,230	6,990	10/10	1,970	10,600	7,630	8,210	10/10	1,350	5,540	2,760	2270
PCB120	10/10	32.4	152	87.9	NA	10/10	52.3	140	82.8	NA	10/10	24.7	120	84	NA	10/10	31.5	113	59.3	NA
PCB121	2/10	5.81	11.6	4.45	NA	2/10	11.3	17.1	4.97	NA	2/10	3.1	10.7	3.85	NA	2/10	5.2	6.89	3.21	NA
PCB122	0/10	--	--	2.27	NA	0/10	--	--	2.1	NA	0/10	--	--	2.02	NA	0/10	--	--	1.7	NA
PCB123	9/10	72	238	126	117	10/10	72.8	234	139	136	10/10	27.5	195	139	160	8/10	19.9	82.6	37.1	33.7
PCB126	6/10	6.12	16.1	8.88	7.58	6/10	8.28	16.1	8.5	9.24	4/10	10.7	22.5	9.45	7.55	5/10	2.55	6.12	3.11	3.03
PCB127	0/10	--	--	2.12	NA	0/10	--	--	2.33	NA	6/10	7.77	13.1	8.07	NA	0/10	--	--	1.66	NA
PCB128+166	10/10	349	2,360	1,300	NA	10/10	724	2,520	1,370	NA	10/10	361	2,150	1,450	NA	10/10	275	1,190	567	NA
PCB129+138+163	10/10	2,220	15,200	8,790	NA	10/10	6,010	15,900	9,430	NA	10/10	2,490	14,700	9,880	NA	10/10	2,050	7,930	4,110	NA
PCB130	9/10	108	265	167	NA	10/10	131	277	197	NA	10/10	48.8	340	198	NA	10/10	78.4	251	118	NA
PCB131	0/10	--	--	1.86	NA	1/10	15.3	15.3	3.38	NA	0/10	--	--	1.64	NA	2/10	4.14	5.56	1.98	NA
PCB132	10/10	46.5	568	343	NA	10/10	294	686	436	NA	10/10	97.1	672	407	NA	10/10	115	391	186	NA
PCB133	10/10	28.9	204	141	NA	10/10	87.9	216	134	NA	10/10	39.3	212	137	NA	10/10	50.4	169	87.5	NA
PCB134	0/10	--	--	1.87	NA	1/10	33.9	33.9	5.41	NA	0/10	--	--	1.73	NA	2/10	12	14.4	5.38	NA
PCB135+151	10/10	56.4	604	369	NA	10/10	310	749	470	NA	10/10	101	1,050	477	NA	10/10	117	462	222	NA
PCB136	9/10	16.4	73.5	35.9	NA	10/10	40	129	63.5	NA	10/10	12.8	86.1	45.2	NA	10/10	13.1	59.8	26.9	NA
PCB137	10/10	84	647	376	NA	10/10	253	699	394	NA	10/10	103	693	452	NA	10/10	69.6	352	161	NA
PCB139+140	10/10	38.8	276	162	NA	10/10	90.1	291	165	NA	10/10	45.2	261	177	NA	10/10	39.5	148	75	NA
PCB141	10/10	113	1,020	638	NA	10/10	392	1,090	650	NA	10/10	179	1,140	740	NA	10/10	134	473	237	NA
PCB142	0/10	--	--	1.8	NA	0/10	--	--	2.01	NA	0/10	--	--	1.63	NA	0/10	--	--	1.2	NA
PCB143	0/10	--	--	1.74	NA	0/10	--	--	1.84	NA	0/10	--	--	1.52	NA	0/10	--	--	1.16	NA
PCB144	10/10	18.2	290	150	NA	10/10	73.3	289	161	NA	10/10	50.5	262	176	NA	10/10	21	69.6	37.7	NA
PCB145	0/10	--	--	0.437	NA	0/10	--	--	0.562	NA	0/10	--	--	0.602	NA	0/10	--	--	0.583	NA
PCB146	10/10	570	3,700	2,100	NA	10/10	1,330	3,600	2,070	NA	10/10	595	3,070	2,170	NA	10/10	563	2,260	1,140	NA
PCB147+149	10/10	395	3530	2250	NA	10/10	1,590	3,800	2,520	NA	10/10	672	3,820	2,470	NA	10/10	792	2,750	1,280	NA
PCB148	10/10	15.6	67.6	41.7	NA	10/10	23.1	66.8	40.3	NA	10/10	11.6	58.6	37.6	NA	10/10	14.7	54.3	27.3	NA
PCB150	5/10	2.85	6.37	4.2	NA	10/10	5.2	17.6	8.7	NA	7/10	4.27	10.2	5.47	NA	6/10	4.91	17.4	6.73	NA
PCB152	6/10	1.42	2.82	1.41	NA	3/10	1.27	2.61	1.08	NA	3/10	1.9	3.94	1.38	NA	0/10	--	--	0.559	NA
PCB153+168	10/10	3,470	21,600	12,200	NA	10/10	7,700	20,300	11,900	NA	10/10	3,350	17,500	12,400	NA	10/10	3,040	14,100	6,450	NA
PCB154	10/10	149	971	511	NA	10/10	296	944	484	NA	10/10	147	782	536	NA	10/10	145	539	287	NA
PCB155	9/10	7.14	44.1	26.2	NA	10/10	15.7	42.8	24.4	NA	9/10	8.17	35	23.6	NA	9/10	6.44	28.6	13	NA
PCB156+157	10/10	222	1,550	876	817	10/10	589	1,650	951	928	10/10	254	1,560	1,050	1,100	10/10	189	824	388	308
PCB158	10/10	168	1,260	717	NA	10/10	473	1,310	749	NA	10/10	199	1270	815	NA	10/10	130	592	279	NA

Table B-15
Summary Statistics for Polychlorinated Biphenyls in Fillet Hardhead Catfish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB159	8/10	6.24	27.3	14.6	NA	9/10	12	27.8	16.7	NA	8/10	8.98	29.3	18.5	NA	6/10	4.82	19.7	6.96	NA
PCB160	0/10	--	--	1.37	NA	0/10	--	--	1.49	NA	0/10	--	--	1.17	NA	0/10	--	--	0.945	NA
PCB161	0/10	--	--	1.26	NA	0/10	--	--	1.4	NA	0/10	--	--	1.12	NA	0/10	--	--	0.857	NA
PCB162	9/10	32	88.7	50.3	NA	9/10	29.2	79.3	45.1	NA	10/10	14.8	80.9	54	NA	9/10	16.7	71.2	30.8	NA
PCB164	10/10	35.7	369	212	NA	10/10	161	374	252	NA	9/10	95.2	469	262	NA	10/10	55.3	193	91.1	NA
PCB165	0/10	--	--	1.42	NA	0/10	--	--	1.57	NA	0/10	--	--	1.27	NA	1/10	3.21	3.21	1.74	NA
PCB167	10/10	59.3	490	305	282	10/10	193	526	329	319	10/10	87.2	511	346	380	10/10	84.9	310	149	129
PCB169	2/10	4.48	4.92	2.36	1.84	0/10	--	--	3.02	1.42	0/10	--	--	2.01	2.02	0/10	--	--	1.52	1.18
PCB170	10/10	449	3,320	1,840	1,810	10/10	1,220	3,170	1,790	1,740	10/10	582	3,200	2,160	2,260	10/10	440	2,570	1,040	763
PCB171+173	10/10	164	1,110	621	NA	10/10	423	1,030	616	NA	10/10	200	995	706	NA	10/10	132	774	314	NA
PCB172	10/10	90.9	635	357	NA	10/10	216	532	323	NA	10/10	115	593	385	NA	10/10	100	553	228	NA
PCB174	10/10	55.8	663	357	NA	10/10	312	637	453	NA	10/10	162	882	510	NA	10/10	129	429	193	NA
PCB175	10/10	16.6	95.5	64.8	NA	10/10	45.2	110	64.9	NA	8/10	25.5	92.3	60	NA	9/10	20.7	73.6	38.3	NA
PCB176	8/10	2	30.2	16.2	NA	7/10	14.4	41.3	20.3	NA	8/10	5.46	34.9	15.6	NA	9/10	6.61	30.9	13.6	NA
PCB177	9/10	13.4	262	141	NA	10/10	104	268	182	NA	9/10	50.4	426	190	NA	10/10	84.9	278	125	NA
PCB178	10/10	56.1	435	270	NA	10/10	199	395	283	NA	10/10	96.8	442	272	NA	10/10	118	401	197	NA
PCB179	9/10	5.64	98.7	51.2	NA	10/10	47.6	139	79.2	NA	10/10	19.8	110	66.2	NA	10/10	22.9	101	44.1	NA
PCB180+193	10/10	1,160	8,400	4,720	4540	10/10	3,020	6,710	4,120	3,930	10/10	1,450	7,710	4,840	5,110	10/10	1,110	6,970	2,700	1990
PCB181	7/10	11.4	37.1	17.7	NA	5/10	15.8	34.6	14.6	NA	7/10	20	37	21.2	NA	7/10	3.91	23.8	8.52	NA
PCB182	7/10	6.28	26.1	15	NA	8/10	13.7	38.2	19.5	NA	9/10	7.14	36.1	22.2	NA	7/10	8.6	29.9	11.7	NA
PCB183	10/10	311	2,460	1,400	NA	10/10	1,110	2,450	1,490	NA	10/10	548	2,190	1,540	NA	10/10	294	2,020	764	NA
PCB184	7/10	3.62	22.4	10.9	NA	8/10	9.69	20.1	11.7	NA	7/10	12.4	21.5	13.2	NA	9/10	4.97	18	8.28	NA
PCB185	10/10	9.13	113	68.2	NA	8/10	34.2	97.5	59.3	NA	9/10	33.9	141	92.6	NA	3/10	19.6	76	20	NA
PCB186	0/10	--	--	0.462	NA	0/10	--	--	0.701	NA	0/10	--	--	0.576	NA	0/10	--	--	0.572	NA
PCB187	10/10	730	4,710	3,000	NA	10/10	2,230	5,320	3,240	NA	10/10	1,020	4,670	3,190	NA	10/10	949	3,720	1,870	NA
PCB188	10/10	5.86	32.6	19.8	NA	9/10	11.9	36.3	18.7	NA	10/10	6.61	25.1	19.6	NA	10/10	9.24	39.6	18	NA
PCB189	10/10	17.4	111	66.4	59.5	9/10	42.2	104	56.7	54.5	10/10	22	120	75.4	79.5	10/10	22	101	42.5	32.3
PCB190	10/10	84.2	671	371	NA	10/10	247	651	367	NA	10/10	126	643	436	NA	10/10	80.8	502	200	NA
PCB191	10/10	21.2	145	83	NA	10/10	59.9	130	80.8	NA	10/10	28.7	146	97.2	NA	10/10	18.9	104	43.2	NA
PCB192	0/10	--	--	1.29	NA	0/10	--	--	1.6	NA	0/10	--	--	1.71	NA	0/10	--	--	1.37	NA
PCB194	10/10	207	1,310	789	NA	10/10	393	1,070	593	NA	10/10	235	1,400	787	NA	10/10	323	1,330	605	NA
PCB195	10/10	77.1	553	321	NA	10/10	224	582	323	NA	10/10	93.1	544	377	NA	10/10	101	433	205	NA
PCB196	10/10	120	789	473	NA	10/10	313	820	480	NA	10/10	150	858	565	NA	10/10	135	612	295	NA
PCB197	10/10	23.4	149	89.6	NA	10/10	66.5	156	95.1	NA	10/10	31	144	102	NA	10/10	27.9	119	55.5	NA
PCB198+199	10/10	160	1,340	807	NA	10/10	579	1,450	863	NA	10/10	267	1,540	990	NA	10/10	305	1,150	580	NA
PCB200	8/10	5.36	13.6	8.57	NA	5/10	11.3	22	10.7	NA	6/10	3.93	26	11	NA	7/10	5.76	20.4	7.74	NA
PCB201	10/10	19.9	153	96.1	NA	9/10	66.7	137	83.1	NA	10/10	35.9	148	95.5	NA	10/10	45.5	169	84.2	NA
PCB202	10/10	26.5	198	129	NA	9/10	102	167	122	NA	10/10	44.9	208	134	NA	10/10	74.5	244	114	NA
PCB203	10/10	192	1,290	749	NA	10/10	525	1,380	796	NA	10/10	242	1,330	912	NA	10/10	232	1,030	494	NA
PCB204	9/10	2	10.8	5.66	NA	8/10	4.55	10.9	6.17	NA	4/10	8.33	12.6	5.67	NA	4/10	2.01	3.71	1.85	NA
PCB205	10/10	10.8	64.1	38	NA	9/10	27.6	69.5	36.9	NA	8/10	19	65	42.5	NA	8/10	15.2	65.5	25.1	NA

Table B-15
Summary Statistics for Polychlorinated Biphenyls in Fillet Hardhead Catfish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB206	10/10	113	663	416	NA	10/10	310	748	438	NA	10/10	167	722	498	NA	10/10	175	750	358	NA
PCB207	10/10	67.3	360	218	NA	10/10	139	376	226	NA	10/10	79.9	370	259	NA	10/10	88.3	289	161	NA
PCB208	10/10	76.6	489	298	NA	10/10	166	484	286	NA	10/10	133	466	337	NA	10/10	154	538	273	NA
PCB209	10/10	1,340	7,210	4,590	NA	10/10	2,850	8,300	4,910	NA	10/10	1,960	8,230	5,270	NA	10/10	1,370	4,310	2,290	NA

Notes

FCA = fish collection area
NA = data not available
ww = wet weight
-- = Not applicable, no detected values

a - Mean and median calculations include detected and non-detected values. Non-detected values were set at one-half the detection limit.

Table B-16
Summary Statistics for Polychlorinated Biphenyls in Whole Hardhead Catfish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
Catfish - Whole																				
Polychlorinated Biphenyls (ng/kg - ww)																				
PCB001	3/3	10.1	19.8	13.7	11.0	3/4	11.4	18.2	13.6	12.7	3/3	14.7	24.3	19.1	18.1	4/8	3.27	5.74	2.84	2.51
PCB002	0/3	--	--	1.30	1.37	0/4	--	--	1.12	0.987	0/3	--	--	1.56	1.58	0/8	--	--	0.943	1.05
PCB003	0/3	--	--	1.43	1.52	1/4	1.04	1.04	1.30	1.16	0/3	--	--	1.79	1.80	1/8	2.12	2.12	1.26	1.23
PCB004	3/3	83.2	126	104	104	4/4	56.7	129	95.1	97.5	2/3	59.5	83.9	68.8	62.9	5/8	11.9	26.2	16.6	16.7
PCB005	0/3	--	--	4.90	4.50	0/4	--	--	4.90	3.37	0/3	--	--	15.6	14.5	4/8	13.1	15.7	10.5	11.0
PCB006	3/3	24.2	42.1	31.4	28.1	1/4	13.4	13.4	11.9	12.0	0/3	--	--	12.9	11.9	3/8	11.0	17.8	8.06	6.45
PCB007	0/3	--	--	4.46	3.91	1/4	7.72	7.72	6.91	6.54	0/3	--	--	13.8	12.8	2/8	8.27	9.59	5.76	5.43
PCB008	2/3	20.7	23.7	19.0	20.7	2/4	25.1	28.0	18.3	17.7	0/3	--	--	13.4	12.4	3/8	11.1	19.8	8.32	6.04
PCB009	1/3	13.0	13.0	10.3	13.0	2/4	10.7	19.1	12.1	10.5	0/3	--	--	13.7	12.9	2/8	9.44	9.74	6.06	5.41
PCB010	0/3	--	--	7.29	5.53	0/4	--	--	7.06	4.05	0/3	--	--	19.3	9.81	0/8	--	--	3.39	2.84
PCB011	0/3	--	--	35.5	33.5	0/4	--	--	54.2	52.9	0/3	--	--	40.4	25.9	0/8	--	--	37.9	35.1
PCB012+013	0/3	--	--	4.31	3.86	0/4	--	--	4.44	3.08	0/3	--	--	13.8	12.9	0/8	--	--	3.61	3.05
PCB014	0/3	--	--	4.15	3.71	0/4	--	--	4.24	2.97	0/3	--	--	13.4	12.6	0/8	--	--	3.46	2.95
PCB015	3/3	24.1	37.6	31.5	32.9	2/4	18.9	31.6	18.1	15.3	0/3	--	--	15.4	14.9	0/8	--	--	4.26	4.10
PCB016	3/3	211	288	253	262	4/4	112	271	190	189	3/3	174	256	228	252	8/8	31.0	78.1	52.6	53.3
PCB017	3/3	49.5	86.8	63.1	53.1	3/4	26.0	73.4	39.8	32.2	3/3	54.2	79.4	66.7	66.6	8/8	10.1	25.3	19.5	19.7
PCB018+030	3/3	309	482	368	315	4/4	149	449	273	246	3/3	239	485	366	372	8/8	29.3	94.3	64.6	64.1
PCB019	3/3	229	316	267	257	4/4	166	333	264	279	3/3	197	299	255	269	8/8	25.3	45.8	36.1	35.5
PCB020+028	3/3	2,560	3,680	2,960	2,650	4/4	1,780	3,360	2,710	2,850	3/3	2,860	3,330	3,150	3,260	8/8	760	1,600	974	921
PCB021+033	3/3	27.1	33.2	29.7	28.8	3/4	24.9	31.9	22.6	25.5	3/3	38.7	42.6	41.1	41.9	6/8	2.56	23.4	11.7	11.8
PCB022	3/3	39.5	60.4	47.7	43.3	4/4	24.8	51.4	36.4	34.8	3/3	42.6	66.7	55.4	56.8	2/8	11.0	12.7	6.59	5.34
PCB023	0/3	--	--	2.07	1.95	0/4	--	--	2.21	2.41	0/3	--	--	1.73	1.78	0/8	--	--	1.69	1.25
PCB024	3/3	32.9	43.3	37.7	36.7	4/4	17.9	38.7	31.3	34.2	3/3	30.6	33.9	32.4	32.8	6/8	7.07	11.9	7.79	8.34
PCB025	3/3	44.1	55.8	48.3	45.0	4/4	41.5	85.5	63.9	64.4	3/3	49.8	79.1	62.6	58.8	8/8	34.7	77.3	50.3	49.2
PCB026+029	3/3	209	329	256	230	4/4	184	292	264	289	3/3	251	345	292	280	8/8	122	213	154	150
PCB027	3/3	31.1	54.9	39.7	33.0	4/4	15.2	41.4	26.5	24.8	3/3	30.2	54.9	43.9	46.8	7/8	4.97	10.1	7.25	7.93
PCB031	3/3	176	225	201	201	4/4	219	280	248	246	3/3	188	355	263	247	8/8	147	327	205	190
PCB032	3/3	27.5	48.0	36.5	33.9	4/4	14.4	32.5	24.0	24.6	3/3	31.9	35.4	33.7	33.7	8/8	5.66	14.5	8.97	8.83
PCB034	3/3	9.53	28.4	18.6	17.7	4/4	8.84	21.3	16.2	17.2	3/3	17.9	24.1	21.9	23.9	3/8	9.25	20.7	8.16	5.82
PCB035	0/3	--	--	1.90	1.77	0/4	--	--	2.06	2.21	0/3	--	--	1.56	1.69	0/8	--	--	1.56	1.14
PCB036	0/3	--	--	1.73	1.64	0/4	--	--	1.81	1.96	0/3	--	--	1.42	1.55	0/8	--	--	1.40	1.04
PCB037	2/3	23.5	26.3	21.6	23.5	4/4	17.8	35.3	28.2	29.9	2/3	19.3	35.9	23.5	19.3	4/8	8.45	14.5	7.74	7.24
PCB038	0/3	--	--	2.10	1.78	0/4	--	--	2.04	2.20	1/3	8.76	8.76	3.91	1.71	0/8	--	--	1.57	1.14
PCB039	0/3	--	--	1.84	1.73	0/4	--	--	1.98	2.14	0/3	--	--	1.54	1.66	0/8	--	--	1.53	1.13
PCB040+041+071	3/3	285	432	340	302	4/4	148	305	243	260	3/3	204	371	305	341	8/8	45.9	104	75.3	76.4
PCB042	3/3	748	1,080	861	752	4/4	407	861	644	654	3/3	485	781	682	778	8/8	85.7	218	159	158
PCB043+073	1/3	55.0	55.0	30.1	34.4	2/4	2.58	37.5	10.6	1.98	0/3	--	--	1.15	1.04	4/8	1.28	20.2	7.28	3.81
PCB044+047+065	3/3	17,200	22,600	20,100	20,600	4/4	6910	22,400	15,300	15,900	3/3	12,800	20,900	18,000	20,300	8/8	3,250	7,530	4,890	4,680
PCB045+051	3/3	440	537	501	527	4/4	252	566	425	440	3/3	400	476	438	438	8/8	79.3	169	110	103
PCB046	3/3	54.9	58.7	56.7	56.4	3/4	27.0	62.2	40.5	41.1	1/3	54.5	54.5	19.0	1.32	5/8	1.36	15.5	8.18	8.24
PCB048	2/3	38.9	87.1	42.3	38.9	0/4	--	--	0.922	0.941	2/3	2.04	72.3	25.2	2.04	3/8	7.07	10.7	4.13	1.19
PCB049+069	3/3	12,600	15,100	13,900	13,900	4/4	5040	14,700	10,400	11,000	3/3	9,420	14,400	11,900	12,100	8/8	2,540	5,540	3,500	3,410

Table B-16
Summary Statistics for Polychlorinated Biphenyls in Whole Hardhead Catfish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB050+053	3/3	732	1,150	990	1,080	4/4	804	1,850	1,340	1,340	3/3	769	1,240	1,000	1,010	8/8	170	354	222	209
PCB052	3/3	15,900	19,000	17,300	17,000	4/4	7,030	18,400	13,600	14,400	3/3	11,000	19,800	15,200	14,900	8/8	2,830	6,150	3,960	3,820
PCB054	3/3	20.0	56.7	41.3	47.1	4/4	32.7	64.5	55.3	62.0	3/3	38.0	54.4	43.7	38.7	8/8	5.53	10.5	8.04	7.93
PCB055	0/3	--	--	0.657	0.665	0/4	--	--	0.752	0.772	0/3	--	--	0.944	0.824	0/8	--	--	0.687	0.718
PCB056	3/3	60.7	122	82.3	64.1	4/4	52.6	83.7	66.3	64.5	3/3	55.3	145	108	123	6/8	9.74	21.3	13.6	15.5
PCB057	1/3	10.8	10.8	5.41	4.72	0/4	--	--	1.34	0.731	0/3	--	--	2.19	1.06	6/8	7.58	16.7	8.60	9.48
PCB058	2/3	18.0	164	61.0	18.0	0/4	--	--	0.701	0.730	0/3	--	--	0.879	0.765	6/8	8.79	44.5	23.8	20.3
PCB059+062+075	3/3	1,150	1,280	1,230	1,240	4/4	495	1,120	901	995	3/3	711	1,390	1,080	1,130	8/8	175	346	242	235
PCB060	3/3	2,140	2,940	2,460	2,290	4/4	1,080	3,300	2,350	2,520	3/3	1,720	3,300	2,520	2,550	8/8	289	1,060	610	600
PCB061+070+2m	3/3	10,100	12,500	11,200	10,900	4/4	5,170	14,900	10,600	11,200	3/3	8,240	14,200	11,400	11,800	8/8	2,130	5,000	3510	3,480
PCB063	3/3	667	852	739	700	4/4	278	887	620	657	3/3	506	811	690	751	8/8	116	302	200	194
PCB064	3/3	2,160	3,160	2,590	2,450	4/4	1,260	2,560	1,970	2,030	3/3	1,410	3,370	2,470	2,630	8/8	287	575	424	422
PCB066	3/3	15,700	21,000	18,300	18,100	4/4	6990	23,000	15,900	16,800	3/3	13,000	20,800	17,700	19,100	8/8	2,820	7,290	4,900	4,880
PCB067	2/3	34.5	35.3	23.5	34.5	0/4	--	--	0.621	0.649	0/3	--	--	0.777	0.672	8/8	12.4	32.3	24.8	28.1
PCB068	3/3	10.6	401	259	366	4/4	166	441	306	309	3/3	262	357	316	330	8/8	5.10	273	146	138
PCB072	3/3	201	244	229	241	4/4	134	272	211	220	3/3	166	238	210	227	8/8	66.2	176	106	93.5
PCB077	3/3	38.1	61.0	49.2	48.3	4/4	52.2	78.5	64.6	63.8	3/3	16.8	81.4	55.1	67.0	8/8	28.8	52.5	37.4	36.6
PCB078	0/3	--	--	2.56	2.46	0/4	--	--	4.09	3.67	0/3	--	--	3.87	3.67	0/8	--	--	1.70	1.47
PCB079	3/3	32.2	81.1	55.3	52.7	4/4	11.3	68.7	45.8	51.6	3/3	47.8	55.3	52.7	55.1	8/8	15.7	29.9	20.7	20.4
PCB080	0/3	--	--	2.28	2.16	0/4	--	--	3.80	3.52	0/3	--	--	3.46	3.26	0/8	--	--	1.48	1.29
PCB081	2/3	5.70	14.2	8.24	5.70	2/4	18.1	20.4	12.3	12.5	2/3	9.15	19.1	12.2	9.15	2/8	5.88	15.1	4.86	3.09
PCB082	2/3	47.7	208	89.6	47.7	4/4	63.2	157	111	112	2/3	142	142	100	142	2/8	17.8	25.6	11.6	8.90
PCB083+099	3/3	43,600	46,400	45,200	45,600	4/4	18,000	73,300	43,600	41,500	3/3	34,700	48,500	40,900	39,600	8/8	9290	34,500	19,900	17,400
PCB084	3/3	434	606	542	584	4/4	378	794	634	682	3/3	419	597	489	451	8/8	149	363	214	201
PCB085+116	3/3	6,480	8,490	7,290	6,900	4/4	2,330	9,670	6,370	6,740	3/3	4,630	9,960	8,100	9,700	8/8	982	3,410	2,040	1,770
PCB086+087+4ma	3/3	8,100	9210	8,600	8,500	4/4	3,400	8,730	6,940	7,820	3/3	5,700	9,270	7,670	8,030	8/8	1,460	3,070	2,250	2,200
PCB088+091	3/3	2,420	2,850	2,620	2,610	4/4	1,300	3,150	2,430	2,630	3/3	2,100	2,210	2,140	2,130	8/8	816	1,880	1,090	993
PCB089	0/3	--	--	1.89	0.676	0/4	--	--	1.42	0.916	0/3	--	--	1.65	1.32	0/8	--	--	0.955	0.940
PCB090+101+113	3/3	26,700	33,000	30,000	30,300	4/4	11,500	43,200	27,900	28,400	3/3	21,800	31,700	27,500	29,100	8/8	6,300	14,200	9620	9,110
PCB092	3/3	3,080	4,130	3,760	4,070	4/4	1,890	4,350	3,320	3,520	3/3	2,440	5,240	3,680	3,370	8/8	947	1,940	1,330	1,240
PCB093+100	3/3	1,480	1,860	1,640	1,570	4/4	515	2,430	1,450	1,430	3/3	1,210	1,930	1,650	1,800	8/8	343	997	616	534
PCB094	3/3	57.2	73.7	65.4	65.4	4/4	31.8	99.5	65.3	65.0	3/3	38.2	82.4	62.1	65.7	7/8	11.2	46.7	21.8	18.4
PCB095	3/3	3,590	5,400	4,740	5,240	4/4	2,820	6,480	4,880	5,110	3/3	3,260	4,940	4,300	4,690	8/8	1,160	2,820	1,630	1,450
PCB096	3/3	18.8	29.8	24.9	26.0	4/4	17.6	35.2	30.1	33.8	3/3	6.34	24.2	16.5	18.9	6/8	4.90	15.6	7.76	7.48
PCB098+102	3/3	136	207	174	180	4/4	85.6	240	163	163	3/3	96.1	192	156	181	7/8	22.2	63.2	40.5	46.2
PCB103	3/3	547	660	608	616	4/4	234	770	525	548	3/3	469	510	495	507	8/8	162	417	247	223
PCB104	3/3	4.28	9.34	7.59	9.14	3/4	5.47	14.1	7.51	5.55	1/3	4.20	4.20	2.99	4.18	2/8	1.81	1.90	1.24	1.18
PCB105	3/3	11,700	17,100	14,000	13,200	4/4	5,230	19,500	12,900	13,400	3/3	9,060	18,900	15,300	18,000	8/8	1,700	7,130	3,890	3,250
PCB106	0/3	--	--	5.63	6.43	0/4	--	--	5.97	5.42	0/3	--	--	5.88	6.12	0/8	--	--	3.63	2.66
PCB107	3/3	3,080	3,380	3,230	3,250	4/4	1,400	3,810	2,770	2,930	3/3	2,360	4,810	3,620	3,690	8/8	718	2,220	1,390	1,210
PCB108+124	3/3	134	166	153	159	4/4	169	256	211	208	3/3	111	240	194	231	8/8	83.4	167	112	111
PCB110+115	3/3	6,400	11,000	8,550	8,300	4/4	4,500	8,960	7,190	7,660	3/3	4,540	13,300	9,110	9,440	8/8	1,140	2,340	1,740	1,710
PCB111	3/3	93.5	109	99.6	96.3	4/4	71.1	121	92.6	89.1	3/3	59.4	122	89.2	86.3	8/8	16.8	83.0	48.4	43.0
PCB112	0/3	--	--	11.2	10.3	0/4	--	--	7.71	7.26	0/3	--	--	12.2	11.3	0/8	--	--	3.63	3.16

Table B-16
Summary Statistics for Polychlorinated Biphenyls in Whole Hardhead Catfish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB114	3/3	716	1,120	909	891	4/4	338	1,110	769	816	3/3	586	1,170	945	1,080	8/8	113	451	255	212
PCB117	3/3	353	582	457	435	4/4	268	394	319	308	3/3	290	1,120	584	341	8/8	120	216	161	157
PCB118	3/3	38,100	42,500	39,900	39,100	4/4	17,600	64,300	38,800	36,600	3/3	31,200	40,100	34,800	33,100	8/8	7,240	27,400	15,900	13,300
PCB120	3/3	561	654	604	597	4/4	258	730	499	505	3/3	425	785	619	646	8/8	162	611	351	297
PCB121	2/3	58.5	72.2	46.8	58.5	1/4	71.8	71.8	25.2	11.2	0/3	--	--	13.1	12.1	3/8	23.3	51.2	18.1	7.40
PCB122	1/3	62.1	62.1	24.6	7.15	0/4	--	--	6.39	5.97	0/3	--	--	6.04	6.17	1/8	13.5	13.5	6.34	5.11
PCB123	3/3	672	1,080	840	772	4/4	340	1,110	749	773	3/3	493	1,040	855	1,040	8/8	58.3	404	223	193
PCB126	3/3	64.5	71.3	67.6	67.0	3/4	27.8	72.8	45.6	49.7	2/3	42.9	91.5	58.0	42.9	6/8	7.92	24.7	16.4	17.2
PCB127	0/3	--	--	11.6	6.66	2/4	31.2	48.8	24.0	20.0	3/3	36.7	103	58.9	37.3	3/8	14.1	32.6	10.7	7.66
PCB128+166	3/3	7,550	10,500	9,050	9,090	4/4	3,560	11,900	8,210	8,700	3/3	5,680	14,700	10,600	11,300	8/8	1,510	6,230	3,510	2,790
PCB129+138+163	3/3	55,900	66,400	61,100	60,900	4/4	28,800	87,000	62,300	66,600	3/3	46,100	72,300	56,200	50,300	8/8	11,100	55,700	27,400	19,800
PCB130	3/3	1,060	1,510	1,320	1,380	4/4	668	1,420	1,130	1,210	3/3	887	1,720	1,220	1,060	8/8	429	984	617	590
PCB131	1/3	35.8	35.8	16.3	7.26	0/4	--	--	5.38	5.70	0/3	--	--	7.06	6.31	2/8	14.5	20.1	7.25	4.28
PCB132	3/3	1,810	2,670	2,260	2,290	4/4	1,320	2,590	2,230	2,510	3/3	1,540	2,400	2,000	2,060	8/8	697	1,400	873	788
PCB133	3/3	918	1,150	1,040	1,060	4/4	399	1,130	778	791	3/3	703	1,390	1,010	937	8/8	267	754	496	418
PCB134	1/3	157	157	56.7	7.30	0/4	--	--	5.80	6.19	0/3	--	--	7.68	7.07	4/8	4.20	64.3	24.7	6.01
PCB135+151	3/3	1,820	2,830	2,330	2,340	4/4	1,620	2,890	2,490	2,720	3/3	1,630	3,500	2,550	2,510	8/8	790	1,600	1,060	952
PCB136	3/3	162	256	216	231	4/4	181	371	303	330	3/3	157	225	187	180	8/8	76.7	196	118	111
PCB137	3/3	2,170	3,460	2,790	2,730	4/4	1110	3,400	2,340	2,430	3/3	1,850	4,700	3,330	3,450	8/8	385	1,860	1,020	865
PCB139+140	3/3	991	1,340	1,150	1,130	4/4	413	1,440	962	996	3/3	786	1,760	1,300	1,350	8/8	204	809	454	369
PCB141	3/3	4,160	5,390	4,920	5,230	4/4	1,700	5,490	3,810	4,020	3/3	3,280	7,250	5,250	5,220	8/8	710	1,910	1,310	1,210
PCB142	0/3	--	--	7.17	7.12	0/4	--	--	5.49	5.82	0/3	--	--	7.03	6.28	0/8	--	--	3.06	2.57
PCB143	0/3	--	--	6.84	6.90	0/4	--	--	5.06	5.27	0/3	--	--	6.48	5.87	0/8	--	--	2.93	2.51
PCB144	3/3	626	1,230	894	822	4/4	525	1,280	940	974	3/3	905	1,210	1,090	1,150	8/8	130	484	207	168
PCB145	0/3	--	--	0.456	0.386	0/4	--	--	0.685	0.644	0/3	--	--	0.675	0.529	0/8	--	--	0.627	0.583
PCB146	3/3	12,800	15,900	14,300	14,100	4/4	6190	17,600	12,400	13,000	3/3	10,200	21,500	15,900	16,000	8/8	3110	12,000	6980	5590
PCB147+149	3/3	13,400	16,400	15,400	16,400	4/4	7060	19,200	13,800	14,500	3/3	11,500	18,700	14,800	14,200	8/8	4470	10,200	6530	5670
PCB148	3/3	236	313	266	247	4/4	108	357	233	235	3/3	199	320	269	287	8/8	77.3	277	154	124
PCB150	3/3	33.1	40.5	37.4	38.6	4/4	28.3	51.2	41.5	43.4	3/3	23.4	39.5	32.1	33.3	8/8	23.7	58.3	34.1	29.6
PCB152	3/3	1.90	11.3	7.77	10.1	3/4	5.08	10.2	7.91	8.16	1/3	3.62	3.62	3.39	3.62	5/8	2.26	5.44	2.29	2.44
PCB153+168	3/3	80,200	85,600	82,700	82,400	4/4	40,900	121,000	85,700	90,600	3/3	65,600	94,600	75,900	67,500	8/8	16,300	95,500	45,400	26,200
PCB154	3/3	2,780	3,450	3,120	3,130	4/4	1,490	3,910	3,000	3,300	3/3	2,830	5,270	4,030	4,000	8/8	750	3,950	1,760	1,350
PCB155	3/3	162	211	194	208	4/4	72.4	203	142	147	3/3	162	228	188	173	8/8	37.6	149	79.8	63.9
PCB156+157	3/3	5,020	7,560	6,330	6,400	4/4	2,640	7,910	5,520	5770	3/3	4,240	10,000	7,340	7,760	8/8	1,010	4,420	2,400	1,920
PCB158	3/3	4,150	6,140	5,130	5,110	4/4	2,120	6,150	4,330	4,520	3/3	3,280	8,560	5,980	6,100	8/8	682	3,110	1,720	1,400
PCB159	3/3	109	132	120	118	4/4	49.3	149	85.4	71.8	3/3	84.8	190	135	129	8/8	11.8	76.0	45.5	43.0
PCB160	0/3	--	--	5.30	5.56	0/4	--	--	4.12	4.27	0/3	--	--	5.01	4.45	0/8	--	--	2.41	2.08
PCB161	0/3	--	--	5.11	5.20	0/4	--	--	3.79	3.97	0/3	--	--	4.81	4.28	0/8	--	--	2.21	1.84
PCB162	3/3	295	448	370	368	4/4	169	453	316	320	3/3	246	537	394	398	8/8	83.1	378	200	163
PCB164	3/3	1,500	1,870	1,680	1,690	4/4	716	1,900	1,420	1,530	3/3	1,070	2,770	1,820	1,630	8/8	287	755	485	416
PCB165	2/3	54.4	60.5	39.8	54.4	0/4	--	--	4.26	4.48	0/3	--	--	5.53	5.00	3/8	22.5	55.8	15.0	4.02
PCB167	3/3	1,900	2,580	2,240	2,240	4/4	899	2,590	1,920	2,100	3/3	1,440	3,000	2,340	2,570	8/8	455	1,250	866	798
PCB169	1/3	32.8	32.8	13.8	5.37	0/4	--	--	7.24	4.73	1/3	32.7	32.7	13.5	3.90	1/8	32.7	32.7	9.87	5.32
PCB170	3/3	11,800	16,300	14,000	13,800	4/4	6040	14,600	11,500	12,700	3/3	9750	24,000	17,100	17,700	8/8	2810	16,100	7170	5,900

Table B-16
Summary Statistics for Polychlorinated Biphenyls in Whole Hardhead Catfish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB171+173	3/3	3,730	5,360	4,620	4,760	4/4	2,030	5,420	3,950	4170	3/3	3,100	7,260	5,320	5,580	8/8	816	4,590	2,140	1,730
PCB172	3/3	2,400	3,250	2,890	3,000	4/4	1,210	2,780	2,160	2,320	3/3	1,970	4,650	3,300	3,270	8/8	664	3,400	1,610	1,460
PCB174	3/3	2,420	3,710	3,040	2,990	4/4	1,520	3,300	2,630	2,850	3/3	2,120	4,460	3,220	3,080	8/8	728	1,760	1,090	1,020
PCB175	3/3	462	564	516	522	4/4	217	545	415	450	3/3	365	654	515	526	8/8	118	437	255	217
PCB176	3/3	106	122	112	110	4/4	93.6	151	122	122	2/3	39.8	83.8	50.0	39.8	8/8	52.0	127	73.0	68.3
PCB177	3/3	752	1,470	1,050	946	4/4	791	1,240	1,010	1,000	3/3	698	1,510	1,070	990	8/8	486	1,100	648	589
PCB178	3/3	1,740	2,350	2,070	2,140	4/4	1,070	2,300	1,770	1,860	3/3	1,410	2,590	1,930	1,790	8/8	691	1,650	1,160	1,010
PCB179	3/3	252	403	341	369	4/4	318	500	430	451	3/3	264	369	314	309	8/8	167	379	221	200
PCB180+193	3/3	28,000	36,200	31,600	30,600	4/4	15,600	32,600	26,700	29,200	3/3	23,700	35,600	28,000	24,500	8/8	7,030	33,700	17,600	16,600
PCB181	3/3	125	184	151	144	4/4	67.0	166	119	122	3/3	104	291	197	197	7/8	29.2	153	68.2	52.6
PCB182	3/3	108	181	147	152	4/4	76.6	182	134	138	3/3	100	244	176	183	7/8	23.3	159	74.8	52.8
PCB183	3/3	8,100	12,800	10,700	11,200	4/4	5,640	12,600	9,590	10,000	3/3	7,020	15,400	11,400	11,600	8/8	1,890	12,800	5,520	4,530
PCB184	3/3	98.0	136	112	102	4/4	44.6	130	86.0	84.7	3/3	83.2	164	123	121	8/8	22.7	101	55.5	43.7
PCB185	3/3	23.6	594	370	493	4/4	312	759	501	467	3/3	455	941	761	888	7/8	59.9	312	154	146
PCB186	0/3	--	--	0.808	0.866	0/4	--	--	0.914	0.826	0/3	--	--	0.938	0.848	0/8	--	--	0.723	0.748
PCB187	3/3	19,200	25,100	22,800	24,100	4/4	10,500	25,100	19,800	21,900	3/3	15,500	33,300	24,300	24,000	8/8	5780	20,000	11,900	10,100
PCB188	3/3	141	174	154	149	4/4	80.9	151	121	125	3/3	122	172	147	147	8/8	56.6	202	114	96.2
PCB189	3/3	399	620	511	513	4/4	210	551	391	401	3/3	360	895	619	601	8/8	126	599	285	237
PCB190	3/3	2,310	3,360	2,840	2,870	4/4	1,330	2,870	2,370	2,640	3/3	1,910	4,900	3,500	3,690	8/8	528	3,160	1,380	1,170
PCB191	3/3	505	731	634	665	4/4	275	681	518	557	3/3	422	1,110	781	815	8/8	117	628	292	244
PCB192	0/3	--	--	4.80	3.91	0/4	--	--	5.11	5.21	0/3	--	--	5.09	5.22	0/8	--	--	2.55	2.49
PCB194	3/3	4,500	6,760	5,380	4,890	4/4	2260	4,840	3,740	3,930	3/3	4,160	9,320	6,670	6,520	8/8	1810	7,600	3,710	3,200
PCB195	3/3	2,000	3,130	2,590	2,660	4/4	1,070	2,800	2,140	2,350	3/3	1,900	4,360	3,210	3,360	8/8	619	2,640	1,400	1,230
PCB196	3/3	2980	4,570	3,830	3,960	4/4	1,640	4,300	32,30	3,490	3/3	2,920	6,740	4,880	4,970	8/8	914	3,940	2,060	1,730
PCB197	3/3	589	928	757	755	4/4	359	910	658	681	3/3	527	1,170	866	906	8/8	165	745	389	318
PCB198+199	3/3	5,390	7,850	6,950	7,600	4/4	3,020	7,480	5,660	6,080	3/3	5,020	11,900	8,330	8,040	8/8	2,000	6,280	3,810	3,490
PCB200	3/3	65.5	90.6	78.7	80.1	4/4	53.4	115	83.2	82.1	3/3	75.4	81.7	77.8	76.3	8/8	21.2	70.8	43.3	41.2
PCB201	3/3	707	928	829	851	4/4	347	829	601	615	3/3	585	1080	820	796	8/8	297	846	540	477
PCB202	3/3	789	1,120	990	1,060	4/4	516	1,120	849	878	3/3	785	1,070	923	910	8/8	448	949	673	607
PCB203	3/3	4,790	7,310	6,140	6,310	4/4	2,860	6,820	5,340	5,850	3/3	4,800	10,300	7,680	7,890	8/8	1,500	6,660	3,500	3,030
PCB204	3/3	41.6	70.2	54.6	52.1	4/4	22.6	68.3	43.0	40.6	3/3	42.7	99.1	71.1	71.6	8/8	5.26	40.9	20.3	18.1
PCB205	3/3	229	372	303	309	4/4	146	327	254	272	3/3	237	476	361	370	8/8	91.6	409	195	160
PCB206	3/3	2,420	3,770	3,060	2,990	4/4	1,680	3,110	2,550	2,700	3/3	2,690	4,640	3,710	3,810	8/8	1,080	4,340	2,310	2,040
PCB207	3/3	1,360	1,960	1,600	1,490	4/4	717	1,930	1,370	1,410	3/3	1,410	2,680	2,080	2,140	8/8	483	1,460	955	905
PCB208	3/3	2,140	2,900	2,420	2,230	4/4	979	2,430	1,760	1,820	3/3	2,210	3,240	2,690	2,620	8/8	951	2,770	1,750	1,630
PCB209	3/3	28,000	35,100	31,300	30,700	4/4	16,300	41,100	28,800	28,800	3/3	27,300	35,800	31,600	31,600	8/8	7,670	24,200	14,500	13,100

Notes
FCA = fish collection area
NA = data not available
ww = wet weight
-- = Not applicable, no detected values

a - Mean and median calculations include detected and non-detected values. Non-detected values were set at one-half the detection limit.

Table B-17
Summary Statistics for Polychlorinated Biphenyls in Edible Clam Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
Clam - Edible																				
Polychlorinated Biphenyls (ng/kg - ww)																				
PCB001	0/5	--	--	2.43	NA	7/15	29.5	90.3	29.5	NA	5/5	7.79	12.6	9.98	NA	9/10	4.4	6.23	4.85	NA
PCB002	0/5	--	--	0.657	NA	2/15	2.29	2.35	0.994	NA	0/5	--	--	0.987	NA	0/10	--	--	1.14	NA
PCB003	0/5	--	--	1.24	NA	1/15	6.22	6.22	3	NA	3/5	5.13	5.44	3.7	NA	1/10	4.43	4.43	1.72	NA
PCB004	2/5	22.8	25.8	15.7	NA	15/15	26.7	311	122	NA	3/5	27.5	51.8	28.5	NA	0/10	--	--	32.2	NA
PCB005	0/5	--	--	1.87	NA	0/15	--	--	2.58	NA	0/5	--	--	2.45	NA	0/10	--	--	6.81	NA
PCB006	2/5	6.43	8.14	4.36	NA	11/15	9.13	26.7	14.4	NA	5/5	17.2	26.8	20.5	NA	1/10	11.7	11.7	7.19	NA
PCB007	0/5	--	--	1.73	NA	5/15	9.9	14.8	5.95	NA	0/5	--	--	2.39	NA	0/10	--	--	6.36	NA
PCB008	5/5	33	40.5	36.4	NA	15/15	56.8	569	235	NA	4/5	77.7	112	79.4	NA	10/10	44.9	67.4	54.7	NA
PCB009	0/5	--	--	1.7	NA	5/15	4.43	14.2	5.36	NA	0/5	--	--	2.31	NA	0/10	--	--	6.12	NA
PCB010	0/5	--	--	4.74	NA	0/15	--	--	3.94	NA	0/5	--	--	4.72	NA	0/10	--	--	23.1	NA
PCB011	0/5	--	--	107	NA	0/15	--	--	101	NA	0/5	--	--	172	NA	0/10	--	--	131	NA
PCB012+013	0/5	--	--	2	NA	2/15	5.46	6.1	3.12	NA	0/5	--	--	3.55	NA	0/10	--	--	6.11	NA
PCB014	0/5	--	--	1.67	NA	0/15	--	--	2.25	NA	0/5	--	--	2.27	NA	0/10	--	--	5.95	NA
PCB015	0/5	--	--	27	NA	7/15	115	333	122	NA	0/5	--	--	31.1	NA	0/10	--	--	17	NA
PCB016	3/5	40.4	46.5	33.5	NA	12/15	40.4	71.4	45.9	NA	5/5	42	61.5	47.8	NA	9/10	27.5	47.3	37.9	NA
PCB017	5/5	47.3	60	53.4	NA	15/15	51.4	109	68.7	NA	5/5	71	113	86.2	NA	9/10	53.4	67.3	58	NA
PCB018+030	5/5	96	128	112	NA	15/15	87.2	220	137	NA	5/5	125	214	155	NA	10/10	84.7	127	113	NA
PCB019	5/5	54.1	97.2	80.4	NA	15/15	37.4	136	70.3	NA	5/5	71.8	141	91.2	NA	10/10	46.6	73.7	57.6	NA
PCB020+028	3/5	258	316	222	NA	15/15	257	571	356	NA	5/5	510	756	607	NA	9/10	236	331	264	NA
PCB021+033	5/5	52.8	71.8	60.7	NA	14/15	51.9	110	68.3	NA	2/5	99.3	121	70	NA	0/10	--	--	34.8	NA
PCB022	0/5	--	--	34.2	NA	5/15	92	147	60.9	NA	5/5	141	205	166	NA	0/10	--	--	34.2	NA
PCB023	0/5	--	--	1.42	NA	0/15	--	--	1.96	NA	0/5	--	--	2.63	NA	0/10	--	--	1.62	NA
PCB024	1/5	2.03	2.03	1.17	NA	8/15	1.71	3.29	2.05	NA	1/5	5.49	5.49	2.39	NA	1/10	2.47	2.47	1.46	NA
PCB025	5/5	22.6	29	25.6	NA	14/15	19.6	52.2	28.2	NA	4/5	44.7	57.5	46.3	NA	10/10	13.3	25.8	22.2	NA
PCB026+029	5/5	32.7	51.3	40.4	NA	15/15	36.3	81.5	48.9	NA	5/5	59.5	93.1	71.4	NA	10/10	19.9	44	35.4	NA
PCB027	5/5	13.9	18.5	16.6	NA	15/15	14.3	30.7	19	NA	5/5	18.2	27.1	21.4	NA	9/10	12.2	18.9	14.3	NA
PCB031	4/5	136	173	136	NA	15/15	129	303	181	NA	5/5	216	328	253	NA	7/10	144	168	124	NA
PCB032	2/5	57.4	62.4	39.2	NA	9/15	55.2	92.3	49.6	NA	5/5	76.9	123	92.6	NA	0/10	--	--	17.4	NA
PCB034	0/5	--	--	1.3	NA	0/15	--	--	1.77	NA	0/5	--	--	2.27	NA	0/10	--	--	1.51	NA
PCB035	1/5	3.16	3.16	2.01	NA	3/15	2.78	5.25	2.55	NA	2/5	5.11	6.9	4.4	NA	0/10	--	--	1.49	NA
PCB036	0/5	--	--	1.18	NA	0/15	--	--	1.7	NA	0/5	--	--	2.31	NA	0/10	--	--	1.44	NA
PCB037	1/5	65.7	65.7	30.6	NA	6/15	57.9	86.1	41.1	NA	5/5	124	178	144	NA	0/10	--	--	19.4	NA
PCB038	0/5	--	--	1.26	NA	0/15	--	--	1.79	NA	0/5	--	--	2.41	NA	0/10	--	--	1.51	NA
PCB039	0/5	--	--	1.25	NA	1/15	1.53	1.53	1.83	NA	0/5	--	--	2.33	NA	0/10	--	--	1.53	NA
PCB040+041+071	5/5	216	310	259	NA	15/15	190	444	300	NA	5/5	359	532	424	NA	10/10	103	196	151	NA
PCB042	5/5	124	174	144	NA	15/15	106	255	176	NA	5/5	176	274	215	NA	10/10	58	119	89.5	NA
PCB043+073	5/5	12.7	18.1	15.1	NA	12/15	14	26.9	15.9	NA	4/5	20.6	30.5	22	NA	3/10	10.3	15.5	5.92	NA
PCB044+047+065	5/5	590	853	704	NA	15/15	550	1,360	896	NA	5/5	724	1,080	858	NA	10/10	305	598	453	NA

Table B-17
Summary Statistics for Polychlorinated Biphenyls in Edible Clam Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB045+051	5/5	77.7	107	89.8	NA	15/15	66.5	147	102	NA	5/5	97.1	149	116	NA	10/10	34.3	69.9	54.4	NA
PCB046	5/5	20.8	27.9	24.5	NA	15/15	18.4	41.1	28.1	NA	5/5	28.9	45	34.8	NA	9/10	10	21	14.4	NA
PCB048	5/5	57.9	79.5	66.5	NA	15/15	56.2	114	80.1	NA	5/5	93.2	139	112	NA	10/10	29.5	61	47	NA
PCB049+069	5/5	432	635	521	NA	15/15	395	1,030	661	NA	5/5	531	795	624	NA	10/10	217	446	334	NA
PCB050+053	5/5	388	516	466	NA	15/15	248	663	426	NA	5/5	424	766	523	NA	10/10	188	332	261	NA
PCB052	5/5	725	1,010	860	NA	15/15	713	2,370	1,300	NA	5/5	856	1,300	1,030	NA	9/10	451	726	528	NA
PCB054	4/5	4.67	7.18	5.27	NA	15/15	3.66	8.77	5.79	NA	5/5	4	6.83	5.09	NA	7/10	3.24	5.54	3.71	NA
PCB055	0/5	--	--	1.26	NA	2/15	11.6	18.4	3.41	NA	0/5	--	--	0.668	NA	0/10	--	--	0.847	NA
PCB056	5/5	149	198	172	NA	15/15	144	343	228	NA	5/5	393	599	472	NA	10/10	81.1	150	109	NA
PCB057	2/5	1.36	2.03	1.17	NA	2/15	2.5	2.95	1.08	NA	1/5	3.01	3.01	1.78	NA	1/10	1.98	1.98	0.899	NA
PCB058	0/5	--	--	0.97	NA	4/15	3.27	6.37	2	NA	1/5	4.55	4.55	1.63	NA	0/10	--	--	0.963	NA
PCB059+062+075	5/5	49.6	71	58.3	NA	15/15	45.5	103	70.6	NA	5/5	79.2	121	96.3	NA	10/10	24.8	52.8	39.8	NA
PCB060	5/5	53.6	76.6	65.5	NA	15/15	47.4	142	85.5	NA	5/5	197	298	241	NA	10/10	39.7	76.6	54.8	NA
PCB061+070+2m	5/5	711	909	809	NA	15/15	670	1,780	1,130	NA	5/5	1,220	1,780	1,440	NA	10/10	387	719	522	NA
PCB063	5/5	16.8	22.8	19.9	NA	15/15	17.9	41.4	27.4	NA	5/5	35.6	52.7	41.8	NA	9/10	11.3	20.9	15	NA
PCB064	5/5	208	288	241	NA	15/15	190	482	314	NA	5/5	351	532	422	NA	10/10	105	206	157	NA
PCB066	5/5	462	597	522	NA	15/15	413	929	648	NA	5/5	932	1,370	1,100	NA	10/10	257	506	363	NA
PCB067	4/5	5.1	7.59	5.4	NA	9/15	4.75	12.5	6.08	NA	4/5	11.8	17.3	12.4	NA	3/10	3.04	3.87	1.99	NA
PCB068	5/5	10.9	16.7	13.8	NA	11/15	9.52	22.5	13.7	NA	3/5	8.09	11.9	7.98	NA	9/10	6.84	11.3	8.16	NA
PCB072	5/5	11.4	17.9	14.7	NA	14/15	9.47	27.7	16.4	NA	3/5	10.8	12.9	8.86	NA	8/10	5.16	11.2	6.4	NA
PCB077	5/5	27.9	37.1	32.4	32.2	15/15	27	104	44.8	41.1	5/5	83.4	125	99.2	95.2	8/10	15.4	30.8	18.5	16.8
PCB078	0/5	--	--	0.837	NA	0/15	--	--	1.25	NA	0/5	--	--	1.56	NA	0/10	--	--	1.03	NA
PCB079	4/5	5.45	7.82	5.69	NA	9/15	4.95	33.2	11	NA	3/5	7.02	15.3	7.07	NA	1/10	4.11	4.11	1.45	NA
PCB080	0/5	--	--	0.772	NA	0/15	--	--	1.13	NA	0/5	--	--	1.47	NA	0/10	--	--	0.914	NA
PCB081	1/5	1.94	1.94	1.17	1.09	3/15	1.42	3.25	1.97	1.33	1/5	4.38	4.38	2.39	2.26	0/10	--	--	1.09	1.04
PCB082	5/5	65.5	100	79.6	NA	15/15	79.7	488	215	NA	5/5	139	200	167	NA	2/10	60.5	65.2	29.2	NA
PCB083+099	5/5	896	1100	1,030	NA	15/15	800	3,840	1,860	NA	5/5	1,100	1,530	1,270	NA	10/10	413	755	547	NA
PCB084	5/5	181	255	209	NA	15/15	191	1,210	498	NA	5/5	240	349	281	NA	0/10	--	--	50.6	NA
PCB085+116	5/5	117	164	140	NA	15/15	138	756	345	NA	5/5	231	337	274	NA	10/10	60.3	120	81.8	NA
PCB086+087+4ma	5/5	465	681	542	NA	15/15	512	3,230	1,380	NA	5/5	751	1,100	896	NA	0/10	--	--	144	NA
PCB088+091	5/5	195	232	213	NA	15/15	158	881	396	NA	4/5	205	287	192	NA	7/10	80.1	140	68.6	NA
PCB089	3/5	7.91	9.13	6.36	NA	11/15	8.36	34.7	14	NA	4/5	11.5	15.7	12	NA	4/10	2.43	5.62	2.46	NA
PCB090+101+113	5/5	1,070	1,330	1,180	NA	15/15	991	5,830	2,590	NA	5/5	1,410	2,040	1,650	NA	4/10	635	763	436	NA
PCB092	5/5	198	255	229	NA	15/15	208	1,170	526	NA	5/5	282	404	330	NA	10/10	96.8	175	128	NA
PCB093+100	4/5	36	40.2	34	NA	15/15	25.6	89.7	50.4	NA	5/5	24.9	34.8	30.1	NA	10/10	17.2	32.9	23.7	NA
PCB094	4/5	8.69	9.45	8.39	NA	13/15	7.33	32.1	14.8	NA	4/5	8.97	14.2	9.87	NA	8/10	3.85	7.99	4.91	NA
PCB095	5/5	720	944	812	NA	15/15	717	4,480	1,880	NA	5/5	851	1,250	1,010	NA	3/10	514	545	281	NA
PCB096	5/5	7.2	8.56	7.89	NA	14/15	5.84	30.1	13.3	NA	5/5	8.31	12.4	10.3	NA	6/10	2.66	4.5	2.76	NA
PCB098+102	5/5	45.1	53.9	49.2	NA	15/15	36.1	176	82.8	NA	5/5	48.3	72.8	58.3	NA	7/10	14.3	25.8	17.1	NA

Table B-17
Summary Statistics for Polychlorinated Biphenyls in Edible Clam Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB103	5/5	26.9	31.5	29.2	NA	14/15	17.2	75.1	37.9	NA	5/5	17	24.9	19.3	NA	10/10	9.75	18.2	13.5	NA
PCB104	1/5	1.51	1.51	0.655	NA	3/15	1.26	2.24	0.733	NA	0/5	--	--	0.375	NA	0/10	--	--	0.496	NA
PCB105	5/5	225	301	266	266	15/15	277	1,310	627	436	5/5	540	736	620	611	4/10	216	294	145	84.5
PCB106	0/5	--	--	1.49	NA	0/15	--	--	1.77	NA	0/5	--	--	2.38	NA	0/10	--	--	1.2	NA
PCB107	5/5	72.3	97.2	88.4	NA	15/15	79	354	173	NA	5/5	126	162	137	NA	10/10	37.8	81.1	53.2	NA
PCB108+124	5/5	26.9	37	34.1	NA	13/15	35.3	173	76.9	NA	5/5	66.6	85.3	73.3	NA	6/10	19.1	29.3	18.9	NA
PCB110+115	5/5	1,010	1,330	1,150	NA	15/15	1,110	6,130	2,740	NA	5/5	1,720	2,430	2,000	NA	4/10	744	913	494	NA
PCB111	0/5	--	--	1.06	NA	0/15	--	--	2.03	NA	0/5	--	--	2.13	NA	0/10	--	--	1.43	NA
PCB112	0/5	--	--	0.988	NA	0/15	--	--	1.86	NA	0/5	--	--	1.91	NA	0/10	--	--	1.31	NA
PCB114	5/5	14.2	20	17.1	17.7	13/15	17.9	92.6	40.5	24.9	4/5	31.8	41.3	30.9	32.4	8/10	10.4	19.3	12	11.9
PCB117	1/5	23.7	23.7	12.8	NA	9/15	24	143	47.3	NA	3/5	39.3	56.1	37.1	NA	6/10	11.3	22.6	13.8	NA
PCB118	5/5	741	967	877	882	15/15	790	3,550	1,720	1,170	5/5	1,430	1,870	1,600	1,560	10/10	418	818	556	498
PCB120	4/5	11.5	12.5	10.9	NA	12/15	6.79	21.1	11.9	NA	4/5	7.51	8.65	7.02	NA	6/10	4.32	6.8	4.47	NA
PCB121	0/5	--	--	1.09	NA	0/15	--	--	2.05	NA	0/5	--	--	2.09	NA	0/10	--	--	1.42	NA
PCB122	3/5	8.79	12.9	8.31	NA	8/15	9.99	46.2	18.3	NA	4/5	20.9	30.2	20.4	NA	4/10	6.67	12.9	4.78	NA
PCB123	5/5	15.4	19.4	17.9	18.3	13/15	14.5	62.5	34.1	24.8	4/5	32.9	42.7	32.2	33.5	8/10	8.83	15.3	10.6	10.1
PCB126	0/5	--	--	1.44	1.5	4/15	2.08	7.43	3.42	2.08	0/5	--	--	2.41	2.52	0/10	--	--	1.28	1.18
PCB127	0/5	--	--	1.52	NA	0/15	--	--	1.86	NA	0/5	--	--	2.68	NA	0/10	--	--	1.35	NA
PCB128+166	5/5	152	181	172	NA	15/15	88.8	1,250	503	NA	5/5	322	393	352	NA	6/10	110	187	105	NA
PCB129+138+163	5/5	1,120	1,400	1,320	NA	15/15	1,230	8,070	3,540	NA	5/5	2,160	2,570	2,290	NA	10/10	614	1,280	873	NA
PCB130	5/5	58.2	71.4	67.2	NA	15/15	64.8	426	187	NA	5/5	98.7	133	115	NA	9/10	32.2	56.5	39.7	NA
PCB131	3/5	8.24	11.9	7.36	NA	11/15	10.5	86.3	34.5	NA	4/5	15.5	20	16	NA	5/10	4.05	6.17	3.51	NA
PCB132	5/5	222	346	287	NA	15/15	279	2,480	997	NA	5/5	461	639	544	NA	1/10	196	196	87.4	NA
PCB133	5/5	19.9	26.6	23.3	NA	15/15	17.8	92.1	46.3	NA	4/5	24.4	27.6	23	NA	8/10	10	17.6	11.4	NA
PCB134	5/5	33.9	46.1	38.5	NA	15/15	46	353	142	NA	5/5	60	108	76.5	NA	0/10	--	--	11.2	NA
PCB135+151	5/5	343	427	404	NA	15/15	388	2,510	1,080	NA	5/5	457	625	537	NA	10/10	171	268	212	NA
PCB136	5/5	117	144	131	NA	15/15	120	878	364	NA	5/5	131	202	166	NA	4/10	63.4	66.5	40.5	NA
PCB137	5/5	34.5	49.7	43.9	NA	15/15	44.4	386	155	NA	5/5	91.3	108	101	NA	4/10	33.1	41.8	23.7	NA
PCB139+140	4/5	17.6	22.9	19.3	NA	15/15	19.8	157	67.5	NA	5/5	31.3	40.4	35.7	NA	8/10	9.28	14.9	10.7	NA
PCB141	5/5	138	167	156	NA	15/15	157	1,040	445	NA	5/5	255	299	272	NA	7/10	85.2	127	87.2	NA
PCB142	0/5	--	--	1.44	NA	0/15	--	--	2.68	NA	0/5	--	--	2.17	NA	0/10	--	--	1.04	NA
PCB143	0/5	--	--	1.35	NA	3/15	17.2	18.9	5.24	NA	1/5	10.8	10.8	3.61	NA	0/10	--	--	0.933	NA
PCB144	5/5	36.8	98.1	77.5	NA	15/15	40.1	619	251	NA	5/5	110	162	136	NA	0/10	--	--	22.5	NA
PCB145	0/5	--	--	0.389	NA	0/15	--	--	0.543	NA	0/5	--	--	0.39	NA	0/10	--	--	0.53	NA
PCB146	5/5	219	284	266	NA	15/15	213	1,110	530	NA	5/5	284	345	305	NA	10/10	101	191	136	NA
PCB147+149	5/5	837	1,090	1,010	NA	15/15	884	5,680	2,470	NA	5/5	1,080	1,570	1,320	NA	10/10	380	579	467	NA
PCB148	5/5	3.63	5.8	5	NA	12/15	3.83	13.1	6.61	NA	3/5	2.87	3.35	2.35	NA	3/10	2.02	2.83	1.25	NA
PCB150	5/5	7.43	9.71	9.06	NA	14/15	4.67	14.8	8.82	NA	5/5	3.35	5.68	4.74	NA	8/10	2.04	4.25	2.81	NA
PCB152	2/5	1.38	1.91	0.989	NA	7/15	1.51	9.07	3.29	NA	4/5	1.75	2.15	1.61	NA	2/10	1.18	1.27	0.635	NA

Table B-17
Summary Statistics for Polychlorinated Biphenyls in Edible Clam Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB153+168	5/5	1,250	1,580	1,450	NA	15/15	1,210	6,460	3,080	NA	5/5	1,780	2,080	1,900	NA	10/10	603	1,180	832	NA
PCB154	5/5	48.2	82.6	71.1	NA	15/15	44.1	180	94.5	NA	5/5	43.1	56	49.6	NA	7/10	26	40.8	25.7	NA
PCB155	4/5	3.96	5.33	4.17	NA	7/15	1.69	3.68	1.97	NA	1/5	1.79	1.79	0.851	NA	3/10	1.14	1.46	0.887	NA
PCB156+157	5/5	92.8	122	110	112	15/15	103	640	295	167	5/5	202	250	223	217	4/10	94.1	112	60.3	37.5
PCB158	5/5	87.5	109	100	NA	15/15	101	744	317	NA	5/5	187	234	207	NA	6/10	60.4	101	59.1	NA
PCB159	3/5	6.72	7.2	5.47	NA	14/15	6.08	43.9	18.4	NA	3/5	9.15	9.69	7.42	NA	5/10	3.2	5.6	3.09	NA
PCB160	0/5	--	--	1.05	NA	0/15	--	--	1.96	NA	0/5	--	--	1.58	NA	0/10	--	--	0.785	NA
PCB161	0/5	--	--	0.988	NA	0/15	--	--	1.84	NA	0/5	--	--	1.49	NA	0/10	--	--	0.745	NA
PCB162	3/5	5.09	6.11	4.1	NA	9/15	4.43	21.6	9.36	NA	2/5	7.66	8.65	5.47	NA	3/10	2.48	4.83	2.22	NA
PCB164	5/5	61.4	75.1	68.5	NA	15/15	56.5	435	186	NA	5/5	115	146	127	NA	6/10	39.8	64.6	38.5	NA
PCB165	0/5	--	--	1.09	NA	0/15	--	--	2.08	NA	0/5	--	--	1.66	NA	0/10	--	--	0.848	NA
PCB167	5/5	46.2	56.9	52.8	52.8	15/15	48.6	240	116	70.5	5/5	86.8	103	91	86.9	10/10	25.8	50.2	35.8	33.6
PCB169	0/5	--	--	1.07	0.99	1/15	3.6	3.6	2.33	0.92	0/5	--	--	1.19	1.02	0/10	--	--	0.865	0.81
PCB170	5/5	196	242	223	235	15/15	176	1,070	499	286	5/5	280	346	308	314	10/10	99.2	208	150	140
PCB171+173	5/5	79	97.3	88	NA	15/15	76.7	483	221	NA	5/5	115	138	123	NA	10/10	37	70.1	53.7	NA
PCB172	5/5	33.8	43.8	40.3	NA	15/15	28.1	155	77.4	NA	5/5	42.2	51.8	47.2	NA	6/10	20.4	31.4	20.6	NA
PCB174	5/5	161	202	188	NA	15/15	165	1230	542	NA	5/5	238	292	262	NA	10/10	87.1	162	122	NA
PCB175	3/5	9.62	11	7.8	NA	14/15	6.69	37.3	18.3	NA	5/5	9.24	11.5	10.4	NA	6/10	4.09	6.29	4.05	NA
PCB176	5/5	24.1	31.2	27.1	NA	15/15	22.2	157	67.1	NA	5/5	29.1	30	29.7	NA	8/10	9.51	14.1	10.9	NA
PCB177	5/5	130	152	142	NA	15/15	115	751	343	NA	5/5	159	201	175	NA	10/10	59.3	107	82.2	NA
PCB178	5/5	56.8	68.2	63.5	NA	15/15	56	264	133	NA	5/5	62.1	81.8	69	NA	10/10	27.1	51.7	39.3	NA
PCB179	5/5	93.8	112	106	NA	15/15	96.5	559	259	NA	5/5	97	133	114	NA	10/10	42.8	67.7	53.9	NA
PCB180+193	5/5	421	548	485	509	15/15	311	2,100	969	574	5/5	552	677	603	592	10/10	255	412	321	320
PCB181	3/5	2.57	3.18	2.3	NA	8/15	3.3	19	6.65	NA	1/5	3.61	3.61	2.19	NA	0/10	--	--	1.31	NA
PCB182	2/5	3.32	3.63	2.08	NA	10/15	3.03	14.1	5.78	NA	1/5	4.94	4.94	1.59	NA	2/10	3.44	3.58	1.3	NA
PCB183	5/5	155	199	181	NA	15/15	150	893	427	NA	5/5	226	258	241	NA	10/10	87.6	166	126	NA
PCB184	4/5	2.41	4.05	2.92	NA	4/15	0.923	2.68	0.971	NA	0/5	--	--	0.47	NA	0/10	--	--	0.483	NA
PCB185	4/5	15.6	22.1	17.5	NA	12/15	20.4	135	50.5	NA	4/5	26.9	31.6	25.3	NA	7/10	9.25	17.2	10.8	NA
PCB186	0/5	--	--	0.418	NA	0/15	--	--	0.517	NA	0/5	--	--	0.485	NA	0/10	--	--	0.499	NA
PCB187	5/5	451	541	498	NA	15/15	209	2,100	995	NA	5/5	513	612	561	NA	10/10	233	436	326	NA
PCB188	3/5	2.54	4.03	2.43	NA	6/15	1.47	3.16	1.48	NA	0/5	--	--	0.455	NA	2/10	1.56	2.06	0.762	NA
PCB189	3/5	8.54	9.15	6.92	8.54	13/15	6.91	28	14.9	10.1	4/5	9.21	11.6	9.37	10.2	4/10	4.58	6.21	3.17	2.45
PCB190	5/5	38.5	48.4	43.7	NA	15/15	39.1	232	106	NA	5/5	53.2	72	61.6	NA	8/10	22.3	49.9	31.6	NA
PCB191	5/5	10	12.4	10.9	NA	12/15	9.22	52.4	22.7	NA	4/5	13.3	17.5	14.1	NA	5/10	4.62	10.6	5.39	NA
PCB192	0/5	--	--	0.807	NA	0/15	--	--	1.66	NA	0/5	--	--	1.14	NA	0/10	--	--	1.11	NA
PCB194	5/5	56.4	81.3	70.6	NA	15/15	35.3	239	109	NA	5/5	65	108	77.7	NA	10/10	37.2	62.1	47	NA
PCB195	5/5	39.7	55	43.5	NA	15/15	29.5	247	99.8	NA	5/5	52.8	67.8	59.9	NA	10/10	25.3	49.8	37.2	NA
PCB196	5/5	62.5	82	73.6	NA	15/15	60.8	321	152	NA	5/5	74.6	90.4	84.2	NA	10/10	37.8	74.1	51.5	NA
PCB197	4/5	22.9	29.6	23.3	NA	13/15	12.5	42.1	22.1	NA	3/5	12.5	14.9	10.5	NA	9/10	6.58	10.9	8.01	NA

Table B-17
Summary Statistics for Polychlorinated Biphenyls in Edible Clam Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB198+199	5/5	130	157	145	NA	15/15	124	597	288	NA	5/5	160	186	172	NA	10/10	79.4	149	113	NA
PCB200	3/5	12.5	15.9	10.8	NA	14/15	11	72.3	33	NA	5/5	14.4	18.9	16.6	NA	8/10	7.24	12.2	8.43	NA
PCB201	5/5	14	20.9	17.9	NA	14/15	9.68	55.4	24.5	NA	3/5	12.4	14	10.6	NA	6/10	6.78	11.8	6.88	NA
PCB202	4/5	36.6	42.6	34.8	NA	15/15	27.7	110	60.5	NA	5/5	35	38.5	36.8	NA	9/10	18.1	33.3	23	NA
PCB203	5/5	101	123	114	NA	15/15	99.6	465	228	NA	5/5	131	153	144	NA	10/10	66.6	126	91.3	NA
PCB204	2/5	1.73	2.85	1.61	NA	2/15	1.72	2	0.831	NA	0/5	--	--	0.583	NA	0/10	--	--	0.493	NA
PCB205	3/5	4.96	6.19	4.47	NA	13/15	4.88	21.6	9.76	NA	5/5	5.86	6.74	6.31	NA	3/10	4.57	4.96	2.5	NA
PCB206	5/5	69.1	94.9	82.1	NA	14/15	55.7	176	107	NA	5/5	83.3	96.6	88.1	NA	10/10	36	73.9	51.2	NA
PCB207	5/5	65.5	104	83	NA	14/15	35.2	109	67.8	NA	5/5	36.9	45.6	41.6	NA	10/10	16.7	38	24	NA
PCB208	5/5	80.2	106	93.8	NA	14/15	41.7	93.5	69.5	NA	5/5	46.7	56.1	49.8	NA	10/10	17.9	47.9	31	NA
PCB209	5/5	1,230	1,660	1,460	NA	15/15	683	1,900	1,280	NA	5/5	722	868	771	NA	10/10	161	522	306	NA

Notes
FCA = fish collection area
NA = data not available
ww = wet weight
-- = Not applicable, no detected values
a - Mean and median calculations include detected and non-detected values. Non-detected values were set at one-half the detection limit.

Table B-18
Summary Statistics for Polychlorinated Biphenyls in Whole Gulf Killifish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
Gulf Killifish - Whole																				
Polychlorinated Biphenyls (ng/kg - ww)																				
PCB001	2/2	6.63	8.12	7.38	NA	6/6	5.4	178	91.2	NA	1/2	6.18	6.18	4.45	NA	7/8	2.66	5.45	3.31	NA
PCB002	0/2	--	--	0.633	NA	0/6	--	--	0.518	NA	0/2	--	--	0.963	NA	3/8	1.85	2.24	1.3	NA
PCB003	0/2	--	--	0.878	NA	4/6	2.25	13.5	4.58	NA	0/2	--	--	1.07	NA	5/8	2.29	2.72	1.94	NA
PCB004	1/2	36.4	36.4	25	NA	4/6	145	390	174	NA	1/2	19.7	19.7	42.9	NA	0/8	--	--	8.73	NA
PCB005	0/2	--	--	0.715	NA	0/6	--	--	1.02	NA	0/2	--	--	6.67	NA	0/8	--	--	1.8	NA
PCB006	2/2	9.78	12.3	11	NA	6/6	10.3	36.3	23.8	NA	0/2	--	--	8.65	NA	5/8	7.52	8.71	6.33	NA
PCB007	0/2	--	--	0.915	NA	3/6	6.63	9.6	5.33	NA	0/2	--	--	6.27	NA	1/8	1.67	1.67	1.84	NA
PCB008	0/2	--	--	37	NA	4/6	294	773	348	NA	2/2	39.9	54.9	47.4	NA	1/8	32.8	32.8	24.9	NA
PCB009	1/2	3.19	3.19	1.96	NA	3/6	10.8	19.3	8.34	NA	0/2	--	--	6.06	NA	1/8	2.19	2.19	1.84	NA
PCB010	1/2	3.03	3.03	2.25	NA	2/6	6.82	9.44	4.84	NA	0/2	--	--	24.4	NA	0/8	--	--	1.83	NA
PCB011	0/2	--	--	112	NA	0/6	--	--	95.9	NA	0/2	--	--	60.5	NA	0/8	--	--	93.6	NA
PCB012+013	0/2	--	--	0.645	NA	0/6	--	--	0.899	NA	0/2	--	--	6.01	NA	0/8	--	--	1.67	NA
PCB014	0/2	--	--	0.615	NA	0/6	--	--	0.863	NA	0/2	--	--	5.82	NA	0/8	--	--	1.57	NA
PCB015	1/2	24	24	17.6	NA	5/6	28.3	109	48.2	NA	0/2	--	--	6.43	NA	4/8	18.3	23.4	13.8	NA
PCB016	2/2	53.4	67.5	60.5	NA	6/6	51.2	76.4	60.6	NA	2/2	32	39	35.5	NA	7/8	23.9	31.8	27.1	NA
PCB017	2/2	69.3	89.1	79.2	NA	6/6	70.3	113	85.7	NA	2/2	51.2	59.7	55.5	NA	0/8	--	--	21.8	NA
PCB018+030	2/2	136	175	156	NA	5/6	134	169	130	NA	2/2	89.7	103	96.4	NA	0/8	--	--	36.5	NA
PCB019	0/2	--	--	11.6	NA	0/6	--	--	12.3	NA	1/2	24.2	24.2	15.8	NA	2/8	12.9	18.9	9.08	NA
PCB020+028	2/2	422	605	514	NA	6/6	459	619	524	NA	2/2	373	720	547	NA	1/8	239	239	132	NA
PCB021+033	0/2	--	--	23.9	NA	0/6	--	--	32	NA	0/2	--	--	16.1	NA	0/8	--	--	15.2	NA
PCB022	0/2	--	--	41.1	NA	0/6	--	--	45.2	NA	1/2	122	122	78.7	NA	0/8	--	--	21.3	NA
PCB023	0/2	--	--	0.935	NA	0/6	--	--	1.15	NA	0/2	--	--	2.2	NA	0/8	--	--	1.07	NA
PCB024	2/2	2.67	3.42	3.05	NA	4/6	1.89	4.9	2.49	NA	0/2	--	--	1.09	NA	3/8	1.11	1.46	1.01	NA
PCB025	2/2	15.2	19.6	17.4	NA	4/6	16.9	28.7	16.6	NA	2/2	16.6	23.9	20.3	NA	2/8	7.35	9.39	5.74	NA
PCB026+029	2/2	50.9	68.9	59.9	NA	6/6	41	81.7	55	NA	2/2	41.1	57	49.1	NA	2/8	20.8	26.5	15.3	NA
PCB027	2/2	20.6	30.4	25.5	NA	6/6	17.1	30.4	22.7	NA	2/2	13.9	17.9	15.9	NA	2/8	9.61	11.7	6.51	NA
PCB031	1/2	208	208	142	NA	2/6	195	231	122	NA	1/2	195	195	133	NA	0/8	--	--	45	NA
PCB032	1/2	109	109	74.2	NA	2/6	85	93.3	55.2	NA	2/2	51.5	87.6	69.6	NA	0/8	--	--	14.1	NA
PCB034	0/2	--	--	0.883	NA	1/6	2.51	2.51	1.33	NA	0/2	--	--	2	NA	0/8	--	--	0.963	NA
PCB035	0/2	--	--	0.883	NA	0/6	--	--	1.06	NA	0/2	--	--	1.97	NA	0/8	--	--	0.979	NA
PCB036	0/2	--	--	0.845	NA	0/6	--	--	0.993	NA	0/2	--	--	1.9	NA	0/8	--	--	0.905	NA
PCB037	0/2	--	--	13.2	NA	0/6	--	--	13	NA	0/2	--	--	10.8	NA	0/8	--	--	8	NA
PCB038	0/2	--	--	0.883	NA	0/6	--	--	1.09	NA	0/2	--	--	2.02	NA	0/8	--	--	0.977	NA
PCB039	0/2	--	--	0.888	NA	0/6	--	--	1.09	NA	0/2	--	--	2.01	NA	0/8	--	--	0.969	NA
PCB040+041+071	2/2	212	281	247	NA	6/6	174	285	243	NA	2/2	159	312	236	NA	2/8	90.4	101	53.3	NA

Table B-18
Summary Statistics for Polychlorinated Biphenyls in Whole Gulf Killifish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB042	2/2	103	140	122	NA	6/6	97.7	155	127	NA	2/2	82.2	141	112	NA	7/8	39.4	58.7	42.5	NA
PCB043+073	2/2	13.8	18.1	16	NA	3/6	11.3	18.5	11.6	NA	1/2	20.8	20.8	13.3	NA	4/8	5.18	9.44	5.24	NA
PCB044+047+065	2/2	825	1,180	1,000	NA	6/6	690	1150	901	NA	2/2	471	836	654	NA	8/8	326	399	357	NA
PCB045+051	2/2	60.4	65.4	62.9	NA	6/6	55	76.2	66.7	NA	2/2	47.1	80.1	63.6	NA	7/8	21.5	28.5	22.8	NA
PCB046	2/2	10.6	12.3	11.5	NA	3/6	10.5	12.8	8.32	NA	1/2	11.8	11.8	8.12	NA	4/8	4.5	5.62	3.59	NA
PCB048	2/2	40.1	41.7	40.9	NA	5/6	34.4	58.9	39.9	NA	1/2	52.1	52.1	34.1	NA	4/8	17.5	23.6	14	NA
PCB049+069	2/2	594	771	683	NA	6/6	482	1,050	720	NA	2/2	363	665	514	NA	8/8	241	305	270	NA
PCB050+053	2/2	89.4	99.6	94.5	NA	6/6	88.8	111	101	NA	2/2	61.3	87.3	74.3	NA	8/8	35.7	80.7	54.2	NA
PCB052	2/2	1,010	1,350	1,180	NA	6/6	814	2,750	1,530	NA	2/2	583	1,100	842	NA	6/8	425	501	387	NA
PCB054	1/2	1.99	1.99	1.44	NA	6/6	1.78	2.79	2.27	NA	0/2	--	--	0.535	NA	1/8	1.14	1.14	0.642	NA
PCB055	0/2	--	--	0.478	NA	0/6	--	--	0.605	NA	0/2	--	--	0.641	NA	0/8	--	--	0.511	NA
PCB056	2/2	58.9	70.8	64.9	NA	6/6	48	117	68.8	NA	2/2	63.7	130	96.9	NA	0/8	--	--	13.1	NA
PCB057	0/2	--	--	0.426	NA	1/6	1.65	1.65	0.725	NA	0/2	--	--	0.583	NA	0/8	--	--	0.46	NA
PCB058	0/2	--	--	0.444	NA	3/6	1.75	112	19.6	NA	0/2	--	--	0.6	NA	0/8	--	--	0.473	NA
PCB059+062+075	2/2	70.7	102	86.4	NA	6/6	61	101	78.8	NA	2/2	50.2	102	76.1	NA	8/8	29	36	31.9	NA
PCB060	2/2	111	150	131	NA	6/6	92.6	201	129	NA	2/2	148	399	274	NA	8/8	46	53.8	51.5	NA
PCB061+070+2m	2/2	840	1,180	1,010	NA	6/6	660	1,200	874	NA	2/2	702	1,430	1,070	NA	8/8	340	424	370	NA
PCB063	2/2	30.2	43.3	36.8	NA	6/6	24	58.4	34.1	NA	2/2	27.5	60	43.8	NA	7/8	13.1	16.3	13.2	NA
PCB064	2/2	276	389	333	NA	6/6	244	577	381	NA	2/2	224	489	357	NA	8/8	107	159	127	NA
PCB066	2/2	857	1,180	1,020	NA	6/6	561	1,180	772	NA	2/2	676	1,690	1,180	NA	8/8	309	364	342	NA
PCB067	0/2	--	--	1.18	NA	3/6	3.32	7.61	2.87	NA	0/2	--	--	1.66	NA	0/8	--	--	0.58	NA
PCB068	2/2	14.8	25.8	20.3	NA	6/6	11.8	20.1	15.2	NA	1/2	7.76	7.76	6.27	NA	7/8	6.12	10.7	7.86	NA
PCB072	2/2	16.5	24.4	20.5	NA	6/6	11.9	21.2	15.1	NA	2/2	8.18	12.6	10.4	NA	7/8	5.15	8.76	6.02	NA
PCB077	2/2	21.1	29.1	25.1	25.1	6/6	18.4	32.7	23.1	22.5	2/2	27	69.5	48.3	48.3	0/8	--	--	4.67	4.58
PCB078	0/2	--	--	0.725	NA	0/6	--	--	0.895	NA	0/2	--	--	1.42	NA	0/8	--	--	0.719	NA
PCB079	2/2	3.42	4.09	3.76	NA	4/6	2.71	22.5	8.76	NA	2/2	7.17	9.88	8.53	NA	4/8	1.57	4.24	1.69	NA
PCB080	0/2	--	--	0.65	NA	0/6	--	--	0.783	NA	0/2	--	--	1.28	NA	0/8	--	--	0.641	NA
PCB081	0/2	--	--	0.815	0.815	0/6	--	--	0.938	0.95	0/2	--	--	1.5	1.5	0/8	--	--	0.787	0.715
PCB082	0/2	--	--	14.5	NA	4/6	52.8	154	68.3	NA	1/2	61.2	61.2	38.7	NA	0/8	--	--	5.98	NA
PCB083+099	2/2	1,750	2,390	2,070	NA	6/6	935	7,400	3,340	NA	2/2	1,170	2,220	1,700	NA	8/8	532	728	598	NA
PCB084	0/2	--	--	45	NA	3/6	164	360	159	NA	0/2	--	--	40.5	NA	0/8	--	--	19.2	NA
PCB085+116	2/2	206	323	265	NA	6/6	146	1,720	723	NA	2/2	277	579	428	NA	8/8	80.9	131	100	NA
PCB086+087+4ma	2/2	446	638	542	NA	6/6	341	3,800	1,660	NA	2/2	511	1,080	796	NA	1/8	334	334	141	NA
PCB088+091	2/2	141	206	174	NA	6/6	111	931	415	NA	2/2	121	228	175	NA	6/8	64.7	97.2	64.6	NA
PCB089	1/2	4.25	4.25	2.9	NA	3/6	5.07	11.4	5.14	NA	1/2	3.81	3.81	3.42	NA	0/8	--	--	0.536	NA
PCB090+101+113	2/2	1,200	1,610	1,410	NA	6/6	938	10,800	4,530	NA	2/2	1,350	2,490	1,920	NA	7/8	547	820	600	NA
PCB092	2/2	287	320	304	NA	6/6	168	2,270	948	NA	2/2	241	507	374	NA	8/8	102	161	124	NA

Table B-18
Summary Statistics for Polychlorinated Biphenyls in Whole Gulf Killifish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB093+100	2/2	41.2	66.8	54	NA	6/6	26.5	92	52.3	NA	2/2	18.6	28	23.3	NA	8/8	17.1	24.6	20.4	NA
PCB094	2/2	4.9	7	5.95	NA	5/6	3.07	15.4	7.09	NA	0/2	--	--	2.02	NA	4/8	1.89	2.51	1.52	NA
PCB095	1/2	693	693	484	NA	5/6	546	4,300	1,790	NA	1/2	867	867	542	NA	0/8	--	--	144	NA
PCB096	1/2	2.51	2.51	1.77	NA	3/6	1.73	7.61	3.03	NA	0/2	--	--	0.905	NA	1/8	1.44	1.44	0.555	NA
PCB098+102	2/2	23.1	32.6	27.9	NA	5/6	16.7	105	47.8	NA	2/2	18.5	36.3	27.4	NA	5/8	9.54	13.8	8.32	NA
PCB103	2/2	21.5	27.1	24.3	NA	6/6	14.9	77.7	37.4	NA	2/2	12.3	14.8	13.6	NA	7/8	9.97	15.1	10.6	NA
PCB104	0/2	--	--	0.284	NA	0/6	--	--	0.349	NA	0/2	--	--	0.374	NA	0/8	--	--	0.287	NA
PCB105	2/2	515	633	574	574	6/6	299	2,980	1,290	632	2/2	703	1,270	987	987	8/8	194	329	229	219
PCB106	0/2	--	--	0.539	NA	0/6	--	--	1.51	NA	0/2	--	--	2.42	NA	0/8	--	--	0.845	NA
PCB107	2/2	110	183	147	NA	6/6	90	792	337	NA	2/2	155	274	215	NA	8/8	48.6	73.6	59.7	NA
PCB108+124	1/2	22.8	22.8	14.5	NA	5/6	15.1	49.9	28.1	NA	1/2	35.4	35.4	22.1	NA	1/8	11.9	11.9	5.48	NA
PCB110+115	2/2	835	1,220	1,030	NA	6/6	701	9,190	3,750	NA	2/2	1,110	2,270	1,690	NA	2/8	599	706	334	NA
PCB111	1/2	5.42	5.42	3.43	NA	1/6	4.9	4.9	2.26	NA	0/2	--	--	1.95	NA	0/8	--	--	0.93	NA
PCB112	0/2	--	--	1.06	NA	0/6	--	--	1.39	NA	0/2	--	--	1.81	NA	0/8	--	--	0.849	NA
PCB114	2/2	38.2	42.4	40.3	40.3	6/6	18.5	203	84.3	38.4	2/2	42.9	76.8	59.9	59.9	6/8	13	22.1	13.6	14
PCB117	2/2	48.4	64.9	56.7	NA	4/6	37.7	398	157	NA	2/2	44	106	75	NA	5/8	18	21.8	15.6	NA
PCB118	2/2	1,860	2,200	2,030	2,030	6/6	950	7,950	3,510	1,840	2/2	2,000	3,620	2,810	2,810	8/8	583	941	693	680
PCB120	2/2	17.2	29.1	23.2	NA	6/6	10.7	47.5	25.7	NA	1/2	15.7	15.7	10.1	NA	6/8	5.7	8.37	5.66	NA
PCB121	0/2	--	--	1.17	NA	0/6	--	--	1.48	NA	0/2	--	--	2	NA	0/8	--	--	0.926	NA
PCB122	0/2	--	--	0.598	NA	0/6	--	--	1.67	NA	0/2	--	--	2.64	NA	0/8	--	--	0.906	NA
PCB123	2/2	30.8	31.3	31.1	31.1	4/6	18.9	141	52.5	25.9	2/2	28.9	61.6	45.3	45.3	4/8	9.72	15.7	8.12	7.51
PCB126	1/2	6.1	6.1	4.01	4.01	5/6	3.56	24.4	10.3	6.42	0/2	--	--	3.26	3.25	3/8	2.07	5.9	2.39	1.37
PCB127	0/2	--	--	0.577	NA	2/6	17.5	26.3	7.98	NA	0/2	--	--	2.52	NA	0/8	--	--	0.892	NA
PCB128+166	2/2	401	448	425	NA	6/6	187	3,550	1,420	NA	2/2	450	748	599	NA	8/8	129	183	151	NA
PCB129+138+163	2/2	3,070	3,420	3,250	NA	6/6	1,410	23,800	9,440	NA	2/2	3,150	5,470	4,310	NA	8/8	923	1,330	1,080	NA
PCB130	2/2	113	151	132	NA	6/6	70.7	1,400	544	NA	2/2	142	261	202	NA	8/8	39.3	64.7	49.4	NA
PCB131	0/2	--	--	0.803	NA	0/6	--	--	2.09	NA	0/2	--	--	1.82	NA	0/8	--	--	0.758	NA
PCB132	1/2	183	183	124	NA	4/6	279	2,000	786	NA	2/2	207	405	306	NA	0/8	--	--	43.5	NA
PCB133	2/2	65	72.3	68.7	NA	6/6	30.5	474	182	NA	2/2	53	91.2	72.1	NA	8/8	18.2	24.7	21.6	NA
PCB134	0/2	--	--	9.73	NA	4/6	37.2	227	88.2	NA	1/2	40.6	40.6	26.2	NA	0/8	--	--	5.64	NA
PCB135+151	2/2	373	442	408	NA	6/6	212	4,730	1,710	NA	2/2	363	852	608	NA	6/8	158	222	161	NA
PCB136	0/2	--	--	28.8	NA	3/6	110	445	169	NA	1/2	76.3	76.3	48.6	NA	0/8	--	--	13.7	NA
PCB137	2/2	116	128	122	NA	6/6	56.1	1,320	512	NA	2/2	165	295	230	NA	8/8	42.8	66	49	NA
PCB139+140	2/2	36	49	42.5	NA	6/6	18.8	422	162	NA	2/2	43.8	79	61.4	NA	7/8	12.5	17.9	13.6	NA
PCB141	2/2	175	199	187	NA	6/6	117	2,570	1,000	NA	2/2	264	498	381	NA	4/8	104	139	79.5	NA
PCB142	0/2	--	--	0.833	NA	0/6	--	--	2.1	NA	0/2	--	--	1.86	NA	0/8	--	--	0.784	NA
PCB143	0/2	--	--	0.72	NA	0/6	--	--	1.94	NA	0/2	--	--	1.74	NA	0/8	--	--	0.703	NA

Table B-18
Summary Statistics for Polychlorinated Biphenyls in Whole Gulf Killifish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB144	2/2	38.4	44.9	41.7	NA	5/6	33.8	569	201	NA	1/2	193	193	109	NA	0/8	--	--	11.7	NA
PCB145	0/2	--	--	0.368	NA	0/6	--	--	0.282	NA	0/2	--	--	0.435	NA	0/8	--	--	0.366	NA
PCB146	2/2	629	741	685	NA	6/6	280	4,190	1,600	NA	2/2	535	786	661	NA	8/8	182	236	203	NA
PCB147+149	2/2	622	890	756	NA	6/6	493	7,700	3,130	NA	2/2	805	1,580	1,190	NA	2/8	399	412	222	NA
PCB148	2/2	6.03	10.4	8.22	NA	4/6	4.42	30.4	12.3	NA	2/2	4.12	5.23	4.68	NA	7/8	2.37	3.76	2.7	NA
PCB150	2/2	3.24	4.2	3.72	NA	6/6	2.78	9.91	5.56	NA	0/2	--	--	0.95	NA	4/8	1.36	2.9	1.26	NA
PCB152	1/2	1.1	1.1	0.751	NA	1/6	5.24	5.24	1.3	NA	0/2	--	--	0.397	NA	0/8	--	--	0.33	NA
PCB153+168	2/2	3,840	4,230	4,040	NA	6/6	1,560	23,500	9530	NA	2/2	3,170	5,110	4,140	NA	8/8	1,090	1,380	1,210	NA
PCB154	2/2	85.4	119	102	NA	6/6	40.9	305	134	NA	2/2	44.6	72.7	58.7	NA	8/8	27.7	35.6	31.2	NA
PCB155	2/2	5.28	7.02	6.15	NA	3/6	2.61	3.78	2.04	NA	0/2	--	--	0.526	NA	5/8	1.32	2.08	1.22	NA
PCB156+157	2/2	266	281	274	274	6/6	119	2,010	813	298	2/2	349	570	460	460	8/8	83.5	140	102	97.3
PCB158	2/2	239	254	247	NA	6/6	102	2,130	831	NA	2/2	251	449	350	NA	8/8	74.8	122	89.8	NA
PCB159	2/2	4.48	5.51	5	NA	5/6	2.77	53.2	21.4	NA	1/2	5.03	5.03	4.62	NA	4/8	1.83	3.02	1.74	NA
PCB160	0/2	--	--	0.63	NA	0/6	--	--	1.74	NA	0/2	--	--	1.36	NA	0/8	--	--	0.588	NA
PCB161	0/2	--	--	0.576	NA	0/6	--	--	1.52	NA	0/2	--	--	1.32	NA	0/8	--	--	0.549	NA
PCB162	1/2	14.5	14.5	9.71	NA	5/6	9.02	75.9	31.3	NA	2/2	15	27.1	21.1	NA	3/8	3.93	5.28	2.97	NA
PCB164	2/2	61.2	85.4	73.3	NA	6/6	49	888	342	NA	2/2	96.3	190	143	NA	5/8	32.8	48.2	31.2	NA
PCB165	0/2	--	--	0.648	NA	0/6	--	--	1.72	NA	0/2	--	--	1.59	NA	0/8	--	--	0.644	NA
PCB167	2/2	145	146	146	146	6/6	58.5	826	345	144	2/2	162	255	209	209	8/8	42.8	60.5	47.6	45.5
PCB169	0/2	--	--	0.913	0.913	0/6	--	--	1.57	0.665	0/2	--	--	1.4	1.4	0/8	--	--	0.75	0.638
PCB170	2/2	612	669	641	641	6/6	254	4,220	1540	583	2/2	549	830	690	690	8/8	156	238	191	190
PCB171+173	2/2	180	200	190	NA	6/6	82.3	1,470	538	NA	2/2	148	232	190	NA	8/8	45.2	72.8	55.3	NA
PCB172	2/2	121	122	122	NA	6/6	51.4	759	309	NA	2/2	66.4	140	103	NA	8/8	30.5	38.1	33.6	NA
PCB174	2/2	122	154	138	NA	6/6	89.5	1,790	662	NA	2/2	138	297	218	NA	6/8	53.4	75.3	55.4	NA
PCB175	2/2	21.1	23.1	22.1	NA	5/6	7.65	157	59.5	NA	2/2	21.4	29.4	25.4	NA	5/8	6.43	7.76	5.64	NA
PCB176	1/2	16.9	16.9	11.1	NA	6/6	8.76	155	62.5	NA	2/2	16.1	24	20.1	NA	4/8	5.99	8	4.77	NA
PCB177	2/2	259	292	276	NA	6/6	141	3,090	1,060	NA	2/2	188	326	257	NA	8/8	62.7	83.6	70.9	NA
PCB178	2/2	174	194	184	NA	6/6	83.9	1,350	536	NA	2/2	123	201	162	NA	8/8	47.2	73	57.6	NA
PCB179	2/2	45.7	63.2	54.5	NA	6/6	39	625	255	NA	2/2	48.6	89.9	69.3	NA	5/8	18.5	29.8	21	NA
PCB180+193	2/2	1,790	1,880	1,840	1,840	6/6	674	11,300	4,240	1640	2/2	1,290	2,130	1,710	1,710	8/8	396	614	508	509
PCB181	1/2	7.41	7.41	4.89	NA	5/6	4.79	92.1	31.8	NA	1/2	7.66	7.66	6.46	NA	4/8	3.12	3.21	2.21	NA
PCB182	1/2	8.09	8.09	5.3	NA	4/6	5.06	48.6	17.5	NA	2/2	7.3	10.8	9.05	NA	4/8	3.13	4.5	2.4	NA
PCB183	2/2	464	492	478	NA	6/6	187	3,590	1,300	NA	2/2	342	645	494	NA	8/8	115	192	146	NA
PCB184	1/2	4.87	4.87	2.98	NA	2/6	1.67	6.97	1.76	NA	0/2	--	--	0.685	NA	1/8	1.13	1.13	0.496	NA
PCB185	2/2	15.8	21.5	18.7	NA	6/6	15.9	212	85.3	NA	1/2	31.5	31.5	16.5	NA	4/8	6.97	9.63	5.97	NA
PCB186	0/2	--	--	0.374	NA	0/6	--	--	0.328	NA	0/2	--	--	0.538	NA	0/8	--	--	0.32	NA
PCB187	2/2	1,260	1,460	1,360	NA	6/6	570	9,110	3,670	NA	2/2	890	1,520	1,210	NA	8/8	331	558	419	NA

Table B-18
Summary Statistics for Polychlorinated Biphenyls in Whole Gulf Killifish Tissue by FCA, Wet Weight

	FCA1					FCA2					FCA3					Background				
	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]	Detection Frequency	Minimum Detected Value	Maximum Detected Value	Mean [a]	Median [a]
PCB188	2/2	4.02	5.35	4.69	NA	5/6	1.94	7.86	3.34	NA	1/2	2.33	2.33	1.42	NA	4/8	1.25	2.31	1.13	NA
PCB189	2/2	16.7	19.4	18.1	18.1	6/6	6.07	84	33.6	16.7	2/2	12.6	19	15.8	15.8	5/8	3.95	6.53	4.13	4.34
PCB190	2/2	90.8	97	93.9	NA	6/6	34.5	494	200	NA	2/2	48.7	103	75.9	NA	8/8	23.9	31.8	27.5	NA
PCB191	2/2	31.9	32	32	NA	6/6	11.6	200	74.8	NA	2/2	27.9	41	34.5	NA	5/8	7.76	12.4	8.27	NA
PCB192	0/2	--	--	1.06	NA	0/6	--	--	1.64	NA	0/2	--	--	2.27	NA	0/8	--	--	0.743	NA
PCB194	2/2	170	239	205	NA	6/6	60.9	954	380	NA	2/2	139	197	168	NA	8/8	54.6	122	74.6	NA
PCB195	2/2	97.1	117	107	NA	6/6	38.1	638	242	NA	2/2	77.2	110	93.6	NA	8/8	34.1	54.3	42	NA
PCB196	2/2	209	211	210	NA	6/6	81.5	1,360	498	NA	2/2	142	203	173	NA	8/8	52.9	105	75.2	NA
PCB197	2/2	36	41.2	38.6	NA	6/6	14.9	126	53.2	NA	2/2	19.6	24.7	22.2	NA	7/8	7.61	15.7	9.83	NA
PCB198+199	2/2	432	449	441	NA	6/6	188	2,800	1,140	NA	2/2	298	437	368	NA	8/8	123	224	167	NA
PCB200	1/2	6.6	6.6	4.56	NA	5/6	4.78	50.7	20.9	NA	2/2	4.25	9.39	6.82	NA	4/8	1.9	2.75	1.86	NA
PCB201	2/2	53.4	54.7	54.1	NA	6/6	22.3	322	129	NA	2/2	33	51.9	42.5	NA	7/8	12.8	26.4	16.1	NA
PCB202	2/2	88.3	90.3	89.3	NA	6/6	39.5	462	182	NA	2/2	60.5	81.4	71	NA	8/8	24.5	46.5	34.5	NA
PCB203	2/2	211	233	222	NA	6/6	82.9	1,050	445	NA	2/2	114	205	160	NA	8/8	74.8	93	85.2	NA
PCB204	2/2	2.22	2.77	2.5	NA	2/6	1.53	3.88	1.31	NA	0/2	--	--	0.823	NA	0/8	--	--	0.522	NA
PCB205	2/2	5.39	6.25	5.82	NA	3/6	6.66	21.5	8.02	NA	0/2	--	--	1.26	NA	1/8	2.22	2.22	0.912	NA
PCB206	2/2	67	67.1	67.1	NA	5/6	22.3	138	67	NA	2/2	29.5	53.6	41.6	NA	7/8	33.7	42.9	34.9	NA
PCB207	2/2	75.5	87.7	81.6	NA	6/6	31.7	89	55.3	NA	2/2	36.1	45.1	40.6	NA	7/8	23.1	37.5	25	NA
PCB208	2/2	90.9	92.3	91.6	NA	6/6	38.8	97.1	62.7	NA	2/2	36.7	46.1	41.4	NA	6/8	23.7	35.7	26	NA
PCB209	2/2	873	893	883	NA	6/6	343	492	420	NA	2/2	297	300	299	NA	8/8	166	300	227	NA

Notes

FCA = fish collection area
NA = data not available
ww = wet weight
-- = Not applicable, no detected values

a - Mean and median calculations include detected and non-detected values. Non-detected values were set at one-half the detection limit.

APPENDIX C
PAIR-WISE COMPARISONS OF BIOACCUMULATIVE COPCS IN TISSUE FOR EACH FCA AND BACKGROUND

Table C-1

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Crab Edible Tissue for Each FCA with Background

COPC [a]	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
TEQ (ng/kg)				
TEQ_{DF}	FCA1	0.554	**0.0000913**	YES
TEQ_{DF}	FCA2	0.199	**0.0106**	YES
TEQ_{DF}	FCA3	0.151	0.121	
TEQ_{DF}	Background	0.104	0.515	
TEQ_{DFP}	FCA1	0.641	**0.0000913**	YES
TEQ_{DFP}	FCA2	0.428	**0.0000913**	YES
TEQ_{DFP}	FCA3	0.273	**0.00141**	YES
TEQ_{DFP}	Background	0.190	0.515	
TEQ_{P}	FCA1	0.107	0.172	
TEQ_{P}	FCA2	0.212	**0.000220**	YES
TEQ_{P}	FCA3	0.147	0.0702	
TEQ_{P}	Background	0.0910	0.515	
Dioxins and Furans (ng/kg)				
Total dioxins and furans [b]	FCA1	3.06	**0.0000913**	YES
Total dioxins and furans [b]	FCA2	1.35	**0.00566**	YES
Total dioxins and furans [b]	FCA3	0.735	0.0702	
Total dioxins and furans [b]	Background	0.631	0.515	
2,3,7,8-TCDD	FCA1	0.371	**0.0000913**	YES
2,3,7,8-TCDD	FCA2	0.105	**0.0293**	YES
2,3,7,8-TCDD	FCA3	0.0615	0.0929	
2,3,7,8-TCDD	Background	0.0393	0.515	
1,2,3,7,8-PeCDD	FCA1	0.0293	0.863	
1,2,3,7,8-PeCDD	FCA2	0.0280	0.863	
1,2,3,7,8-PeCDD	FCA3	0.0276	0.797	
1,2,3,7,8-PeCDD	Background	0.0329	0.515	
1,2,3,4,7,8-HxCDD	FCA1	0.0254	0.633	
1,2,3,4,7,8-HxCDD	FCA2	0.0230	0.846	

Table C-1

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Crab Edible Tissue for Each FCA with Background

COPC [a]	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
1,2,3,4,7,8-HxCDD	FCA3	0.0223	0.797	
1,2,3,4,7,8-HxCDD	Background	0.0271	0.515	
1,2,3,6,7,8-HxCDD	FCA1	0.0395	0.154	
1,2,3,6,7,8-HxCDD	FCA2	0.0305	0.808	
1,2,3,6,7,8-HxCDD	FCA3	0.0278	0.786	
1,2,3,6,7,8-HxCDD	Background	0.0338	0.515	
1,2,3,7,8,9-HxCDD	FCA1	0.0279	0.485	
1,2,3,7,8,9-HxCDD	FCA2	0.0259	0.797	
1,2,3,7,8,9-HxCDD	FCA3	0.0238	0.740	
1,2,3,7,8,9-HxCDD	Background	0.0287	0.515	
1,2,3,4,6,7,8-HpCDD	FCA1	0.117	**0.000123**	YES
1,2,3,4,6,7,8-HpCDD	FCA2	0.0254	0.530	
1,2,3,4,6,7,8-HpCDD	FCA3	0.0257	0.500	
1,2,3,4,6,7,8-HpCDD	Background	0.0261	0.515	
OCDD	FCA1	0.407	**0.000657**	YES
OCDD	FCA2	0.197	0.154	
OCDD	FCA3	0.0890	0.977	
OCDD	Background	0.138	0.515	
2,3,7,8-TCDF	FCA1	1.26	**0.0000913**	YES
2,3,7,8-TCDF	FCA2	0.464	**0.00364**	YES
2,3,7,8-TCDF	FCA3	0.158	**0.00110**	YES
2,3,7,8-TCDF	Background	0.0371	0.515	
1,2,3,7,8-PeCDF	FCA1	0.0286	0.879	
1,2,3,7,8-PeCDF	FCA2	0.0253	0.986	
1,2,3,7,8-PeCDF	FCA3	0.0300	0.740	
1,2,3,7,8-PeCDF	Background	0.0310	0.515	
2,3,4,7,8-PeCDF	FCA1	0.0268	0.872	
2,3,4,7,8-PeCDF	FCA2	0.0252	0.968	

Table C-1

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Crab Edible Tissue for Each FCA with Background

COPC [a]	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
2,3,4,7,8-PeCDF	FCA3	0.0291	0.688	
2,3,4,7,8-PeCDF	Background	0.0293	0.515	
1,2,3,4,7,8-HxCDF	FCA1	0.0179	0.740	
1,2,3,4,7,8-HxCDF	FCA2	0.0177	0.919	
1,2,3,4,7,8-HxCDF	FCA3	0.0190	0.715	
1,2,3,4,7,8-HxCDF	Background	0.0194	0.515	
1,2,3,6,7,8-HxCDF	FCA1	0.0213	0.339	
1,2,3,6,7,8-HxCDF	FCA2	0.0172	0.863	
1,2,3,6,7,8-HxCDF	FCA3	0.0179	0.752	
1,2,3,6,7,8-HxCDF	Background	0.0186	0.515	
1,2,3,7,8,9-HxCDF	FCA1	0.0191	0.919	
1,2,3,7,8,9-HxCDF	FCA2	0.0225	0.633	
1,2,3,7,8,9-HxCDF	FCA3	0.0235	0.633	
1,2,3,7,8,9-HxCDF	Background	0.0240	0.515	
2,3,4,6,7,8-HxCDF	FCA1	0.0181	0.808	
2,3,4,6,7,8-HxCDF	FCA2	0.0189	0.818	
2,3,4,6,7,8-HxCDF	FCA3	0.0193	0.894	
2,3,4,6,7,8-HxCDF	Background	0.0209	0.515	
1,2,3,4,6,7,8-HpCDF	FCA1	0.0259	**0.0188**	YES
1,2,3,4,6,7,8-HpCDF	FCA2	0.0194	0.485	
1,2,3,4,6,7,8-HpCDF	FCA3	0.0283	**0.0116**	YES
1,2,3,4,6,7,8-HpCDF	Background	0.0189	0.515	
1,2,3,4,7,8,9-HpCDF	FCA1	0.0335	0.106	
1,2,3,4,7,8,9-HpCDF	FCA2	0.0277	0.425	
1,2,3,4,7,8,9-HpCDF	FCA3	0.0393	**0.0106**	YES
1,2,3,4,7,8,9-HpCDF	Background	0.0272	0.515	
OCDF	FCA1	0.0840	**0.0171**	YES
OCDF	FCA2	0.0410	0.939	

Table C-1

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Crab Edible Tissue for Each FCA with Background

COPC [a]	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
OCDF	FCA3	0.0540	0.214	
OCDF	Background	0.0504	0.515	
Metals (µg/kg)				
Arsenic	FCA1	0.458	0.975	
Arsenic	FCA2	0.461	0.962	
Arsenic	FCA3	0.391	0.999	
Arsenic	Background	0.539	0.515	
Cadmium	FCA1	0.0127	**0.000383**	YES
Cadmium	FCA2	0.0107	**0.00288**	YES
Cadmium	FCA3	0.00915	**0.00450**	YES
Cadmium	Background	0.00430	0.515	
Chromium	FCA1	0.0450	**0.00850**	YES
Chromium	FCA2	0.0200	0.391	
Chromium	FCA3	0.0150	0.822	
Chromium	Background	0.0200	0.516	
Copper	FCA1	10.6	**0.0000908**	YES
Copper	FCA2	9.91	**0.00159**	YES
Copper	FCA3	10.6	**0.0000913**	YES
Copper	Background	7.29	0.515	
Mercury	FCA1	0.0531	**0.0000908**	YES
Mercury	FCA2	0.0245	**0.00951**	YES
Mercury	FCA3	0.0354	**0.000502**	YES
Mercury	Background	0.0189	0.515	
Nickel	FCA1	0.0410	0.192	
Nickel	FCA2	0.0353	0.740	
Nickel	FCA3	0.0260	0.973	
Nickel	Background	0.0383	0.515	
Zinc	FCA1	49.8	**0.0000908**	YES

Table C-1

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Crab Edible Tissue for Each FCA with Background

COPC [a]	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
Zinc	FCA2	46.8	0.339	
Zinc	FCA3	50.8	**0.0378**	YES
Zinc	Background	44.9	0.515	
Polychlorinated Biphenyls (µg/kg)				
Total PCBs [c]	FCA1	1.40	0.396	
Total PCBs [c]	FCA2	6.63	**0.0000908**	YES
Total PCBs [c]	FCA3	4.18	**0.0000908**	YES
Total PCBs [c]	Background	1.39	0.515	
PCB077	FCA1	2.51	0.121	
PCB077	FCA2	22.0	**0.0000913**	YES
PCB077	FCA3	16.3	**0.0000903**	YES
PCB077	Background	1.48	0.515	
PCB081	FCA1	0.850	**0.0205**	YES
PCB081	FCA2	1.03	**0.00454**	YES
PCB081	FCA3	0.833	**0.00453**	YES
PCB081	Background	0.635	0.515	
PCB105	FCA1	43.1	**0.0116**	YES
PCB105	FCA2	214	**0.0000913**	YES
PCB105	FCA3	142	**0.0000913**	YES
PCB105	Background	18.4	0.515	
PCB114	FCA1	2.50	0.172	
PCB114	FCA2	15.1	**0.0000908**	YES
PCB114	FCA3	8.26	**0.000122**	YES
PCB114	Background	0.918	0.515	
PCB118	FCA1	139	0.285	
PCB118	FCA2	680	**0.0000913**	YES
PCB118	FCA3	446	**0.0000913**	YES
PCB118	Background	99.2	0.515	

Table C-1

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Crab Edible Tissue for Each FCA with Background

COPC [a]	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
PCB123	FCA1	1.09	0.136	
PCB123	FCA2	9.60	**0.0000908**	YES
PCB123	FCA3	6.41	**0.0000908**	YES
PCB123	Background	0.778	0.515	
PCB126	FCA1	0.683	0.154	
PCB126	FCA2	1.44	**0.000966**	YES
PCB126	FCA3	1.02	0.106	
PCB126	Background	0.648	0.515	
PCB156+157 [d]	FCA1	13.9	0.0929	
PCB156+157 [d]	FCA2	59.2	**0.0000913**	YES
PCB156+157 [d]	FCA3	45.9	**0.000123**	YES
PCB156+157 [d]	Background	8.16	0.515	
PCB167	FCA1	5.65	0.182	
PCB167	FCA2	29.8	**0.0000913**	YES
PCB167	FCA3	21.4	**0.0000913**	YES
PCB167	Background	4.27	0.515	
PCB169	FCA1	0.628	0.128	
PCB169	FCA2	0.800	**0.032**	YES
PCB169	FCA3	0.503	0.485	
PCB169	Background	0.531	0.515	
PCB170	FCA1	11.9	0.285	
PCB170	FCA2	48.7	**0.0000913**	YES
PCB170	FCA3	36.1	**0.000165**	YES
PCB170	Background	6.81	0.515	
PCB180+193 [d]	FCA1	34.9	0.485	
PCB180+193 [d]	FCA2	158	**0.000122**	YES
PCB180+193 [d]	FCA3	107	**0.000384**	YES
PCB180+193 [d]	Background	29.4	0.515	

Table C-1

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Crab Edible Tissue for Each FCA with Background

COPC [a]	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
PCB189	FCA1	1.00	0.154	
PCB189	FCA2	1.17	**0.032**	YES
PCB189	FCA3	1.13	0.0521	
PCB189	Background	0.523	0.515	
Semivolatile Organic Compounds (µg/kg)				
Bis(2-ethylhexyl)phthalate	FCA1	105	1.00	
Bis(2-ethylhexyl)phthalate	FCA2	105	1.00	
Bis(2-ethylhexyl)phthalate	FCA3	105	1.00	
Bis(2-ethylhexyl)phthalate	Background	105	1.00	

Notes

a - Includes only those COPCs that are considered to be bioaccumulative and that will be addressed in the human health and wildlife risk assessments (see Table 1-2).

b - Represents the sum of 17 congeners, with nondetects set at one-half the detection limit.

c - Represents the sum of 209 congeners, with nondetects set at one-half the detection limit.

d - Co-eluting PCB congeners.

Table C-2

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Crab for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
TEQ (ng/kg)				
TEQ_{DF}	FCA1	3.33	**0.0404**	YES
TEQ_{DF}	FCA2	2.24	**0.0404**	YES
TEQ_{DF}	FCA3	1.17	**0.0404**	YES
TEQ_{DF}	Background	0.165	0.590	
TEQ_{DFP}	FCA1	3.61	**0.0404**	YES
TEQ_{DFP}	FCA2	2.98	**0.0404**	YES
TEQ_{DFP}	FCA3	1.87	**0.0404**	YES
TEQ_{DFP}	Background	0.281	0.590	
TEQ_{P}	FCA1	0.663	**0.0404**	YES
TEQ_{P}	FCA2	0.735	**0.0404**	YES
TEQ_{P}	FCA3	0.795	**0.0404**	YES
TEQ_{P}	Background	0.116	0.590	
Dioxins and Furans (ng/kg)				
Total dioxins and furans [b]	FCA1	13.6	**0.0404**	YES
Total dioxins and furans [b]	FCA2	10.7	**0.0404**	YES
Total dioxins and furans [b]	FCA3	6.69	**0.0404**	YES
Total dioxins and furans [b]	Background	2.27	0.590	
2,3,7,8-TCDD	FCA1	2.47	**0.0404**	YES
2,3,7,8-TCDD	FCA2	1.60	**0.0404**	YES
2,3,7,8-TCDD	FCA3	0.812	**0.0404**	YES
2,3,7,8-TCDD	Background	0.0668	0.590	
1,2,3,7,8-PeCDD	FCA1	0.0247	0.809	
1,2,3,7,8-PeCDD	FCA2	0.0217	0.905	
1,2,3,7,8-PeCDD	FCA3	0.0259	0.809	
1,2,3,7,8-PeCDD	Background	0.0374	0.590	
1,2,3,4,7,8-HxCDD	FCA1	0.0265	0.500	

Table C-2

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Crab for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
1,2,3,4,7,8-HxCDD	FCA2	0.0212	0.809	
1,2,3,4,7,8-HxCDD	FCA3	0.0253	0.809	
1,2,3,4,7,8-HxCDD	Background	0.0262	0.590	
1,2,3,6,7,8-HxCDD	FCA1	0.0453	0.0952	
1,2,3,6,7,8-HxCDD	FCA2	0.0288	0.809	
1,2,3,6,7,8-HxCDD	FCA3	0.0340	0.669	
1,2,3,6,7,8-HxCDD	Background	0.0347	0.590	
1,2,3,7,8,9-HxCDD	FCA1	0.0371	0.331	
1,2,3,7,8,9-HxCDD	FCA2	0.0242	0.809	
1,2,3,7,8,9-HxCDD	FCA3	0.0286	0.500	
1,2,3,7,8,9-HxCDD	Background	0.0287	0.590	
1,2,3,4,6,7,8-HpCDD	FCA1	0.205	0.0952	
1,2,3,4,6,7,8-HpCDD	FCA2	0.103	0.331	
1,2,3,4,6,7,8-HpCDD	FCA3	0.0904	0.191	
1,2,3,4,6,7,8-HpCDD	Background	0.0780	0.590	
OCDD	FCA1	1.55	0.500	
OCDD	FCA2	2.71	0.331	
OCDD	FCA3	2.05	0.500	
OCDD	Background	1.48	0.590	
2,3,7,8-TCDF	FCA1	7.74	**0.0404**	YES
2,3,7,8-TCDF	FCA2	5.82	**0.0404**	YES
2,3,7,8-TCDF	FCA3	3.37	**0.0404**	YES
2,3,7,8-TCDF	Background	0.251	0.590	
1,2,3,7,8-PeCDF	FCA1	0.0782	0.331	
1,2,3,7,8-PeCDF	FCA2	0.0446	0.331	
1,2,3,7,8-PeCDF	FCA3	0.0400	0.331	
1,2,3,7,8-PeCDF	Background	0.0349	0.590	
2,3,4,7,8-PeCDF	FCA1	0.146	**0.0404**	YES

Table C-2

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Crab for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
2,3,4,7,8-PeCDF	FCA2	0.0537	**0.0404**	YES
2,3,4,7,8-PeCDF	FCA3	0.0398	0.331	
2,3,4,7,8-PeCDF	Background	0.0323	0.590	
1,2,3,4,7,8-HxCDF	FCA1	0.0227	0.331	
1,2,3,4,7,8-HxCDF	FCA2	0.0289	0.191	
1,2,3,4,7,8-HxCDF	FCA3	0.0257	0.0952	
1,2,3,4,7,8-HxCDF	Background	0.0186	0.590	
1,2,3,6,7,8-HxCDF	FCA1	0.0178	0.669	
1,2,3,6,7,8-HxCDF	FCA2	0.0287	0.191	
1,2,3,6,7,8-HxCDF	FCA3	0.0192	0.191	
1,2,3,6,7,8-HxCDF	Background	0.0181	0.590	
1,2,3,7,8,9-HxCDF	FCA1	0.0207	0.809	
1,2,3,7,8,9-HxCDF	FCA2	0.0381	0.0952	
1,2,3,7,8,9-HxCDF	FCA3	0.0262	**0.0404**	YES
1,2,3,7,8,9-HxCDF	Background	0.0218	0.590	
2,3,4,6,7,8-HxCDF	FCA1	0.0193	0.669	
2,3,4,6,7,8-HxCDF	FCA2	0.0313	0.191	
2,3,4,6,7,8-HxCDF	FCA3	0.0203	0.191	
2,3,4,6,7,8-HxCDF	Background	0.0200	0.590	
1,2,3,4,6,7,8-HpCDF	FCA1	0.0391	**0.0404**	YES
1,2,3,4,6,7,8-HpCDF	FCA2	0.0255	0.191	
1,2,3,4,6,7,8-HpCDF	FCA3	0.0379	**0.0404**	YES
1,2,3,4,6,7,8-HpCDF	Background	0.0208	0.590	
1,2,3,4,7,8,9-HpCDF	FCA1	0.0280	0.809	
1,2,3,4,7,8,9-HpCDF	FCA2	0.0282	0.500	
1,2,3,4,7,8,9-HpCDF	FCA3	0.0375	0.191	
1,2,3,4,7,8,9-HpCDF	Background	0.0301	0.590	
OCDF	FCA1	0.111	**0.0404**	YES

Table C-2

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Crab for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
OCDF	FCA2	0.0564	0.331	
OCDF	FCA3	0.0500	0.191	
OCDF	Background	0.0480	0.590	
Metals (µg/kg)				
Arsenic	FCA1	0.724	0.669	
Arsenic	FCA2	0.777	0.191	
Arsenic	FCA3	0.588	0.985	
Arsenic	Background	0.706	0.590	
Cadmium	FCA1	0.0840	**0.0404**	YES
Cadmium	FCA2	0.0887	**0.0404**	YES
Cadmium	FCA3	0.0583	**0.0404**	YES
Cadmium	Background	0.0129	0.590	
Chromium	FCA1	1.53	**0.0404**	YES
Chromium	FCA2	0.281	0.331	
Chromium	FCA3	0.300	0.191	
Chromium	Background	0.246	0.590	
Copper	FCA1	14.1	**0.0404**	YES
Copper	FCA2	12.7	**0.0404**	YES
Copper	FCA3	12.9	**0.0404**	YES
Copper	Background	7.71	0.590	
Mercury	FCA1	0.0262	**0.0404**	YES
Mercury	FCA2	0.0153	0.191	
Mercury	FCA3	0.0199	**0.0404**	YES
Mercury	Background	0.0117	0.590	
Nickel	FCA1	0.799	**0.0404**	YES
Nickel	FCA2	0.246	0.191	
Nickel	FCA3	0.238	0.191	
Nickel	Background	0.180	0.590	

Table C-2

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Crab for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
Zinc	FCA1	35.3	**0.0404**	YES
Zinc	FCA2	35.8	0.191	
Zinc	FCA3	30.0	0.500	
Zinc	Background	31.0	0.590	
Polychlorinated Biphenyls (µg/kg)				
Total PCBs [c]	FCA1	28.6	**0.0404**	YES
Total PCBs [c]	FCA2	29.4	**0.0404**	YES
Total PCBs [c]	FCA3	20.7	**0.0404**	YES
Total PCBs [c]	Background	4.18	0.590	
PCB077	FCA1	88.9	**0.0404**	YES
PCB077	FCA2	81.1	**0.0404**	YES
PCB077	FCA3	61.2	**0.0404**	YES
PCB077	Background	5.94	0.590	
PCB081	FCA1	3.78	**0.0404**	YES
PCB081	FCA2	4.00	**0.0404**	YES
PCB081	FCA3	2.68	**0.0404**	YES
PCB081	Background	0.759	0.590	
PCB105	FCA1	690	**0.0404**	YES
PCB105	FCA2	740	**0.0404**	YES
PCB105	FCA3	535	**0.0404**	YES
PCB105	Background	74.3	0.590	
PCB114	FCA1	43.3	**0.0404**	YES
PCB114	FCA2	48.2	**0.0404**	YES
PCB114	FCA3	35.8	**0.0404**	YES
PCB114	Background	5.83	0.590	
PCB118	FCA1	2350	**0.0404**	YES
PCB118	FCA2	2570	**0.0404**	YES

Table C-2

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Crab for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
PCB118	FCA3	1950	**0.0404**	YES
PCB118	Background	337	0.590	
PCB123	FCA1	46.8	**0.0404**	YES
PCB123	FCA2	46.8	**0.0404**	YES
PCB123	FCA3	32.1	**0.0404**	YES
PCB123	Background	5.70	0.590	
PCB126	FCA1	4.58	**0.0404**	YES
PCB126	FCA2	5.79	**0.0404**	YES
PCB126	FCA3	6.48	**0.0404**	YES
PCB126	Background	0.786	0.590	
PCB156+157 [d]	FCA1	272	**0.0404**	YES
PCB156+157 [d]	FCA2	273	**0.0404**	YES
PCB156+157 [d]	FCA3	196	**0.0404**	YES
PCB156+157 [d]	Background	36.0	0.590	
PCB167	FCA1	131	**0.0404**	YES
PCB167	FCA2	150	**0.0404**	YES
PCB167	FCA3	115	**0.0404**	YES
PCB167	Background	18.5	0.590	
PCB169	FCA1	1.21	0.0952	
PCB169	FCA2	1.05	**0.0404**	YES
PCB169	FCA3	0.657	0.500	
PCB169	Background	0.719	0.590	
PCB170	FCA1	324	**0.0404**	YES
PCB170	FCA2	312	**0.0404**	YES
PCB170	FCA3	240	**0.0404**	YES
PCB170	Background	47.1	0.590	
PCB180+193 [d]	FCA1	1,040	**0.0404**	YES

Table C-2

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Crab for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
PCB180+193 [d]	FCA2	974	**0.0404**	YES
PCB180+193 [d]	FCA3	773	**0.0404**	YES
PCB180+193 [d]	Background	176	0.590	
PCB189	FCA1	14.5	**0.0404**	YES
PCB189	FCA2	13.7	**0.0404**	YES
PCB189	FCA3	12.9	**0.0404**	YES
PCB189	Background	3.49	0.590	
Semivolatile Organic Compounds (µg/kg)				
Bis(2-ethylhexyl)phthalate	FCA1	238	0.329	
Bis(2-ethylhexyl)phthalate	FCA2	361	0.188	
Bis(2-ethylhexyl)phthalate	FCA3	224	0.329	
Bis(2-ethylhexyl)phthalate	Background	105	0.604	

Notes

a - Includes only those COPCs that are considered to be bioaccumulative and that will be addressed in the human health and wildlife risk assessments (see Table 1-2).

b - Represents the sum of 17 congeners, with nondetects set at one-half the detection limit.

c - Represents the sum of 209 congeners, with nondetects set at one-half the detection limit.

d - Co-eluting PCB congeners.

Table C-3

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Clam Soft Tissue for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
TEQ (ng/kg)				
TEQ_{DF}	FCA1	1.90	**0.00135**	YES
TEQ_{DF}	FCA2	3.61	**0.0000179**	YES
TEQ_{DF}	FCA3	1.05	**0.0216**	YES
TEQ_{DF}	Background	0.341	0.515	
TEQ_{DFP}	FCA1	2.06	**0.00135**	YES
TEQ_{DFP}	FCA2	3.86	**0.0000179**	YES
TEQ_{DFP}	FCA3	1.49	**0.00846**	YES
TEQ_{DFP}	Background	0.479	0.515	
TEQ_{P}	FCA1	0.225	0.0992	
TEQ_{P}	FCA2	0.376	**0.0000724**	YES
TEQ_{P}	FCA3	0.367	**0.00200**	YES
TEQ_{P}	Background	0.175	0.515	
Dioxins and Furans (ng/kg)				
Total dioxins and furans [b]	FCA1	12.9	**0.0117**	YES
Total dioxins and furans [b]	FCA2	19.1	**0.000140**	YES
Total dioxins and furans [b]	FCA3	8.94	0.380	
Total dioxins and furans [b]	Background	7.27	0.515	
2,3,7,8-TCDD	FCA1	1.37	**0.00200**	YES
2,3,7,8-TCDD	FCA2	1.98	**0.0000179**	YES
2,3,7,8-TCDD	FCA3	0.647	**0.0288**	YES
2,3,7,8-TCDD	Background	0.0970	0.515	
1,2,3,7,8-PeCDD	FCA1	0.0295	0.996	
1,2,3,7,8-PeCDD	FCA2	0.0261	0.999	
1,2,3,7,8-PeCDD	FCA3	0.0540	0.0706	
1,2,3,7,8-PeCDD	Background	0.0424	0.515	
1,2,3,4,7,8-HxCDD	FCA1	0.0234	0.997	

Table C-3

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Clam Soft Tissue for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
1,2,3,4,7,8-HxCDD	FCA2	0.0377	0.423	
1,2,3,4,7,8-HxCDD	FCA3	0.0565	**0.0216**	YES
1,2,3,4,7,8-HxCDD	Background	0.0350	0.515	
1,2,3,6,7,8-HxCDD	FCA1	0.0292	0.998	
1,2,3,6,7,8-HxCDD	FCA2	0.0465	0.661	
1,2,3,6,7,8-HxCDD	FCA3	0.0730	**0.0288**	YES
1,2,3,6,7,8-HxCDD	Background	0.0461	0.515	
1,2,3,7,8,9-HxCDD	FCA1	0.0255	0.997	
1,2,3,7,8,9-HxCDD	FCA2	0.0410	0.423	
1,2,3,7,8,9-HxCDD	FCA3	0.0600	**0.0288**	YES
1,2,3,7,8,9-HxCDD	Background	0.0382	0.515	
1,2,3,4,6,7,8-HpCDD	FCA1	0.882	0.0992	
1,2,3,4,6,7,8-HpCDD	FCA2	0.271	0.872	
1,2,3,4,6,7,8-HpCDD	FCA3	0.263	0.750	
1,2,3,4,6,7,8-HpCDD	Background	0.408	0.515	
OCDD	FCA1	7.14	**0.0491**	YES
OCDD	FCA2	3.67	0.976	
OCDD	FCA3	4.24	0.921	
OCDD	Background	4.85	0.515	
2,3,7,8-TCDF	FCA1	4.61	**0.00134**	YES
2,3,7,8-TCDF	FCA2	10.8	**0.0000178**	YES
2,3,7,8-TCDF	FCA3	2.80	**0.0216**	YES
2,3,7,8-TCDF	Background	1.28	0.515	
1,2,3,7,8-PeCDF	FCA1	0.0314	0.990	
1,2,3,7,8-PeCDF	FCA2	0.0468	0.219	
1,2,3,7,8-PeCDF	FCA3	0.0470	**0.0160**	YES
1,2,3,7,8-PeCDF	Background	0.0365	0.515	
2,3,4,7,8-PeCDF	FCA1	0.0315	0.878	

Table C-3

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Clam Soft Tissue for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
2,3,4,7,8-PeCDF	FCA2	0.0456	0.319	
2,3,4,7,8-PeCDF	FCA3	0.0440	**0.0330**	YES
2,3,4,7,8-PeCDF	Background	0.0371	0.515	
1,2,3,4,7,8-HxCDF	FCA1	0.0313	0.573	
1,2,3,4,7,8-HxCDF	FCA2	0.0334	0.423	
1,2,3,4,7,8-HxCDF	FCA3	0.0505	**0.00134**	YES
1,2,3,4,7,8-HxCDF	Background	0.0305	0.515	
1,2,3,6,7,8-HxCDF	FCA1	0.0302	0.476	
1,2,3,6,7,8-HxCDF	FCA2	0.0242	0.883	
1,2,3,6,7,8-HxCDF	FCA3	0.0494	**0.00135**	YES
1,2,3,6,7,8-HxCDF	Background	0.0290	0.515	
1,2,3,7,8,9-HxCDF	FCA1	0.0483	0.122	
1,2,3,7,8,9-HxCDF	FCA2	0.0369	0.756	
1,2,3,7,8,9-HxCDF	FCA3	0.0690	**0.00135**	YES
1,2,3,7,8,9-HxCDF	Background	0.0419	0.515	
2,3,4,6,7,8-HxCDF	FCA1	0.0342	0.573	
2,3,4,6,7,8-HxCDF	FCA2	0.0275	0.988	
2,3,4,6,7,8-HxCDF	FCA3	0.0555	**0.00134**	YES
2,3,4,6,7,8-HxCDF	Background	0.0334	0.515	
1,2,3,4,6,7,8-HpCDF	FCA1	0.0317	0.709	
1,2,3,4,6,7,8-HpCDF	FCA2	0.0321	0.641	
1,2,3,4,6,7,8-HpCDF	FCA3	0.0451	**0.00423**	YES
1,2,3,4,6,7,8-HpCDF	Background	0.0359	0.515	
1,2,3,4,7,8,9-HpCDF	FCA1	0.0452	0.769	
1,2,3,4,7,8,9-HpCDF	FCA2	0.0450	0.701	
1,2,3,4,7,8,9-HpCDF	FCA3	0.0605	**0.0379**	YES
1,2,3,4,7,8,9-HpCDF	Background	0.0518	0.515	
OCDF	FCA1	0.0525	0.750	

Table C-3

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Clam Soft Tissue for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
OCDF	FCA2	0.0474	0.981	
OCDF	FCA3	0.114	**0.00135**	YES
OCDF	Background	0.0715	0.515	
Metals (µg/kg)				
Arsenic	FCA1	0.451	0.865	
Arsenic	FCA2	0.547	0.0636	
Arsenic	FCA3	0.506	0.270	
Arsenic	Background	0.511	0.515	
Cadmium	FCA1	0.0260	**0.00134**	YES
Cadmium	FCA2	0.0263	**0.0000179**	YES
Cadmium	FCA3	0.0243	**0.00134**	YES
Cadmium	Background	0.0127	0.515	
Chromium	FCA1	0.170	0.179	
Chromium	FCA2	0.145	0.0699	
Chromium	FCA3	0.160	0.0980	
Chromium	Background	0.125	0.515	
Copper	FCA1	1.74	0.0795	
Copper	FCA2	2.21	**0.0000577**	YES
Copper	FCA3	2.98	**0.00134**	YES
Copper	Background	1.44	0.515	
Mercury	FCA1	0.00920	**0.00423**	YES
Mercury	FCA2	0.0104	**0.0163**	YES
Mercury	FCA3	0.0120	**0.00135**	YES
Mercury	Background	0.00615	0.515	
Nickel	FCA1	1.74	**0.00132**	YES
Nickel	FCA2	1.24	0.467	
Nickel	FCA3	1.25	0.620	
Nickel	Background	1.22	0.515	

Table C-3

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Clam Soft Tissue for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
Zinc	FCA1	10.3	0.0793	
Zinc	FCA2	10.7	**0.0114**	YES
Zinc	FCA3	8.76	0.971	
Zinc	Background	9.55	0.515	
Polychlorinated Biphenyls (µg/kg)				
Total PCBs [c]	FCA1	24.0	**0.00135**	YES
Total PCBs [c]	FCA2	30.9	**0.0000179**	YES
Total PCBs [c]	FCA3	34.2	**0.00134**	YES
Total PCBs [c]	Background	13.0	0.515	
PCB077	FCA1	32.2	**0.00293**	YES
PCB077	FCA2	41.1	**0.0000289**	YES
PCB077	FCA3	95.2	**0.00135**	YES
PCB077	Background	16.8	0.515	
PCB081	FCA1	1.09	0.709	
PCB081	FCA2	1.33	0.0508	
PCB081	FCA3	2.26	**0.00599**	YES
PCB081	Background	1.04	0.515	
PCB105	FCA1	266	**0.0160**	YES
PCB105	FCA2	436	**0.0000289**	YES
PCB105	FCA3	611	**0.00135**	YES
PCB105	Background	84.5	0.515	
PCB114	FCA1	17.7	**0.0216**	YES
PCB114	FCA2	24.9	**0.000214**	YES
PCB114	FCA3	32.4	**0.00602**	YES
PCB114	Background	11.9	0.515	
PCB118	FCA1	882	**0.00198**	YES
PCB118	FCA2	1,170	**0.0000227**	YES

Table C-3

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Clam Soft Tissue for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
PCB118	FCA3	1,560	**0.00134**	YES
PCB118	Background	498	0.515	
PCB123	FCA1	18.3	**0.00135**	YES
PCB123	FCA2	24.8	**0.000323**	YES
PCB123	FCA3	33.5	**0.00200**	YES
PCB123	Background	10.1	0.515	
PCB126	FCA1	1.50	0.250	
PCB126	FCA2	2.08	**0.000713**	YES
PCB126	FCA3	2.52	**0.00293**	YES
PCB126	Background	1.18	0.515	
PCB156+157 [d]	FCA1	112	**0.00993**	YES
PCB156+157 [d]	FCA2	167	**0.0000228**	YES
PCB156+157 [d]	FCA3	217	**0.00135**	YES
PCB156+157 [d]	Background	37.5	0.515	
PCB167	FCA1	52.8	**0.00200**	YES
PCB167	FCA2	70.5	**0.0000289**	YES
PCB167	FCA3	86.9	**0.00134**	YES
PCB167	Background	33.6	0.515	
PCB169	FCA1	0.990	0.149	
PCB169	FCA2	0.920	0.140	
PCB169	FCA3	1.02	0.0627	
PCB169	Background	0.810	0.515	
PCB170	FCA1	235	**0.00291**	YES
PCB170	FCA2	286	**0.000112**	YES
PCB170	FCA3	314	**0.00135**	YES
PCB170	Background	140	0.515	
PCB180+193 [d]	FCA1	509	**0.00135**	YES

Table C-3

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Clam Soft Tissue for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
PCB180+193 [d]	FCA2	574	**0.0000905**	YES
PCB180+193 [d]	FCA3	592	**0.00135**	YES
PCB180+193 [d]	Background	320	0.515	
PCB189	FCA1	8.54	**0.0216**	YES
PCB189	FCA2	10.1	**0.000113**	YES
PCB189	FCA3	10.2	**0.00602**	YES
PCB189	Background	2.45	0.515	
Semivolatile Organic Compounds (µg/kg)				
Bis(2-ethylhexyl)phthalate	FCA1	105	1.00	
Bis(2-ethylhexyl)phthalate	FCA2	105	1.00	
Bis(2-ethylhexyl)phthalate	FCA3	105	1.00	
Bis(2-ethylhexyl)phthalate	Background	105	1.00	

Notes

a - Includes only those COPCs that are considered to be bioaccumulative and that will be addressed in the human health and wildlife risk assessments (see Table 1-2).

b - Represents the sum of 17 congeners, with nondetects set at one-half the detection limit.

c - Represents the sum of 209 congeners, with nondetects set at one-half the detection limit.

d - Co-eluting PCB congeners.

Table C-4

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Killifish for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
TEQ (ng/kg)				
TEQ_{DF}	FCA1	0.102	0.552	
TEQ_{DF}	FCA2	0.647	0.136	
TEQ_{DF}	FCA3	0.404	**0.0251**	YES
TEQ_{DF}	Background	0.105	0.521	
TEQ_{DFP}	FCA1	0.627	0.180	
TEQ_{DFP}	FCA2	1.40	**0.0166**	YES
TEQ_{DFP}	FCA3	0.914	0.0755	
TEQ_{DFP}	Background	0.323	0.521	
TEQ_{P}	FCA1	0.525	0.0755	
TEQ_{P}	FCA2	0.755	**0.00846**	YES
TEQ_{P}	FCA3	0.510	0.0755	
TEQ_{P}	Background	0.201	0.521	
Dioxins and Furans (ng/kg)				
Total dioxins and furans [b]	FCA1	0.482	0.987	
Total dioxins and furans [b]	FCA2	2.35	0.577	
Total dioxins and furans [b]	FCA3	6.27	**0.0251**	YES
Total dioxins and furans [b]	Background	2.25	0.521	
2,3,7,8-TCDD	FCA1	0.0761	0.448	
2,3,7,8-TCDD	FCA2	0.504	0.110	
2,3,7,8-TCDD	FCA3	0.217	**0.0251**	YES
2,3,7,8-TCDD	Background	0.0544	0.521	
1,2,3,7,8-PeCDD	FCA1	0.0101	0.880	
1,2,3,7,8-PeCDD	FCA2	0.0138	0.864	
1,2,3,7,8-PeCDD	FCA3	0.0703	**0.0448**	YES
1,2,3,7,8-PeCDD	Background	0.0169	0.521	
1,2,3,4,7,8-HxCDD	FCA1	0.0119	0.925	

Table C-4

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Killifish for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
1,2,3,4,7,8-HxCDD	FCA2	0.0121	0.931	
1,2,3,4,7,8-HxCDD	FCA3	0.0324	0.0749	
1,2,3,4,7,8-HxCDD	Background	0.0182	0.521	
1,2,3,6,7,8-HxCDD	FCA1	0.0133	0.955	
1,2,3,6,7,8-HxCDD	FCA2	0.0137	0.965	
1,2,3,6,7,8-HxCDD	FCA3	0.0431	0.0755	
1,2,3,6,7,8-HxCDD	Background	0.0209	0.521	
1,2,3,7,8,9-HxCDD	FCA1	0.0123	0.956	
1,2,3,7,8,9-HxCDD	FCA2	0.0125	0.959	
1,2,3,7,8,9-HxCDD	FCA3	0.0351	0.0749	
1,2,3,7,8,9-HxCDD	Background	0.0191	0.521	
1,2,3,4,6,7,8-HpCDD	FCA1	0.0218	0.975	
1,2,3,4,6,7,8-HpCDD	FCA2	0.0916	0.947	
1,2,3,4,6,7,8-HpCDD	FCA3	0.546	**0.0251**	YES
1,2,3,4,6,7,8-HpCDD	Background	0.220	0.521	
OCDD	FCA1	0.195	0.987	
OCDD	FCA2	0.431	0.988	
OCDD	FCA3	4.23	0.180	
OCDD	Background	1.50	0.521	
2,3,7,8-TCDF	FCA1	0.0369	0.820	
2,3,7,8-TCDF	FCA2	1.19	0.0688	
2,3,7,8-TCDF	FCA3	0.678	**0.0251**	YES
2,3,7,8-TCDF	Background	0.0873	0.521	
1,2,3,7,8-PeCDF	FCA1	0.0154	0.820	
1,2,3,7,8-PeCDF	FCA2	0.0115	0.947	
1,2,3,7,8-PeCDF	FCA3	0.0454	**0.0448**	YES
1,2,3,7,8-PeCDF	Background	0.0184	0.521	
2,3,4,7,8-PeCDF	FCA1	0.0152	0.743	

Table C-4

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Killifish for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
2,3,4,7,8-PeCDF	FCA2	0.0131	0.674	
2,3,4,7,8-PeCDF	FCA3	0.0461	**0.0448**	YES
2,3,4,7,8-PeCDF	Background	0.0180	0.521	
1,2,3,4,7,8-HxCDF	FCA1	0.00793	0.987	
1,2,3,4,7,8-HxCDF	FCA2	0.0101	0.720	
1,2,3,4,7,8-HxCDF	FCA3	0.0360	**0.0443**	YES
1,2,3,4,7,8-HxCDF	Background	0.0115	0.521	
1,2,3,6,7,8-HxCDF	FCA1	0.00740	0.987	
1,2,3,6,7,8-HxCDF	FCA2	0.00950	0.834	
1,2,3,6,7,8-HxCDF	FCA3	0.0346	**0.0448**	YES
1,2,3,6,7,8-HxCDF	Background	0.0109	0.521	
1,2,3,7,8,9-HxCDF	FCA1	0.00850	0.987	
1,2,3,7,8,9-HxCDF	FCA2	0.00955	0.969	
1,2,3,7,8,9-HxCDF	FCA3	0.0492	**0.0448**	YES
1,2,3,7,8,9-HxCDF	Background	0.0124	0.521	
2,3,4,6,7,8-HxCDF	FCA1	0.00783	0.982	
2,3,4,6,7,8-HxCDF	FCA2	0.00858	0.970	
2,3,4,6,7,8-HxCDF	FCA3	0.0394	**0.0443**	YES
2,3,4,6,7,8-HxCDF	Background	0.0114	0.521	
1,2,3,4,6,7,8-HpCDF	FCA1	0.0126	0.975	
1,2,3,4,6,7,8-HpCDF	FCA2	0.0139	0.977	
1,2,3,4,6,7,8-HpCDF	FCA3	0.0423	0.120	
1,2,3,4,6,7,8-HpCDF	Background	0.0207	0.521	
1,2,3,4,7,8,9-HpCDF	FCA1	0.0153	0.955	
1,2,3,4,7,8,9-HpCDF	FCA2	0.0165	0.947	
1,2,3,4,7,8,9-HpCDF	FCA3	0.0540	**0.0448**	YES
1,2,3,4,7,8,9-HpCDF	Background	0.0250	0.521	
OCDF	FCA1	0.0140	0.955	

Table C-4

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Killifish for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
OCDF	FCA2	0.0163	0.977	
OCDF	FCA3	0.0768	0.180	
OCDF	Background	0.0314	0.521	
Metals (µg/kg)				
Arsenic	FCA1	0.228	**0.0247**	YES
Arsenic	FCA2	0.202	0.280	
Arsenic	FCA3	0.170	0.987	
Arsenic	Background	0.197	0.521	
Cadmium	FCA1	0.00225	0.0755	
Cadmium	FCA2	0.00230	0.0680	
Cadmium	FCA3	0.00158	0.603	
Cadmium	Background	0.00153	0.521	
Chromium	FCA1	0.275	0.604	
Chromium	FCA2	0.305	0.280	
Chromium	FCA3	0.530	0.448	
Chromium	Background	0.290	0.521	
Copper	FCA1	1.30	0.552	
Copper	FCA2	1.40	0.239	
Copper	FCA3	1.48	**0.0443**	YES
Copper	Background	1.32	0.521	
Mercury	FCA1	0.0280	0.743	
Mercury	FCA2	0.0384	0.201	
Mercury	FCA3	0.0665	0.0755	
Mercury	Background	0.0314	0.521	
Nickel	FCA1	0.378	0.987	
Nickel	FCA2	0.440	0.940	
Nickel	FCA3	0.654	0.257	
Nickel	Background	0.506	0.521	

Table C-4

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Killifish for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
Zinc	FCA1	40.3	0.784	
Zinc	FCA2	41.4	0.474	
Zinc	FCA3	45.8	**0.0251**	YES
Zinc	Background	41.5	0.521	
Polychlorinated Biphenyls (µg/kg)				
Total PCBs [c]	FCA1	36.8	**0.0251**	YES
Total PCBs [c]	FCA2	38.3	**0.00121**	YES
Total PCBs [c]	FCA3	40.4	**0.0251**	YES
Total PCBs [c]	Background	13.0	0.521	
PCB077	FCA1	25.1	**0.0251**	YES
PCB077	FCA2	22.5	**0.00121**	YES
PCB077	FCA3	48.3	**0.0251**	YES
PCB077	Background	4.58	0.521	
PCB081	FCA1	0.815	0.347	
PCB081	FCA2	0.950	0.136	
PCB081	FCA3	1.50	**0.0247**	YES
PCB081	Background	0.715	0.521	
PCB105	FCA1	574	**0.0251**	YES
PCB105	FCA2	632	**0.00184**	YES
PCB105	FCA3	987	**0.0251**	YES
PCB105	Background	219	0.521	
PCB114	FCA1	40.3	**0.0251**	YES
PCB114	FCA2	38.4	**0.00275**	YES
PCB114	FCA3	59.9	**0.0251**	YES
PCB114	Background	14.0	0.521	
PCB118	FCA1	2,030	**0.0251**	YES
PCB118	FCA2	1,840	**0.00121**	YES

Table C-4

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Killifish for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
PCB118	FCA3	2,810	**0.0251**	YES
PCB118	Background	680	0.521	
PCB123	FCA1	31.1	**0.0251**	YES
PCB123	FCA2	25.9	**0.0166**	YES
PCB123	FCA3	45.3	**0.0251**	YES
PCB123	Background	7.51	0.521	
PCB126	FCA1	4.01	0.120	
PCB126	FCA2	6.42	**0.00846**	YES
PCB126	FCA3	3.25	0.257	
PCB126	Background	1.37	0.521	
PCB156+157 [d]	FCA1	274	**0.0251**	YES
PCB156+157 [d]	FCA2	298	**0.00184**	YES
PCB156+157 [d]	FCA3	460	**0.0251**	YES
PCB156+157 [d]	Background	97.3	0.521	
PCB167	FCA1	146	**0.0247**	YES
PCB167	FCA2	144	**0.00182**	YES
PCB167	FCA3	209	**0.0247**	YES
PCB167	Background	45.5	0.521	
PCB169	FCA1	0.913	0.347	
PCB169	FCA2	0.665	0.423	
PCB169	FCA3	1.40	**0.0247**	YES
PCB169	Background	0.638	0.521	
PCB170	FCA1	641	**0.0251**	YES
PCB170	FCA2	583	**0.00121**	YES
PCB170	FCA3	690	**0.0251**	YES
PCB170	Background	190	0.521	
PCB180+193 [d]	FCA1	1,840	**0.0251**	YES

Table C-4

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Killifish for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
PCB180+193 [d]	FCA2	1,640	**0.00121**	YES
PCB180+193 [d]	FCA3	1,710	**0.0251**	YES
PCB180+193 [d]	Background	509	0.521	
PCB189	FCA1	18.1	**0.0251**	YES
PCB189	FCA2	16.7	**0.00275**	YES
PCB189	FCA3	15.8	**0.0251**	YES
PCB189	Background	4.34	0.521	
Semivolatile Organic Compounds (µg/kg)				
Bis(2-ethylhexyl)phthalate	FCA1	105	1.00	
Bis(2-ethylhexyl)phthalate	FCA2	105	1.00	
Bis(2-ethylhexyl)phthalate	FCA3	105	1.00	
Bis(2-ethylhexyl)phthalate	Background	105	1.00	

Notes

a - Includes only those COPCs that are considered to be bioaccumulative and that will be addressed in the human health and wildlife risk assessments (see Table 1-2).

b - Represents the sum of 17 congeners, with nondetects set at one-half the detection limit.

c - Represents the sum of 209 congeners, with nondetects set at one-half the detection limit.

d - Co-eluting PCB congeners.

Table C-5

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Catfish Fillet for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
TEQ (ng/kg)				
TEQ_{DF}	FCA1	2.81	**0.0000913**	YES
TEQ_{DF}	FCA2	3.66	**0.0000913**	YES
TEQ_{DF}	FCA3	3.02	**0.0000913**	YES
TEQ_{DF}	Background	0.209	0.515	
TEQ_{DFP}	FCA1	4.06	**0.0000913**	YES
TEQ_{DFP}	FCA2	5.33	**0.0000913**	YES
TEQ_{DFP}	FCA3	4.25	**0.0000913**	YES
TEQ_{DFP}	Background	0.649	0.515	
TEQ_{P}	FCA1	1.15	**0.000504**	YES
TEQ_{P}	FCA2	1.29	**0.000504**	YES
TEQ_{P}	FCA3	1.29	**0.00701**	YES
TEQ_{P}	Background	0.471	0.515	
Dioxins and Furans (ng/kg)				
Total dioxins and furans [b]	FCA1	4.12	**0.000291**	YES
Total dioxins and furans [b]	FCA2	5.42	**0.0000913**	YES
Total dioxins and furans [b]	FCA3	4.88	**0.0000913**	YES
Total dioxins and furans [b]	Background	1.24	0.515	
2,3,7,8-TCDD	FCA1	2.71	**0.0000913**	YES
2,3,7,8-TCDD	FCA2	3.47	**0.0000913**	YES
2,3,7,8-TCDD	FCA3	2.85	**0.0000908**	YES
2,3,7,8-TCDD	Background	0.136	0.515	
1,2,3,7,8-PeCDD	FCA1	0.0289	0.367	
1,2,3,7,8-PeCDD	FCA2	0.0660	**0.0129**	YES
1,2,3,7,8-PeCDD	FCA3	0.0528	0.0188	YES
1,2,3,7,8-PeCDD	Background	0.0283	0.515	
1,2,3,4,7,8-HxCDD	FCA1	0.0178	0.984	

Table C-5

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Catfish Fillet for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
1,2,3,4,7,8-HxCDD	FCA2	0.0251	0.604	
1,2,3,4,7,8-HxCDD	FCA3	0.0299	0.312	
1,2,3,4,7,8-HxCDD	Background	0.0243	0.515	
1,2,3,6,7,8-HxCDD	FCA1	0.153	0.192	
1,2,3,6,7,8-HxCDD	FCA2	0.193	**0.00701**	YES
1,2,3,6,7,8-HxCDD	FCA3	0.183	**0.0270**	YES
1,2,3,6,7,8-HxCDD	Background	0.0903	0.515	
1,2,3,7,8,9-HxCDD	FCA1	0.0413	0.182	
1,2,3,7,8,9-HxCDD	FCA2	0.0278	0.154	
1,2,3,7,8,9-HxCDD	FCA3	0.0438	0.214	
1,2,3,7,8,9-HxCDD	Background	0.0223	0.515	
1,2,3,4,6,7,8-HpCDD	FCA1	0.167	0.808	
1,2,3,4,6,7,8-HpCDD	FCA2	0.208	0.236	
1,2,3,4,6,7,8-HpCDD	FCA3	0.247	0.0606	
1,2,3,4,6,7,8-HpCDD	Background	0.199	0.515	
OCDD	FCA1	0.455	0.786	
OCDD	FCA2	0.543	0.470	
OCDD	FCA3	0.670	0.0929	
OCDD	Background	0.505	0.515	
2,3,7,8-TCDF	FCA1	0.283	**0.00324**	YES
2,3,7,8-TCDF	FCA2	0.687	**0.0000913**	YES
2,3,7,8-TCDF	FCA3	0.582	**0.000220**	YES
2,3,7,8-TCDF	Background	0.0356	0.515	
1,2,3,7,8-PeCDF	FCA1	0.0234	0.702	
1,2,3,7,8-PeCDF	FCA2	0.0210	0.764	
1,2,3,7,8-PeCDF	FCA3	0.0276	0.121	
1,2,3,7,8-PeCDF	Background	0.0241	0.515	
2,3,4,7,8-PeCDF	FCA1	0.0658	**0.0129**	YES

Table C-5

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Catfish Fillet for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
2,3,4,7,8-PeCDF	FCA2	0.146	**0.000291**	YES
2,3,4,7,8-PeCDF	FCA3	0.130	**0.000123**	YES
2,3,4,7,8-PeCDF	Background	0.0224	0.515	
1,2,3,4,7,8-HxCDF	FCA1	0.0146	0.633	
1,2,3,4,7,8-HxCDF	FCA2	0.0193	**0.0105**	YES
1,2,3,4,7,8-HxCDF	FCA3	0.0182	**0.0293**	YES
1,2,3,4,7,8-HxCDF	Background	0.0149	0.515	
1,2,3,6,7,8-HxCDF	FCA1	0.0138	0.647	
1,2,3,6,7,8-HxCDF	FCA2	0.0171	0.0702	
1,2,3,6,7,8-HxCDF	FCA3	0.0171	0.0929	
1,2,3,6,7,8-HxCDF	Background	0.0145	0.515	
1,2,3,7,8,9-HxCDF	FCA1	0.0184	0.353	
1,2,3,7,8,9-HxCDF	FCA2	0.0215	0.0605	
1,2,3,7,8,9-HxCDF	FCA3	0.0189	0.236	
1,2,3,7,8,9-HxCDF	Background	0.0177	0.515	
2,3,4,6,7,8-HxCDF	FCA1	0.0153	0.500	
2,3,4,6,7,8-HxCDF	FCA2	0.0199	**0.0129**	YES
2,3,4,6,7,8-HxCDF	FCA3	0.0182	0.0867	
2,3,4,6,7,8-HxCDF	Background	0.0149	0.515	
1,2,3,4,6,7,8-HpCDF	FCA1	0.0170	0.515	
1,2,3,4,6,7,8-HpCDF	FCA2	0.0186	0.485	
1,2,3,4,6,7,8-HpCDF	FCA3	0.0199	0.339	
1,2,3,4,6,7,8-HpCDF	Background	0.0192	0.515	
1,2,3,4,7,8,9-HpCDF	FCA1	0.0255	0.236	
1,2,3,4,7,8,9-HpCDF	FCA2	0.0264	0.367	
1,2,3,4,7,8,9-HpCDF	FCA3	0.0242	0.367	
1,2,3,4,7,8,9-HpCDF	Background	0.0254	0.515	
OCDF	FCA1	0.0415	0.312	

Table C-5

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Catfish Fillet for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
OCDF	FCA2	0.0343	0.846	
OCDF	FCA3	0.0316	0.828	
OCDF	Background	0.0422	0.515	
Metals (µg/kg)				
Arsenic	FCA1	0.449	**0.000853**	YES
Arsenic	FCA2	0.444	**0.00701**	YES
Arsenic	FCA3	0.325	0.106	
Arsenic	Background	0.273	0.515	
Cadmium	FCA1	0.000550	0.711	
Cadmium	FCA2	0.000550	0.749	
Cadmium	FCA3	0.000575	0.316	
Cadmium	Background	0.000550	0.516	
Chromium	FCA1	0.0150	0.174	
Chromium	FCA2	0.0100	0.312	
Chromium	FCA3	0.0100	0.239	
Chromium	Background	0.0100	0.519	
Copper	FCA1	0.321	0.0929	
Copper	FCA2	0.262	0.236	
Copper	FCA3	0.254	0.192	
Copper	Background	0.183	0.515	
Mercury	FCA1	0.137	0.0702	
Mercury	FCA2	0.0942	0.894	
Mercury	FCA3	0.0750	0.994	
Mercury	Background	0.117	0.515	
Nickel	FCA1	0.0240	**0.0171**	YES
Nickel	FCA2	0.0150	0.136	
Nickel	FCA3	0.0205	0.0601	
Nickel	Background	0.0115	0.515	

Table C-5

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Catfish Fillet for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
Zinc	FCA1	17.9	**0.00360**	YES
Zinc	FCA2	16.8	**0.0291**	YES
Zinc	FCA3	13.5	0.311	
Zinc	Background	13.2	0.515	
Polychlorinated Biphenyls (µg/kg)				
Total PCBs [c]	FCA1	91.8	**0.00455**	YES
Total PCBs [c]	FCA2	97.1	**0.000655**	YES
Total PCBs [c]	FCA3	118	**0.00364**	YES
Total PCBs [c]	Background	37.4	0.515	
PCB077	FCA1	7.71	0.633	
PCB077	FCA2	10.8	0.0810	
PCB077	FCA3	13.6	0.192	
PCB077	Background	7.11	0.515	
PCB081	FCA1	1.23	0.425	
PCB081	FCA2	1.37	0.106	
PCB081	FCA3	2.33	**0.00863**	YES
PCB081	Background	1.23	0.515	
PCB105	FCA1	2,020	**0.000850**	YES
PCB105	FCA2	2,350	**0.000164**	YES
PCB105	FCA3	2,760	**0.000655**	YES
PCB105	Background	533	0.515	
PCB114	FCA1	119	**0.00110**	YES
PCB114	FCA2	141	**0.000290**	YES
PCB114	FCA3	164	**0.000655**	YES
PCB114	Background	32.9	0.515	
PCB118	FCA1	6,490	**0.00181**	YES
PCB118	FCA2	6,990	**0.000384**	YES

Table C-5

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Catfish Fillet for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
PCB118	FCA3	8,210	**0.00141**	YES
PCB118	Background	2,270	0.515	
PCB123	FCA1	117	**0.00110**	YES
PCB123	FCA2	136	**0.000122**	YES
PCB123	FCA3	160	**0.000853**	YES
PCB123	Background	33.7	0.515	
PCB126	FCA1	7.58	**0.000746**	YES
PCB126	FCA2	9.24	**0.0188**	YES
PCB126	FCA3	7.55	**0.00701**	YES
PCB126	Background	3.03	0.515	
PCB156+157 [d]	FCA1	817	**0.00701**	YES
PCB156+157 [d]	FCA2	928	**0.000657**	YES
PCB156+157 [d]	FCA3	1,100	**0.00110**	YES
PCB156+157 [d]	Background	308	0.515	
PCB167	FCA1	282	**0.00565**	YES
PCB167	FCA2	319	**0.000502**	YES
PCB167	FCA3	380	**0.00861**	YES
PCB167	Background	129	0.515	
PCB169	FCA1	1.84	**0.0481**	YES
PCB169	FCA2	1.42	0.192	
PCB169	FCA3	2.02	0.121	
PCB169	Background	1.18	0.515	
PCB170	FCA1	1,810	**0.0156**	YES
PCB170	FCA2	1,740	**0.00454**	YES
PCB170	FCA3	2,260	**0.0106**	YES
PCB170	Background	763	0.515	
PCB180+193 [d]	FCA1	4,540	**0.0156**	YES

Table C-5

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Catfish Fillet for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
PCB180+193 [d]	FCA2	3,930	**0.00863**	YES
PCB180+193 [d]	FCA3	5,110	**0.0348**	YES
PCB180+193 [d]	Background	1,990	0.515	
PCB189	FCA1	59.5	**0.0270**	YES
PCB189	FCA2	54.5	**0.0270**	YES
PCB189	FCA3	79.5	**0.0409**	YES
PCB189	Background	32.3	0.515	
Semivolatile Organic Compounds (µg/kg)				
Bis(2-ethylhexyl)phthalate	FCA1	105	1.00	
Bis(2-ethylhexyl)phthalate	FCA2	105	1.00	
Bis(2-ethylhexyl)phthalate	FCA3	105	1.00	
Bis(2-ethylhexyl)phthalate	Background	105	1.00	

Notes

a - Includes only those COPCs that are considered to be bioaccumulative and that will be addressed in the human health and wildlife risk assessments (see Table 1-2).

b - Represents the sum of 17 congeners, with nondetects set at one-half the detection limit.

c - Represents the sum of 209 congeners, with nondetects set at one-half the detection limit.

d - Co-eluting PCB congeners.

Table C-6

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Catfish (calculated) for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
TEQ (ng/kg)				
TEQ_{DF}	FCA1	25.7	**0.00945**	YES
TEQ_{DF}	FCA2	19.8	**0.00424**	YES
TEQ_{DF}	FCA3	29.2	**0.00945**	YES
TEQ_{DF}	Background	2.32	0.521	
TEQ_{DFP}	FCA1	34.9	**0.00945**	YES
TEQ_{DFP}	FCA2	29.2	**0.00424**	YES
TEQ_{DFP}	FCA3	35.1	**0.00945**	YES
TEQ_{DFP}	Background	5.07	0.521	
TEQ_{P}	FCA1	9.19	**0.00945**	YES
TEQ_{P}	FCA2	6.59	**0.0109**	YES
TEQ_{P}	FCA3	6.70	**0.00945**	YES
TEQ_{P}	Background	2.68	0.521	
Dioxins and Furans (ng/kg)				
Total dioxins and furans [b]	FCA1	47.5	**0.00945**	YES
Total dioxins and furans [b]	FCA2	33.4	**0.00689**	YES
Total dioxins and furans [b]	FCA3	69.7	**0.00945**	YES
Total dioxins and furans [b]	Background	11.7	0.521	
2,3,7,8-TCDD	FCA1	23.7	**0.00945**	YES
2,3,7,8-TCDD	FCA2	18.4	**0.00424**	YES
2,3,7,8-TCDD	FCA3	25.2	**0.00945**	YES
2,3,7,8-TCDD	Background	1.64	0.521	
1,2,3,7,8-PeCDD	FCA1	0.573	0.179	
1,2,3,7,8-PeCDD	FCA2	0.582	0.135	
1,2,3,7,8-PeCDD	FCA3	1.58	0.0629	
1,2,3,7,8-PeCDD	Background	0.470	0.521	
1,2,3,4,7,8-HxCDD	FCA1	0.405	**0.0160**	YES

Table C-6

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Catfish (calculated) for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
1,2,3,4,7,8-HxCDD	FCA2	0.220	0.336	
1,2,3,4,7,8-HxCDD	FCA3	1.19	0.0923	
1,2,3,4,7,8-HxCDD	Background	0.233	0.521	
1,2,3,6,7,8-HxCDD	FCA1	2.18	**0.00945**	YES
1,2,3,6,7,8-HxCDD	FCA2	0.944	0.601	
1,2,3,6,7,8-HxCDD	FCA3	6.29	**0.0262**	YES
1,2,3,6,7,8-HxCDD	Background	0.941	0.521	
1,2,3,7,8,9-HxCDD	FCA1	0.585	**0.00945**	YES
1,2,3,7,8,9-HxCDD	FCA2	0.374	0.175	
1,2,3,7,8,9-HxCDD	FCA3	2.25	0.0629	
1,2,3,7,8,9-HxCDD	Background	0.290	0.521	
1,2,3,4,6,7,8-HpCDD	FCA1	3.53	**0.0414**	YES
1,2,3,4,6,7,8-HpCDD	FCA2	2.23	0.336	
1,2,3,4,6,7,8-HpCDD	FCA3	10.2	0.0629	
1,2,3,4,6,7,8-HpCDD	Background	1.83	0.521	
OCDD	FCA1	8.15	0.179	
OCDD	FCA2	5.83	0.664	
OCDD	FCA3	14.5	**0.0262**	YES
OCDD	Background	5.68	0.521	
2,3,7,8-TCDF	FCA1	2.83	**0.00945**	YES
2,3,7,8-TCDF	FCA2	3.34	**0.00424**	YES
2,3,7,8-TCDF	FCA3	4.79	**0.00945**	YES
2,3,7,8-TCDF	Background	0.410	0.521	
1,2,3,7,8-PeCDF	FCA1	0.0717	0.0629	
1,2,3,7,8-PeCDF	FCA2	0.0926	0.0744	
1,2,3,7,8-PeCDF	FCA3	0.180	**0.00945**	YES
1,2,3,7,8-PeCDF	Background	0.0343	0.521	
2,3,4,7,8-PeCDF	FCA1	1.62	**0.00945**	YES

Table C-6

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Catfish (calculated) for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
2,3,4,7,8-PeCDF	FCA2	1.03	**0.00424**	YES
2,3,4,7,8-PeCDF	FCA3	2.64	**0.00945**	YES
2,3,4,7,8-PeCDF	Background	0.213	0.521	
1,2,3,4,7,8-HxCDF	FCA1	0.0667	**0.0414**	YES
1,2,3,4,7,8-HxCDF	FCA2	0.0361	0.0533	
1,2,3,4,7,8-HxCDF	FCA3	0.121	0.0629	
1,2,3,4,7,8-HxCDF	Background	0.0150	0.521	
1,2,3,6,7,8-HxCDF	FCA1	0.0190	0.821	
1,2,3,6,7,8-HxCDF	FCA2	0.0204	0.336	
1,2,3,6,7,8-HxCDF	FCA3	0.129	0.179	
1,2,3,6,7,8-HxCDF	Background	0.0190	0.521	
1,2,3,7,8,9-HxCDF	FCA1	0.0209	0.695	
1,2,3,7,8,9-HxCDF	FCA2	0.0224	0.534	
1,2,3,7,8,9-HxCDF	FCA3	0.0435	0.131	
1,2,3,7,8,9-HxCDF	Background	0.0194	0.521	
2,3,4,6,7,8-HxCDF	FCA1	0.0175	0.695	
2,3,4,6,7,8-HxCDF	FCA2	0.0214	0.222	
2,3,4,6,7,8-HxCDF	FCA3	0.0667	0.0629	
2,3,4,6,7,8-HxCDF	Background	0.0171	0.521	
1,2,3,4,6,7,8-HpCDF	FCA1	0.0213	0.131	
1,2,3,4,6,7,8-HpCDF	FCA2	0.0226	0.175	
1,2,3,4,6,7,8-HpCDF	FCA3	0.0303	0.179	
1,2,3,4,6,7,8-HpCDF	Background	0.0157	0.521	
1,2,3,4,7,8,9-HpCDF	FCA1	0.0279	0.237	
1,2,3,4,7,8,9-HpCDF	FCA2	0.0321	**0.0254**	YES
1,2,3,4,7,8,9-HpCDF	FCA3	0.0217	0.237	
1,2,3,4,7,8,9-HpCDF	Background	0.0211	0.521	
OCDF	FCA1	0.0417	0.459	

Table C-6

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Catfish (calculated) for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
OCDF	FCA2	0.0322	0.947	
OCDF	FCA3	0.0371	0.695	
OCDF	Background	0.0532	0.521	
Metals (µg/kg)				
Arsenic	FCA1	0.392	0.0923	
Arsenic	FCA2	0.408	0.0744	
Arsenic	FCA3	0.442	**0.0414**	YES
Arsenic	Background	0.341	0.521	
Cadmium	FCA1	0.00705	0.0923	
Cadmium	FCA2	0.00695	0.175	
Cadmium	FCA3	0.00603	0.305	
Cadmium	Background	0.00382	0.521	
Chromium	FCA1	0.353	0.0629	
Chromium	FCA2	0.379	**0.0373**	YES
Chromium	FCA3	0.886	**0.0262**	YES
Chromium	Background	0.0963	0.521	
Copper	FCA1	0.522	**0.0262**	YES
Copper	FCA2	0.434	0.0533	
Copper	FCA3	0.572	**0.0160**	YES
Copper	Background	0.317	0.521	
Mercury	FCA1	0.112	0.305	
Mercury	FCA2	0.0764	0.778	
Mercury	FCA3	0.0626	0.937	
Mercury	Background	0.0961	0.521	
Nickel	FCA1	0.233	0.237	
Nickel	FCA2	0.256	0.135	
Nickel	FCA3	0.547	**0.0414**	YES
Nickel	Background	0.150	0.521	

Table C-6

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Catfish (calculated) for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
Zinc	FCA1	235	**0.0414**	YES
Zinc	FCA2	166	0.778	
Zinc	FCA3	243	0.0923	
Zinc	Background	198	0.521	
Polychlorinated Biphenyls (µg/kg)				
Total PCBs [c]	FCA1	664	**0.00945**	YES
Total PCBs [c]	FCA2	605	**0.0169**	YES
Total PCBs [c]	FCA3	750	**0.00945**	YES
Total PCBs [c]	Background	229	0.521	
PCB077	FCA1	48.3	0.0923	
PCB077	FCA2	63.8	**0.00689**	YES
PCB077	FCA3	67.0	0.237	
PCB077	Background	36.6	0.521	
PCB081	FCA1	5.70	0.0923	
PCB081	FCA2	12.5	**0.0169**	YES
PCB081	FCA3	9.15	**0.0262**	YES
PCB081	Background	3.09	0.521	
PCB105	FCA1	13,200	**0.00945**	YES
PCB105	FCA2	13,400	**0.0169**	YES
PCB105	FCA3	18,000	**0.00945**	YES
PCB105	Background	3,250	0.521	
PCB114	FCA1	891	**0.00945**	YES
PCB114	FCA2	816	**0.0169**	YES
PCB114	FCA3	1,080	**0.00945**	YES
PCB114	Background	212	0.521	
PCB118	FCA1	39,100	**0.00945**	YES
PCB118	FCA2	36,600	**0.0169**	YES

Table C-6

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Catfish (calculated) for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
PCB118	FCA3	33,100	**0.00945**	YES
PCB118	Background	13,300	0.521	
PCB123	FCA1	772	**0.00945**	YES
PCB123	FCA2	773	**0.0109**	YES
PCB123	FCA3	1,040	**0.00945**	YES
PCB123	Background	193	0.521	
PCB126	FCA1	67.0	**0.00945**	YES
PCB126	FCA2	49.7	0.0533	
PCB126	FCA3	42.9	**0.00945**	YES
PCB126	Background	17.2	0.521	
PCB156+157 [d]	FCA1	6,400	**0.00945**	YES
PCB156+157 [d]	FCA2	5,770	**0.0169**	YES
PCB156+157 [d]	FCA3	7,760	**0.0160**	YES
PCB156+157 [d]	Background	1,920	0.521	
PCB167	FCA1	2,240	**0.00945**	YES
PCB167	FCA2	2,100	**0.0169**	YES
PCB167	FCA3	2,570	**0.00945**	YES
PCB167	Background	798	0.521	
PCB169	FCA1	5.37	0.459	
PCB169	FCA2	4.73	0.534	
PCB169	FCA3	3.90	0.620	
PCB169	Background	5.32	0.521	
PCB170	FCA1	13,800	**0.0262**	YES
PCB170	FCA2	12,700	0.0744	
PCB170	FCA3	17,700	**0.0262**	YES
PCB170	Background	5,900	0.521	
PCB180+193 [d]	FCA1	30,600	**0.0262**	YES

Table C-6

Results of Pair-wise Statistical Comparisons of Concentrations of Bioaccumulative COPCs in Whole Body Catfish (calculated) for Each FCA with Background

COPC	FCA	Median Concentration (wet weight)	One-Sided Mann-Whitney-Wilcoxon against Background P value	Significantly Greater than Background
PCB180+193 [d]	FCA2	29,200	0.101	
PCB180+193 [d]	FCA3	24,500	0.0629	
PCB180+193 [d]	Background	16,600	0.521	
PCB189	FCA1	513	**0.0414**	YES
PCB189	FCA2	401	0.135	
PCB189	FCA3	601	**0.0262**	YES
PCB189	Background	237	0.521	
Semivolatile Organic Compounds (µg/kg)				
Bis(2-ethylhexyl)phthalate	FCA1	383	0.695	
Bis(2-ethylhexyl)phthalate	FCA2	246	0.883	
Bis(2-ethylhexyl)phthalate	FCA3	929	**0.0262**	YES
Bis(2-ethylhexyl)phthalate	Background	918	0.521	

Notes

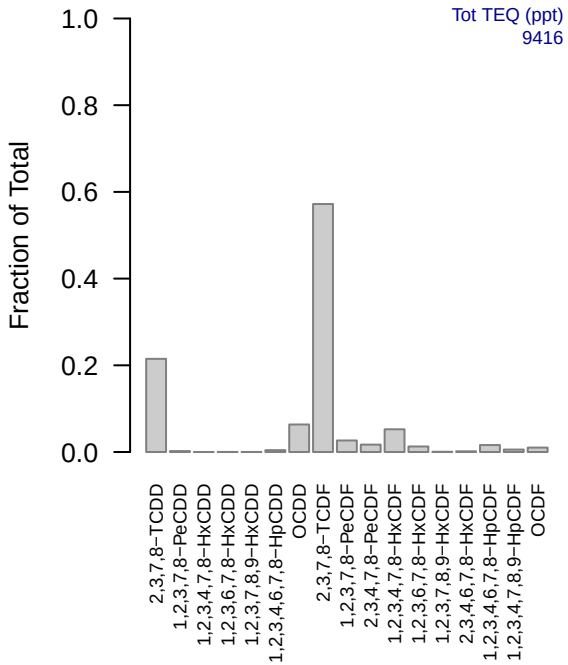
a - Includes only those COPCs that are considered to be bioaccumulative and that will be addressed in the human health and wildlife risk assessments (see Table 1-2).

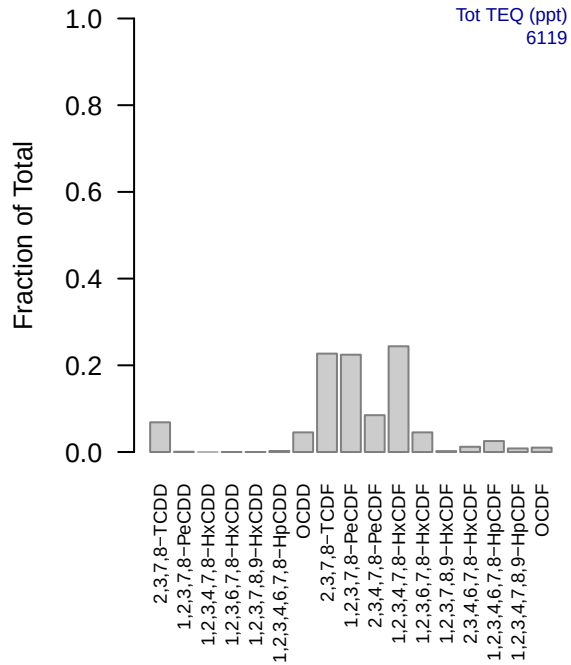
b - Represents the sum of 17 congeners, with nondetects set at one-half the detection limit.

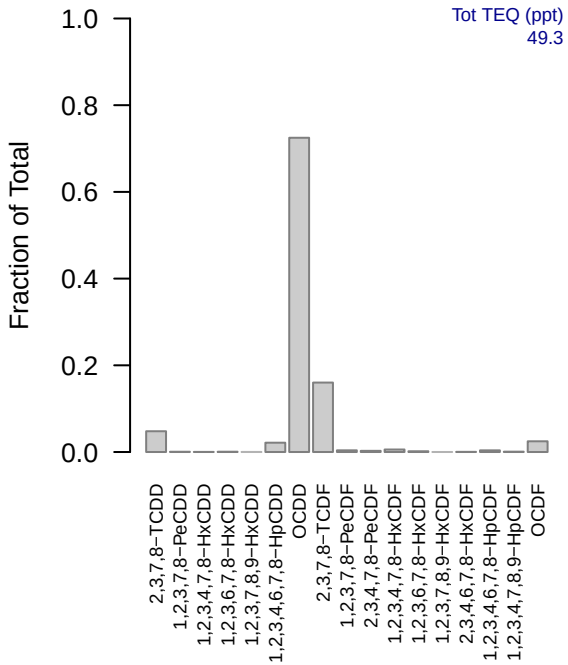
c - Represents the sum of 209 congeners, with nondetects set at one-half the detection limit.

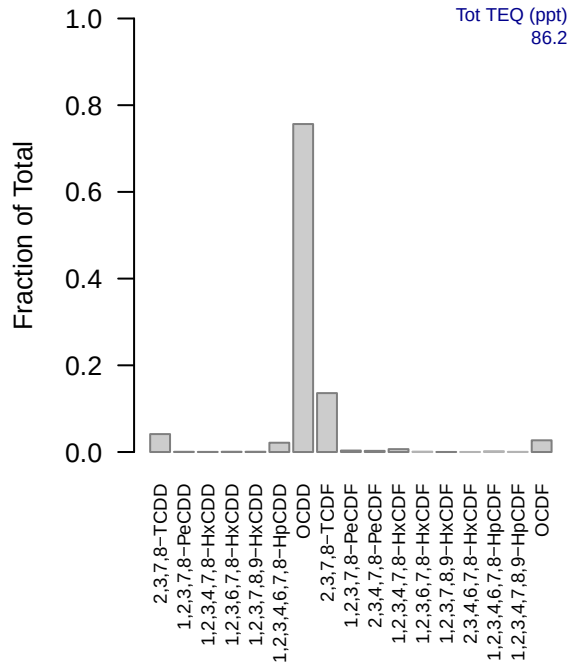
d - Co-eluting PCB congeners.

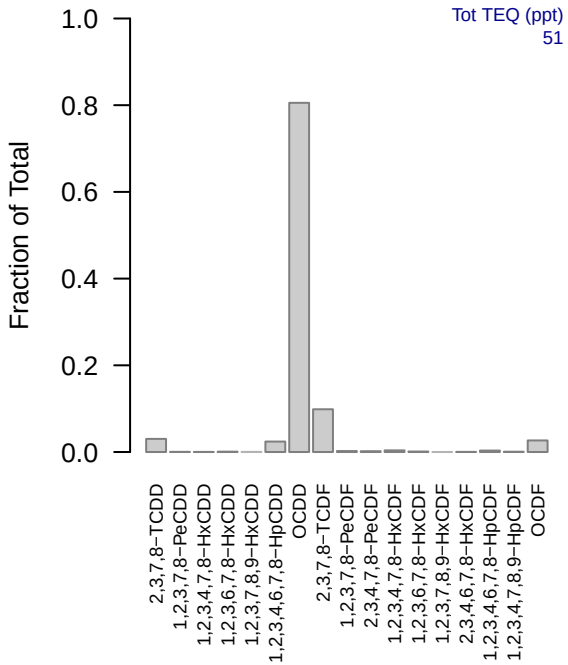
APPENDIX D
DIOXIN FINGERPRINTS FOR EACH SEDIMENT AND SOIL SAMPLE

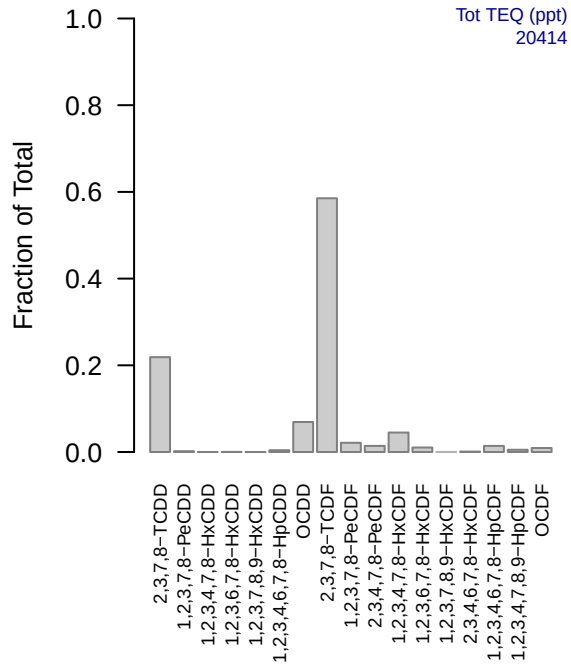

SJA1(0−15 cm)
Tot TEQ (ppt)
9416
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

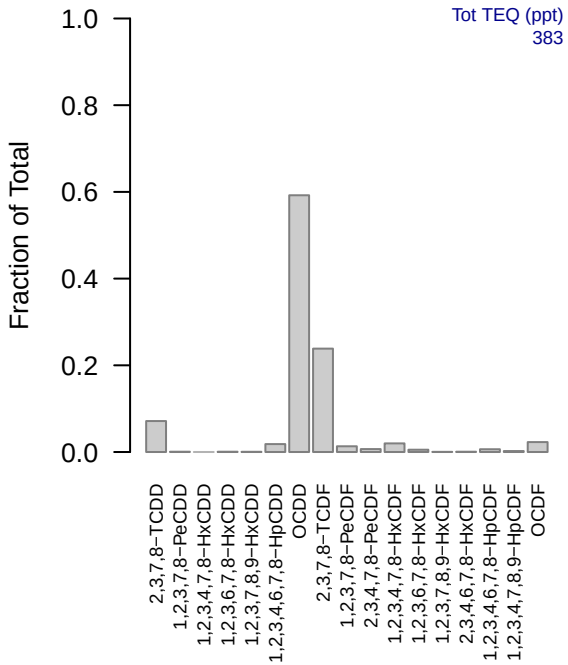

SJA2(0−15 cm)
Tot TEQ (ppt)
6119
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

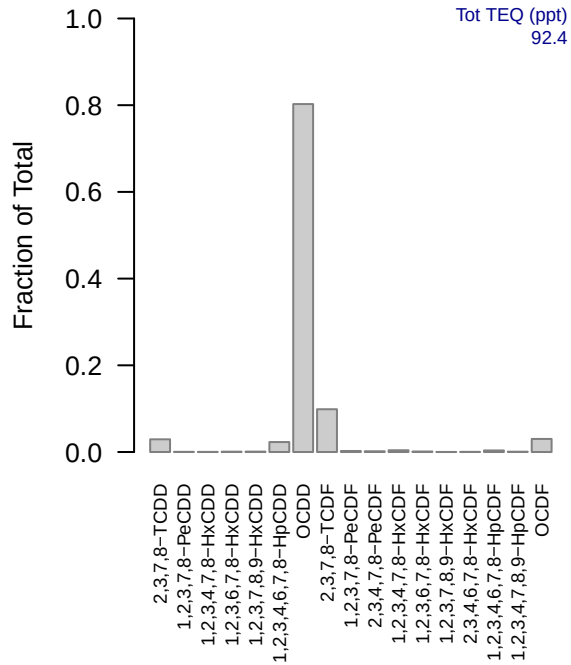

SJA3(0−15 cm)
Tot TEQ (ppt)
49.3
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJA4(0−10 cm)
Tot TEQ (ppt)
86.2
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

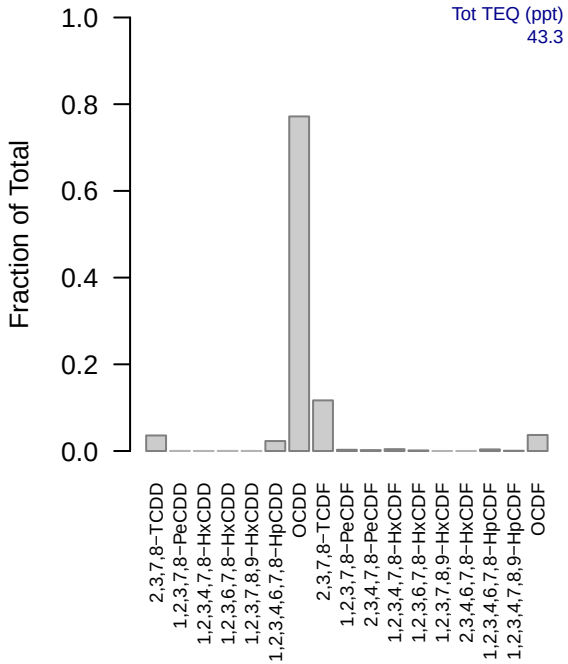

SJA5(0−10 cm)
Tot TEQ (ppt)
51
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJB1(0−15 cm)
Tot TEQ (ppt)
20414
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

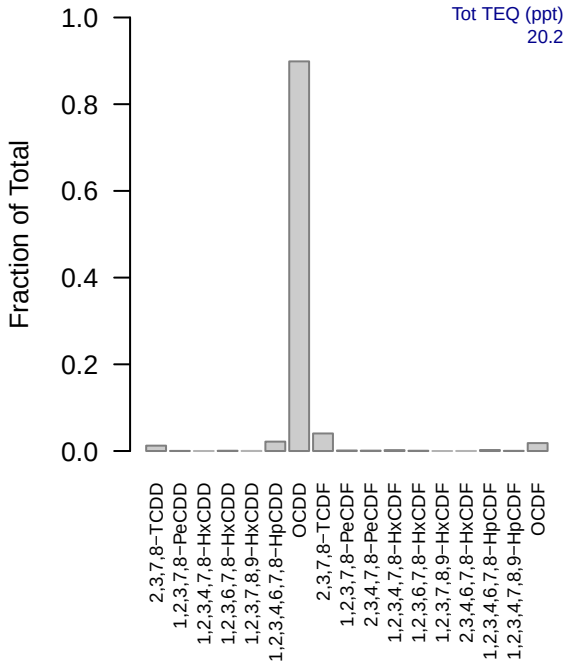

SJB2(0−15 cm)
Tot TEQ (ppt)
383
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJB3(0−15 cm)
Tot TEQ (ppt)
92.4
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

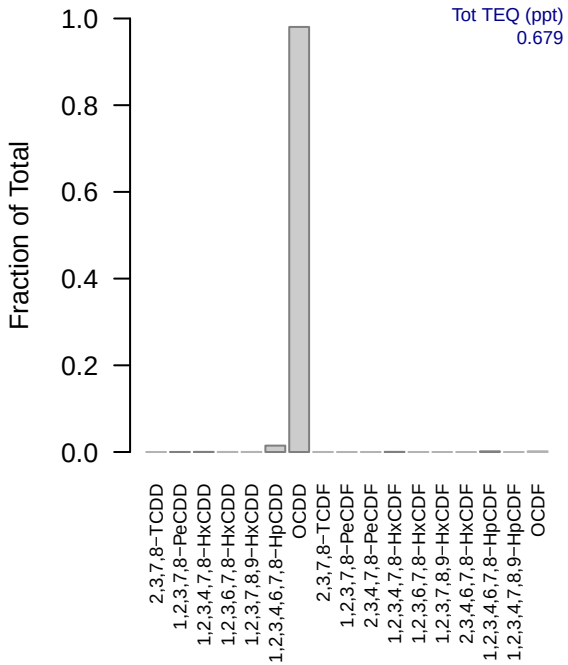
SJB4(0−15 cm)



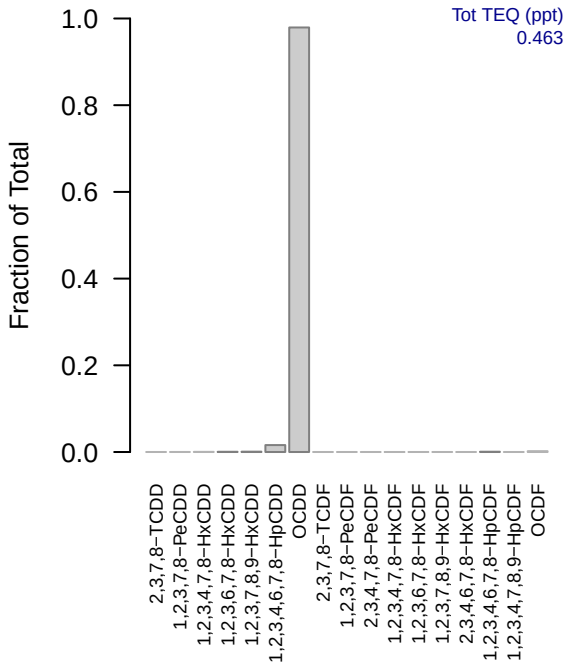
SJB5(0−15 cm)

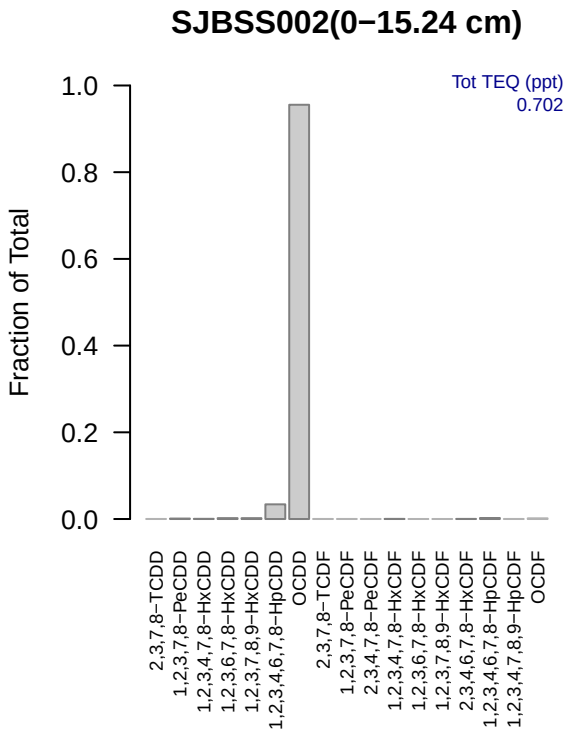


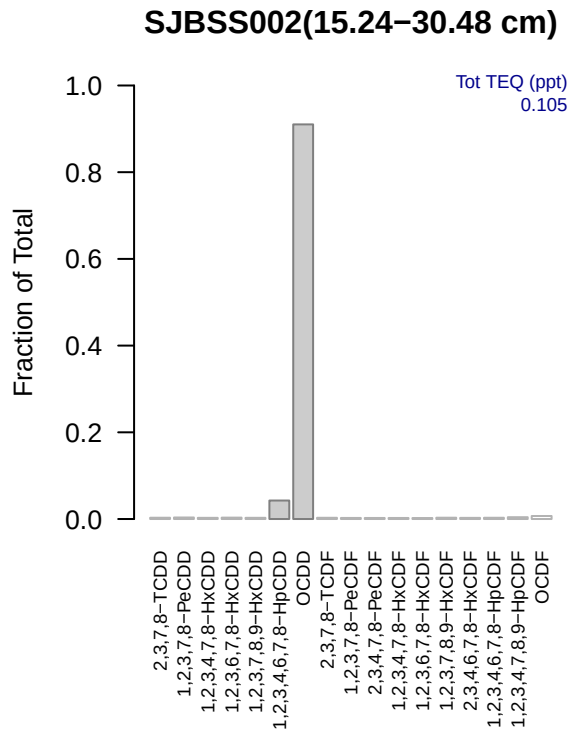
SJBSS001(0−15.24 cm)

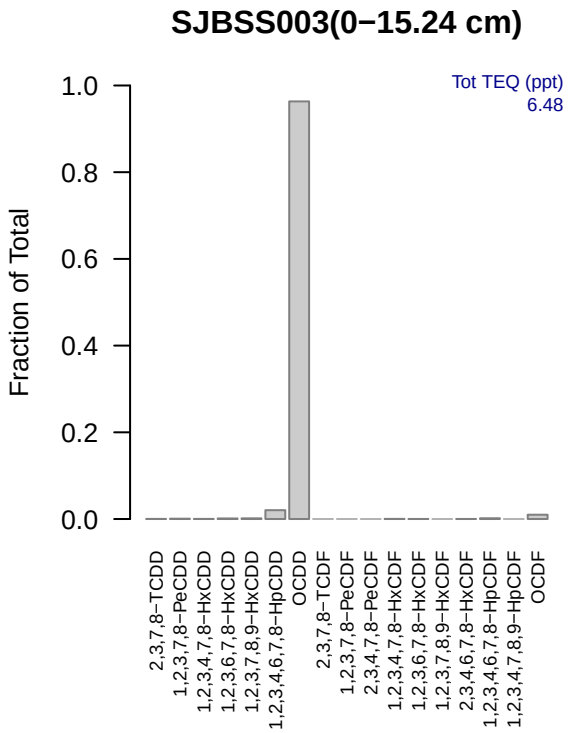


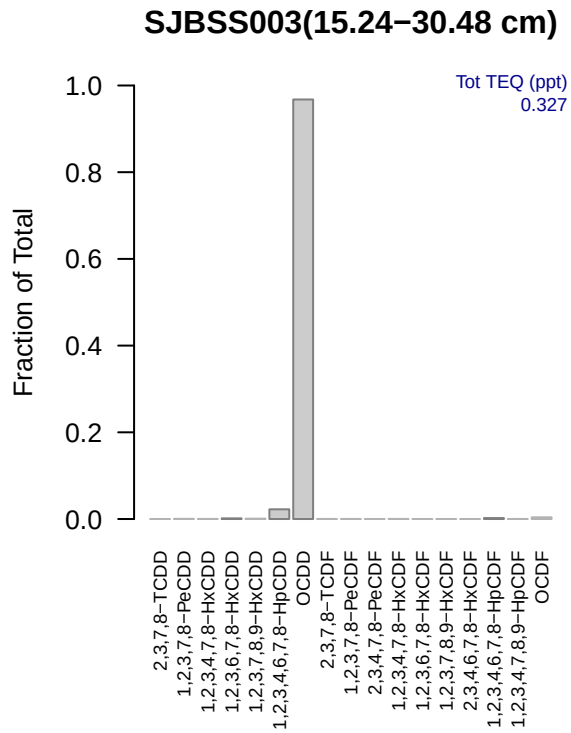
SJBSS001(15.24−30.48 cm)



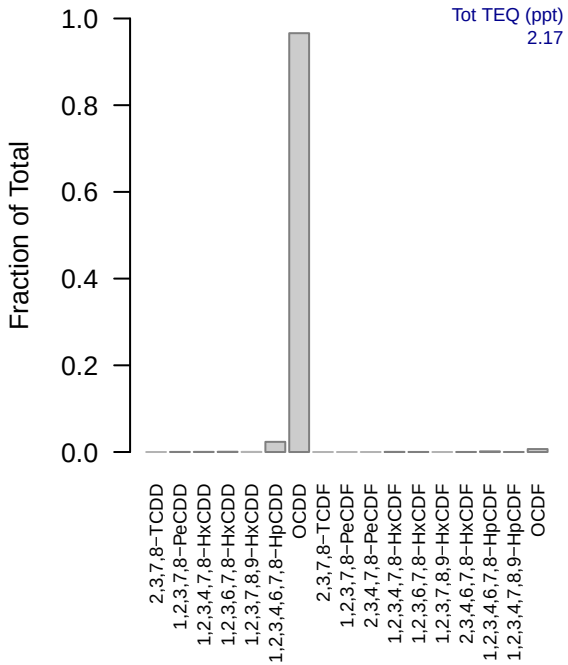

SJBSS002(0−15.24 cm)
Tot TEQ (ppt)
0.702
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJBSS002(15.24−30.48 cm)
Tot TEQ (ppt)
0.105
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

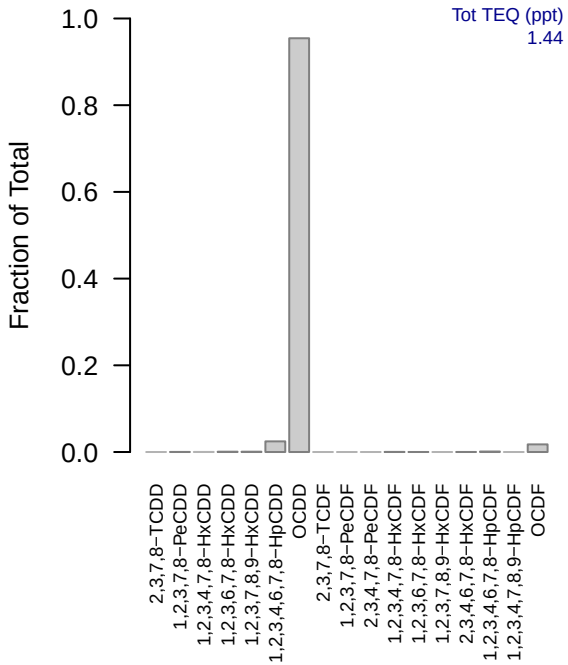

SJBSS003(0−15.24 cm)
Tot TEQ (ppt)
6.48
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJBSS003(15.24−30.48 cm)
Tot TEQ (ppt)
0.327
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

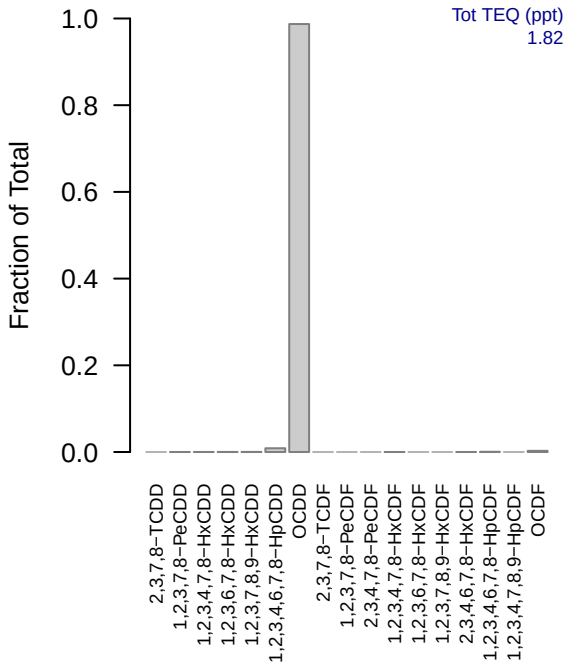
SJBSS004(0−15.24 cm)



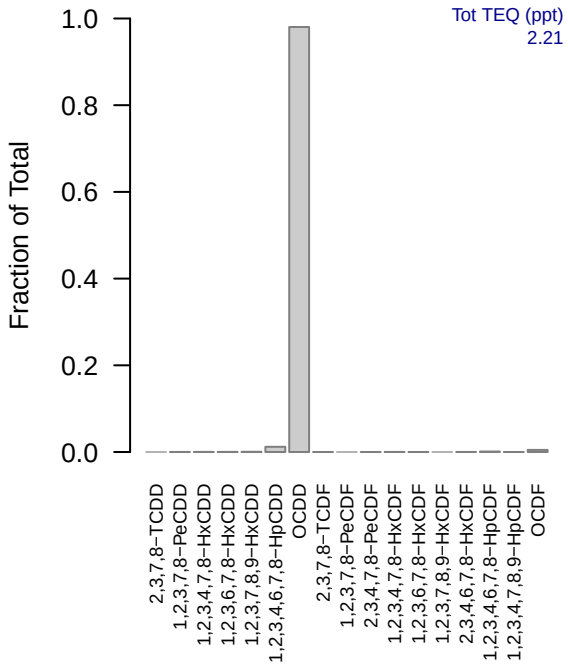
SJBSS004(15.24−30.48 cm)

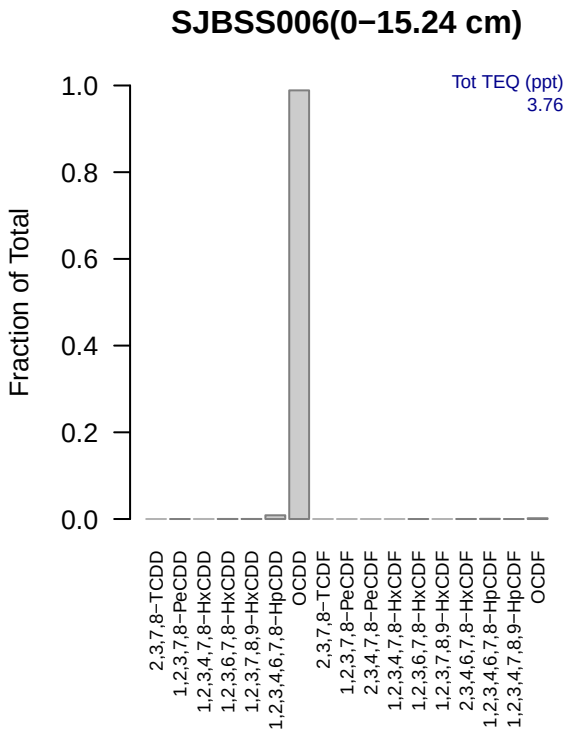


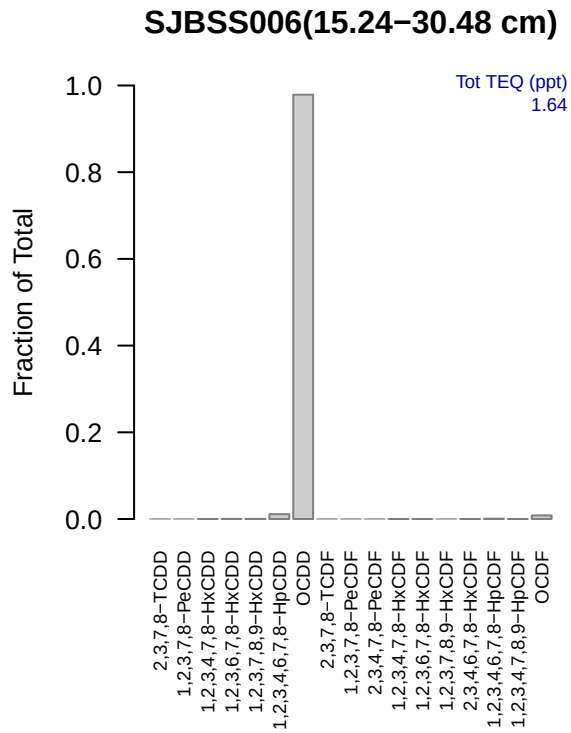
SJBSS005(0−15.24 cm)

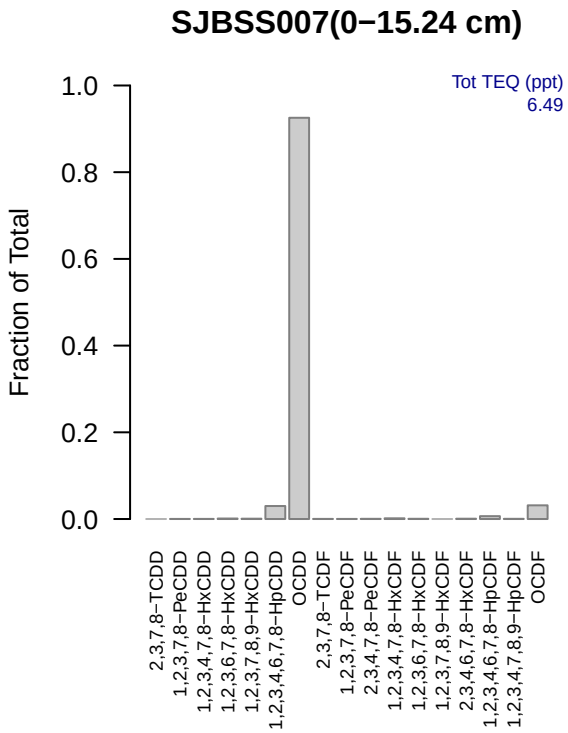


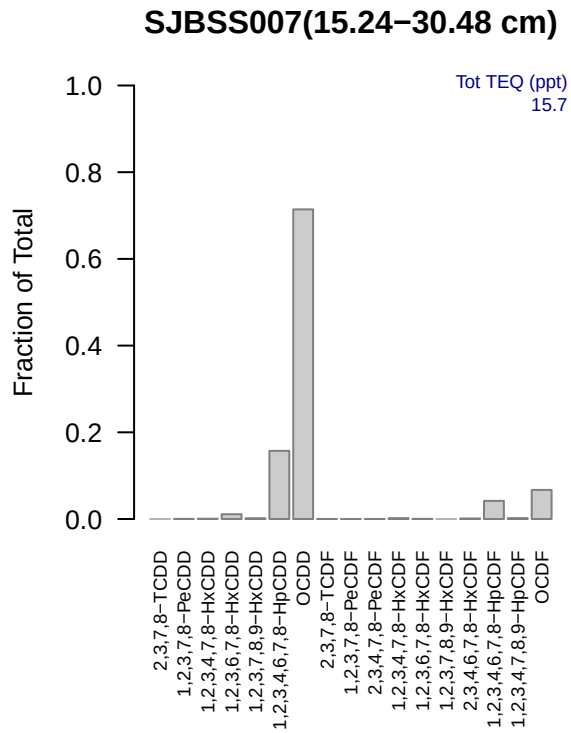
SJBSS005(15.24−30.48 cm)



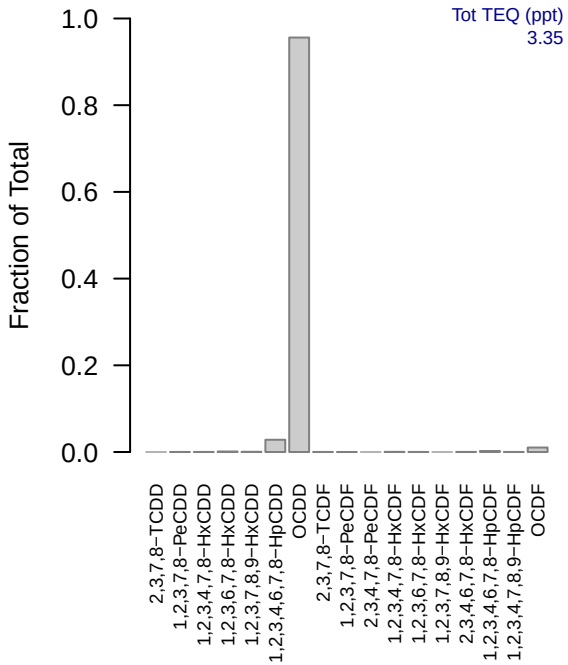

SJBSS006(0−15.24 cm)
Tot TEQ (ppt)
3.76
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJBSS006(15.24−30.48 cm)
Tot TEQ (ppt)
1.64
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

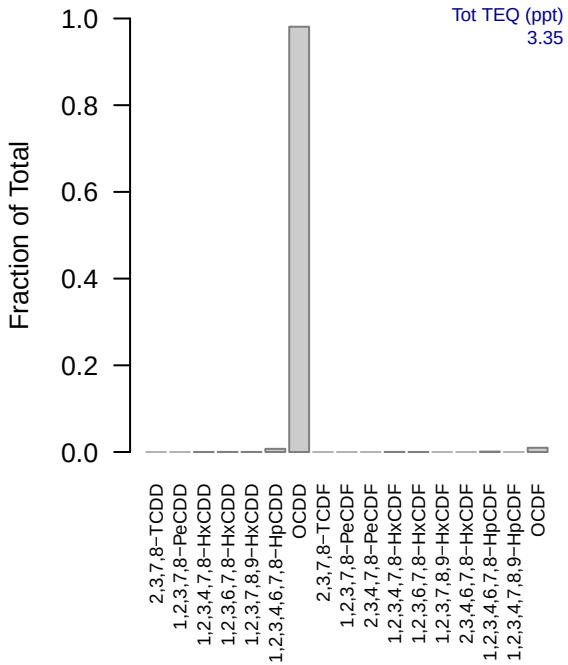

SJBSS007(0−15.24 cm)
Tot TEQ (ppt)
6.49
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJBSS007(15.24−30.48 cm)
Tot TEQ (ppt)
15.7
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

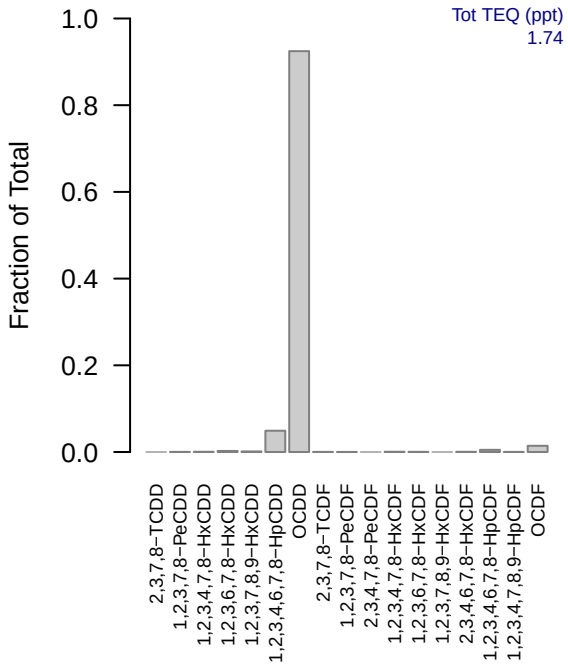
SJBSS008(0−15.24 cm)



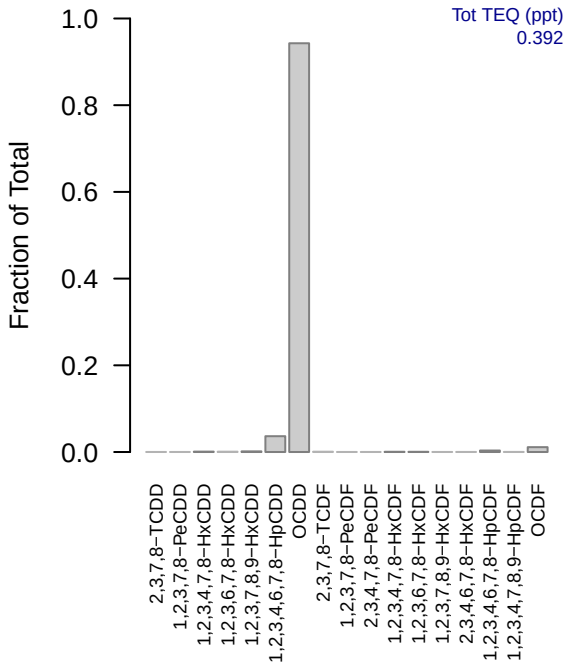
SJBSS008(15.24−30.48 cm)

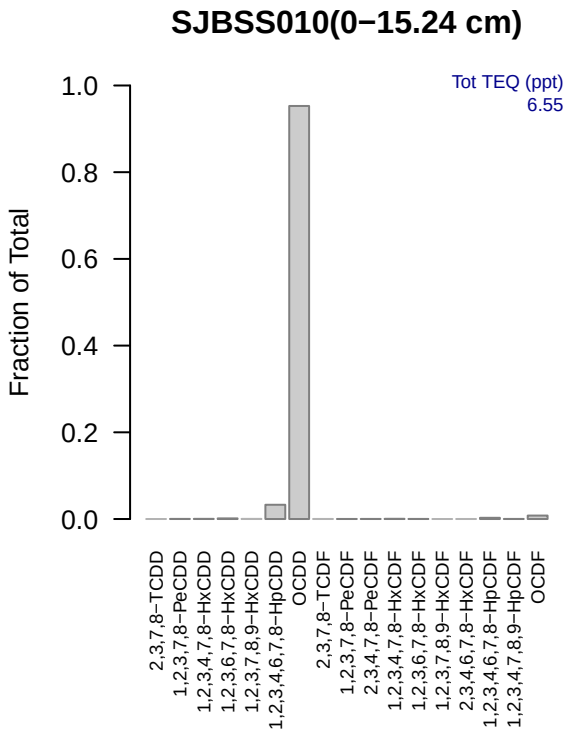


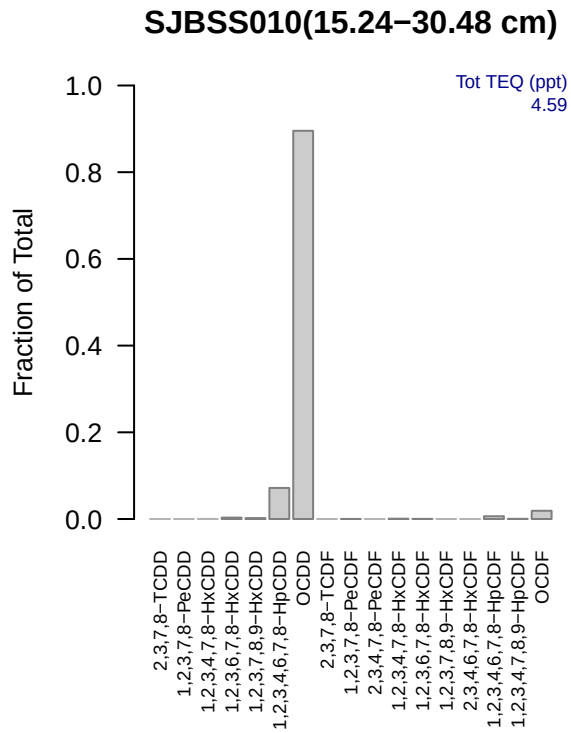
SJBSS009(0−15.24 cm)

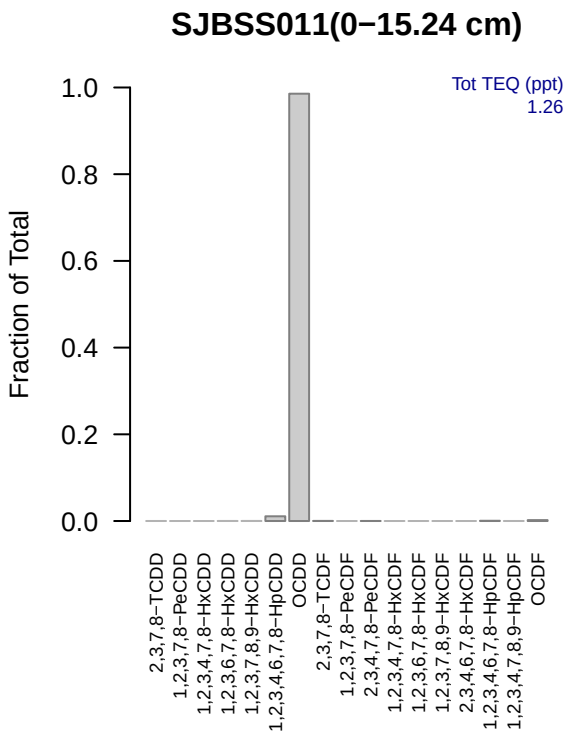


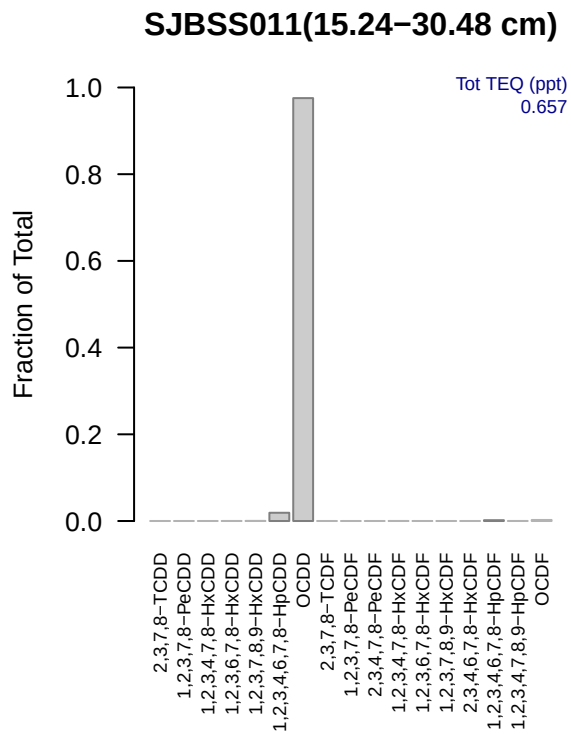
SJBSS009(15.24−30.48 cm)

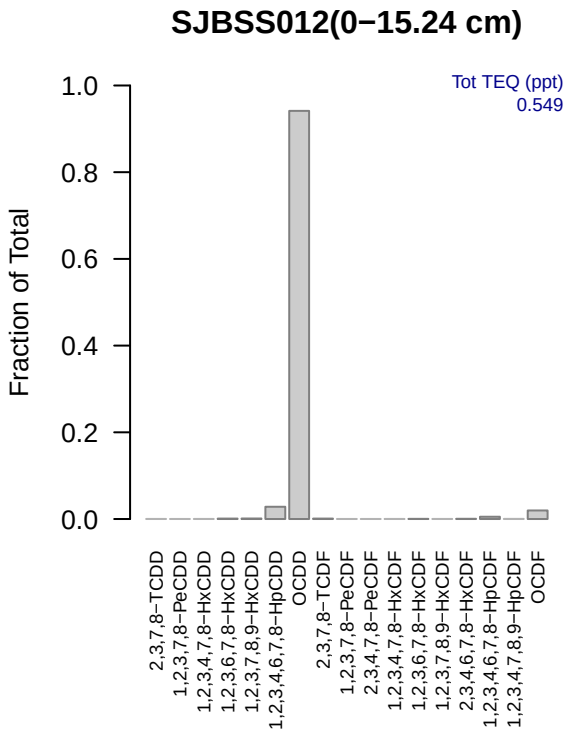


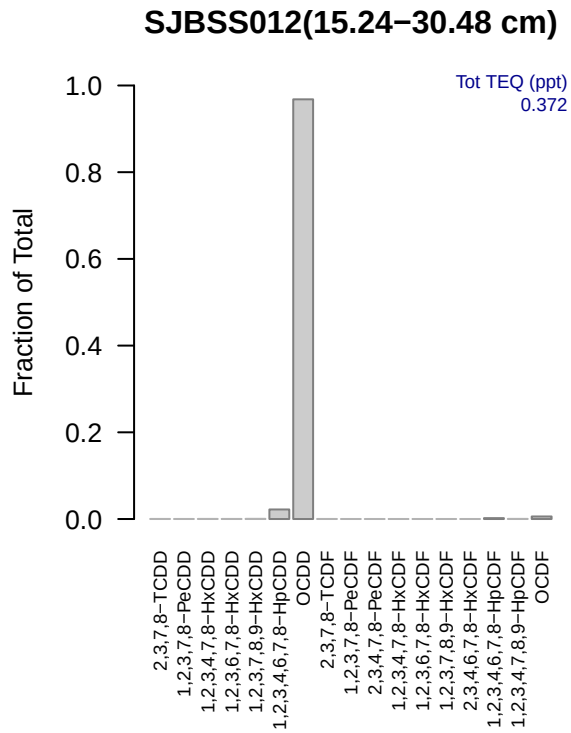

SJBSS010(0−15.24 cm)
Tot TEQ (ppt)
6.55
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

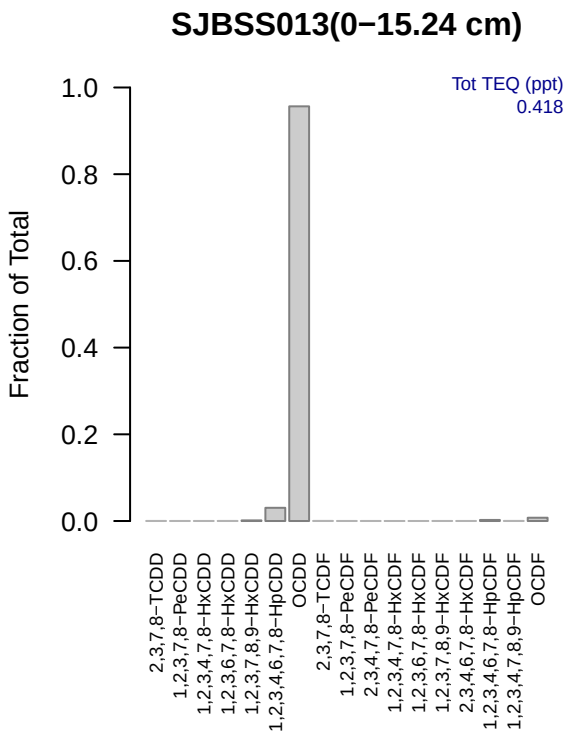

SJBSS010(15.24−30.48 cm)
Tot TEQ (ppt)
4.59
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

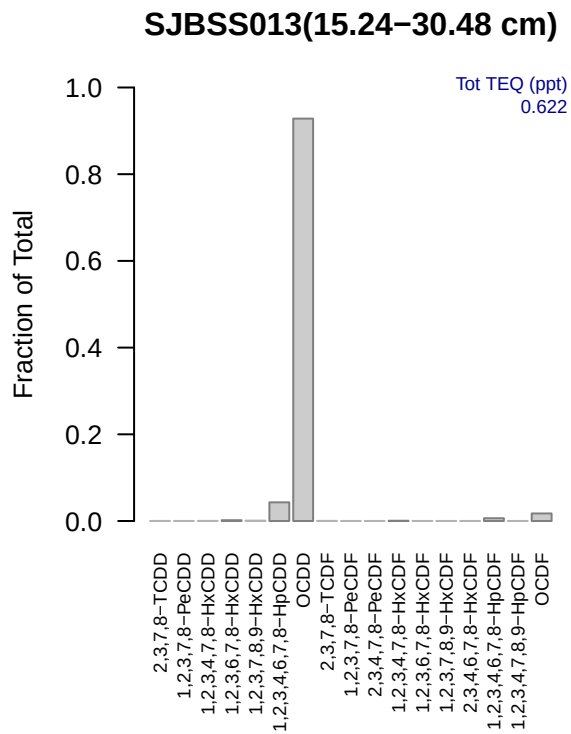

SJBSS011(0−15.24 cm)
Tot TEQ (ppt)
1.26
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJBSS011(15.24−30.48 cm)
Tot TEQ (ppt)
0.657
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

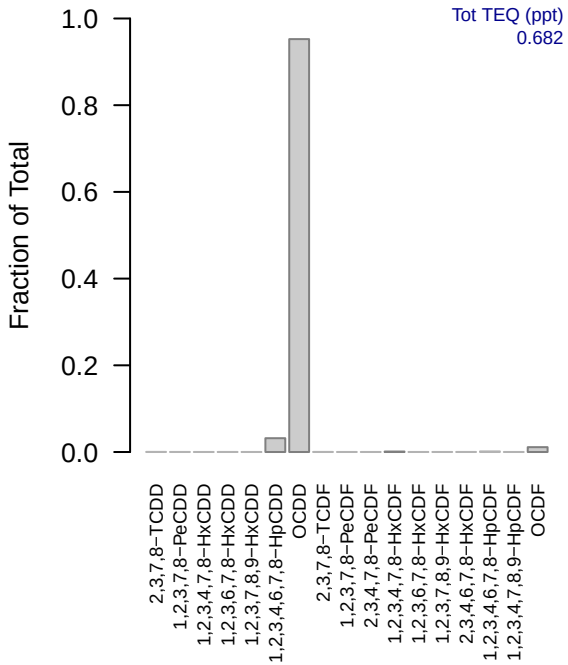

SJBSS012(0−15.24 cm)
Tot TEQ (ppt)
0.549
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJBSS012(15.24−30.48 cm)
Tot TEQ (ppt)
0.372
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

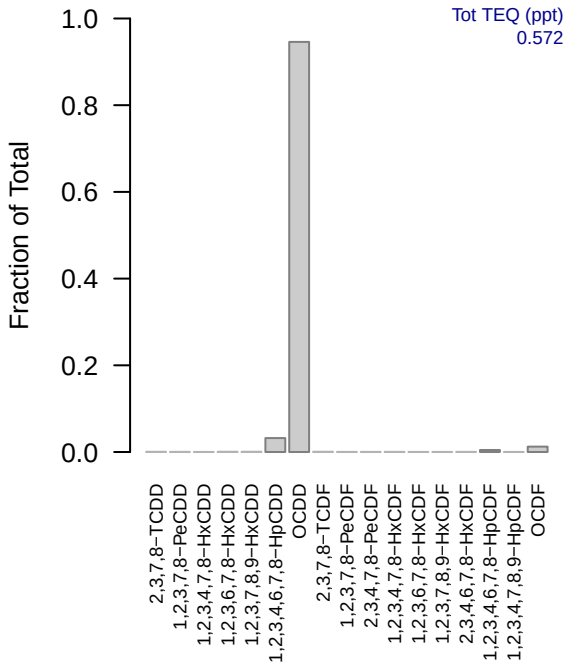

SJBSS013(0−15.24 cm)
Tot TEQ (ppt)
0.418
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJBSS013(15.24−30.48 cm)
Tot TEQ (ppt)
0.622
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

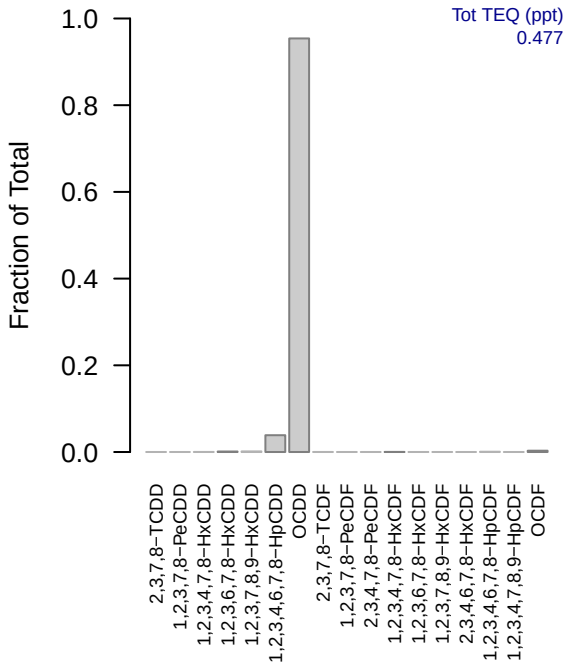
SJBSS014(0−15.24 cm)



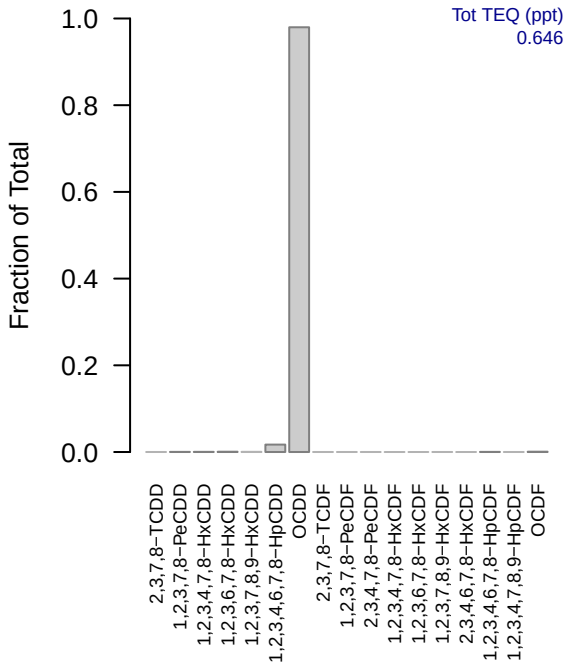
SJBSS014(15.24−30.48 cm)

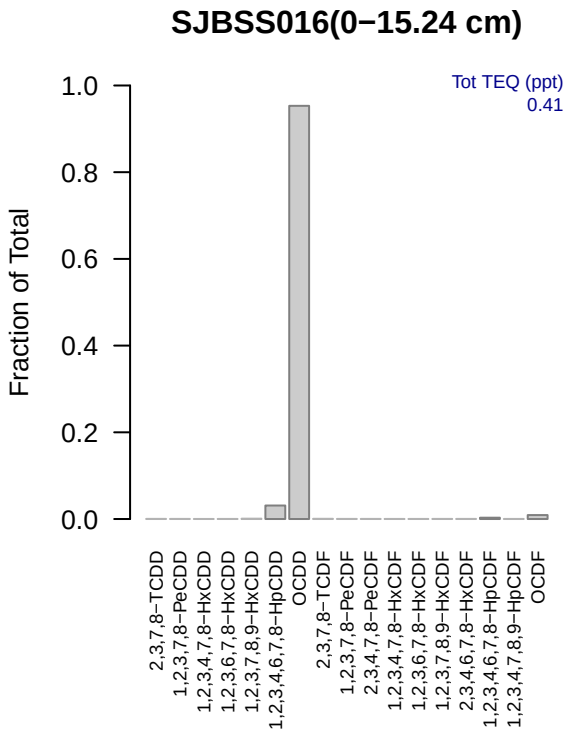


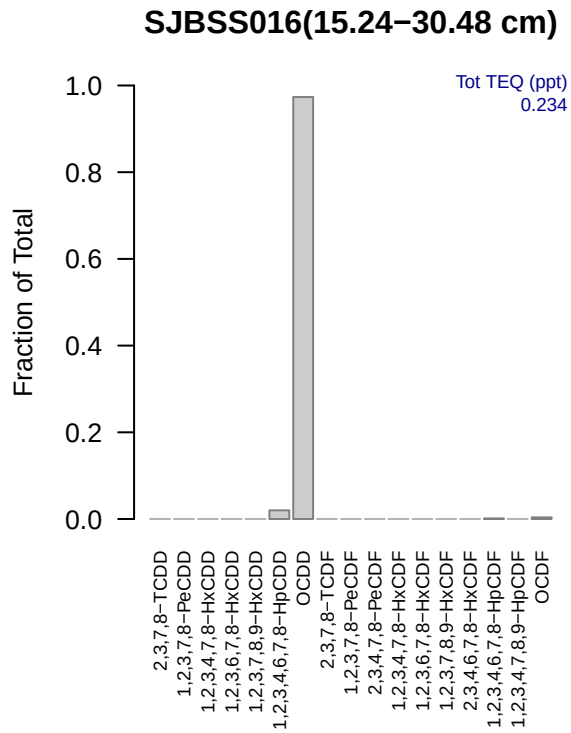
SJBSS015(0−15.24 cm)

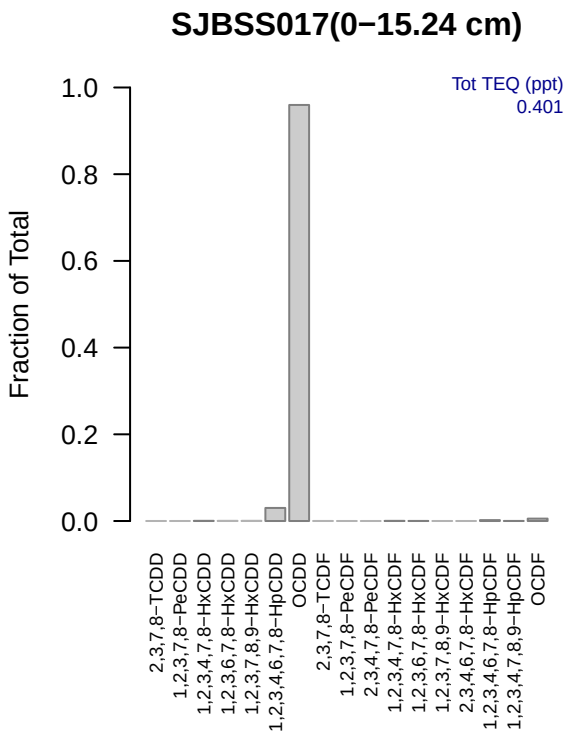


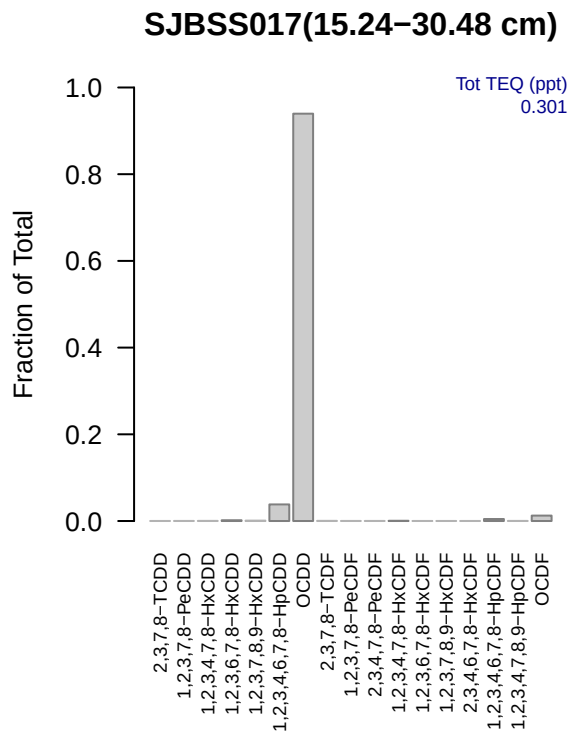
SJBSS015(15.24−30.48 cm)

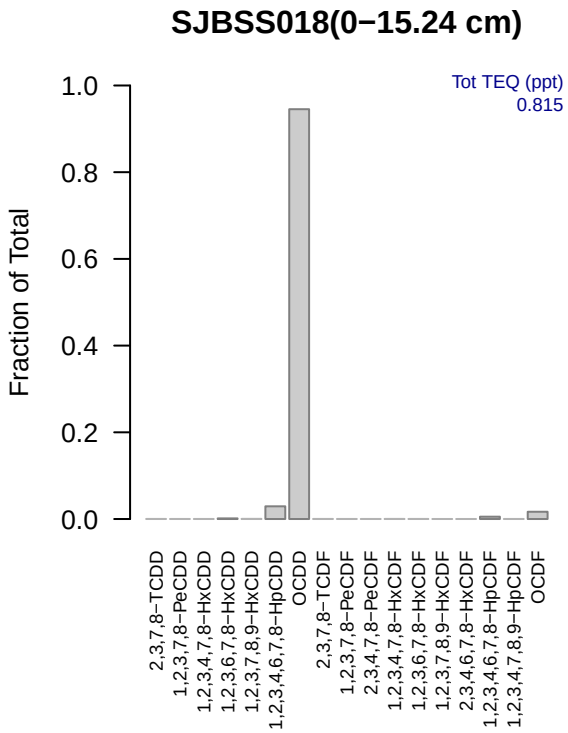


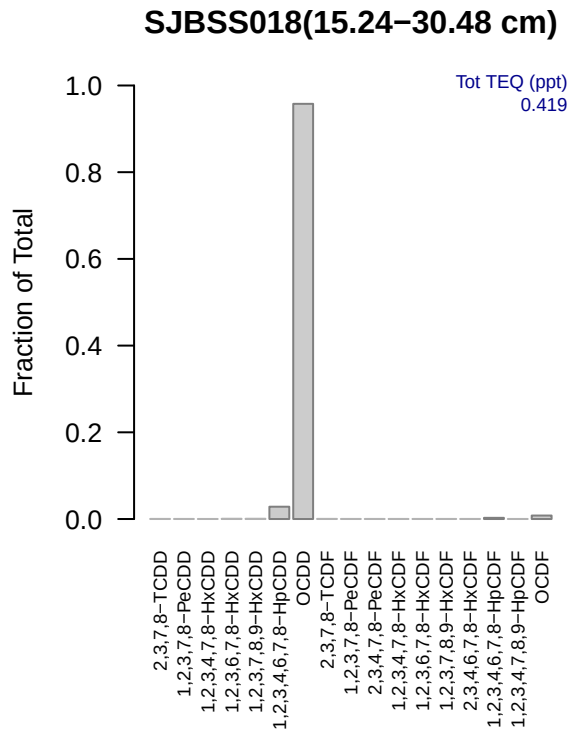

SJBSS016(0−15.24 cm)
Tot TEQ (ppt)
0.41
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

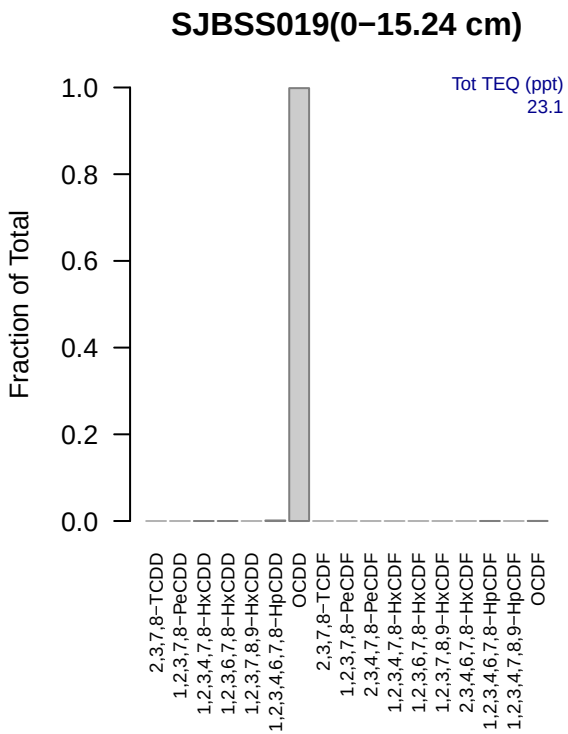

SJBSS016(15.24−30.48 cm)
Tot TEQ (ppt)
0.234
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

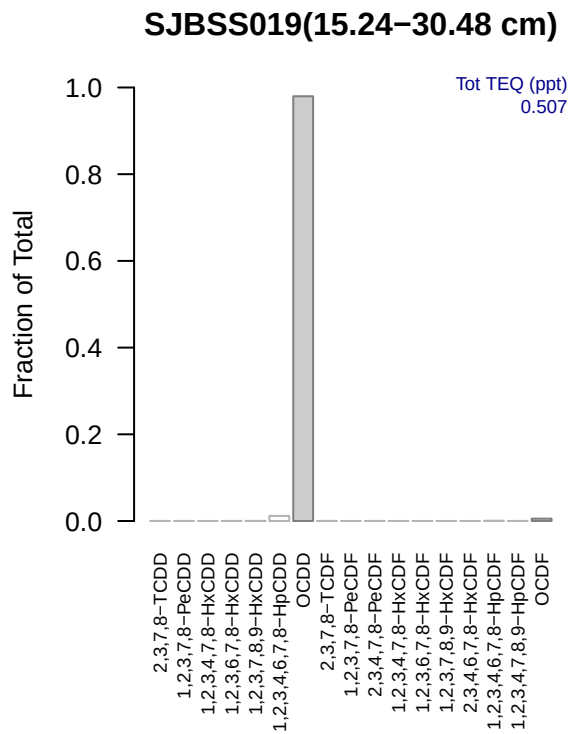

SJBSS017(0−15.24 cm)
Tot TEQ (ppt)
0.401
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJBSS017(15.24−30.48 cm)
Tot TEQ (ppt)
0.301
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

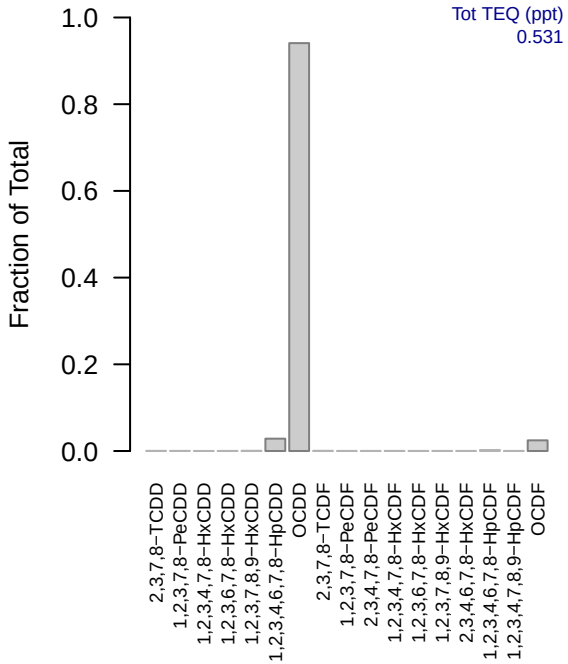

SJBSS018(0−15.24 cm)
Tot TEQ (ppt)
0.815
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJBSS018(15.24−30.48 cm)
Tot TEQ (ppt)
0.419
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

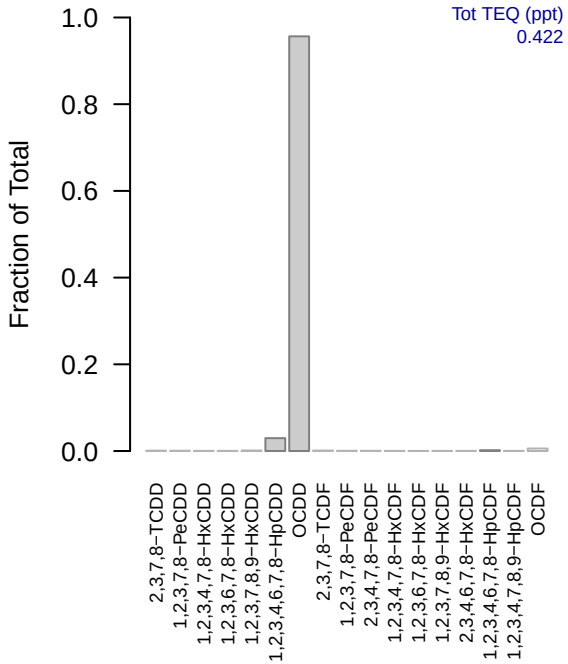

SJBSS019(0−15.24 cm)
Tot TEQ (ppt)
23.1
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJBSS019(15.24−30.48 cm)
Tot TEQ (ppt)
0.507
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

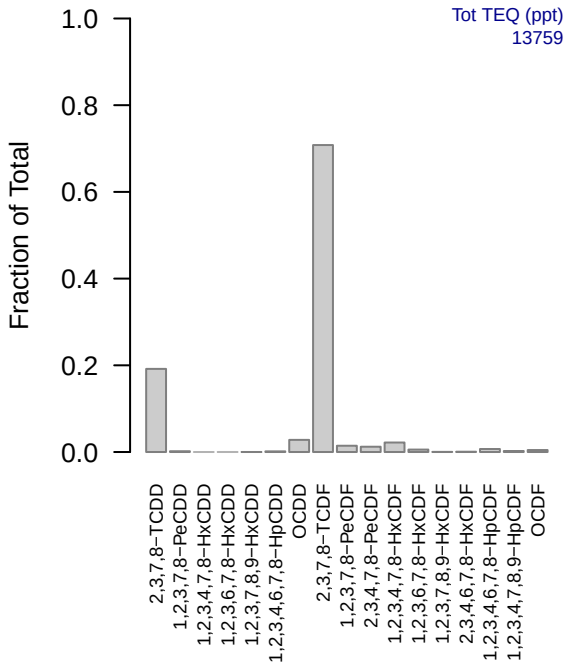
SJBSS020(0−15.24 cm)



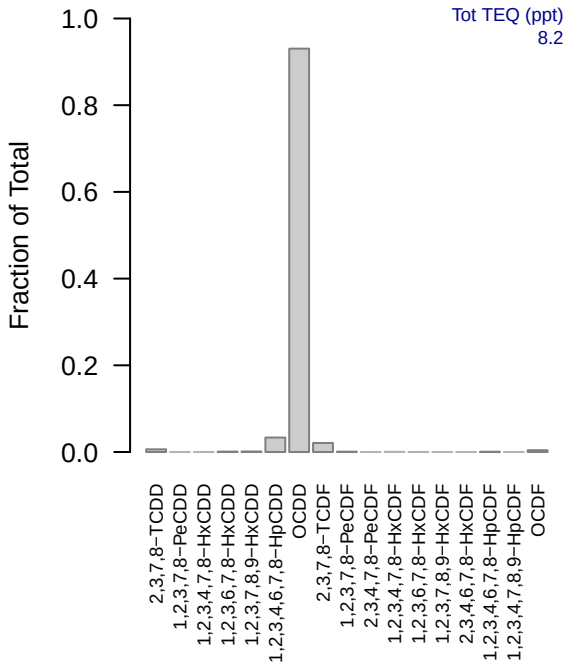
SJBSS020(15.24−30.48 cm)

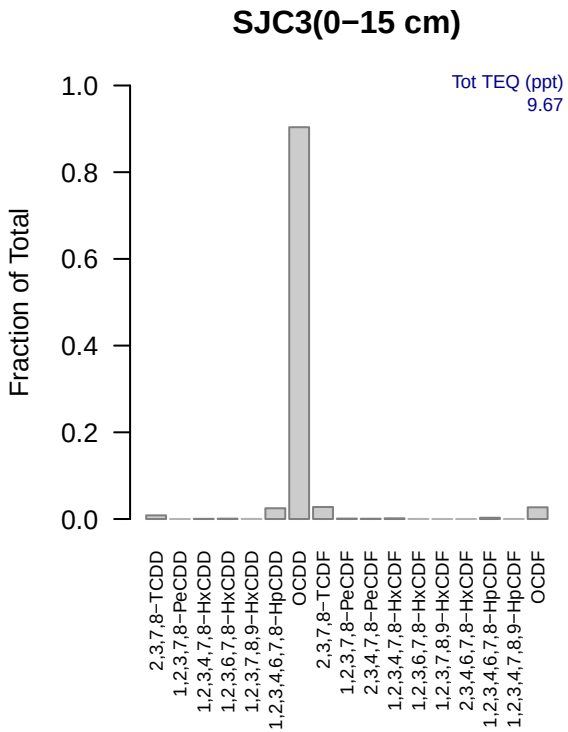


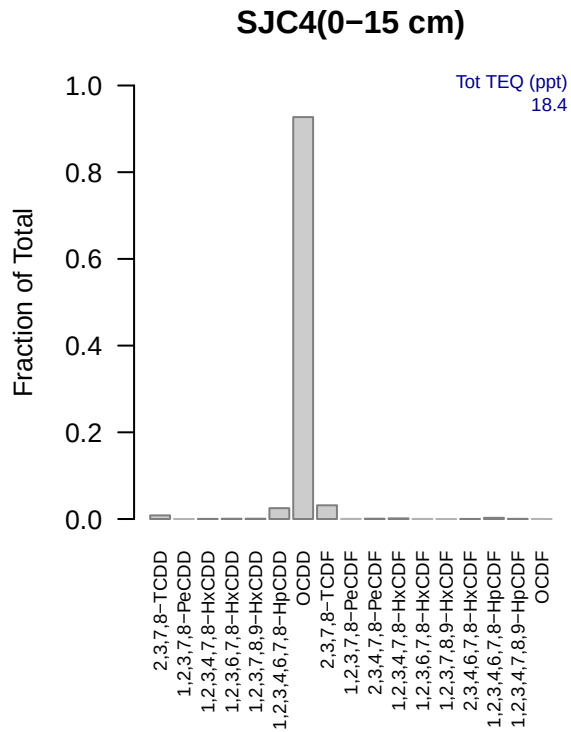
SJC1(0−15 cm)

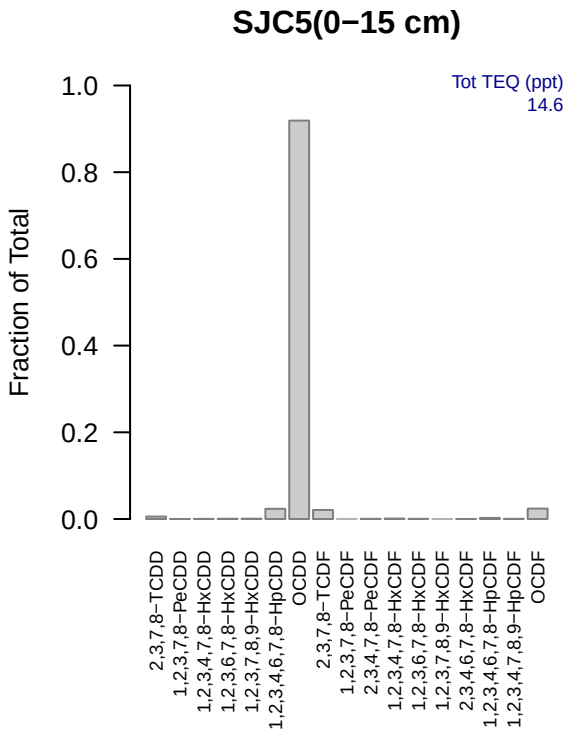


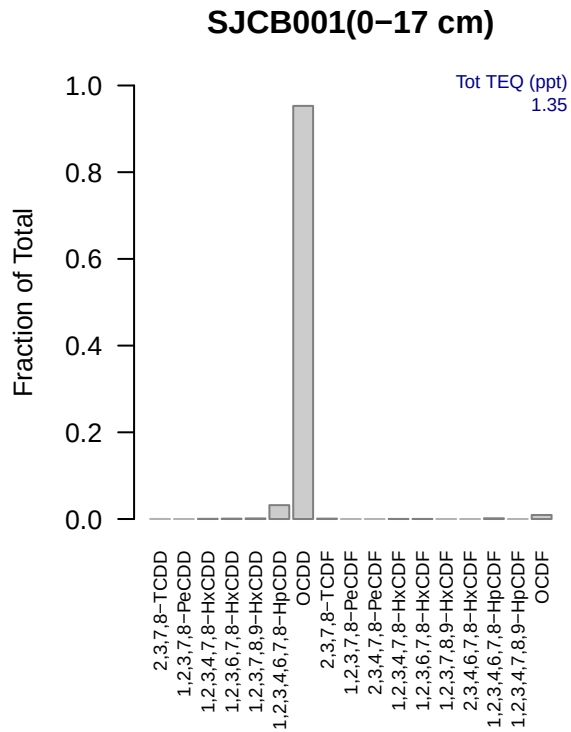
SJC2(0−15 cm)



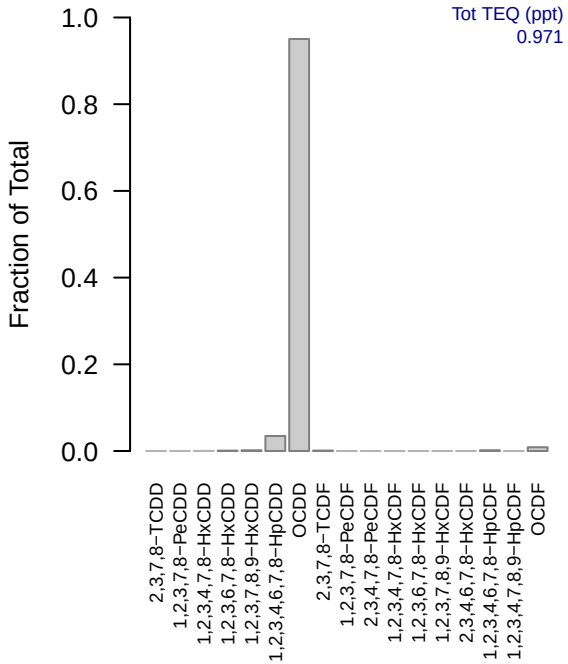

SJC3(0−15 cm)
Tot TEQ (ppt)
9.67
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJC4(0−15 cm)
Tot TEQ (ppt)
18.4
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

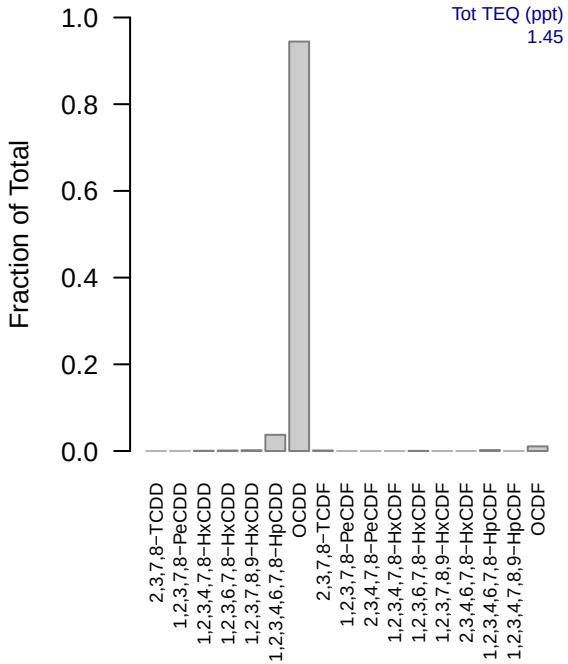

SJC5(0−15 cm)
Tot TEQ (ppt)
14.6
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJCB001(0−17 cm)
Tot TEQ (ppt)
1.35
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

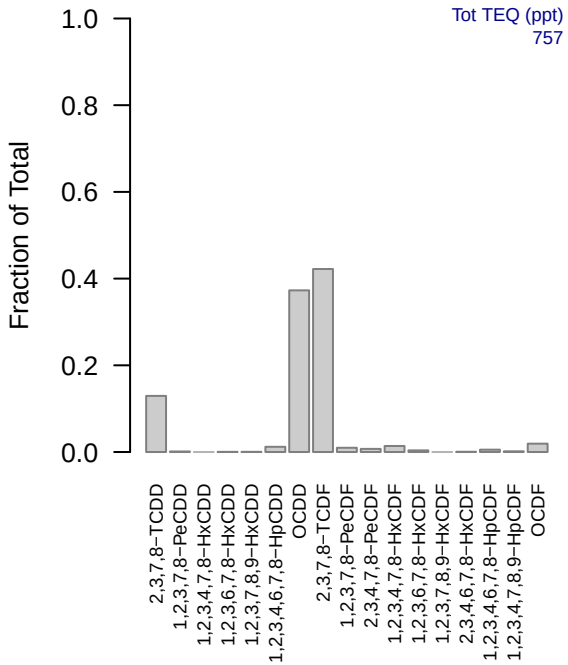
SJCB002(0−17 cm)



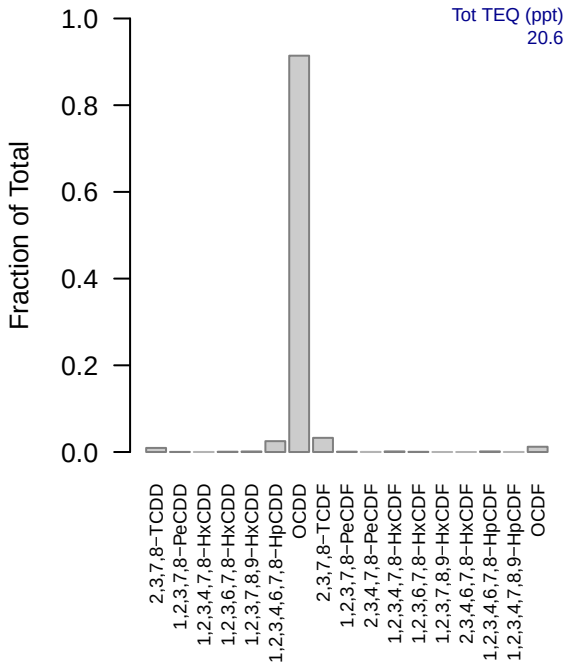
SJCB003(0−22 cm)

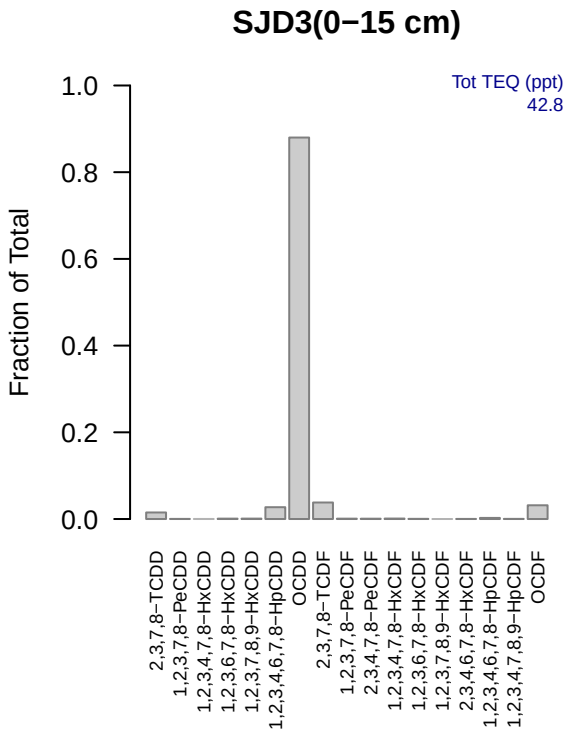


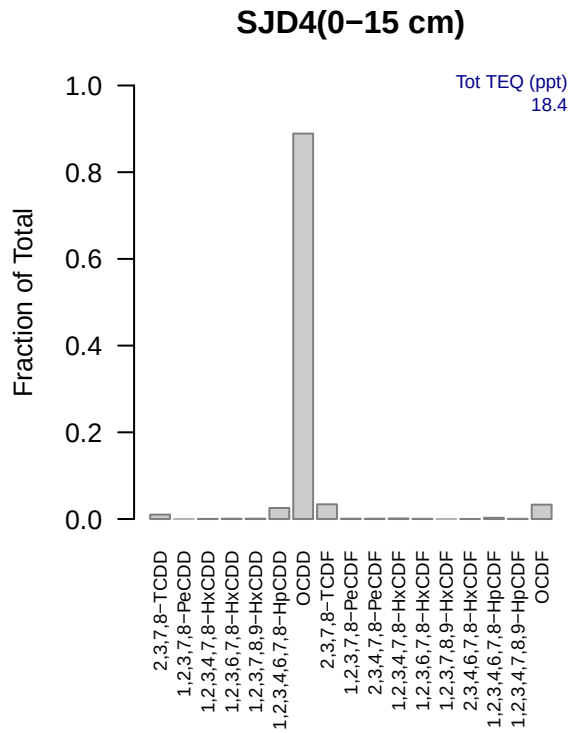
SJD1(0−15 cm)

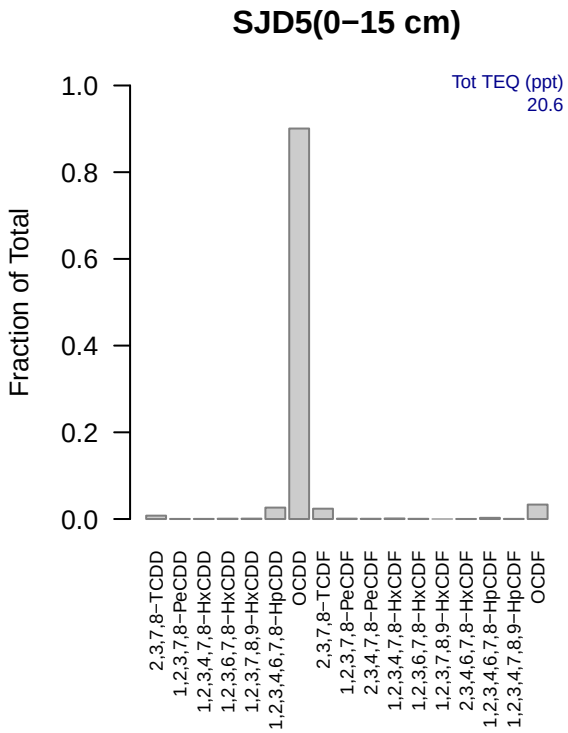


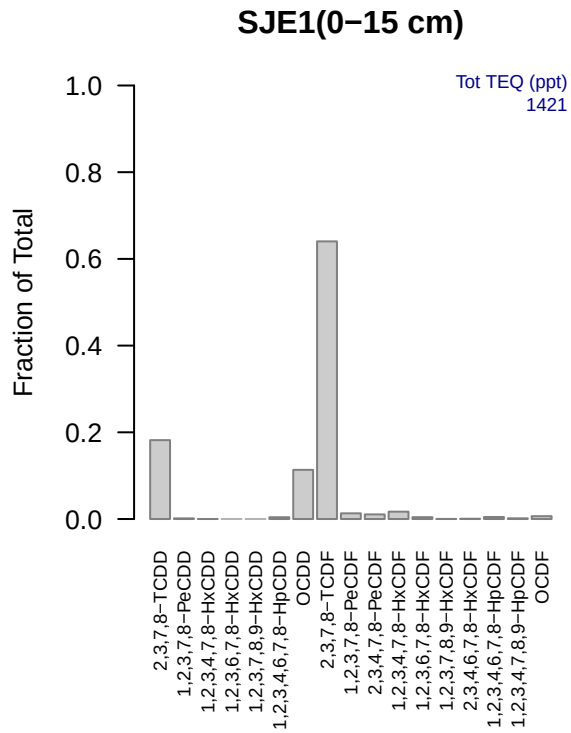
SJD2(0−15 cm)

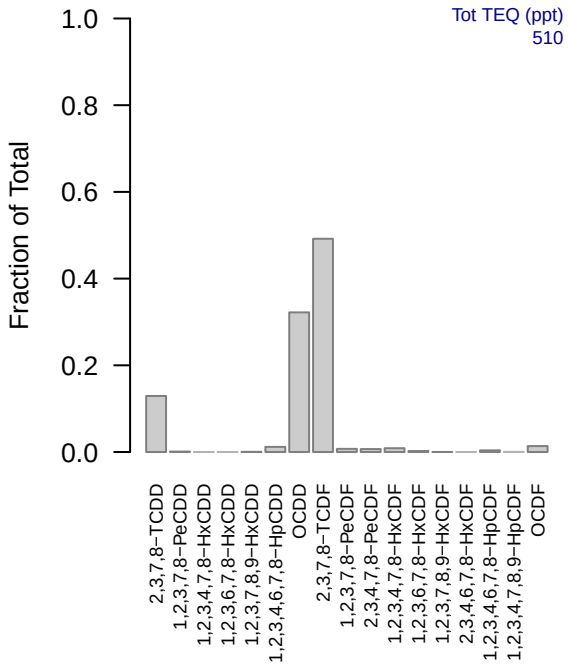


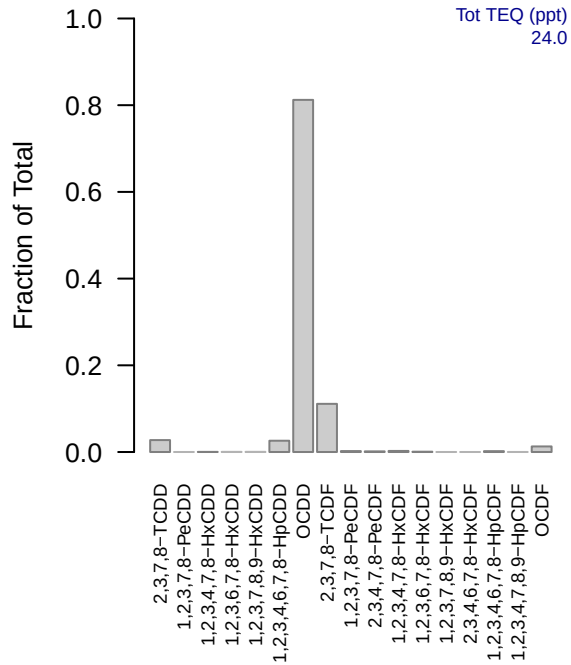

SJD3(0−15 cm)
Tot TEQ (ppt)
42.8
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

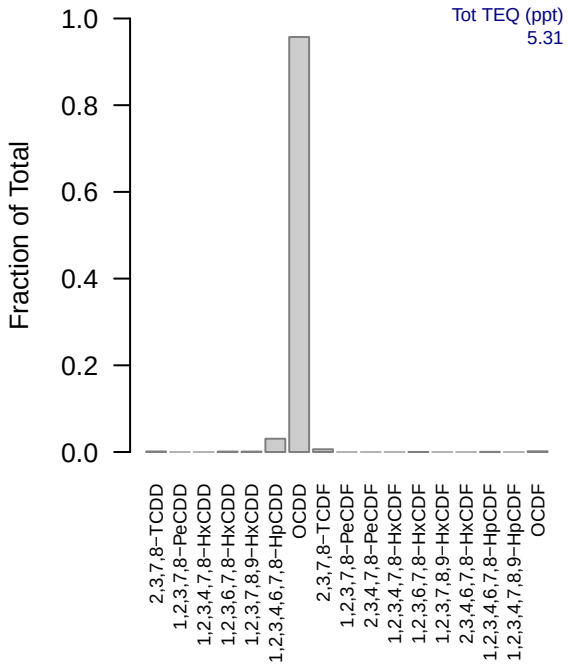

SJD4(0−15 cm)
Tot TEQ (ppt)
18.4
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

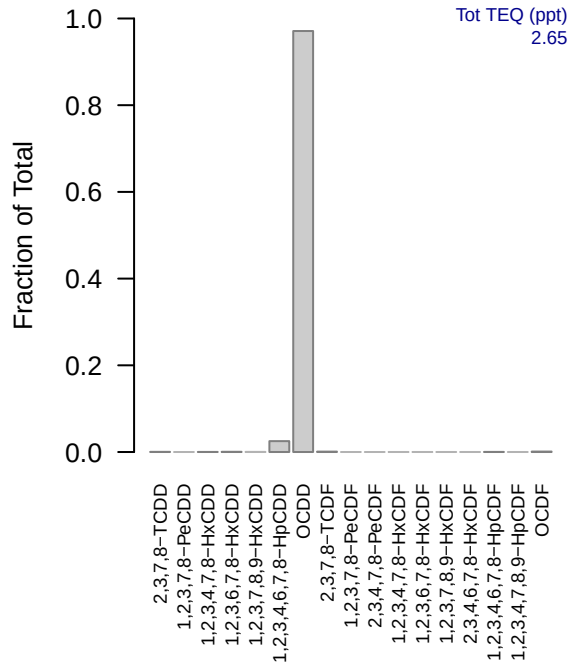

SJD5(0−15 cm)
Tot TEQ (ppt)
20.6
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

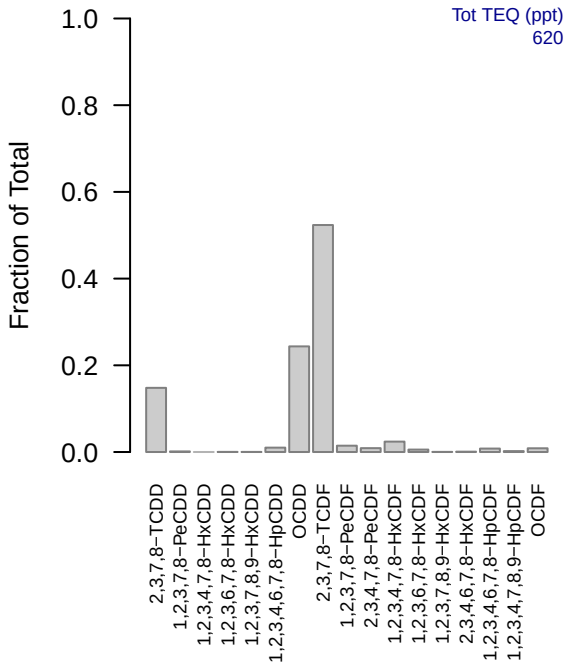

SJE1(0−15 cm)
Tot TEQ (ppt)
1421
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

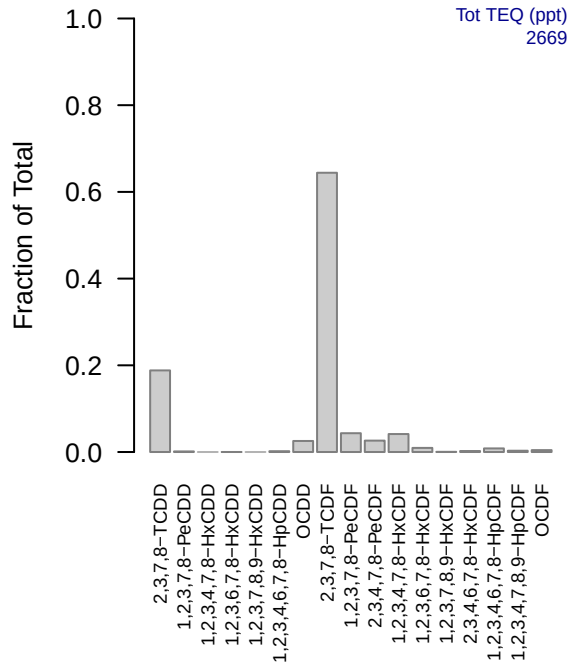

SJE2(0−15 cm)
Tot TEQ (ppt)
510
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

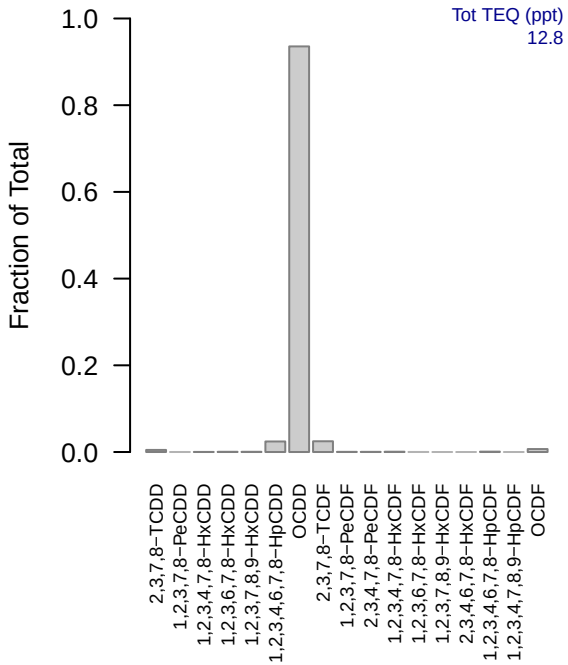

SJE3(0−15 cm)
Tot TEQ (ppt)
24.0
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

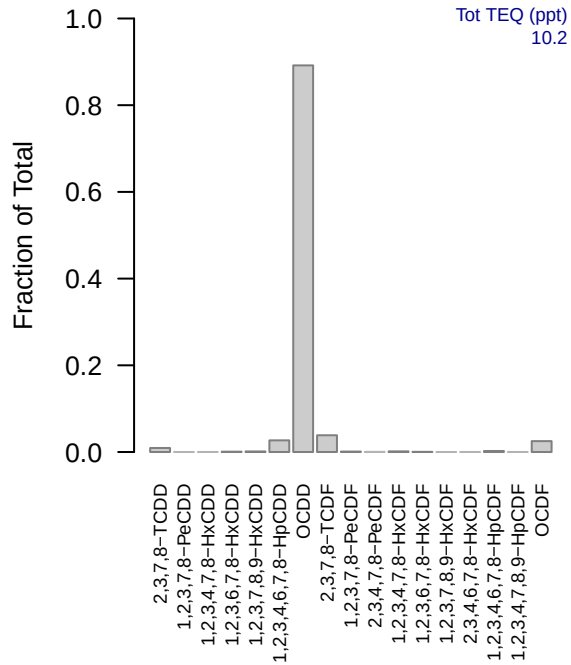

SJE4(0−15 cm)
Tot TEQ (ppt)
5.31
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJE5(0−15 cm)
Tot TEQ (ppt)
2.65
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

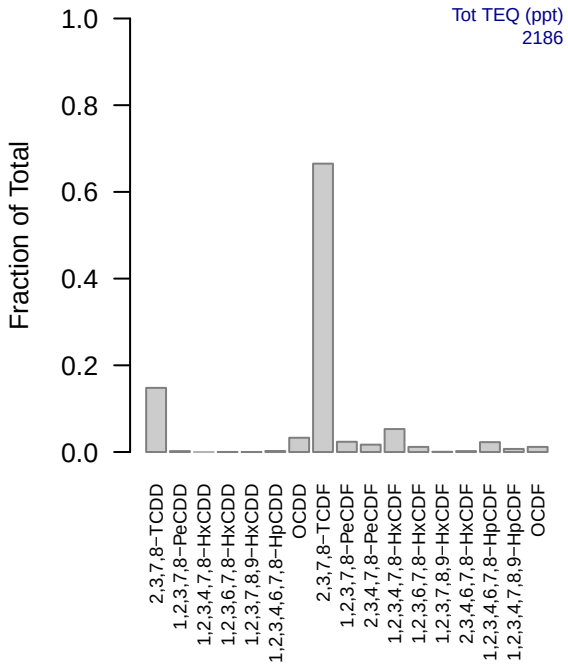

SJGB001(0−15.24 cm)
Tot TEQ (ppt)
620
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJGB001(15.24−30.48 cm)
Tot TEQ (ppt)
2669
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

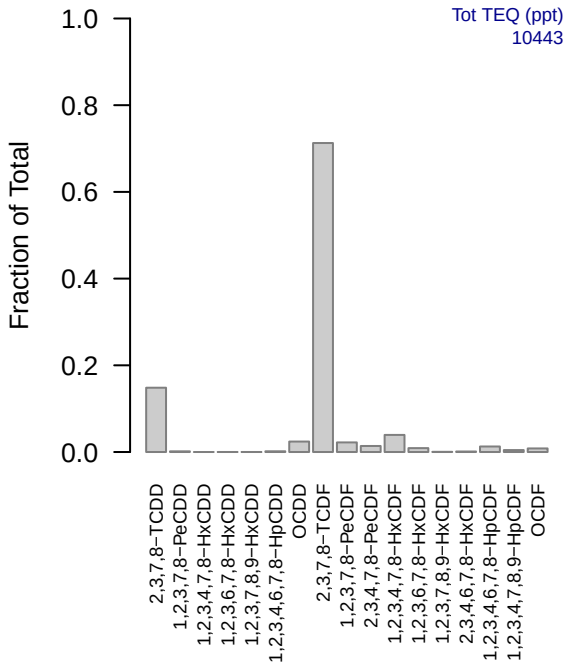

SJGB004(0−15.24 cm)
Tot TEQ (ppt)
12.8
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJGB005(0−15.24 cm)
Tot TEQ (ppt)
10.2
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

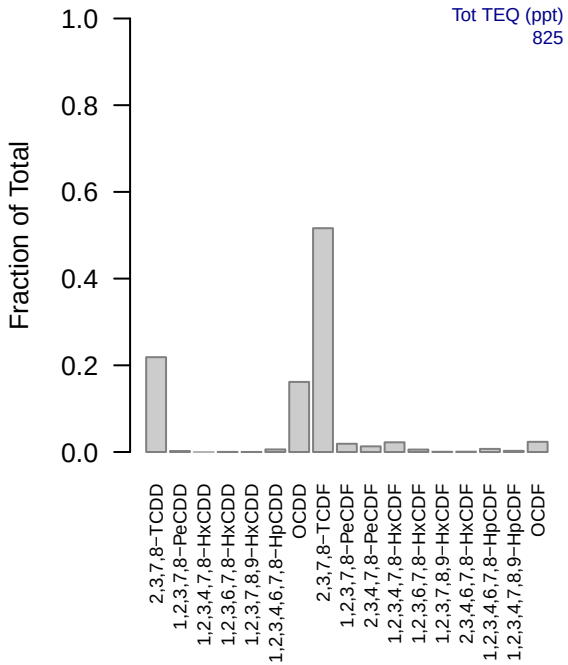
SJGB006(0−15.24 cm)



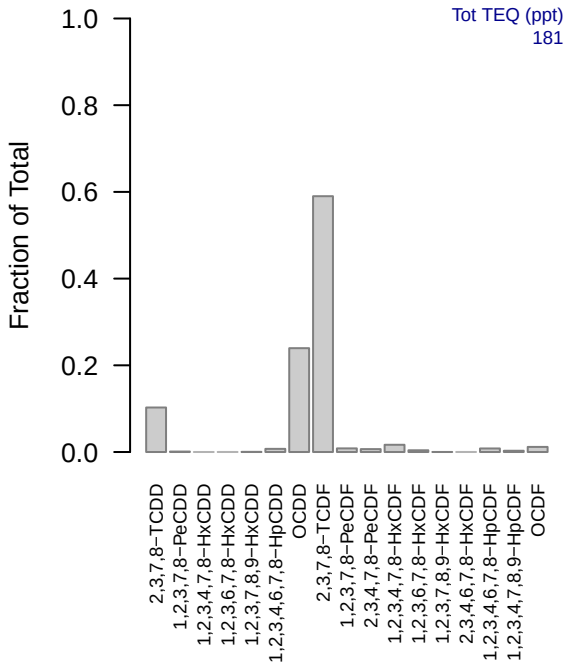
SJGB006(15.24−30.48 cm)



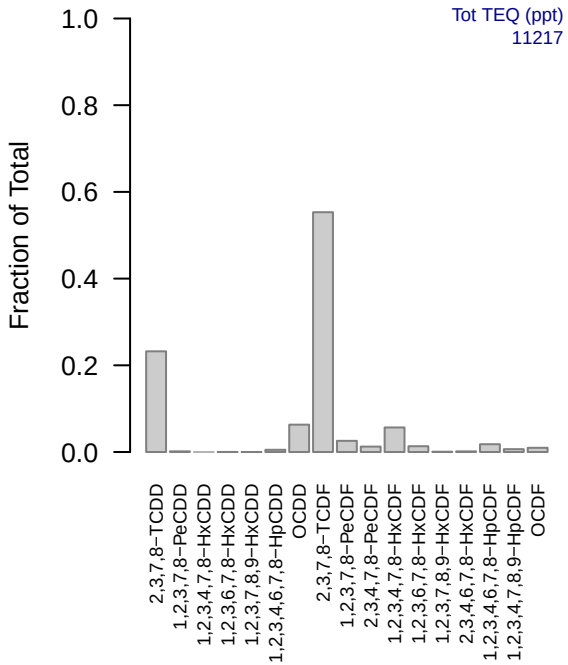
SJGB007(0−15.24 cm)



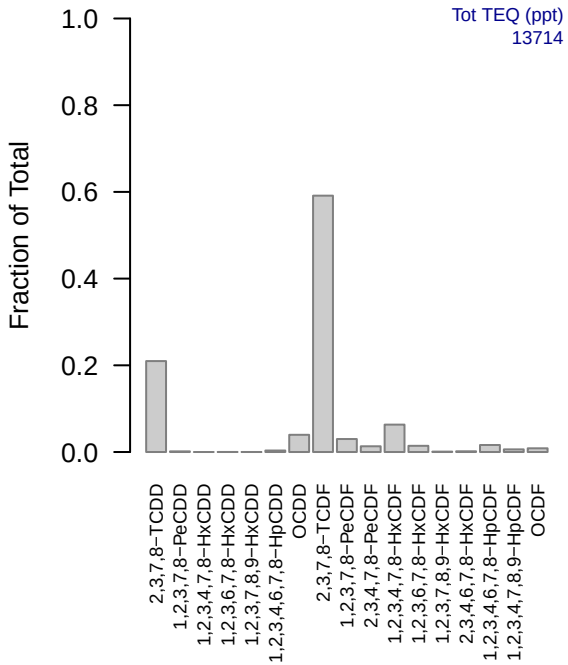
SJGB008(0−15.24 cm)



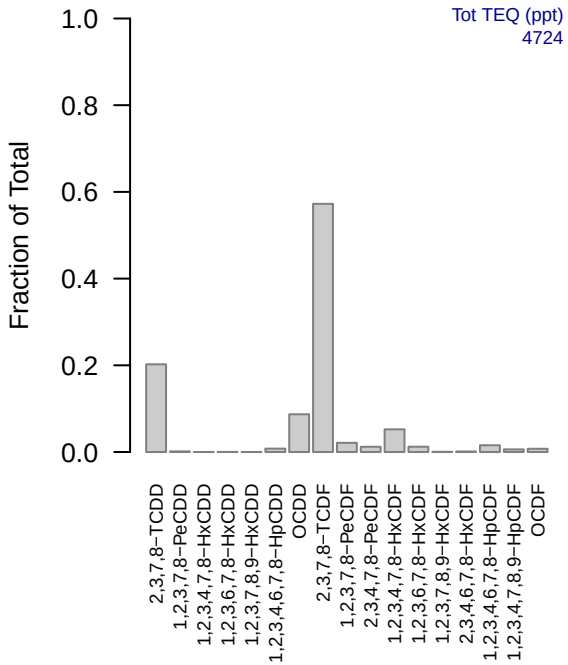
SJGB009(0−15.24 cm)



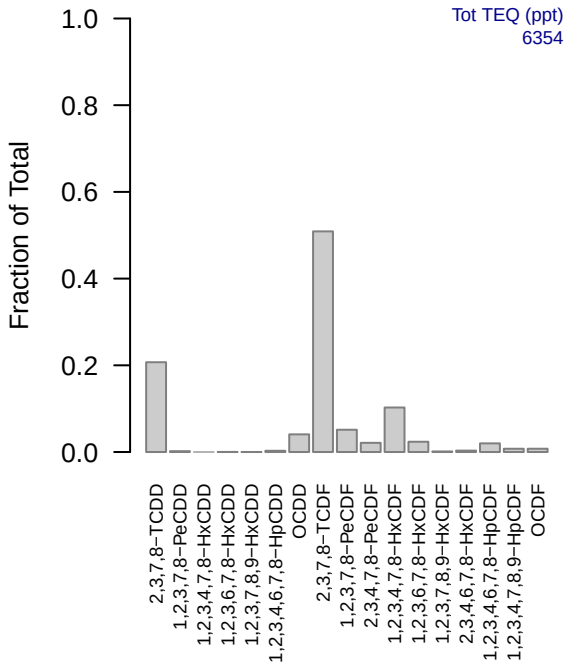
SJGB009(15.24−30.48 cm)



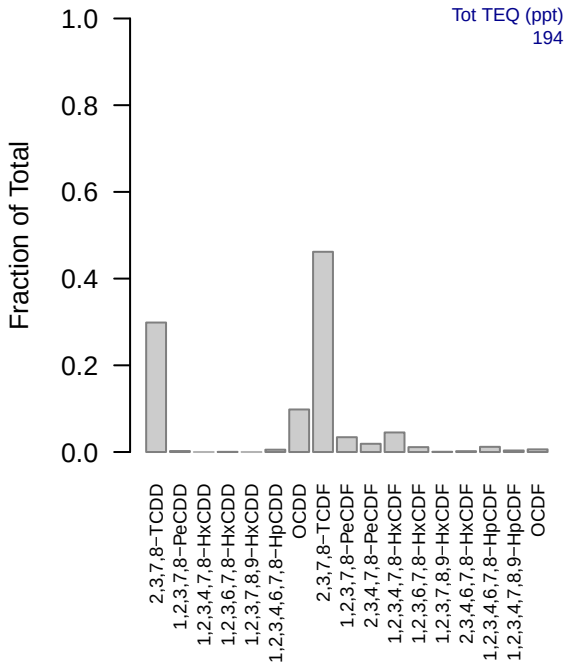
SJGB010(0−60.96 cm)



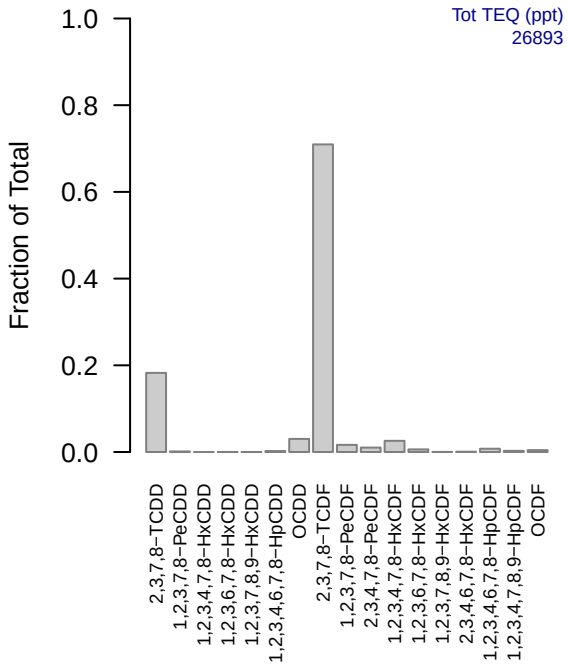
SJGB010(121.92−182.88 cm)



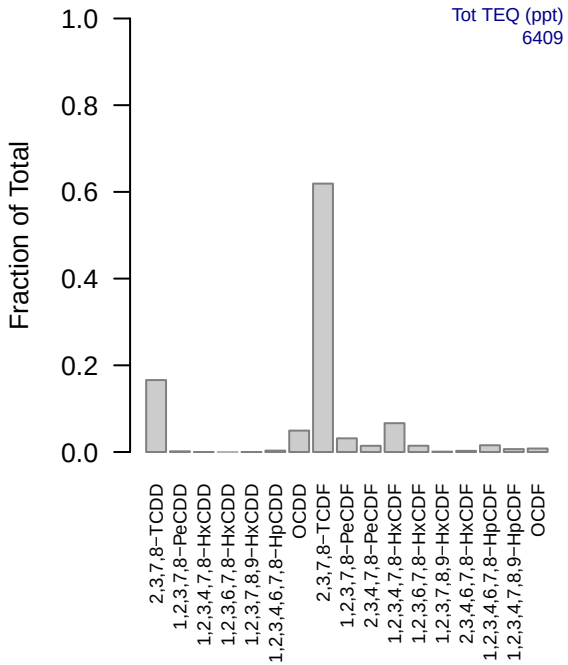
SJGB010(182.88−219.456 cm)



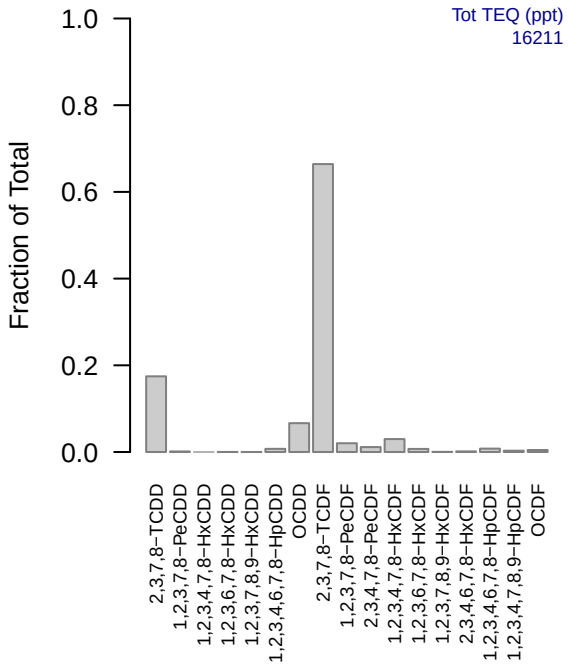
SJGB010(60.96−121.92 cm)

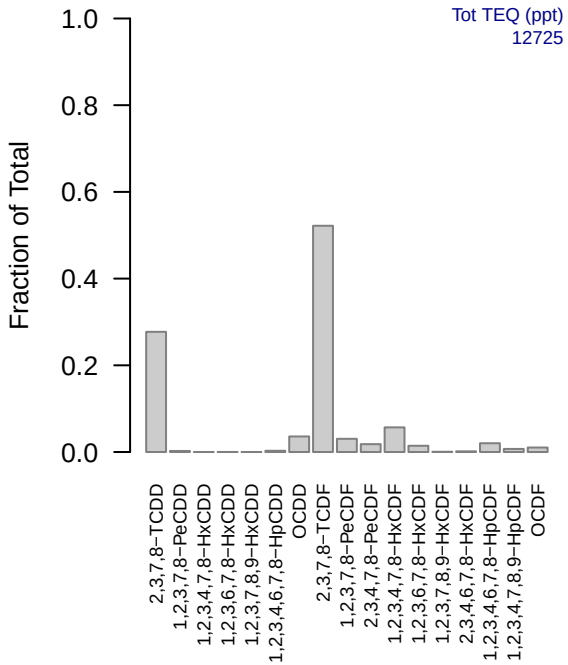


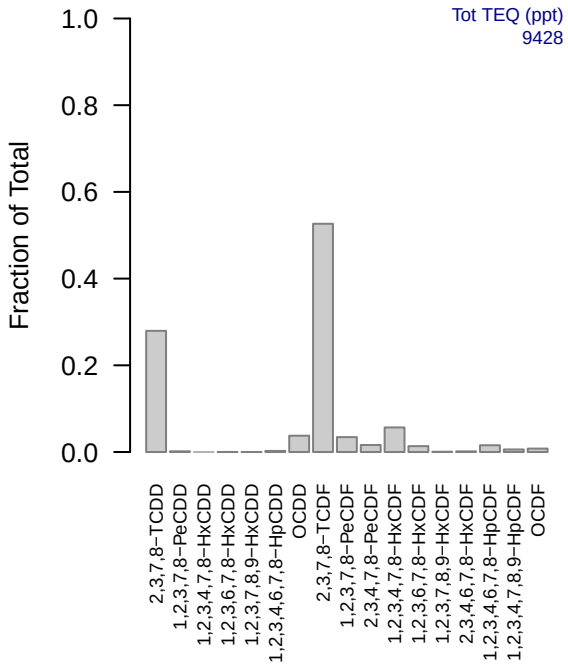
SJGB010(0−15.24 cm)

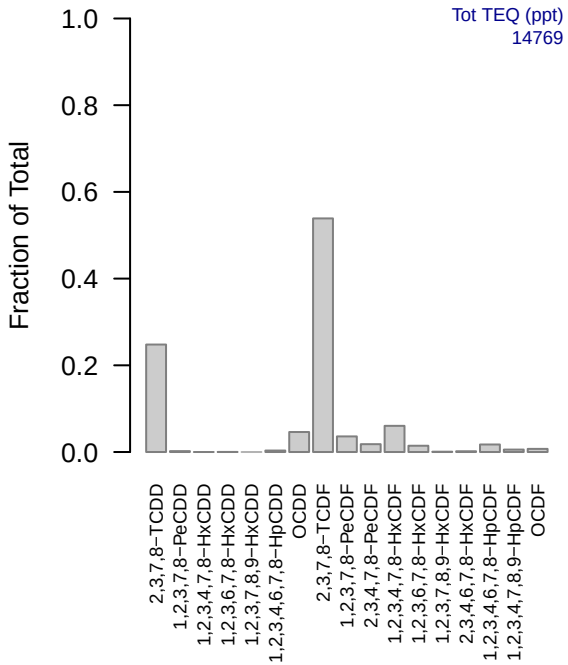


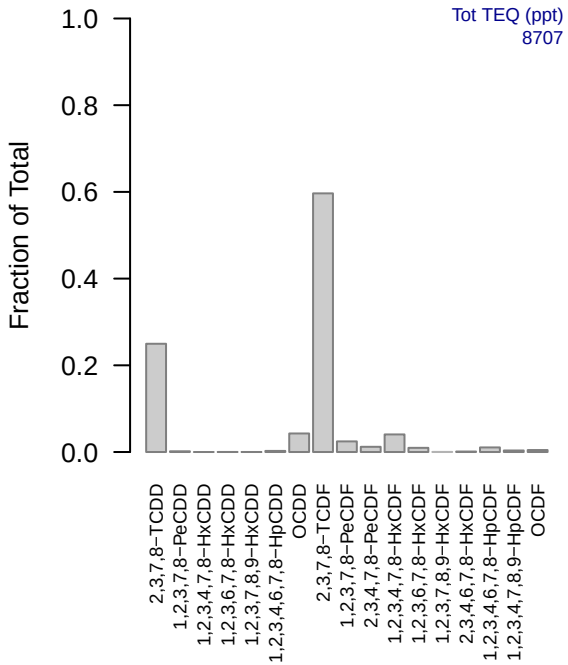
SJGB010(15.24−30.48 cm)



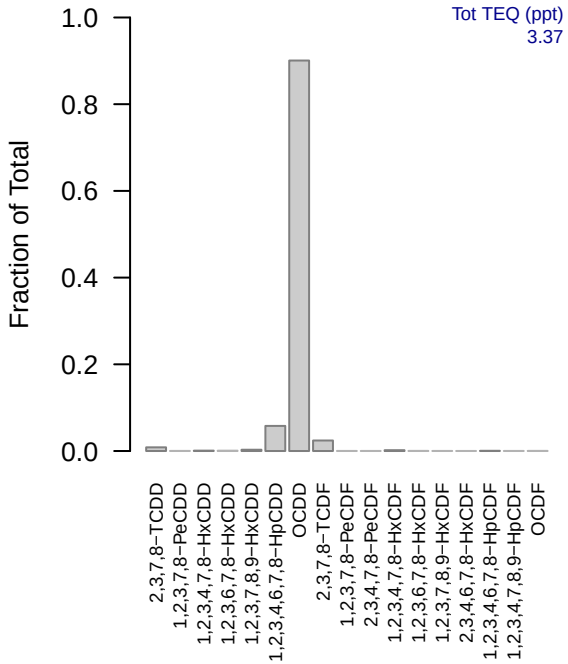

SJGB011(0−60.96 cm)
Tot TEQ (ppt)
12725
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJGB011(121.92−182.88 cm)
Tot TEQ (ppt)
9428
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

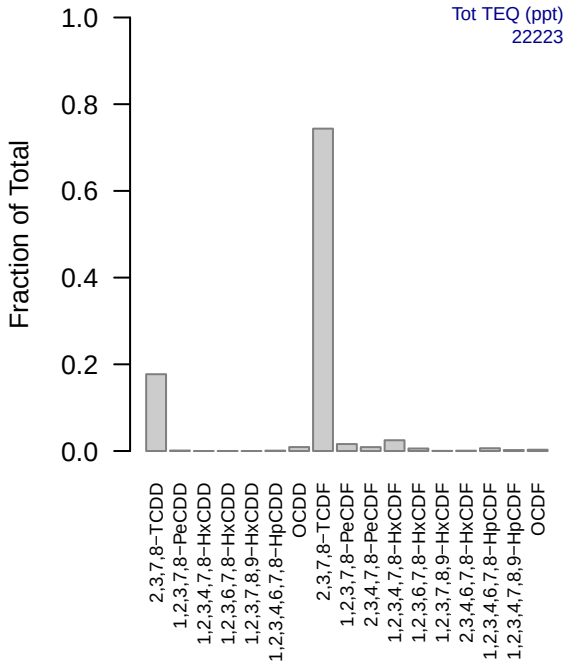

SJGB011(182.88−243.84 cm)
Tot TEQ (ppt)
14769
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJGB011(243.84−304.8 cm)
Tot TEQ (ppt)
8707
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

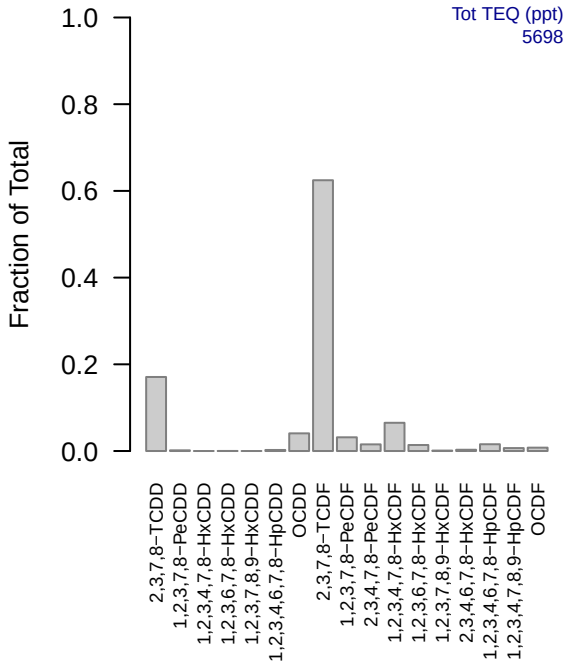
SJGB011(304.8−350.52 cm)



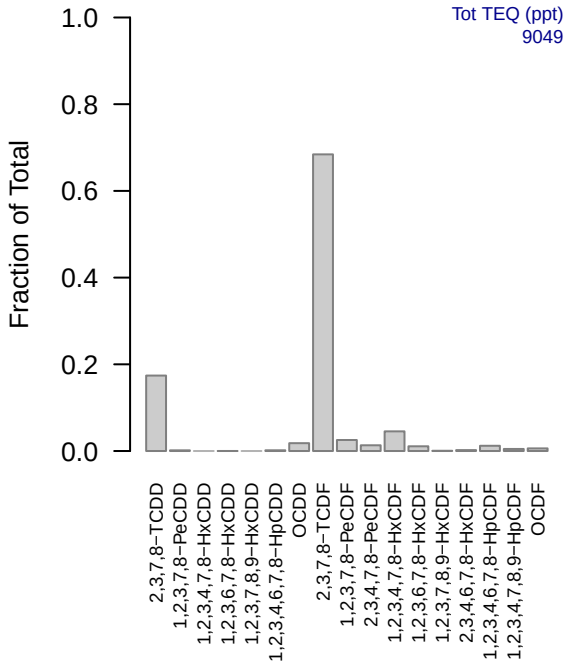
SJGB011(60.96−121.92 cm)

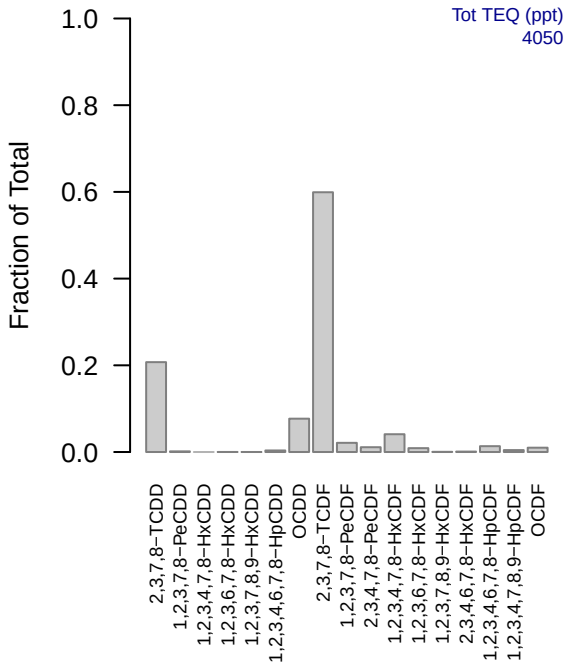


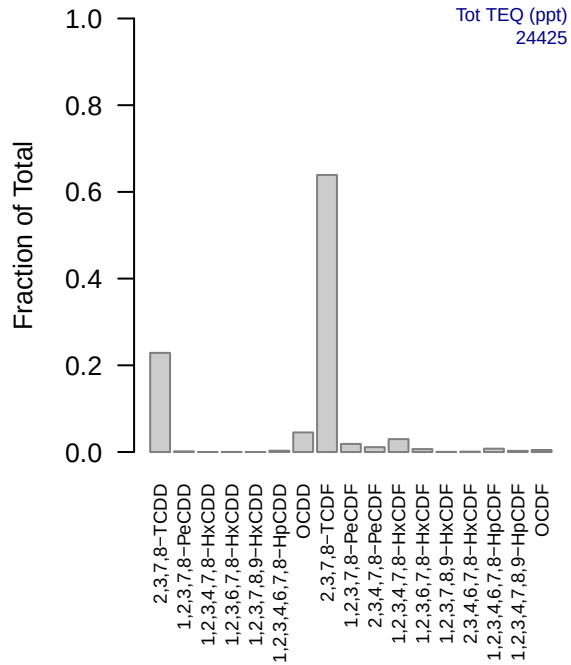
SJGB011(0−15.24 cm)

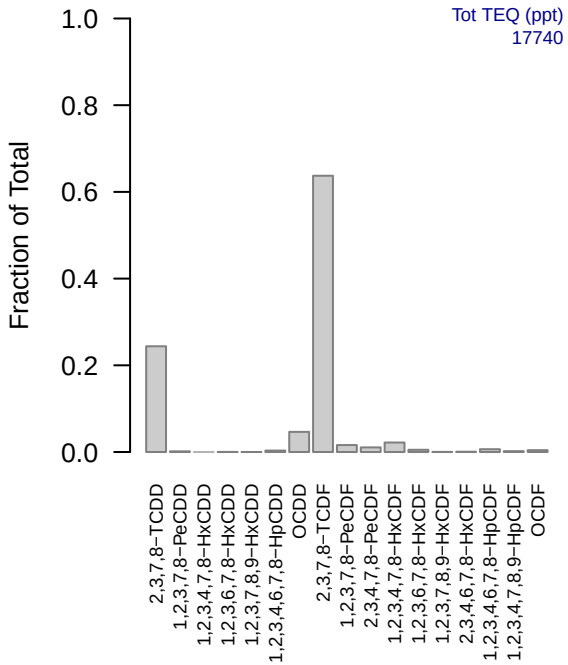


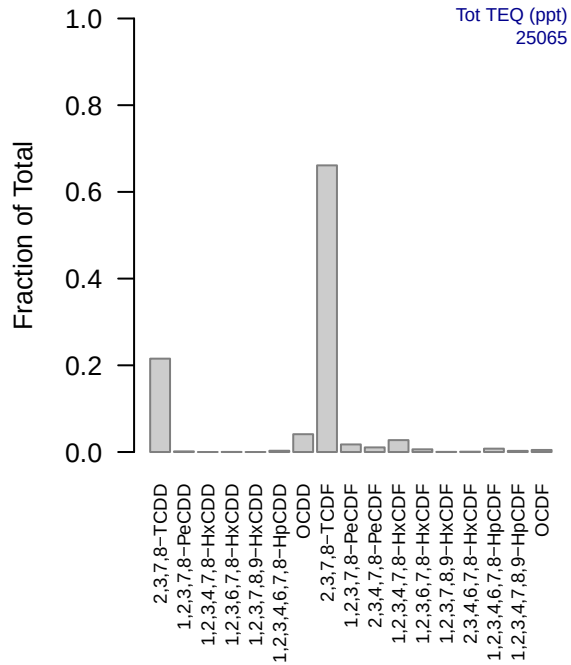
SJGB011(15.24−30.48 cm)



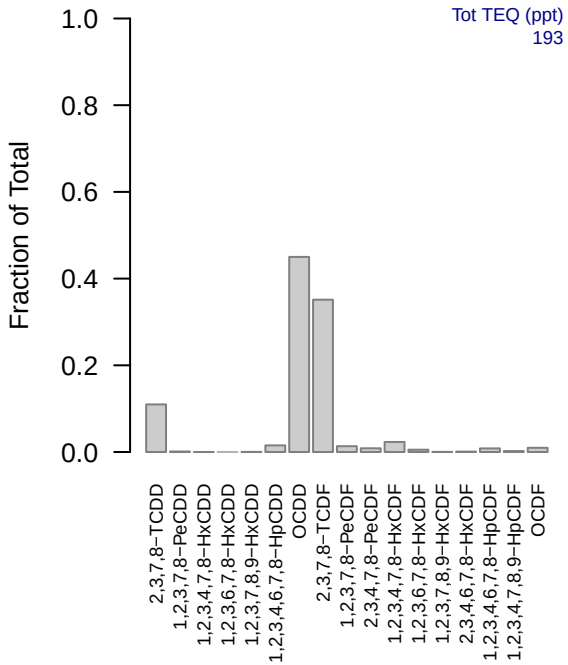

SJGB012(0−60.96 cm)
Tot TEQ (ppt)
4050
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJGB012(121.92−182.88 cm)
Tot TEQ (ppt)
24425
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

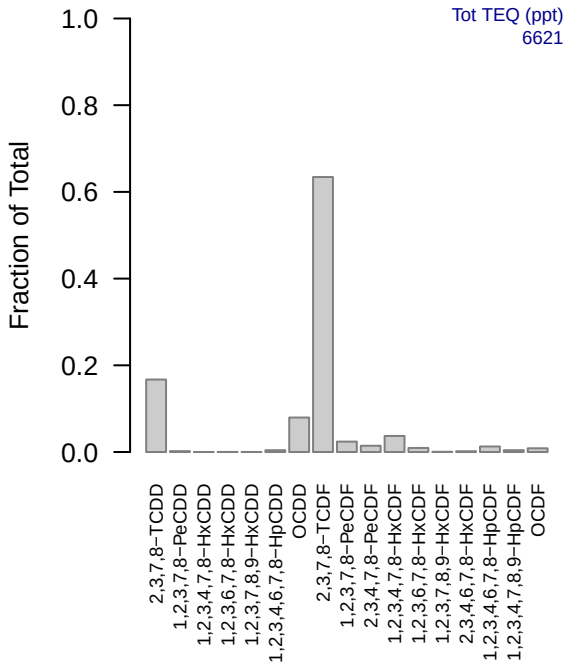

SJGB012(182.88−243.84 cm)
Tot TEQ (ppt)
17740
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJGB012(60.96−121.92 cm)
Tot TEQ (ppt)
25065
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

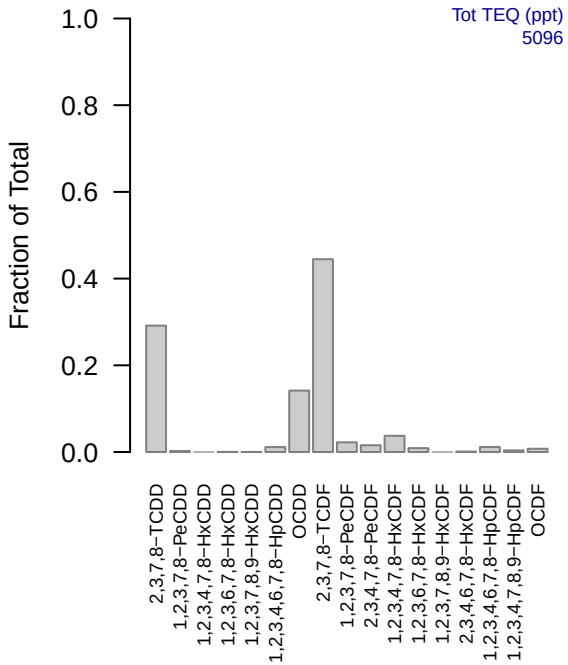
SJGB012(0−15.24 cm)



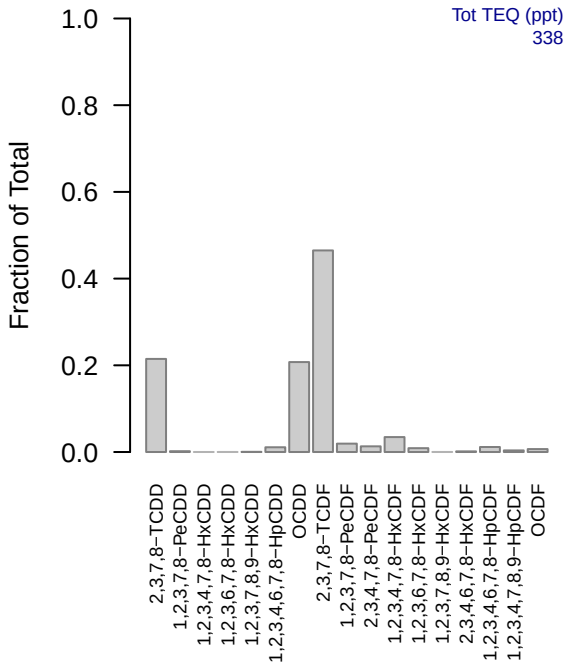
SJGB012(15.24−30.48 cm)



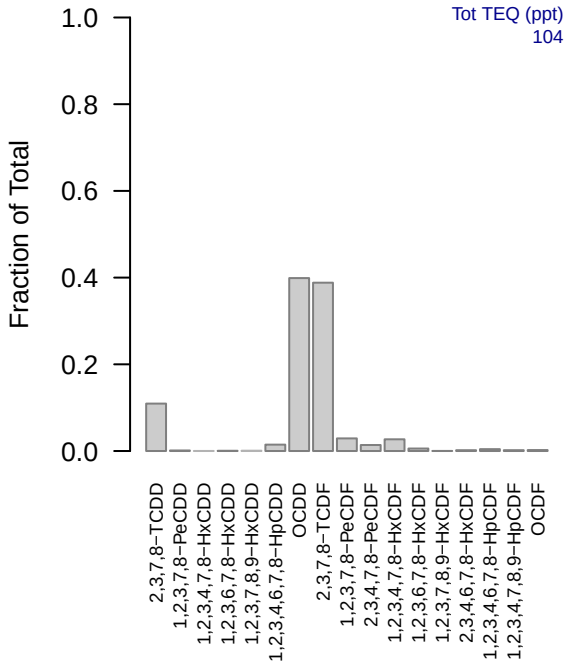
SJGB013(0−60.96 cm)



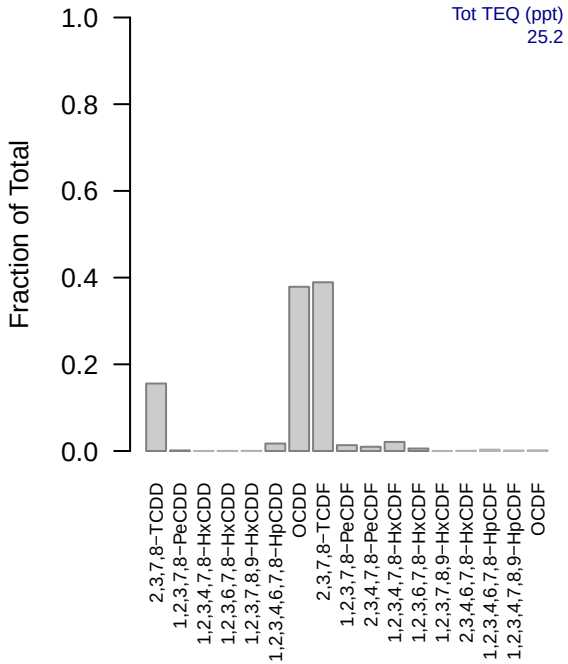
SJGB013(121.92−182.88 cm)



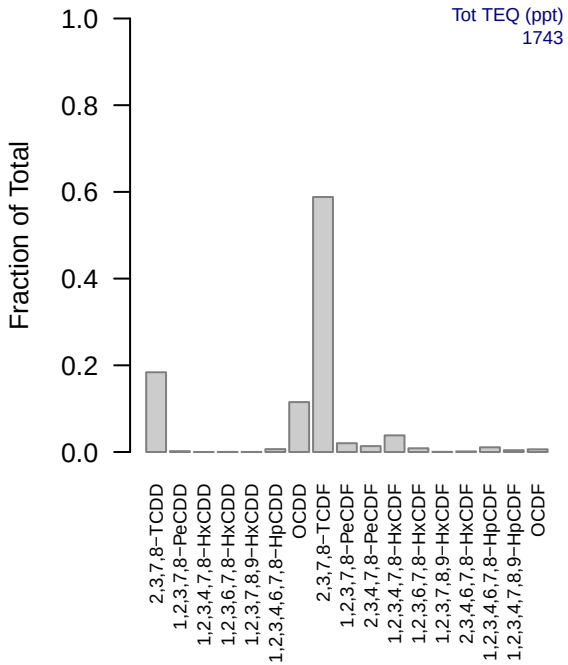
SJGB013(182.88−243.84 cm)



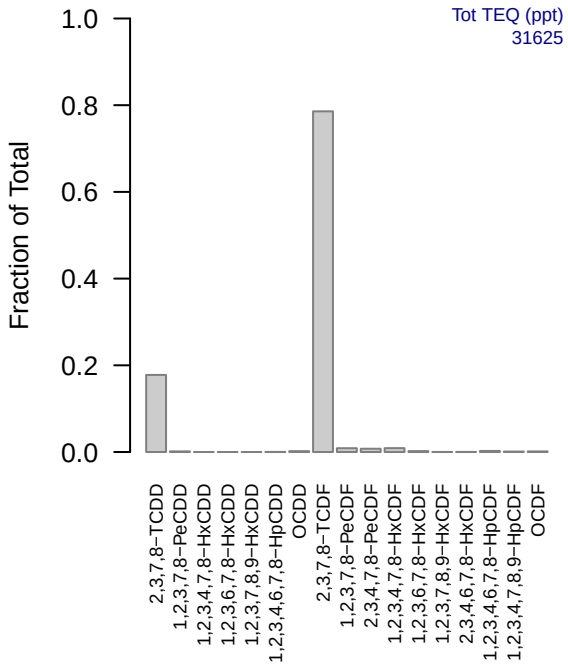
SJGB013(243.84−304.8 cm)



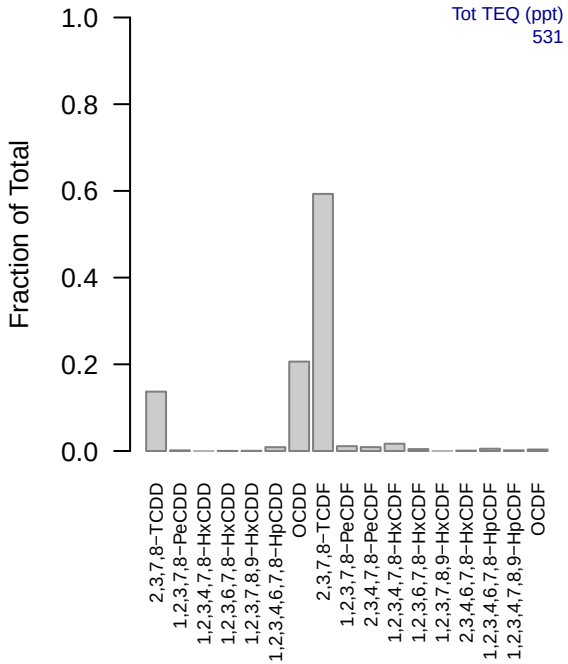
SJGB013(60.96−121.92 cm)



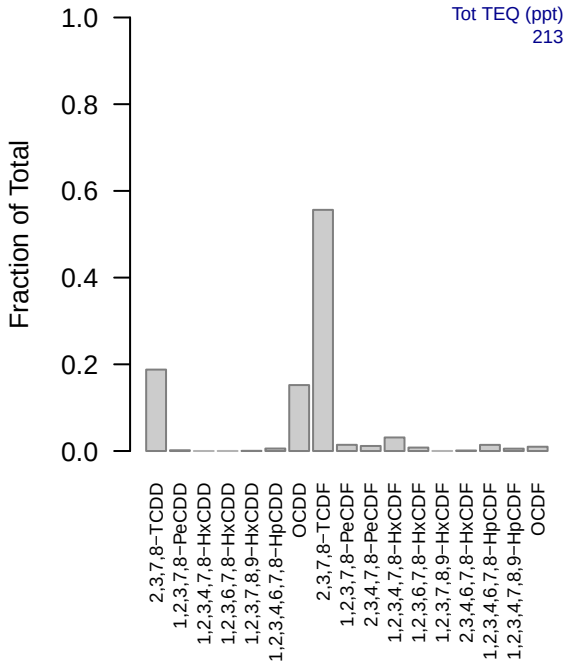
SJGB014(0−60.96 cm)



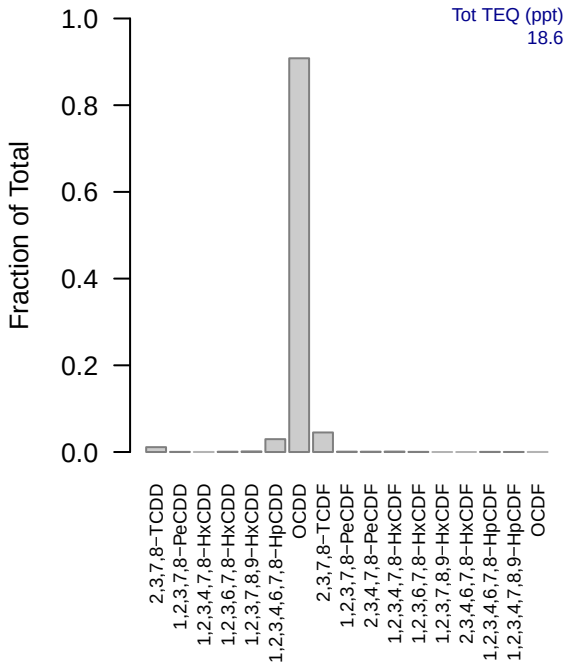
SJGB014(121.92−182.88 cm)



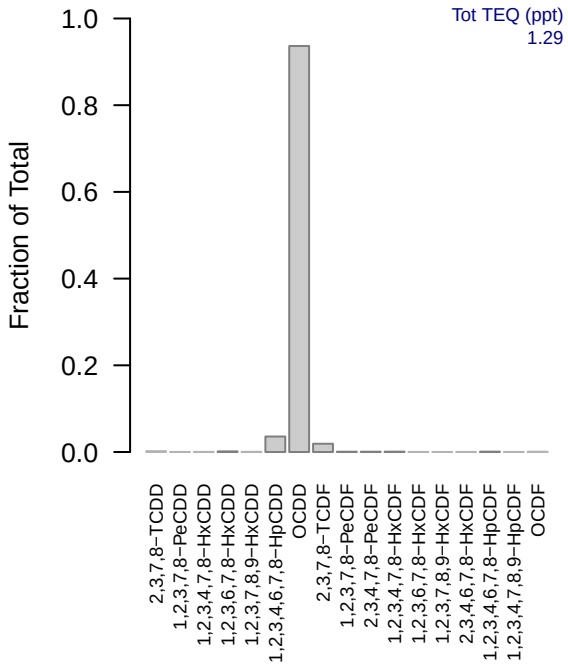
SJGB014(182.88−243.84 cm)



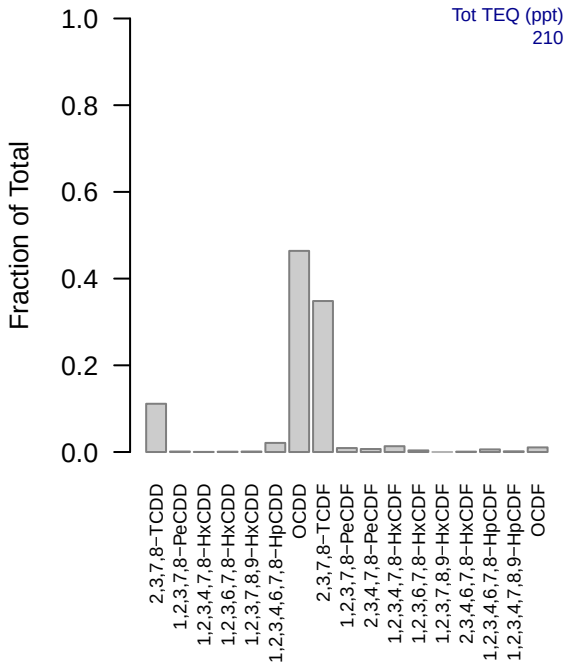
SJGB014(243.84−304.8 cm)



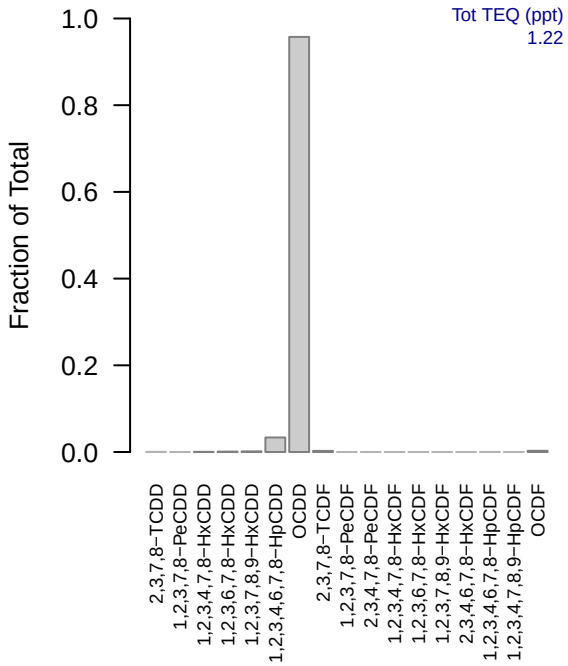
SJGB014(304.8−365.76 cm)



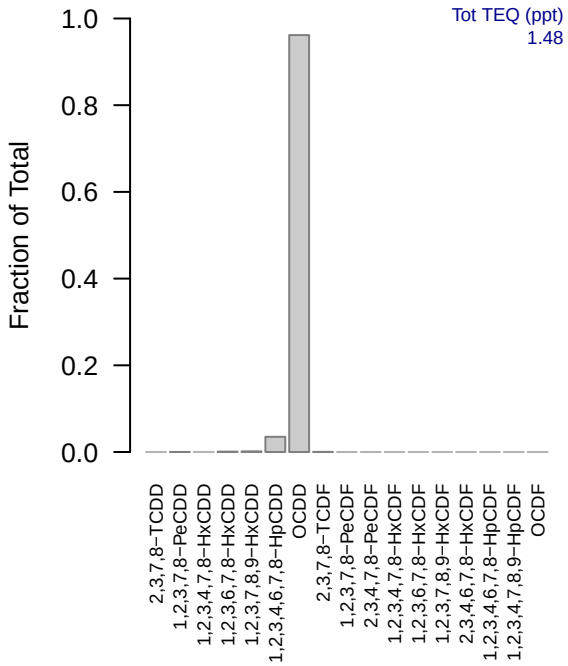
SJGB014(60.96−121.92 cm)



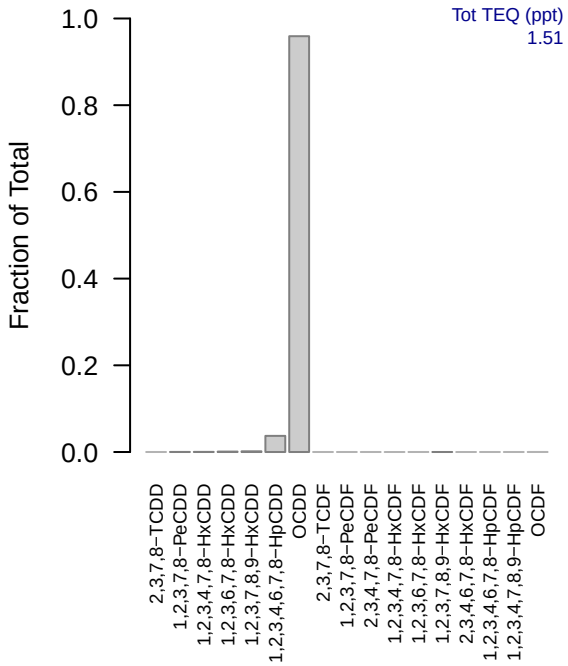
SJGB015(0−60.96 cm)



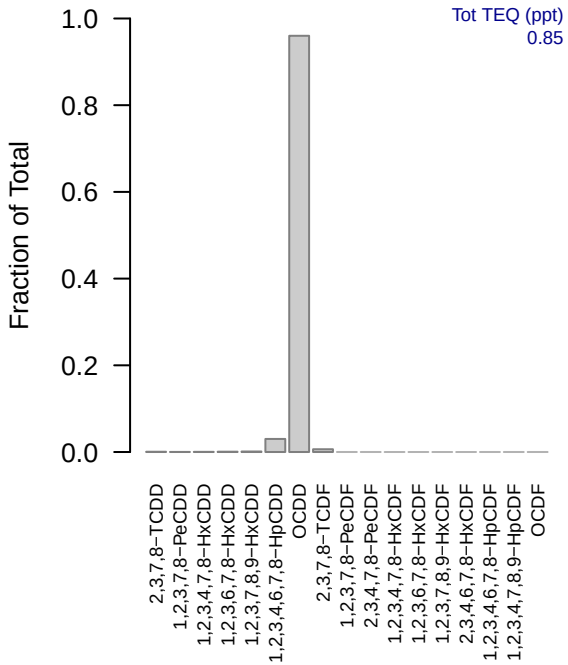
SJGB015(121.92−182.88 cm)



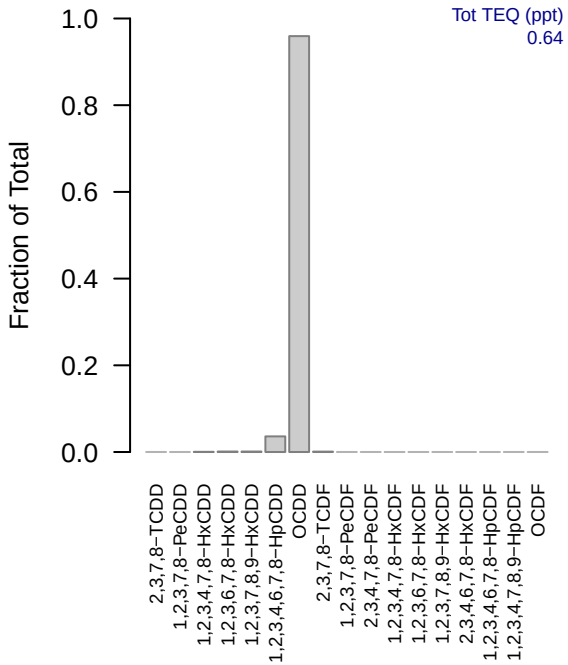
SJGB015(182.88−243.84 cm)



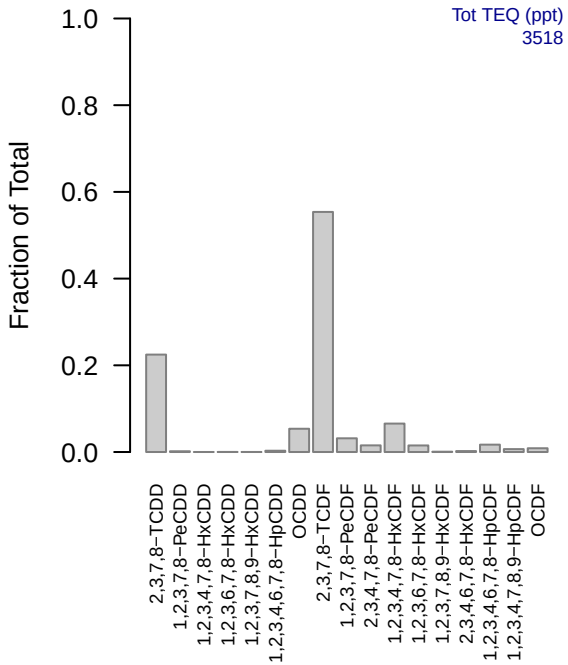
SJGB015(243.84−304.8 cm)



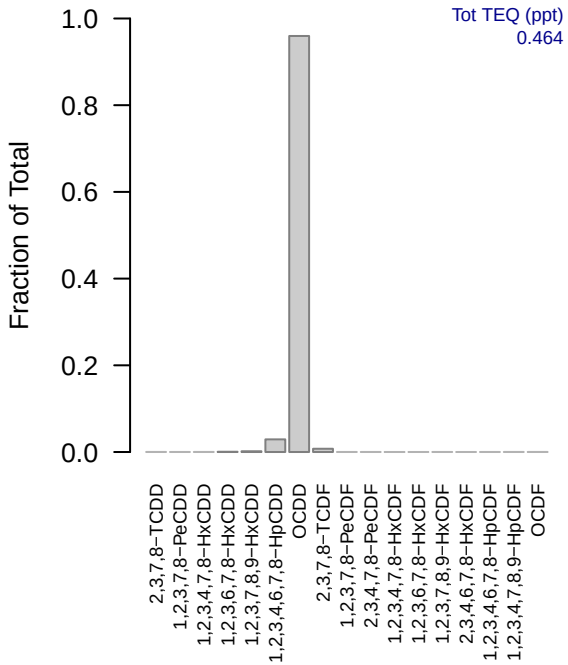
SJGB015(60.96−121.92 cm)



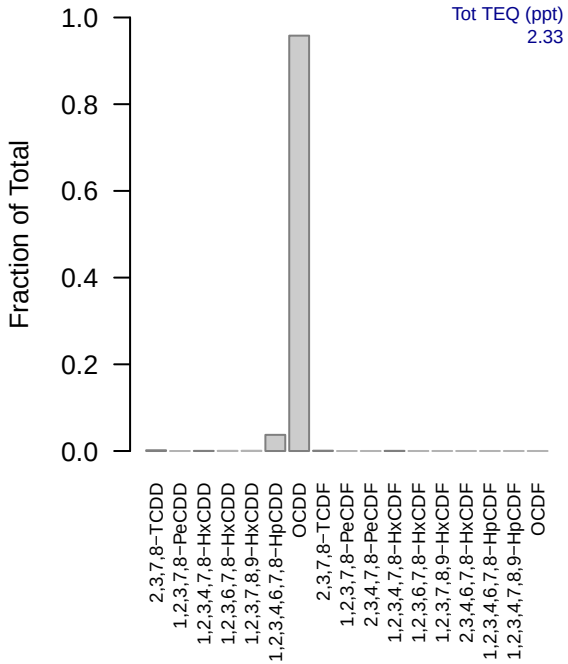
SJGB016(0−60.96 cm)



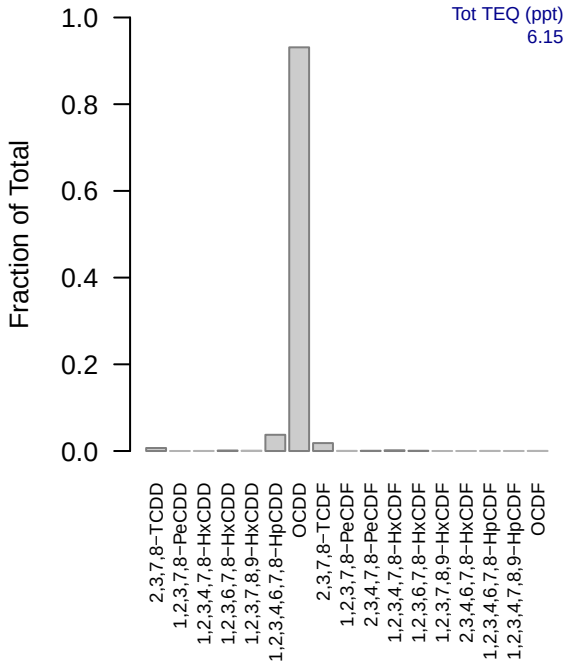
SJGB016(121.92−182.88 cm)



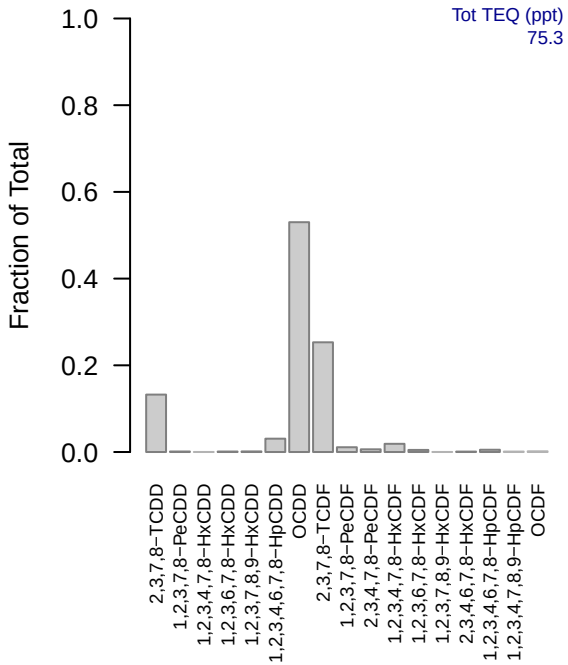
SJGB016(182.88−243.84 cm)



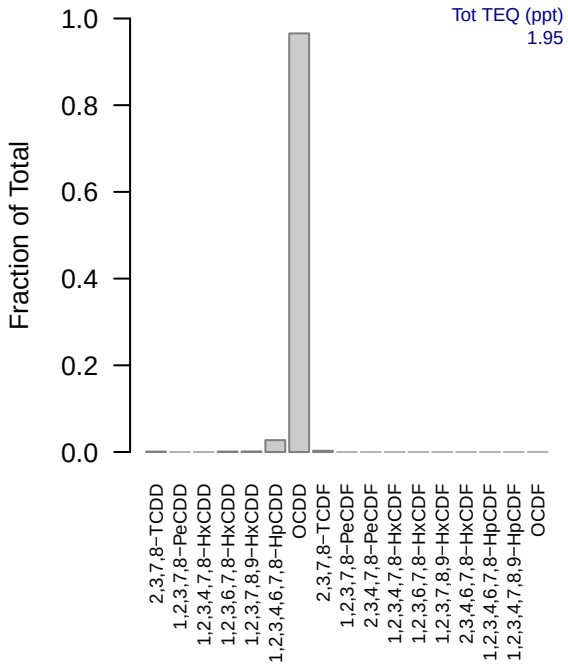
SJGB016(243.84−304.8 cm)



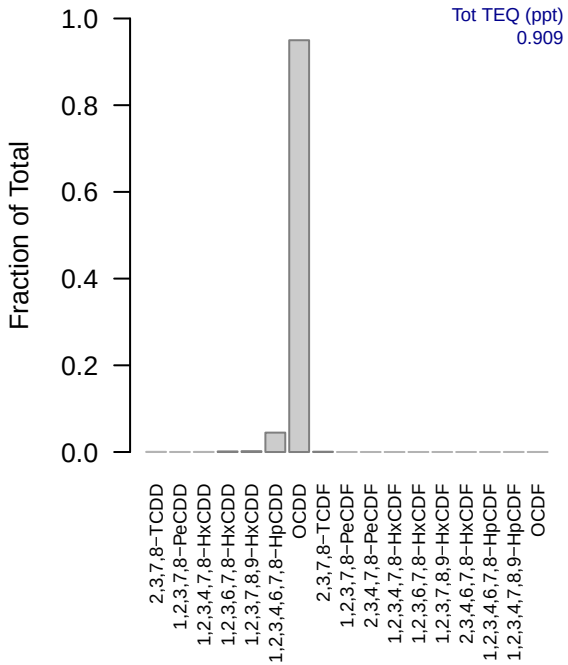
SJGB016(60.96−121.92 cm)



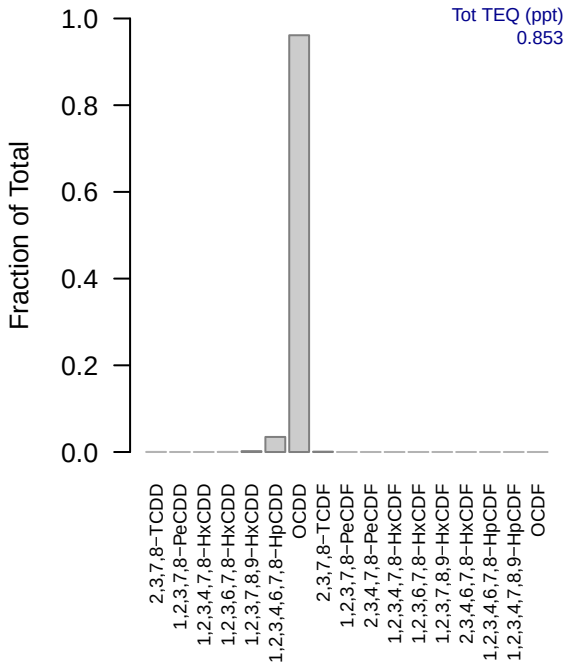
SJGB017(0−60.96 cm)



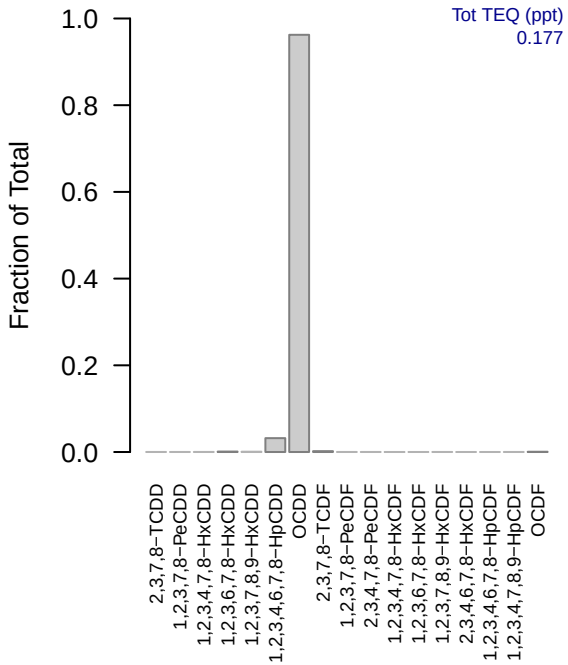
SJGB017(121.92−182.88 cm)



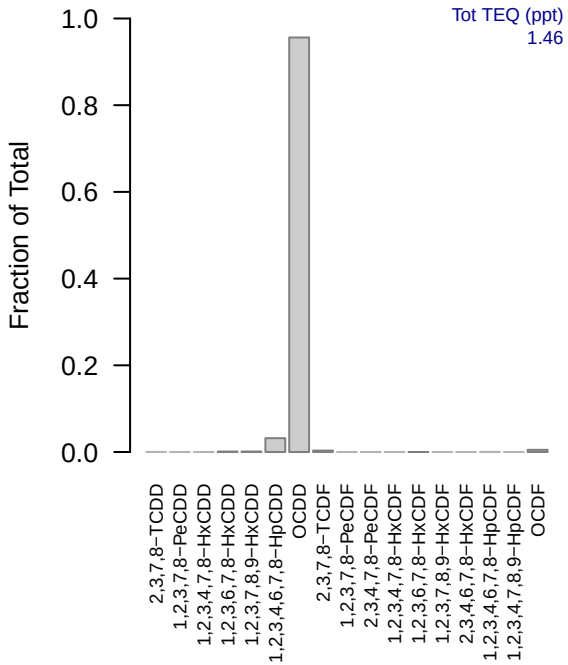
SJGB017(182.88−243.84 cm)

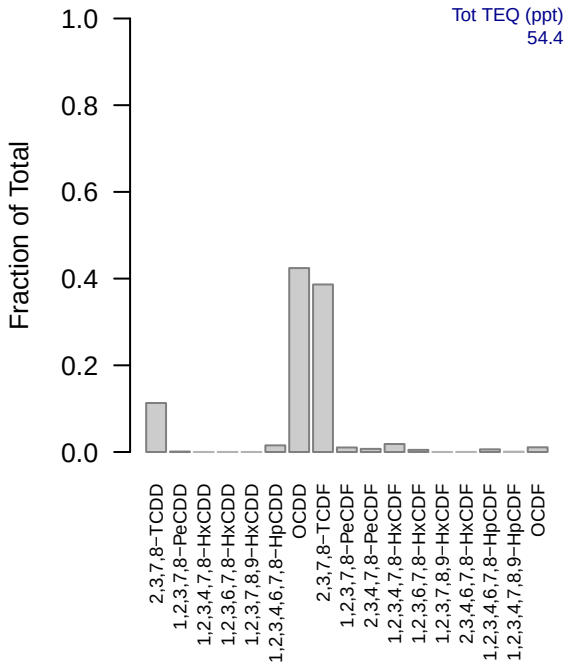


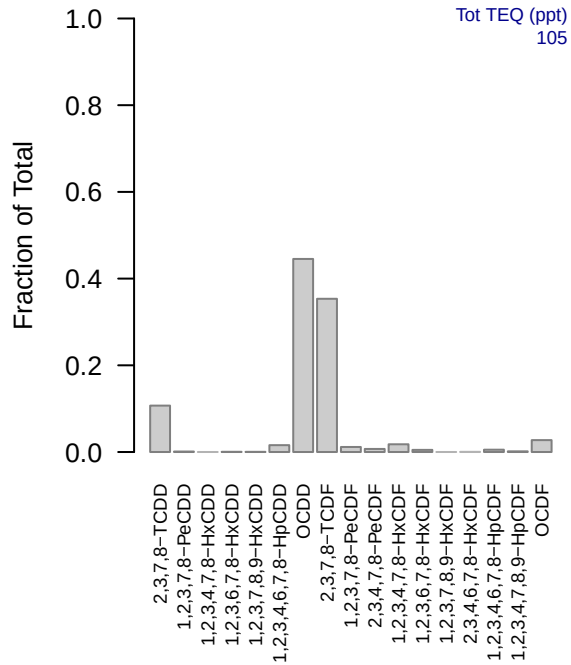
SJGB017(243.84−304.8 cm)

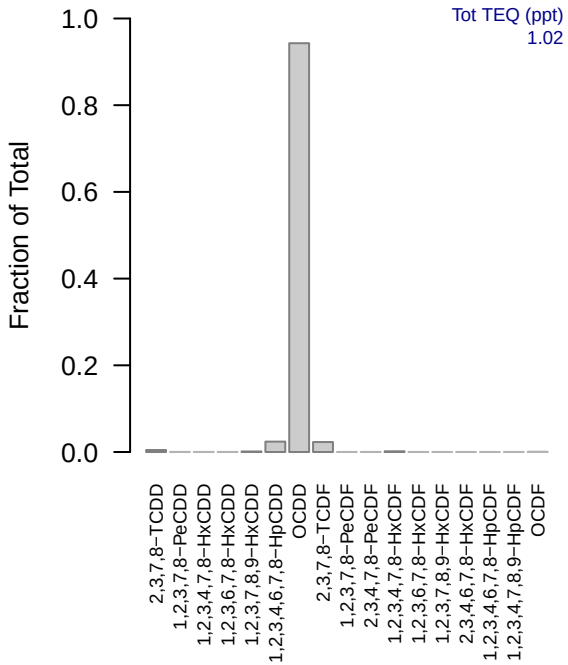


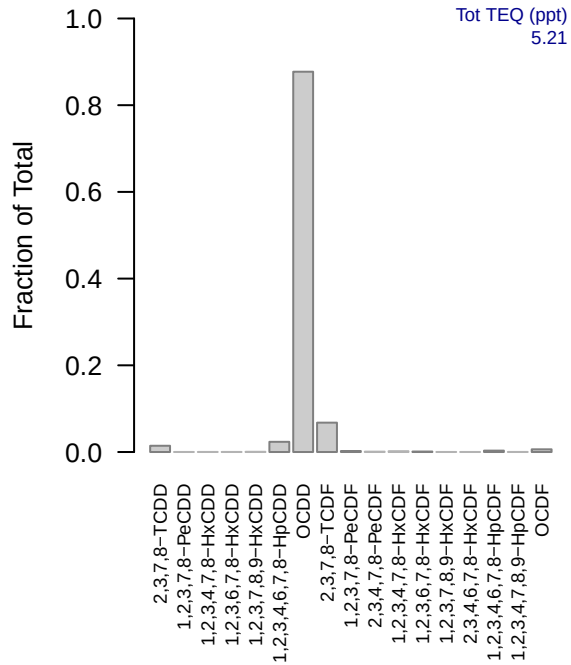
SJGB017(60.96−121.92 cm)



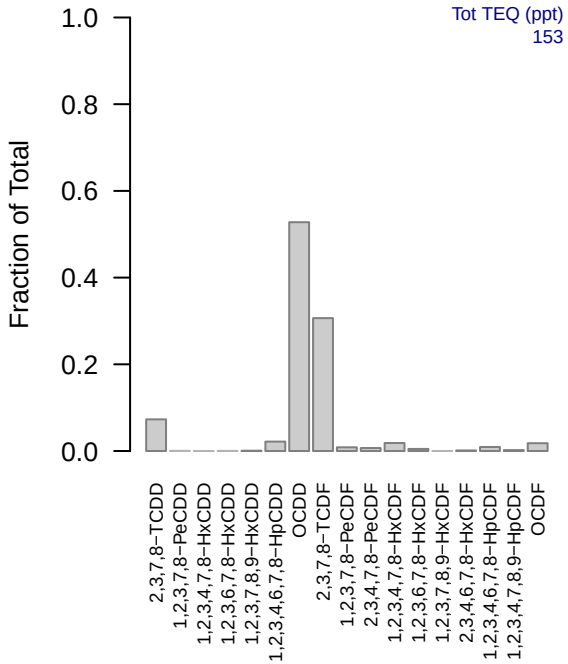

SJMWS01(0−15.24 cm)
Tot TEQ (ppt)
54.4
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJMWS01(15.24−30.48 cm)
Tot TEQ (ppt)
105
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

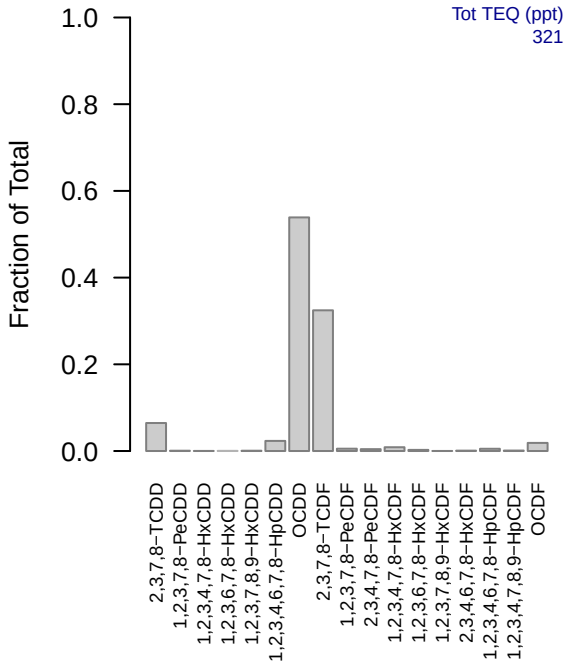

SJMWS02(0−15.24 cm)
Tot TEQ (ppt)
1.02
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJMWS02(15.24−30.48 cm)
Tot TEQ (ppt)
5.21
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

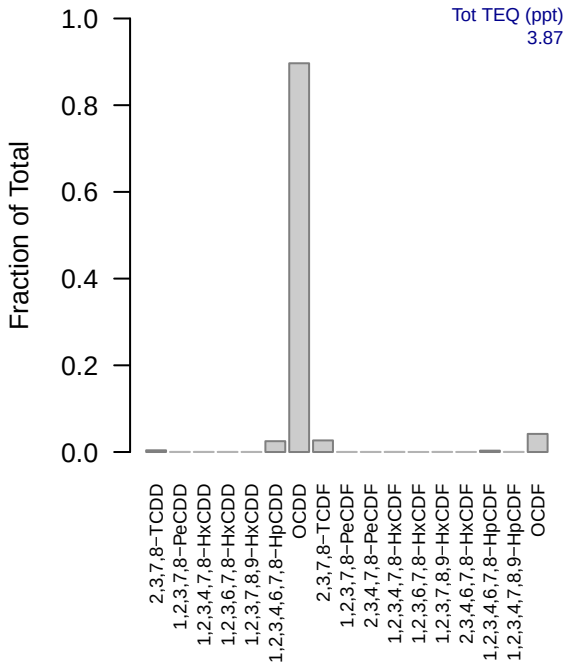
SJMWS03(0−15.24 cm)



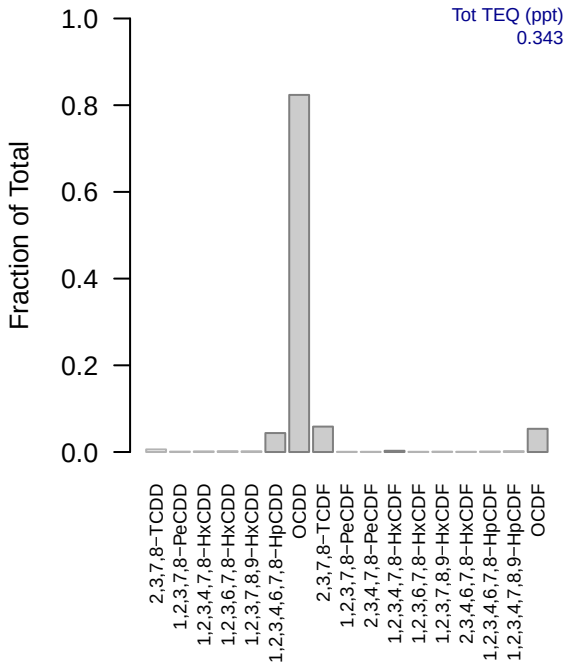
SJMWS03(15.24−30.48 cm)

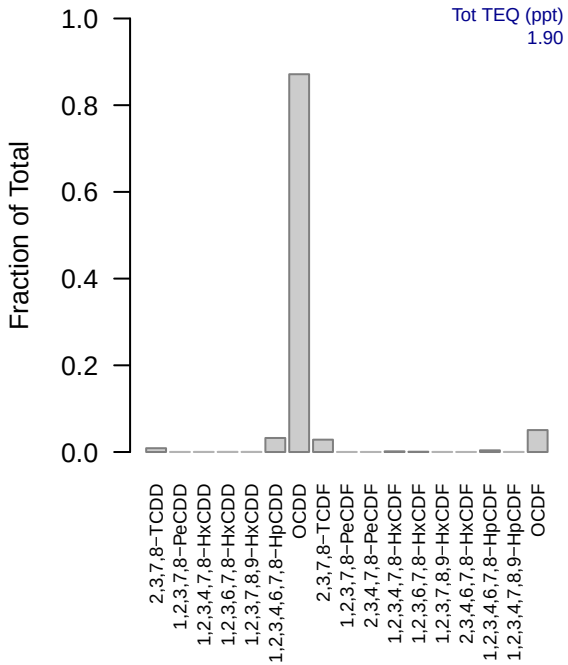


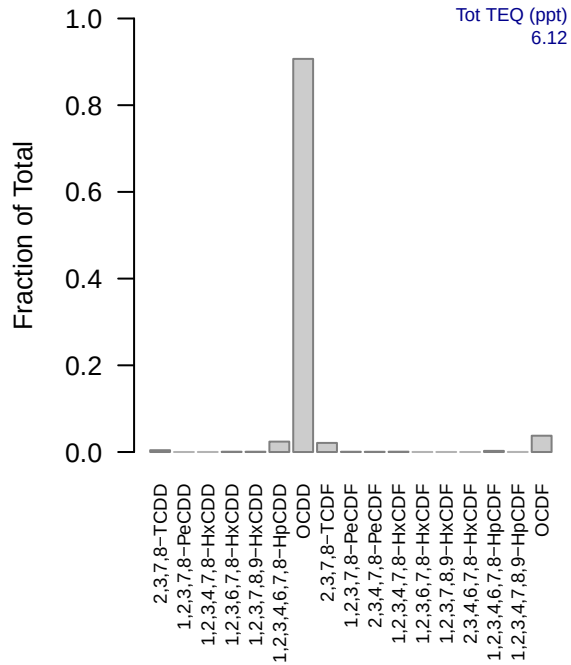
SJNE001(0−15.24 cm)

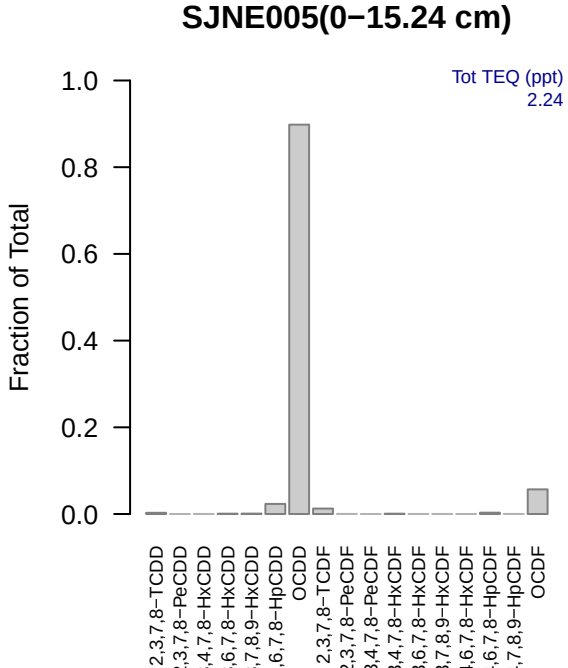


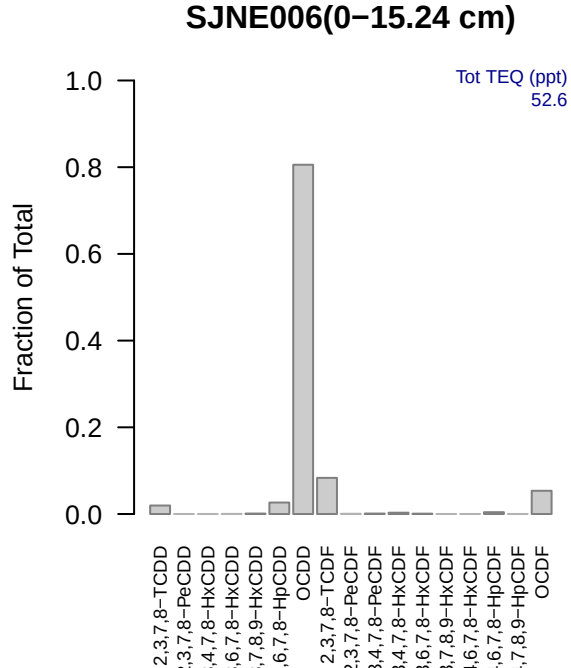
SJNE002(0−15.24 cm)



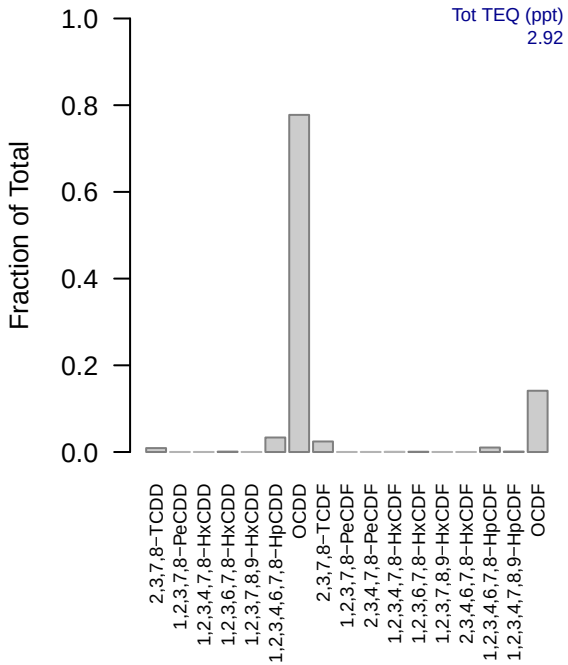

SJNE003(0−15.24 cm)
Tot TEQ (ppt)
1.90
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE004(0−15.24 cm)
Tot TEQ (ppt)
6.12
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

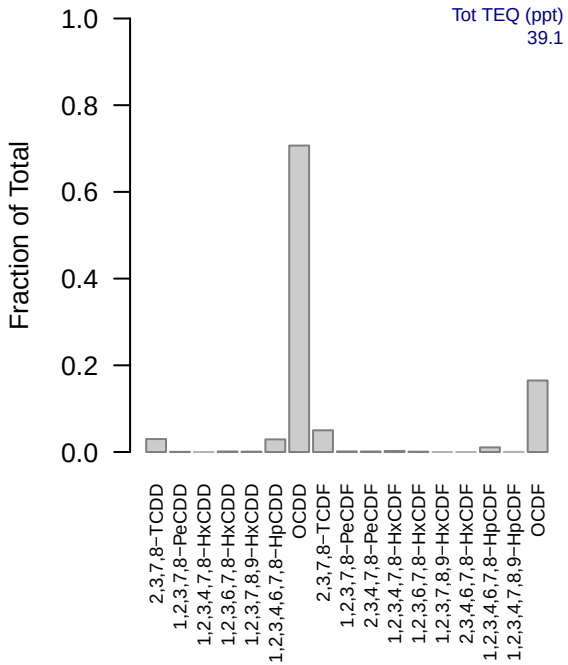

SJNE005(0−15.24 cm)
Tot TEQ (ppt)
2.24
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE006(0−15.24 cm)
Tot TEQ (ppt)
52.6
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

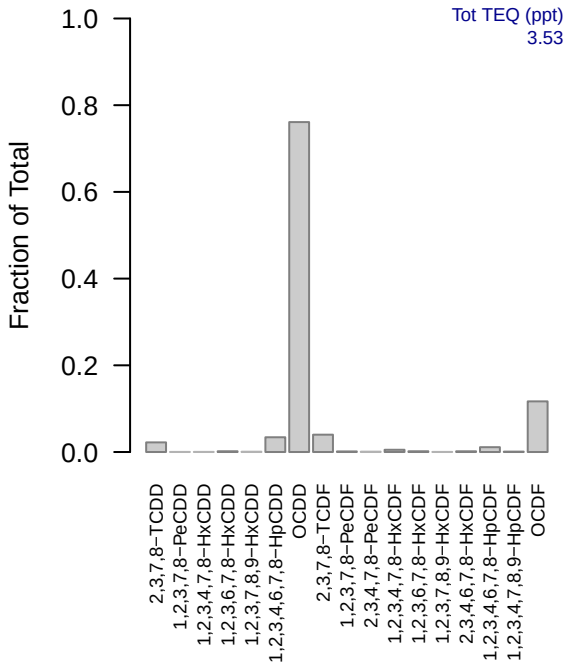
SJNE007_Core(0−30.48 cm)



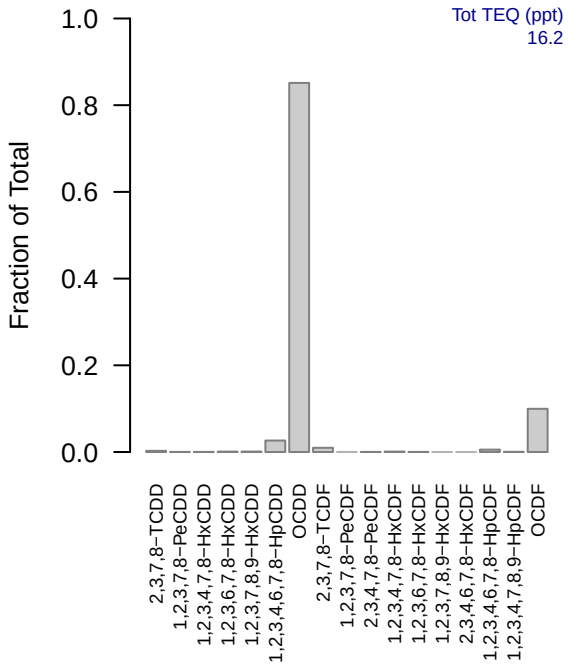
SJNE007_Core(121.92−152.4 cm)



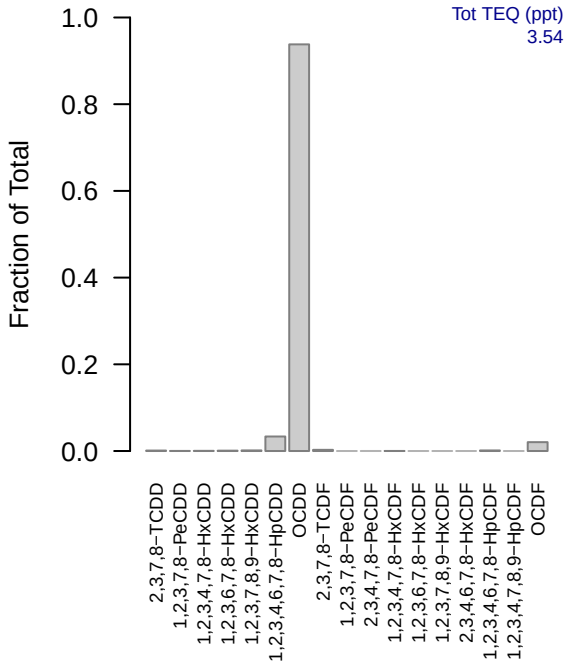
SJNE007_Core(152.4−182.88 cm)



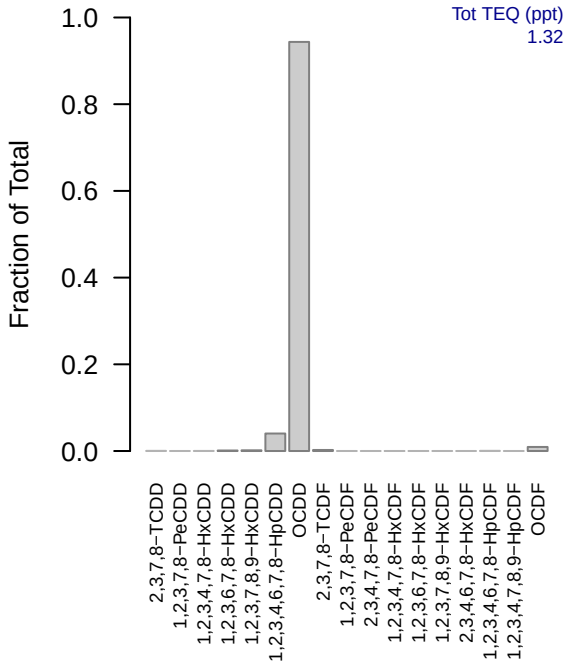
SJNE007_Core(182.88−213.36 cm)



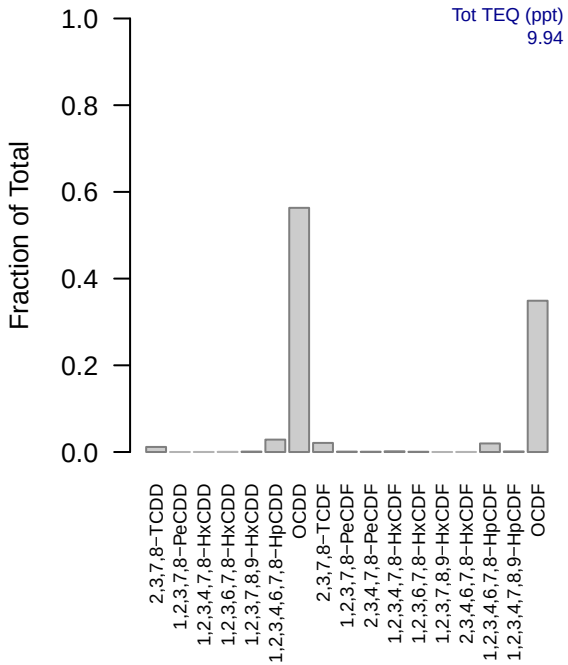
SJNE007_Core(213.36−243.84 cm)



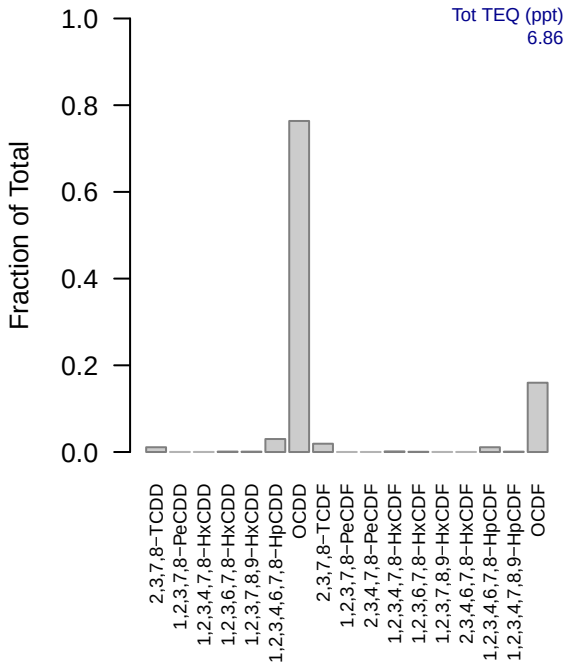
SJNE007_Core(243.84−274.32 cm)



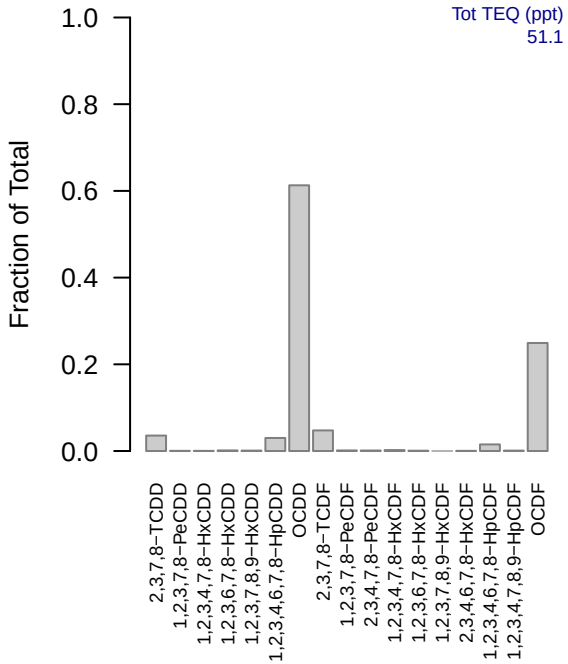
SJNE007_Core(30.48−60.96 cm)



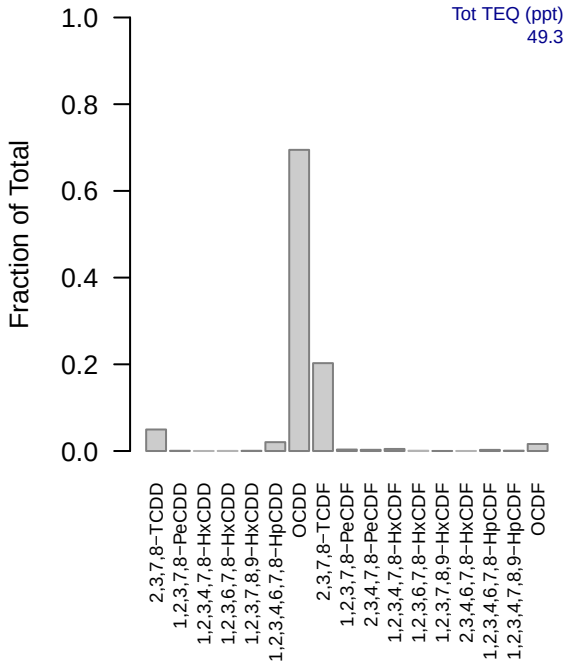
SJNE007_Core(60.96−91.44 cm)



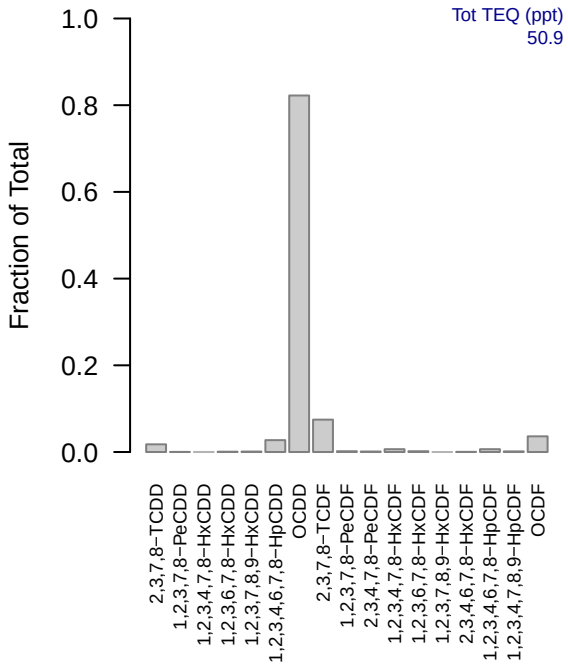
SJNE007_Core(91.44−121.92 cm)



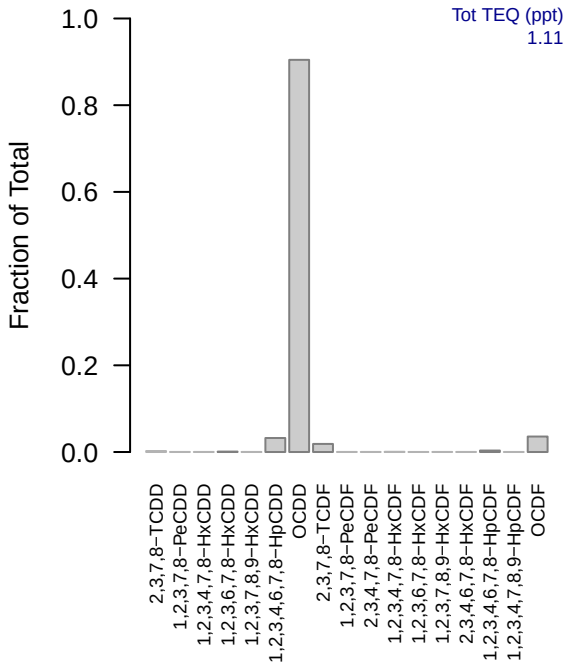
SJNE007_Grab(0−15.24 cm)



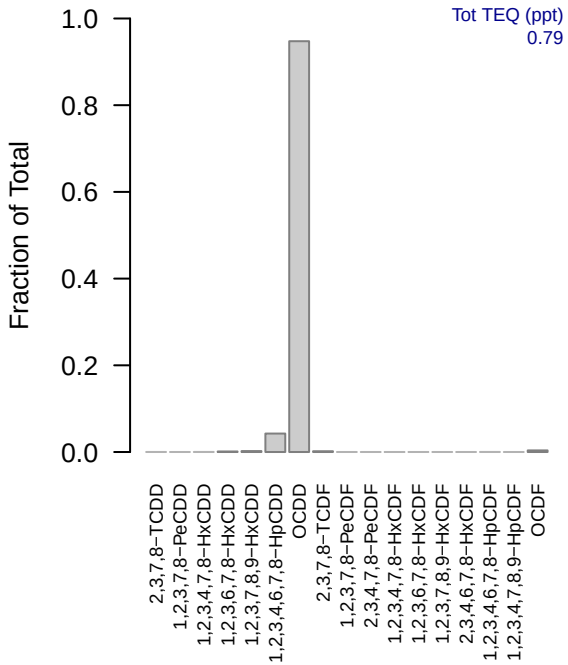
SJNE008(0−15.24 cm)



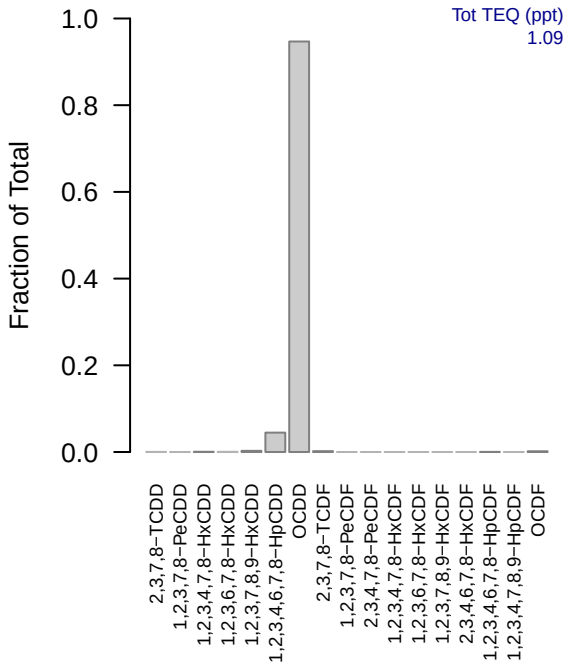
SJNE008(0−30.48 cm)



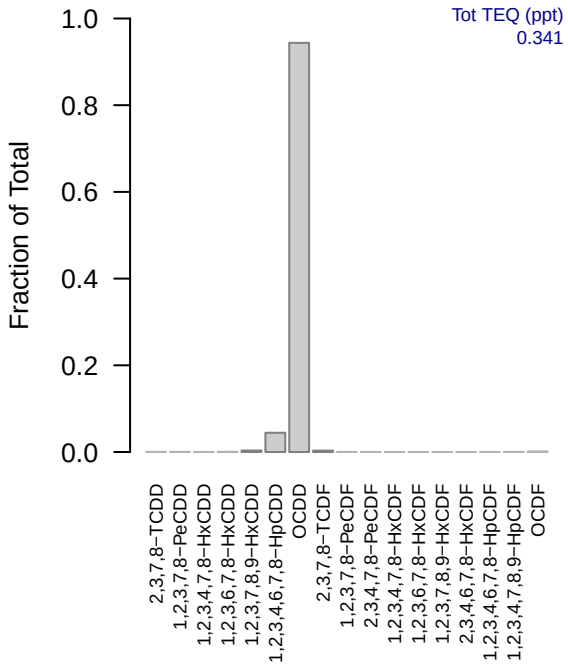
SJNE008(30.48−60.96 cm)



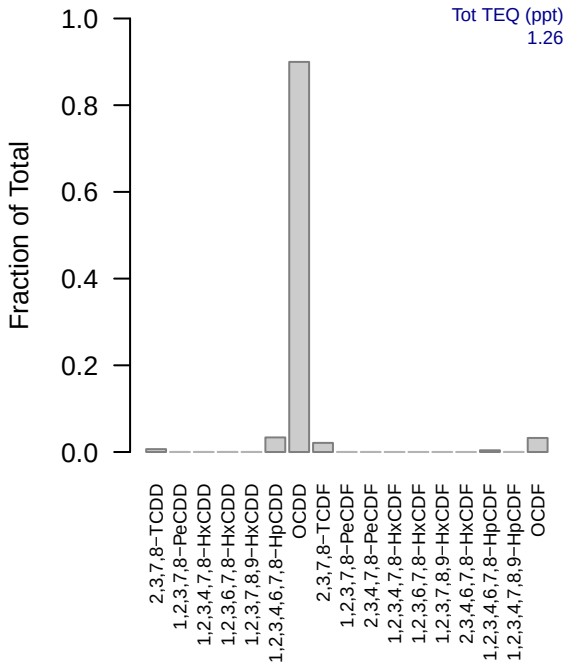
SJNE008(60.96−91.44 cm)



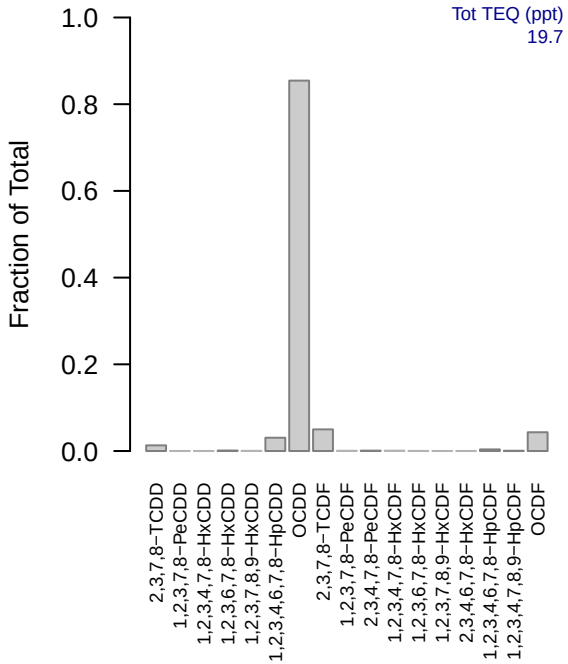
SJNE008(91.44−121.92 cm)



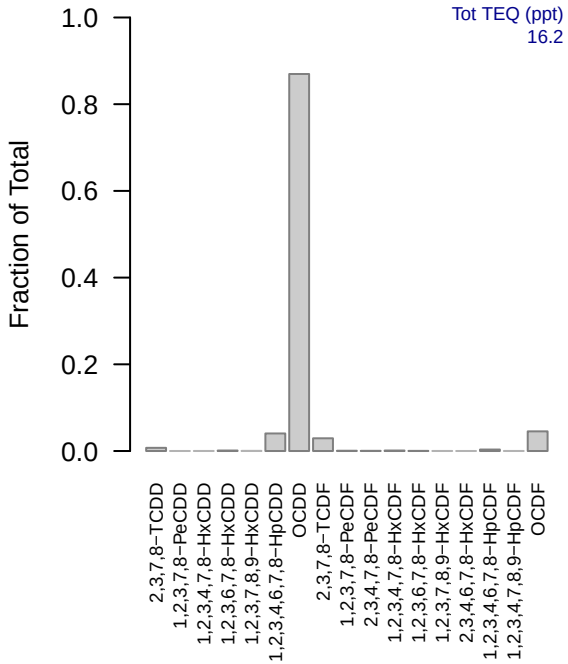
SJNE009(0−15.24 cm)



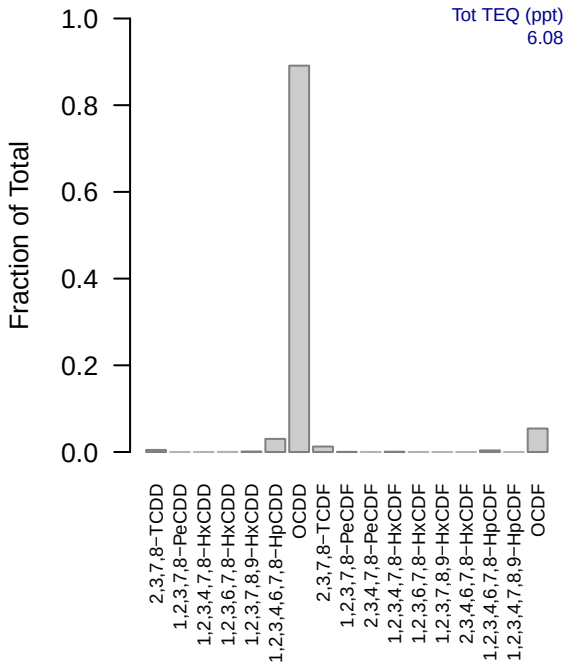
SJNE010(0−15.24 cm)



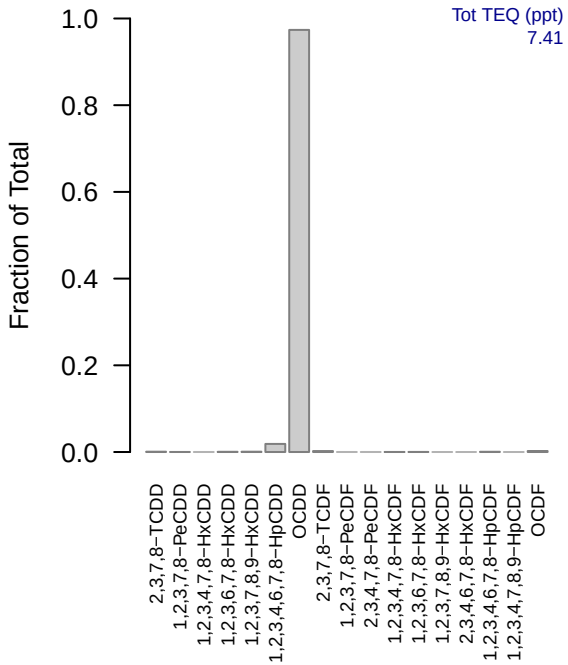
SJNE011(0−15.24 cm)



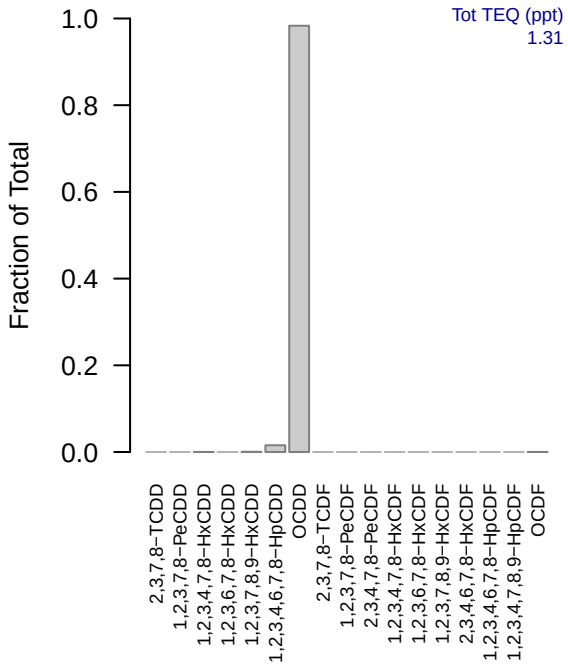
SJNE012_Core(0−30.48 cm)



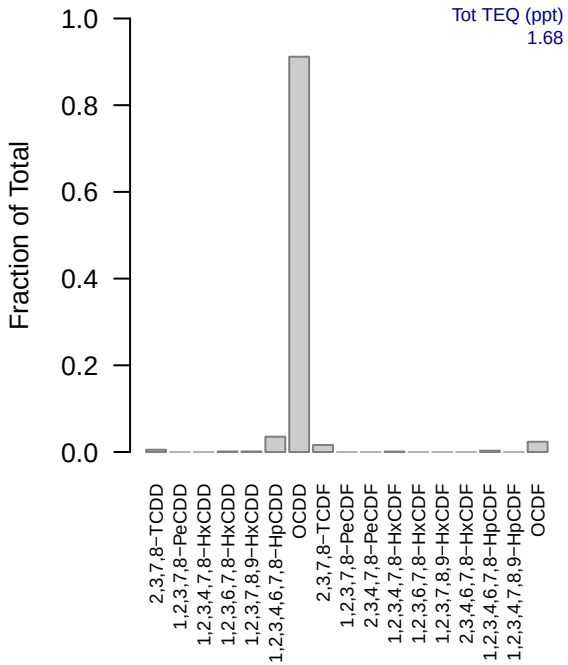
SJNE012_Core(30.48−60.96 cm)



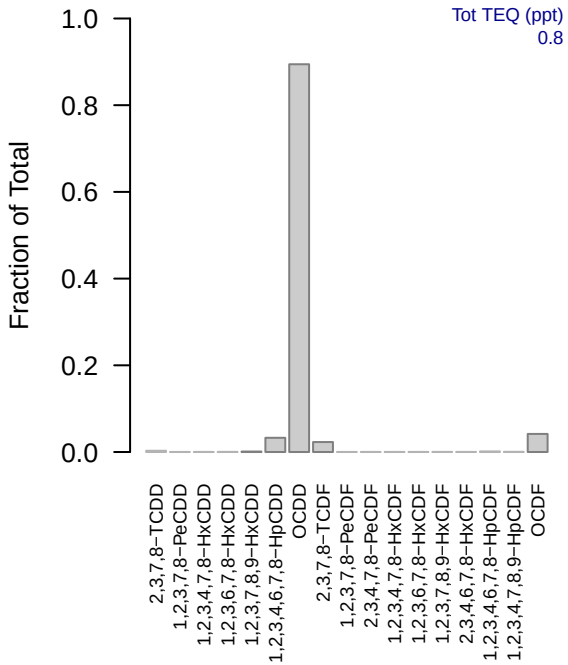
SJNE012_Core(60.96−91.44 cm)



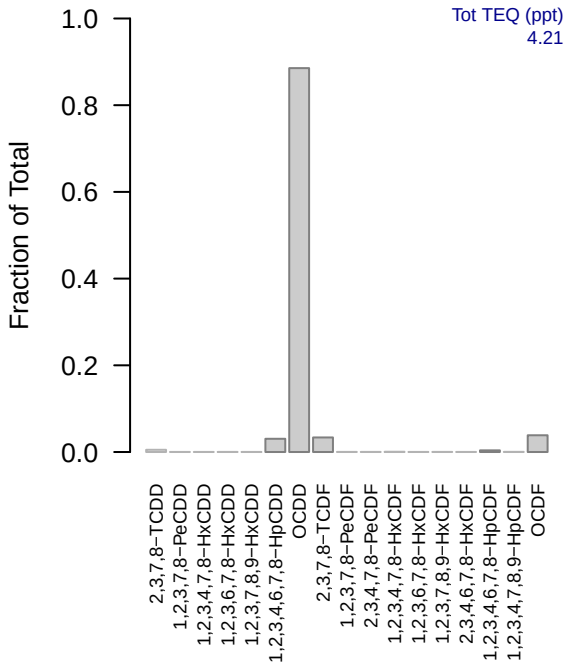
SJNE012_Grab(0−15.24 cm)

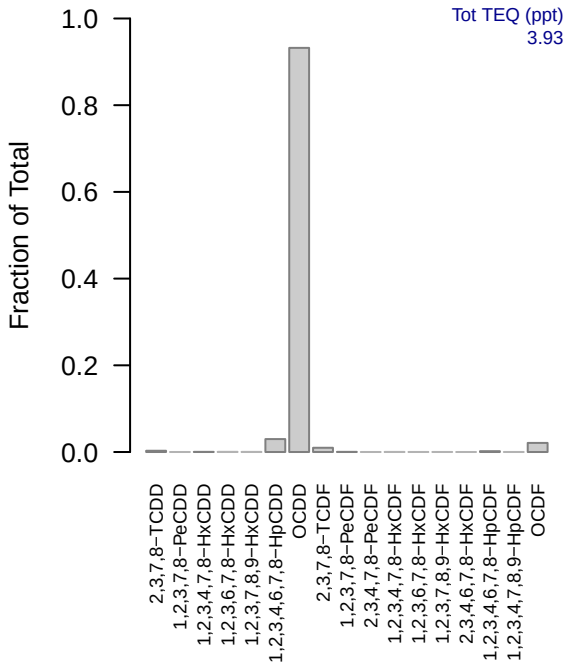


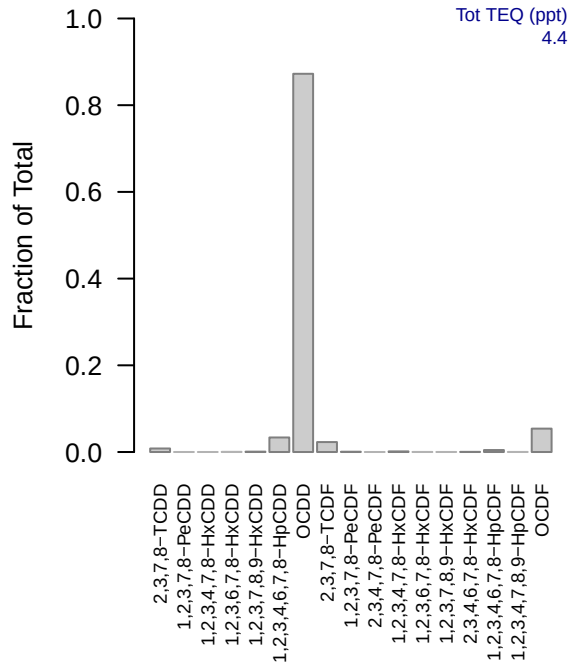
SJNE013(0−15.24 cm)

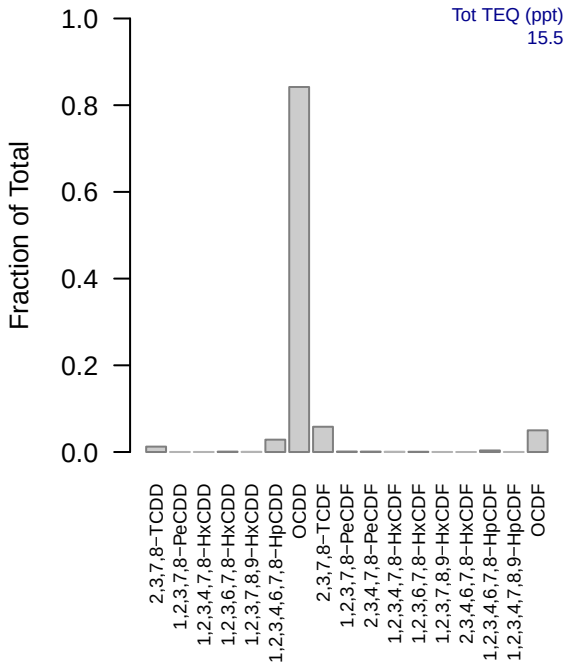


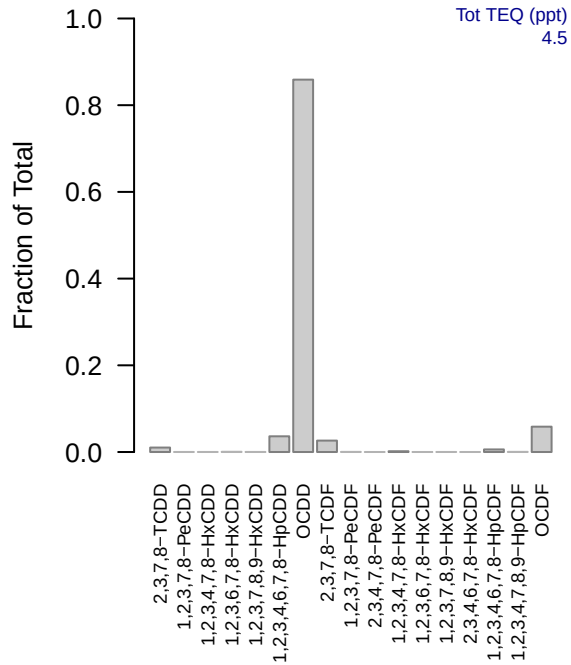
SJNE014(0−15.24 cm)

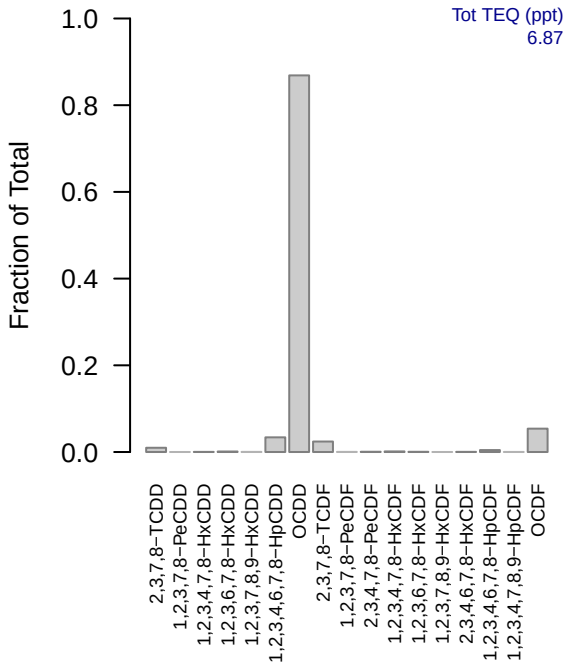


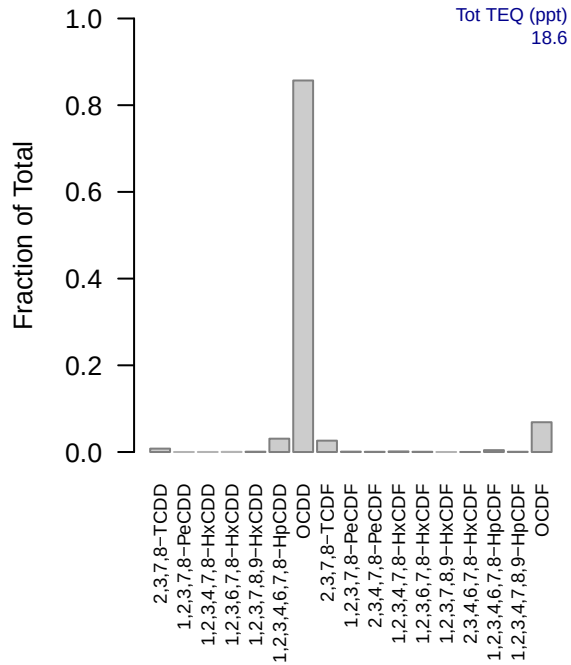

SJNE015(0−15.24 cm)
Tot TEQ (ppt)
3.93
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

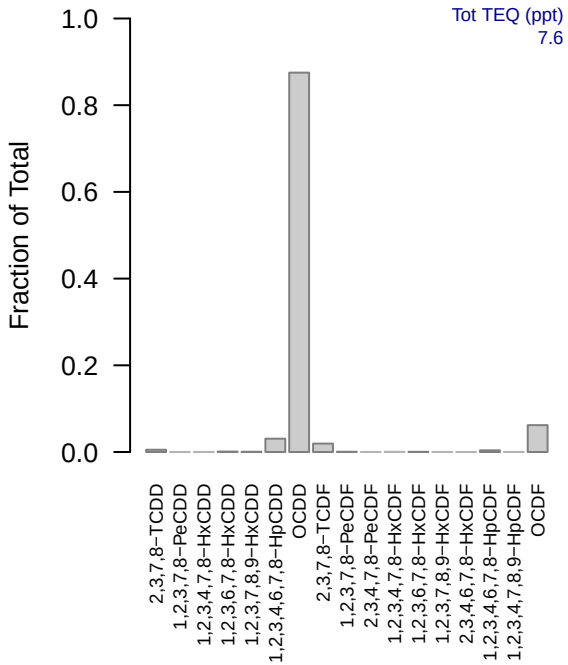

SJNE016(0−15.24 cm)
Tot TEQ (ppt)
4.4
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

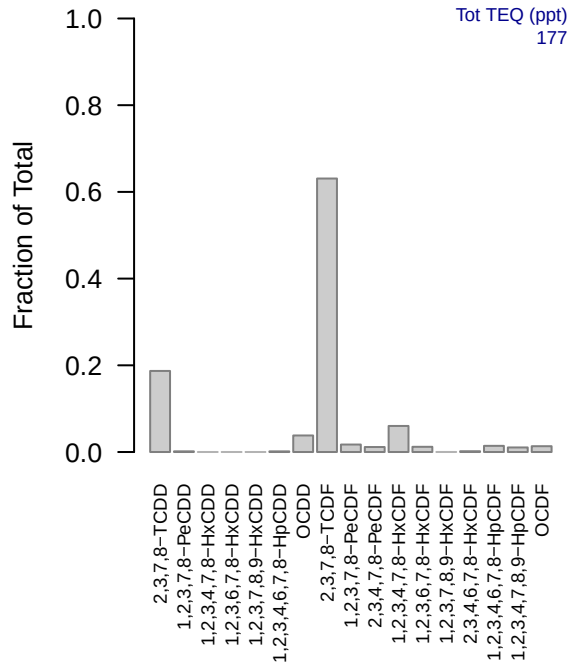

SJNE017(0−15.24 cm)
Tot TEQ (ppt)
15.5
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE018(0−15.24 cm)
Tot TEQ (ppt)
4.5
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

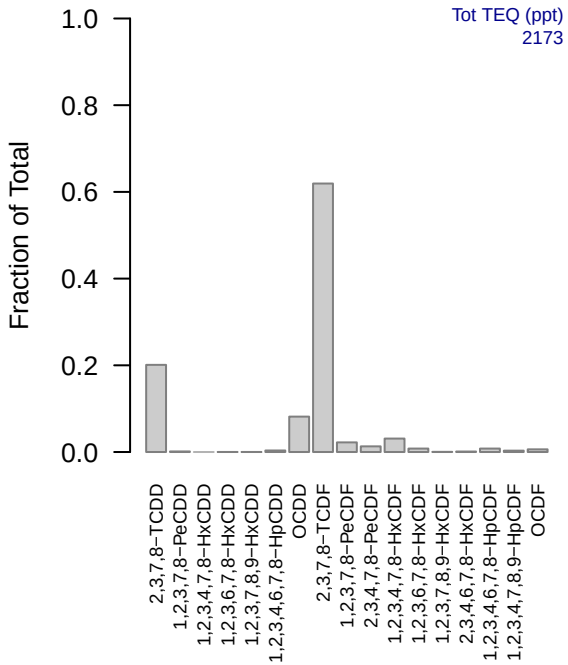

SJNE019(0−15.24 cm)
Tot TEQ (ppt)
6.87
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE020(0−15.24 cm)
Tot TEQ (ppt)
18.6
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

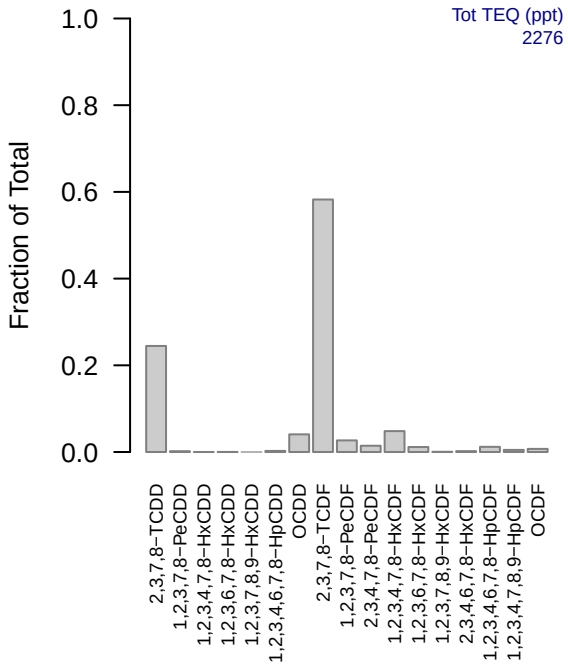

SJNE021(0−15.24 cm)
Tot TEQ (ppt)
7.6
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE022−1(0−15.24 cm)
Tot TEQ (ppt)
177
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

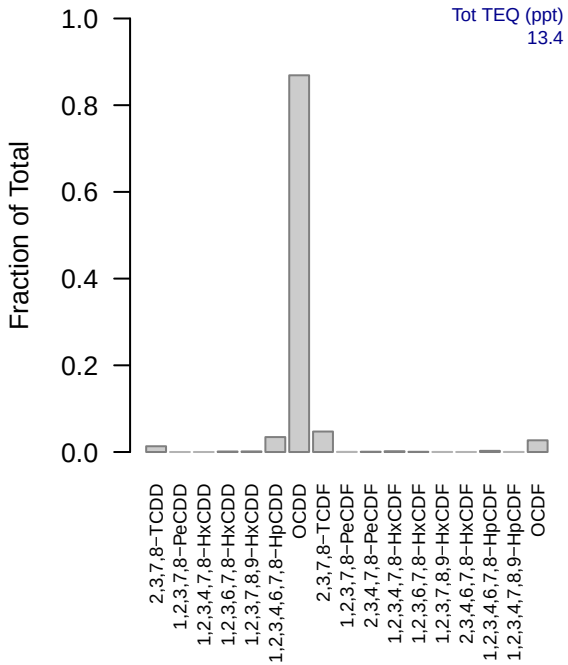
SJNE022−2(0−15.24 cm)



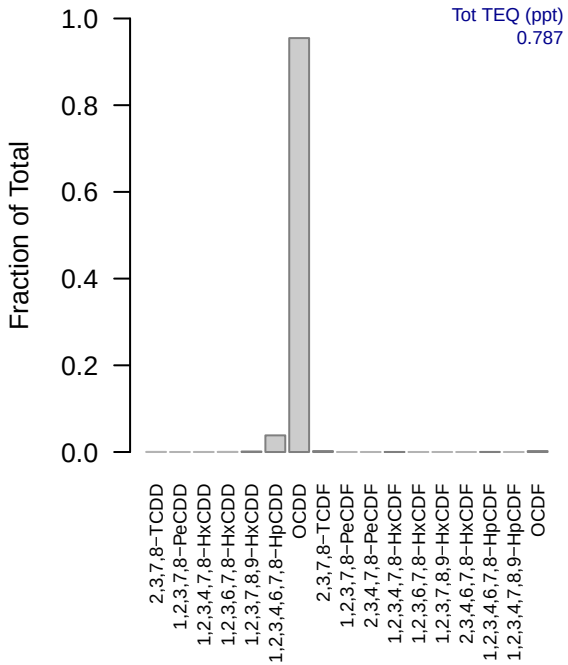
SJNE022−3(0−15.24 cm)

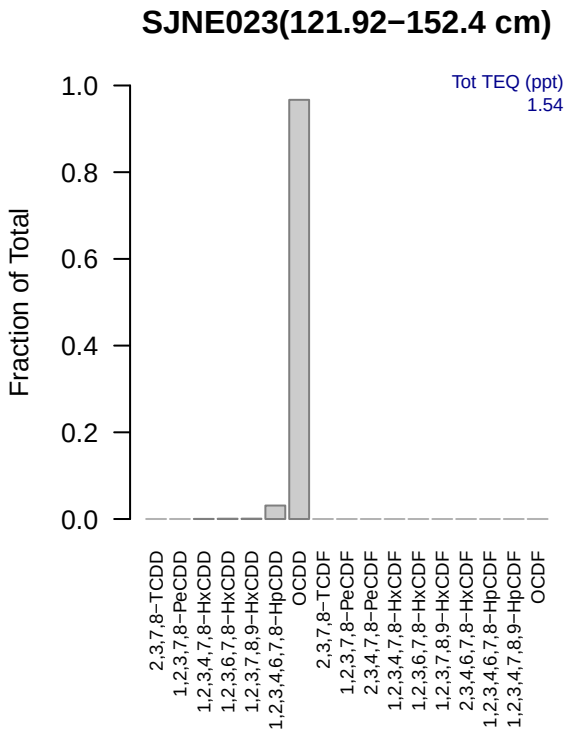


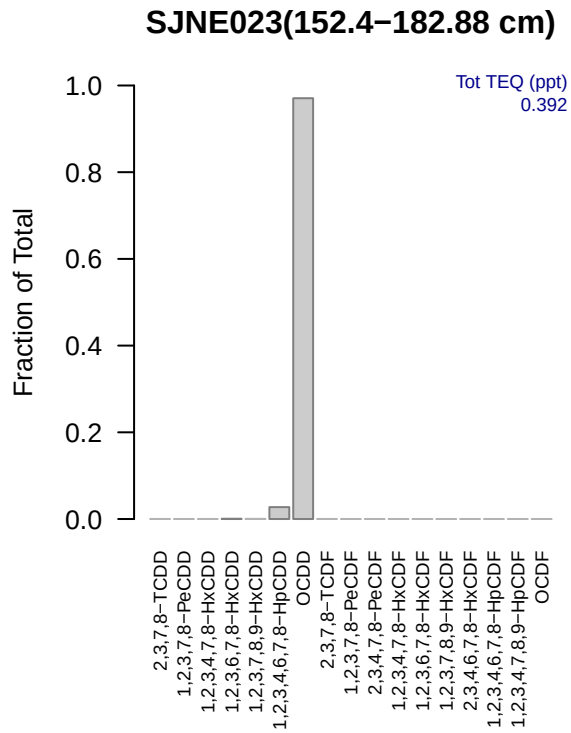
SJNE023(0−15.24 cm)

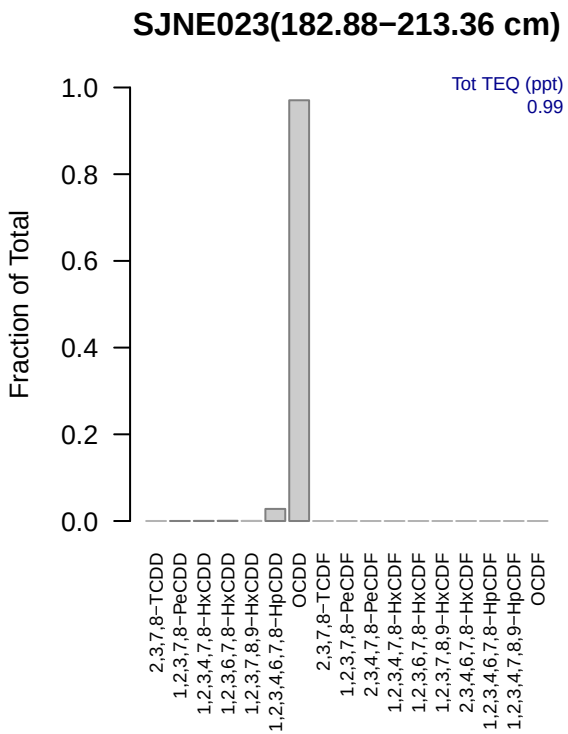


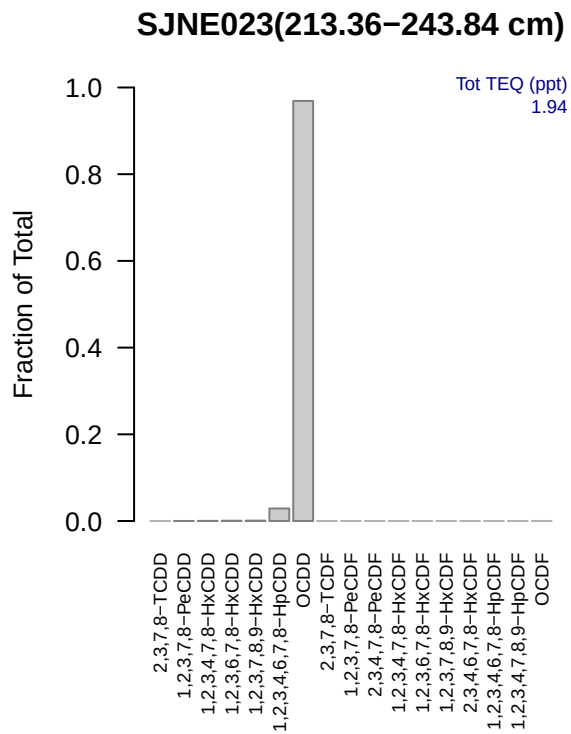
SJNE023(0−30.48 cm)



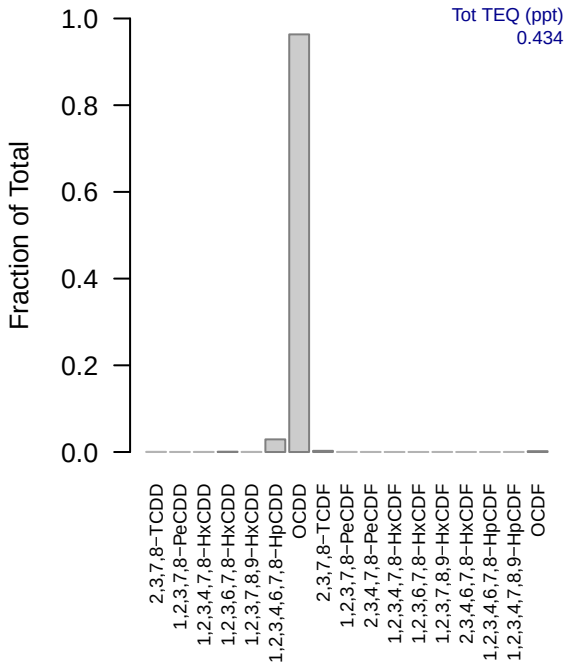

SJNE023(121.92−152.4 cm)
Tot TEQ (ppt)
1.54
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE023(152.4−182.88 cm)
Tot TEQ (ppt)
0.392
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

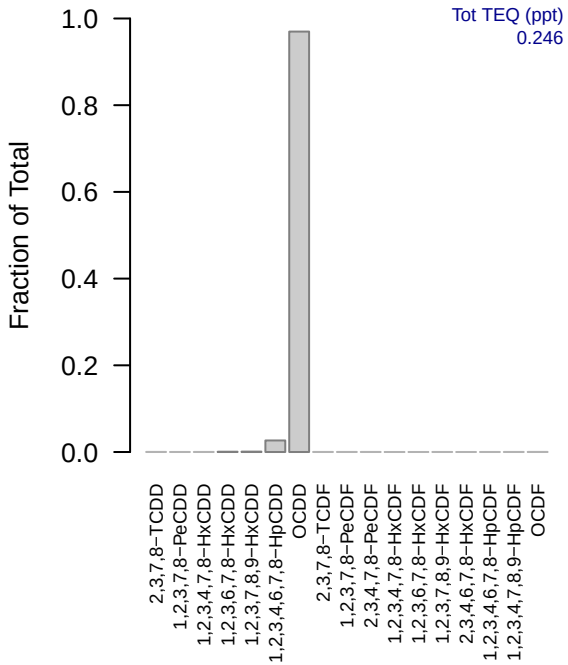

SJNE023(182.88−213.36 cm)
Tot TEQ (ppt)
0.99
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE023(213.36−243.84 cm)
Tot TEQ (ppt)
1.94
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

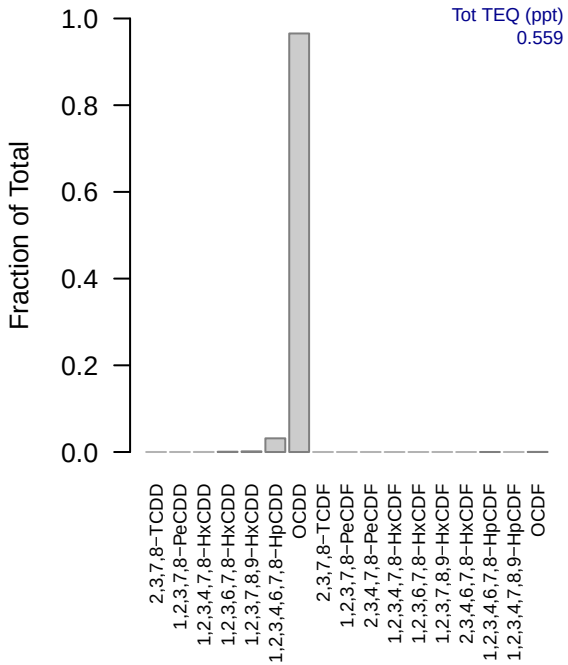
SJNE023(30.48−60.96 cm)



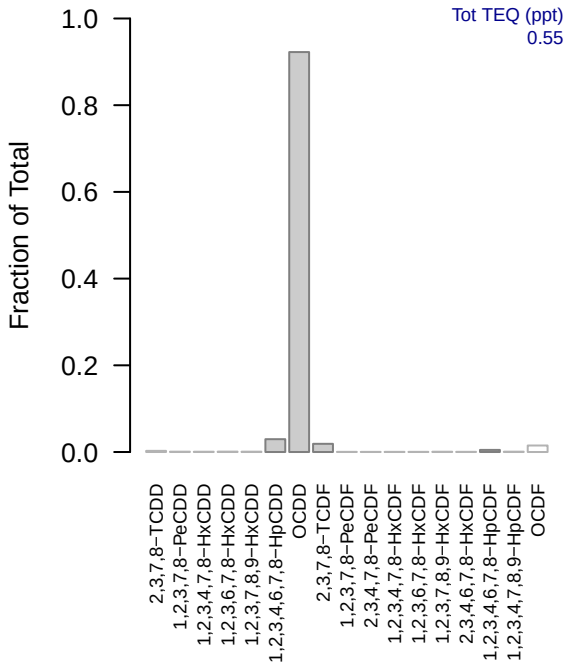
SJNE023(60.96−91.44 cm)



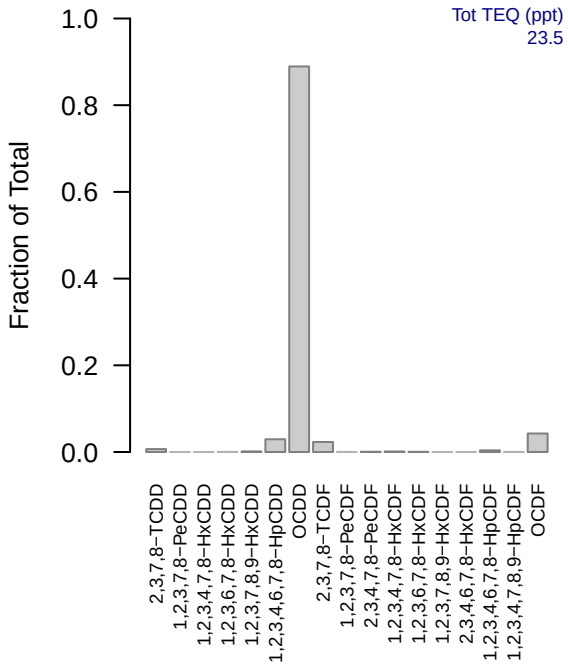
SJNE023(91.44−121.92 cm)



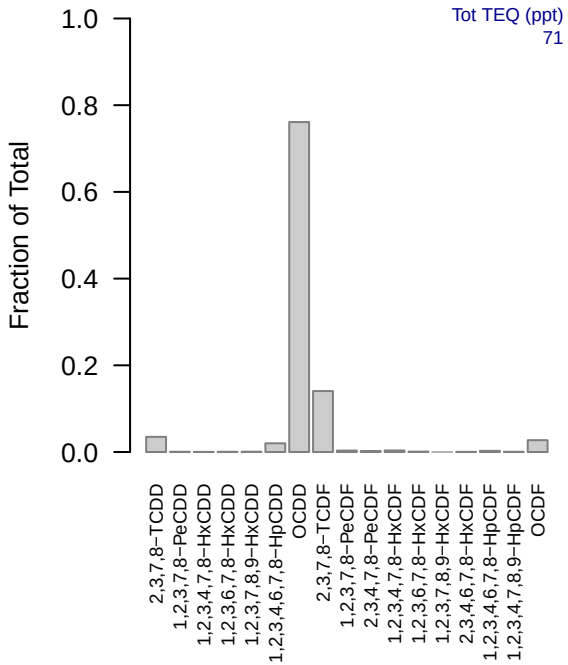
SJNE024(0−15.24 cm)



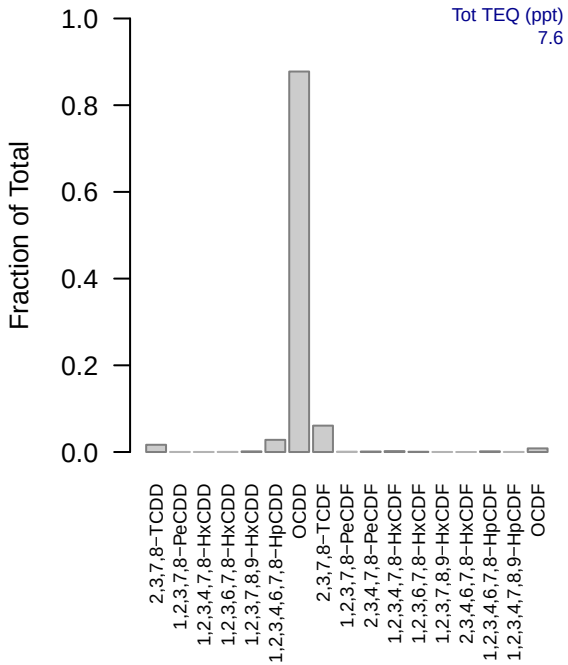
SJNE025(0−15.24 cm)



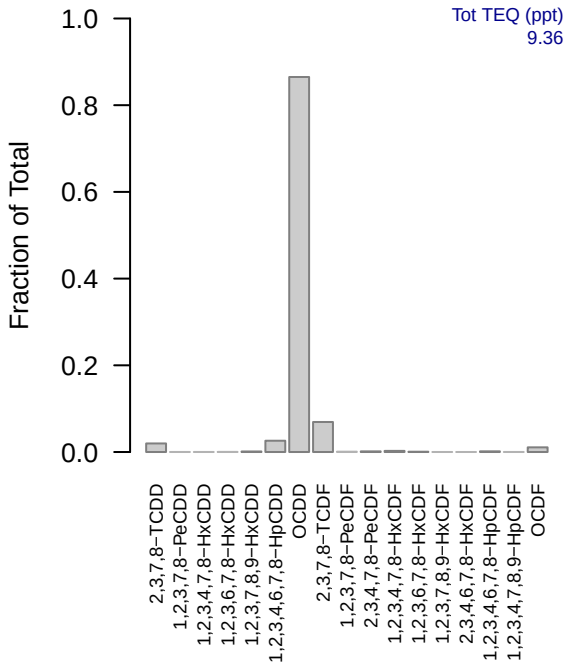
SJNE026_Core(0−30.48 cm)



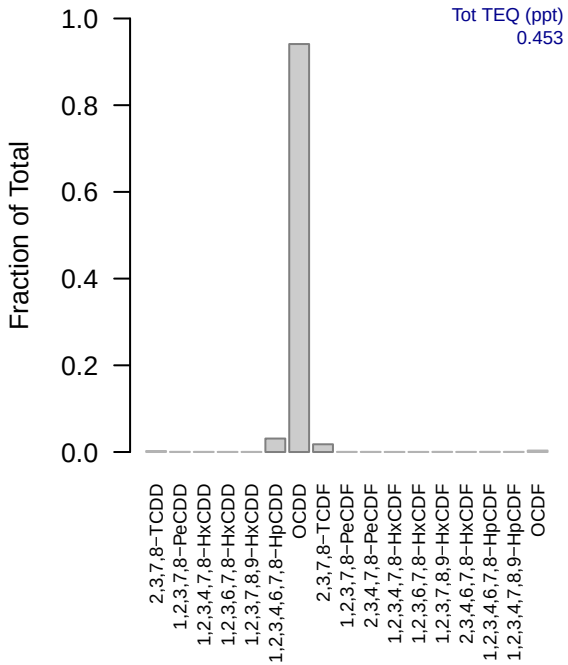
SJNE026_Core(121.92−152.4 cm)



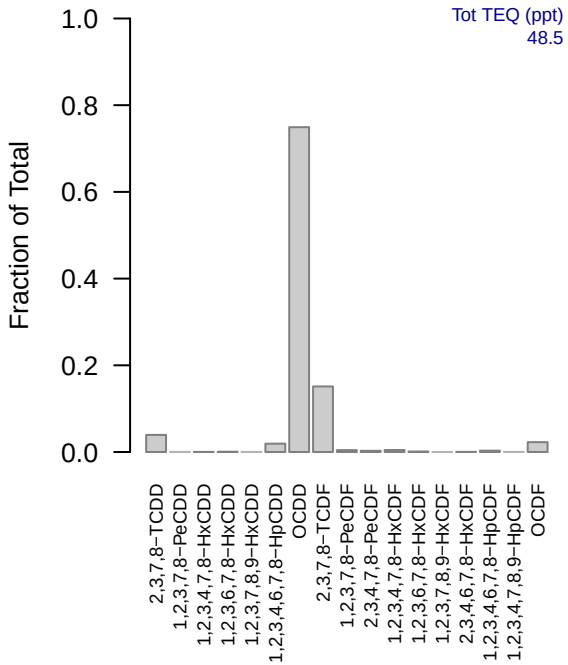
SJNE026_Core(152.4−182.88 cm)



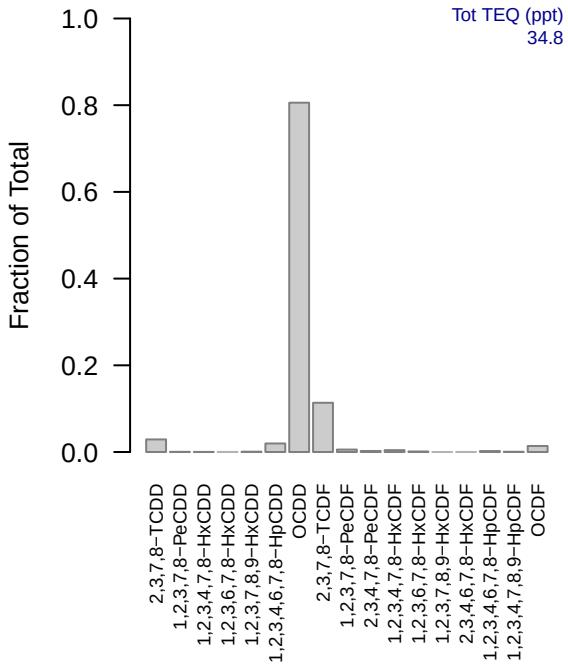
SJNE026_Core(182.88−213.36 cm)



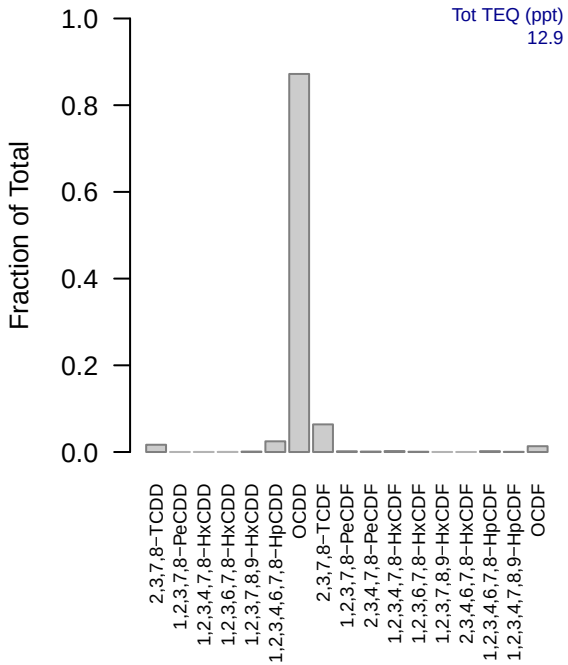
SJNE026_Core(30.48−60.96 cm)



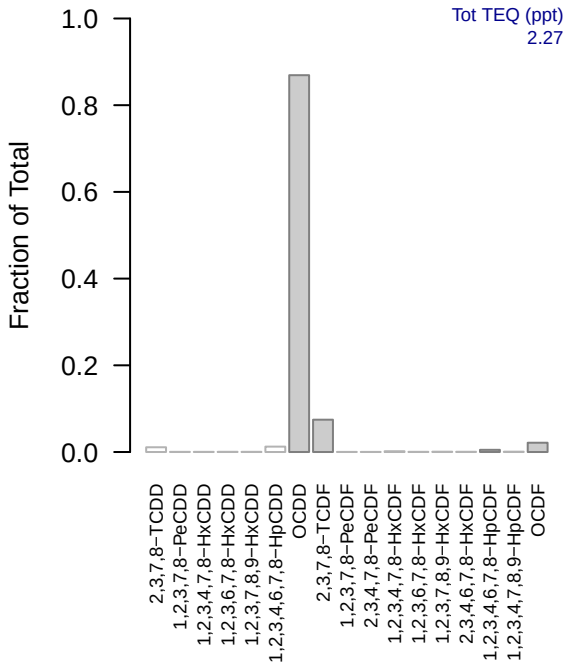
SJNE026_Core(60.96−91.44 cm)



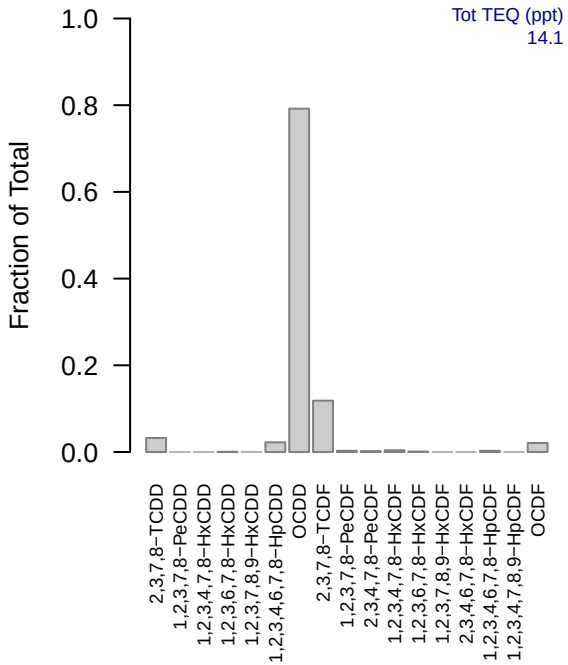
SJNE026_Core(91.44−121.92 cm)



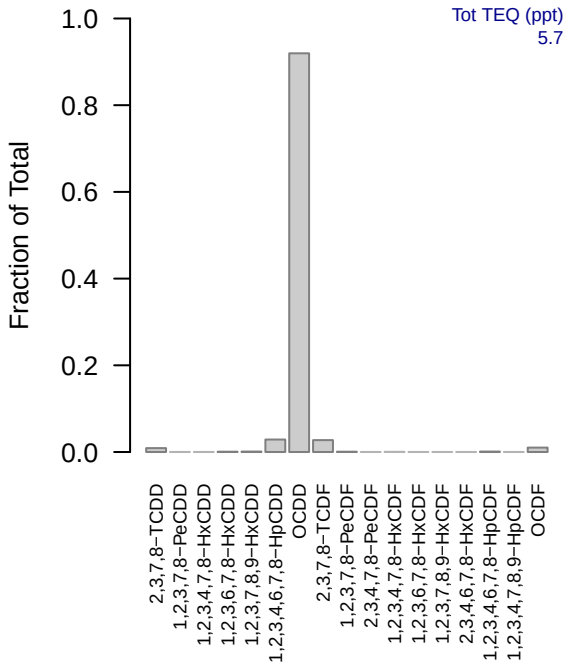
SJNE026_Grab(0−15.24 cm)



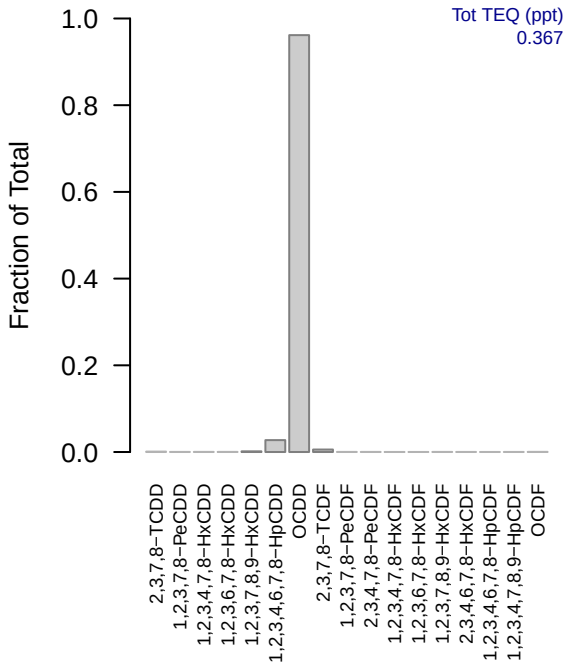
SJNE027(0−15.24 cm)

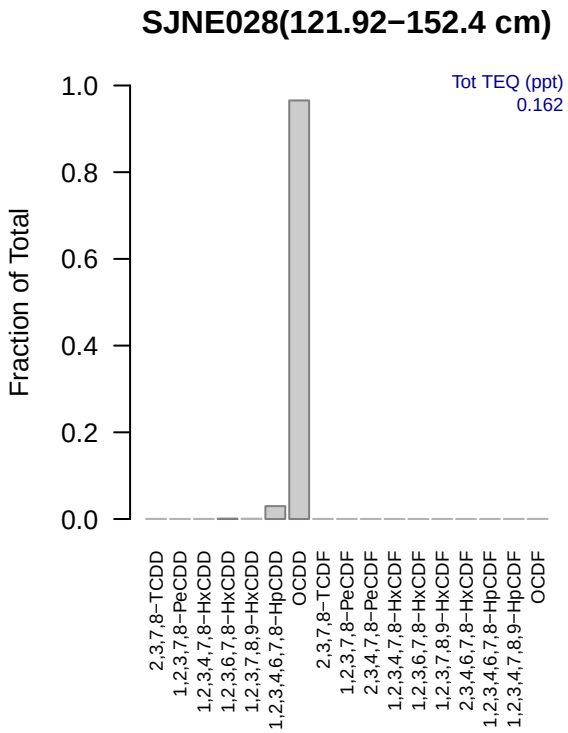


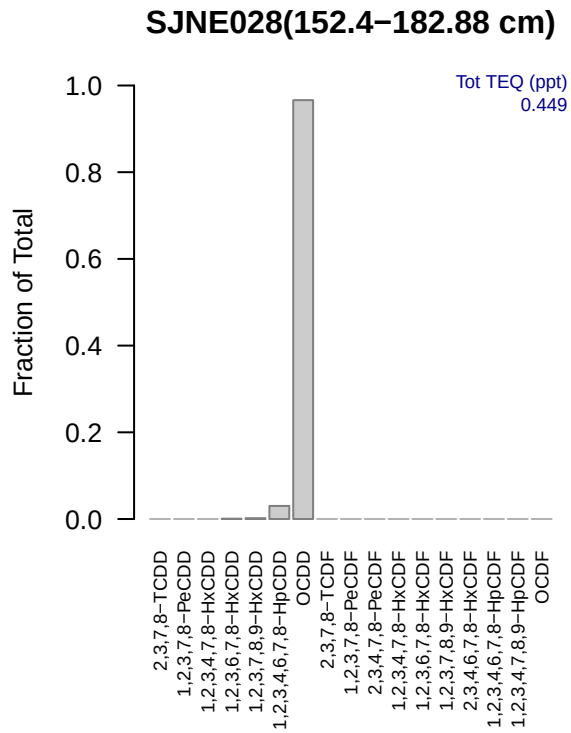
SJNE028(0−15.24 cm)

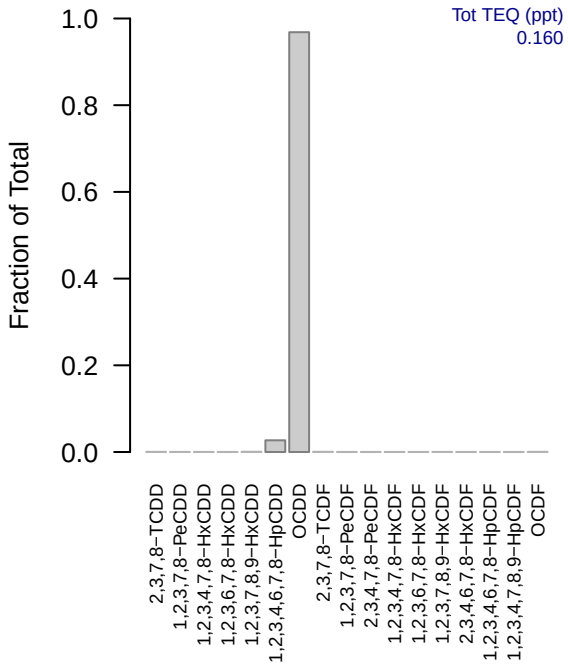


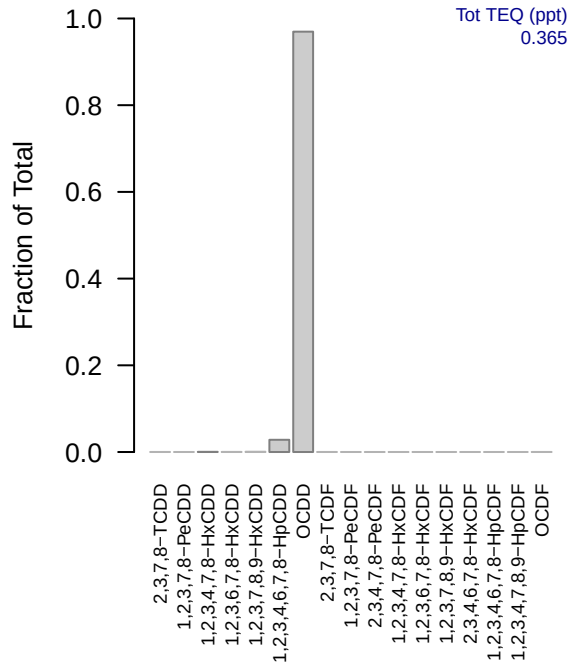
SJNE028(0−30.48 cm)

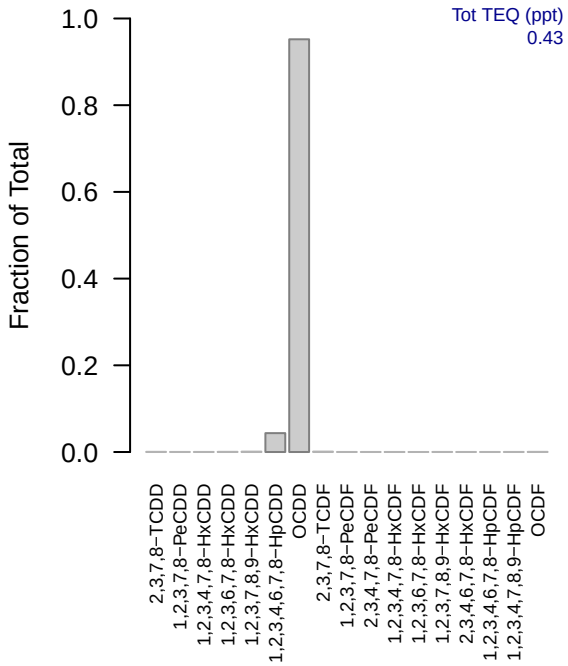


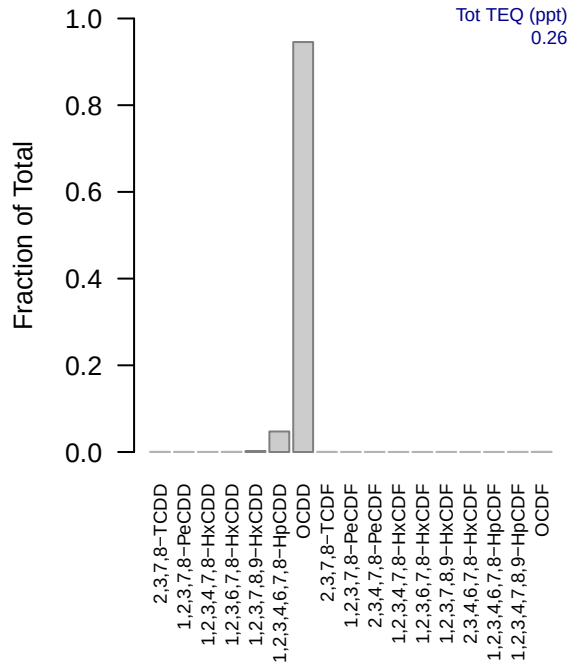

SJNE028(121.92−152.4 cm)
Tot TEQ (ppt)
0.162
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

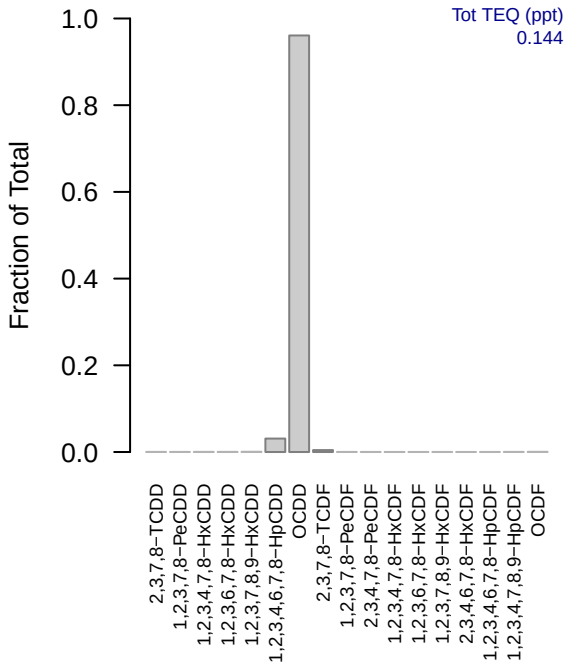

SJNE028(152.4−182.88 cm)
Tot TEQ (ppt)
0.449
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

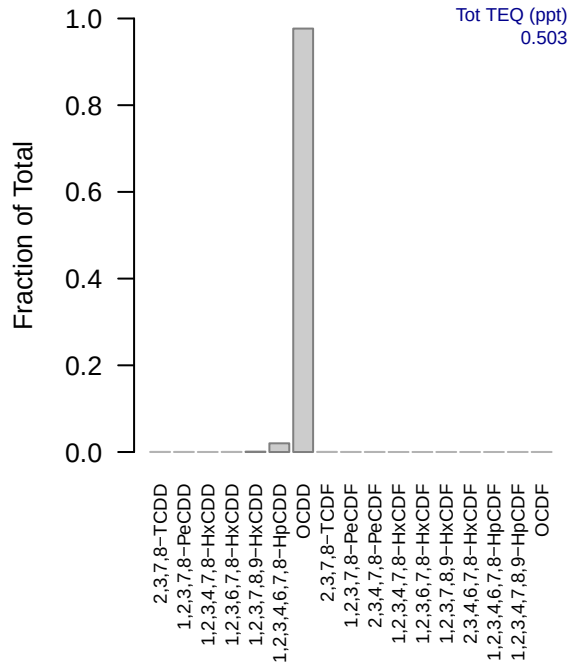

SJNE028(182.88−213.36 cm)
Tot TEQ (ppt)
0.160
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE028(213.36−243.84 cm)
Tot TEQ (ppt)
0.365
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

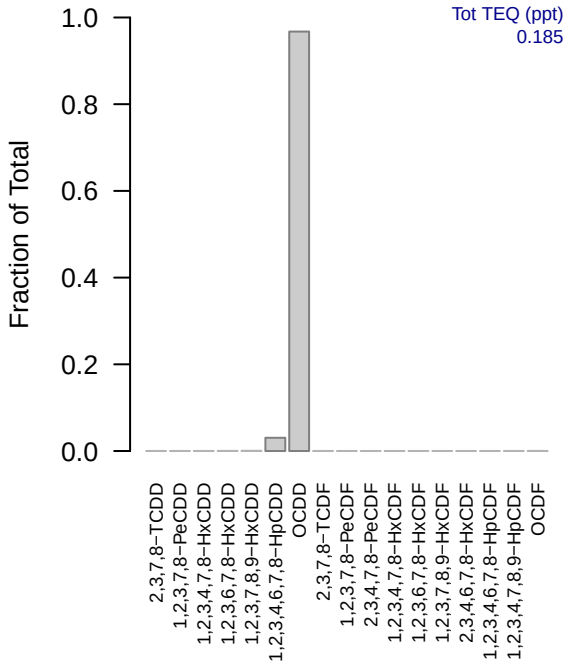

SJNE028(30.48−60.96 cm)
Tot TEQ (ppt)
0.43
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE028(60.96−91.44 cm)
Tot TEQ (ppt)
0.26
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

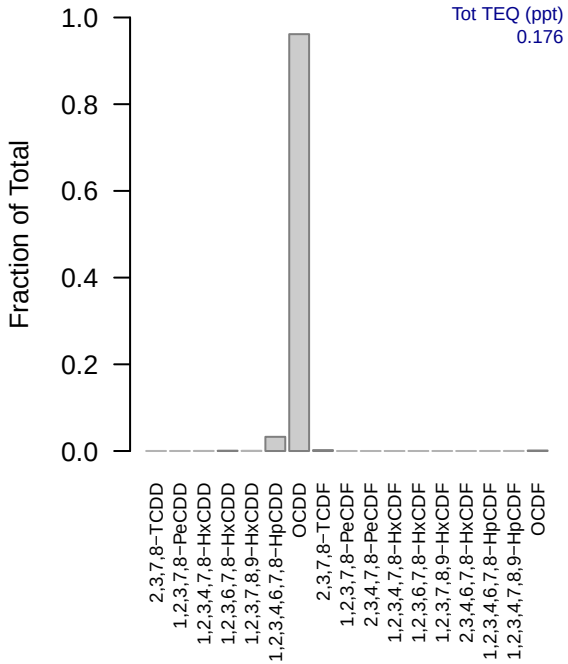

SJNE028(91.44−121.92 cm)
Tot TEQ (ppt)
0.144
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE029_Core(0−30.48 cm)
Tot TEQ (ppt)
0.503
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

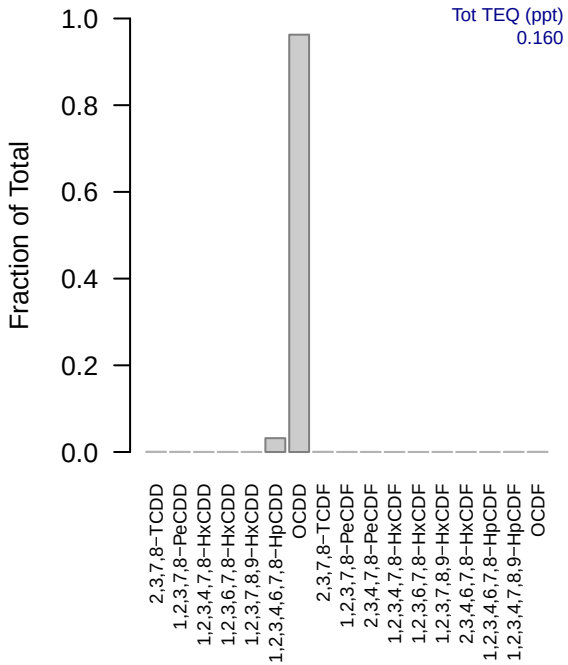
SJNE029_Core(121.92−152.4 cm)



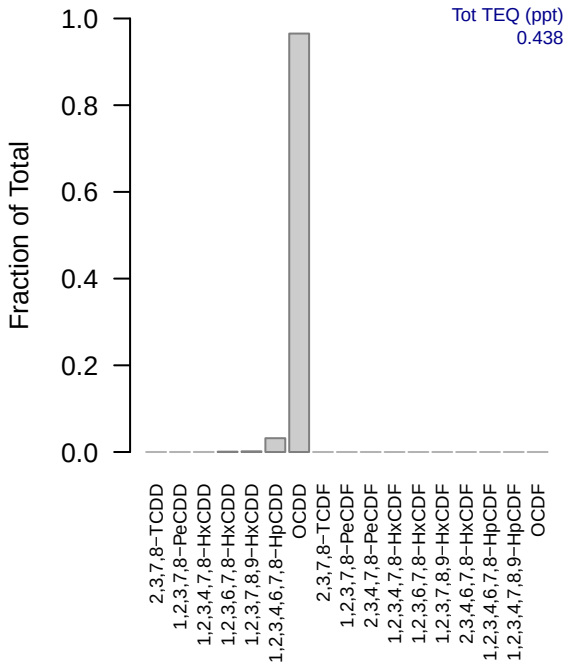
SJNE029_Core(152.4−182.88 cm)



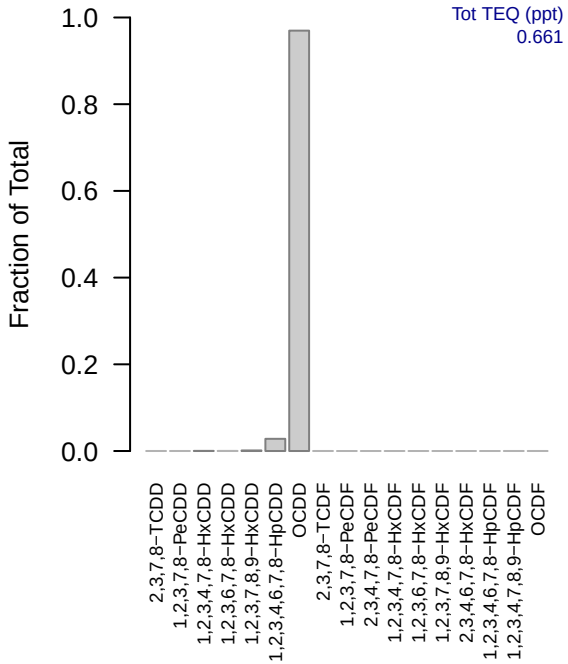
SJNE029_Core(182.88−213.36 cm)



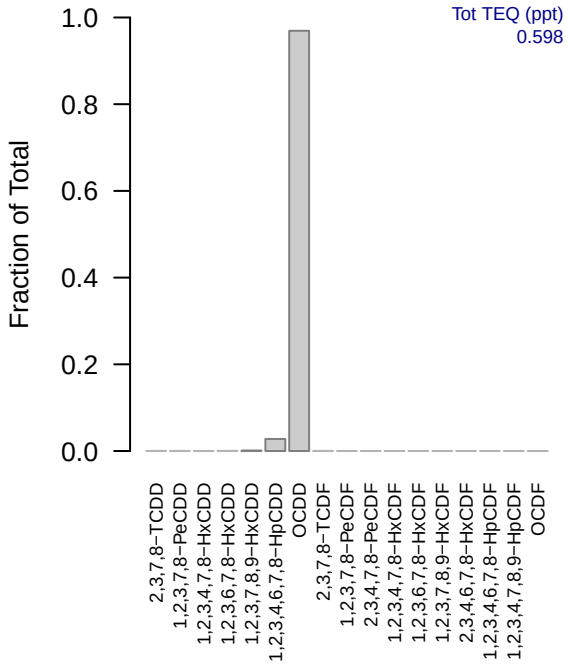
SJNE029_Core(213.36−243.84 cm)



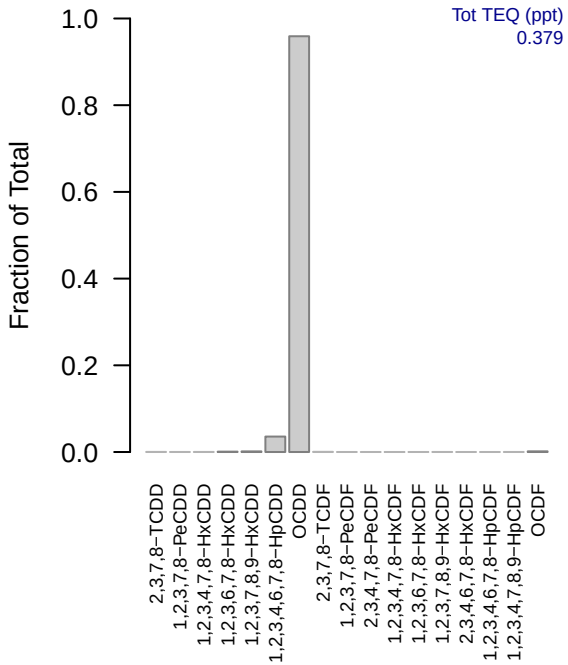
SJNE029_Core(243.84−274.32 cm)



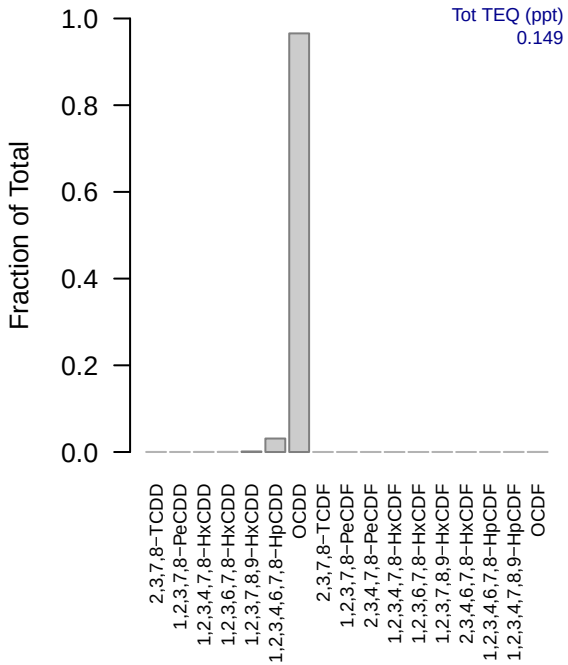
SJNE029_Core(30.48−60.96 cm)



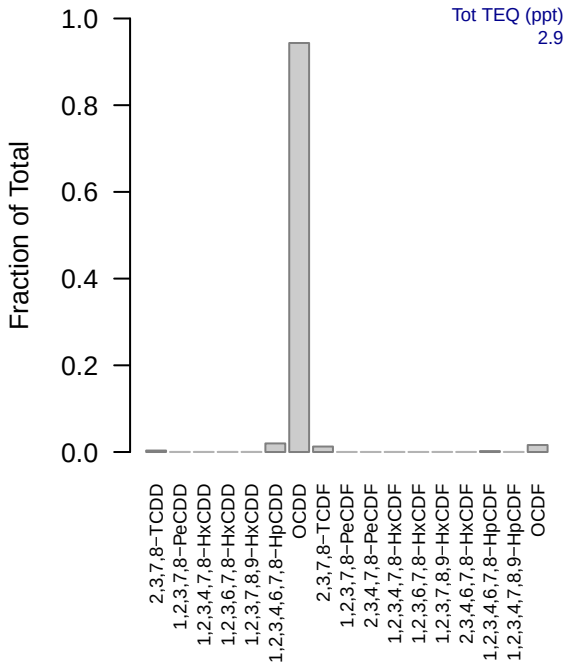
SJNE029_Core(60.96−91.44 cm)



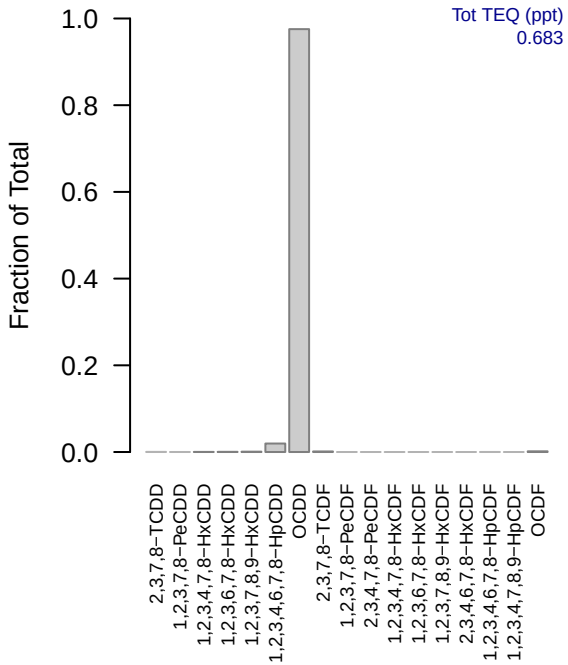
SJNE029_Core(91.44−121.92 cm)



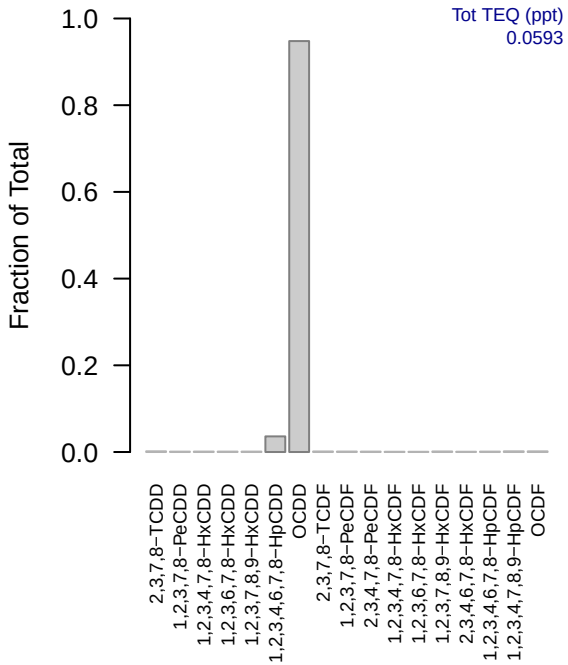
SJNE029_Grab(0−15.24 cm)



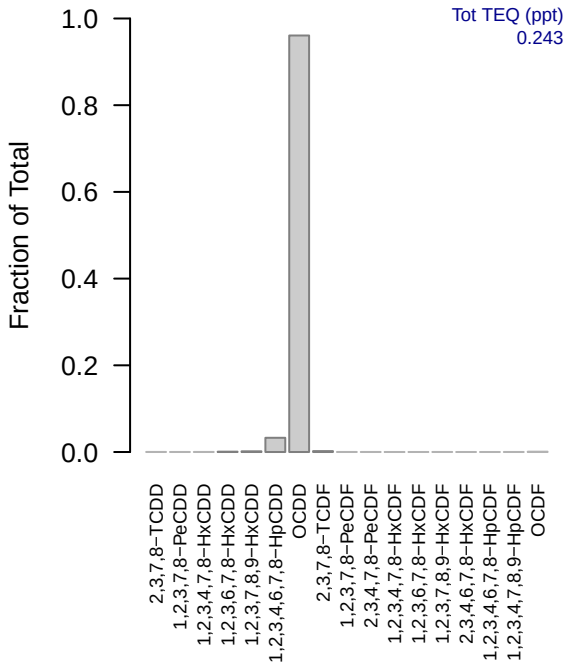
SJNE030_Core(0−30.48 cm)



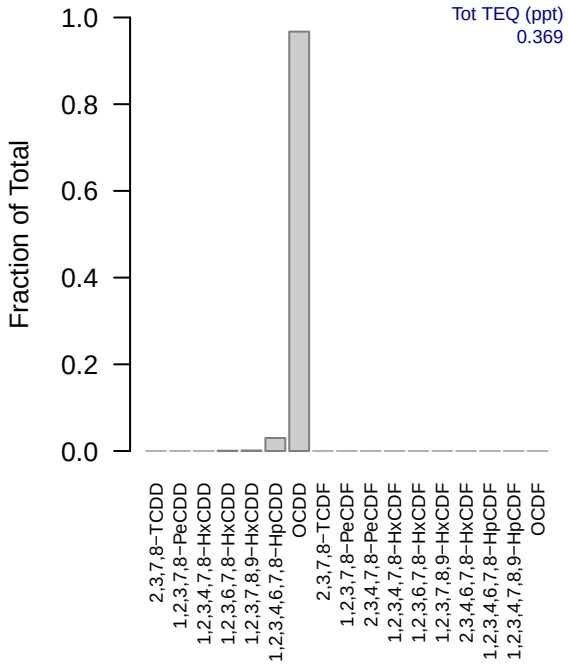
SJNE030_Core(121.92−152.4 cm)



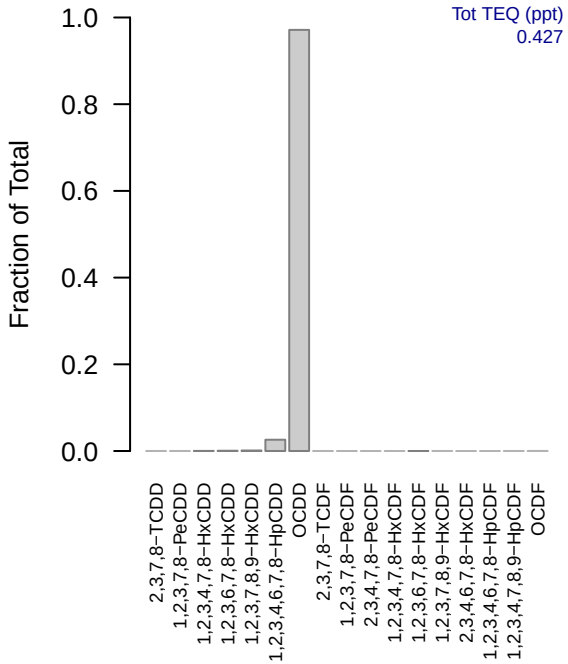
SJNE030_Core(30.48−60.96 cm)



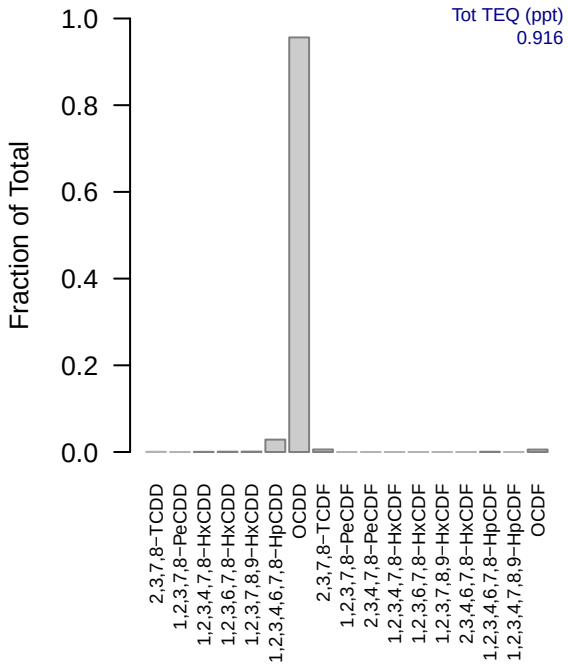
SJNE030_Core(60.96−91.44 cm)



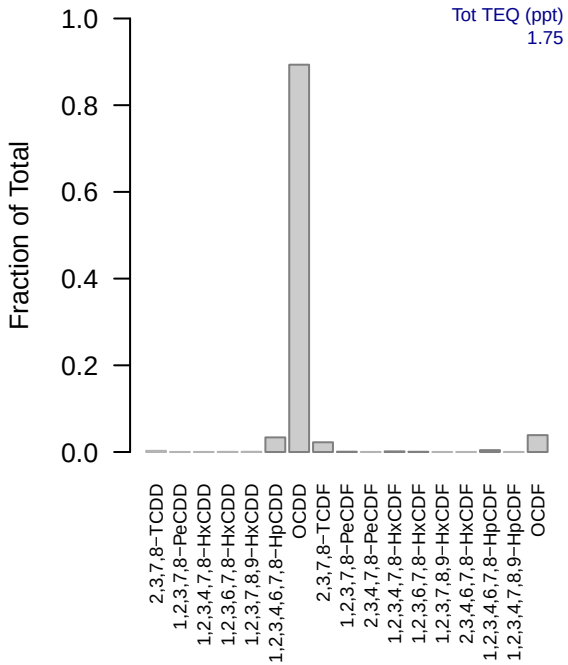
SJNE030_Core(91.44−121.92 cm)



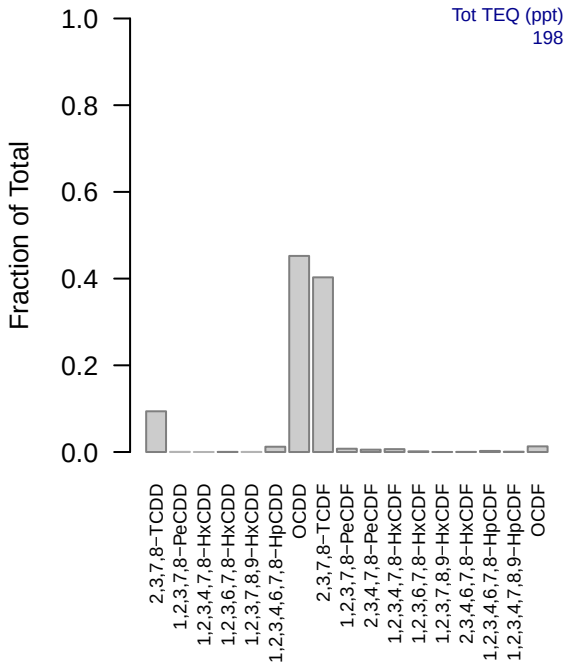
SJNE030_Grab(0−15.24 cm)



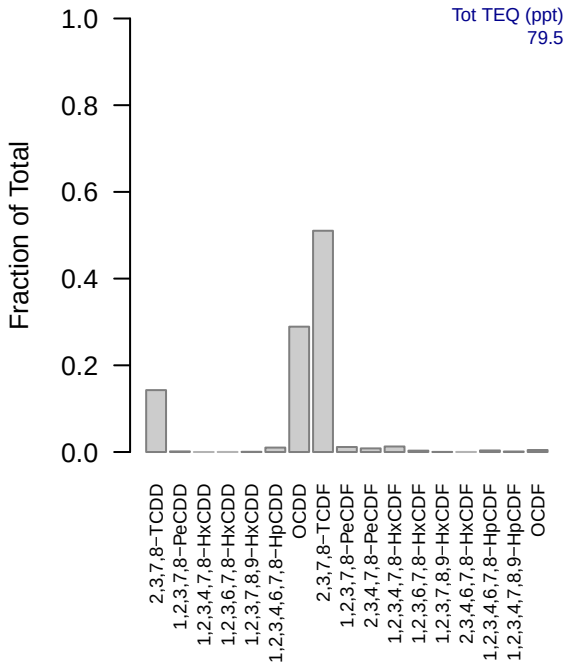
SJNE031(0−15.24 cm)



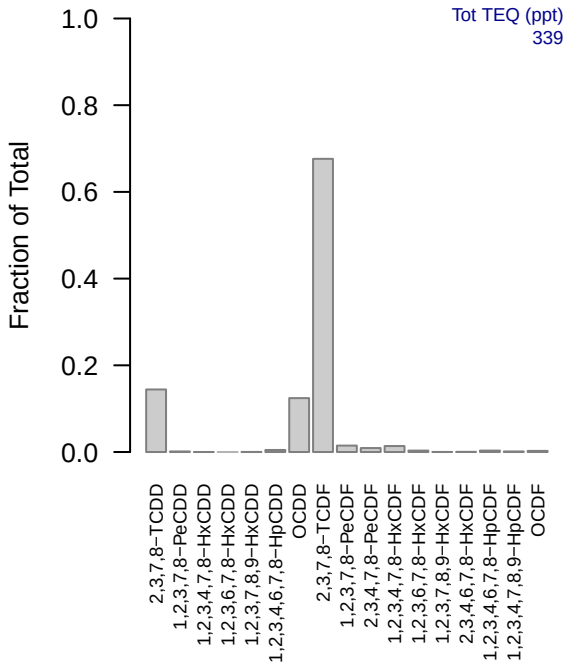
SJNE032_Core(0−30.48 cm)



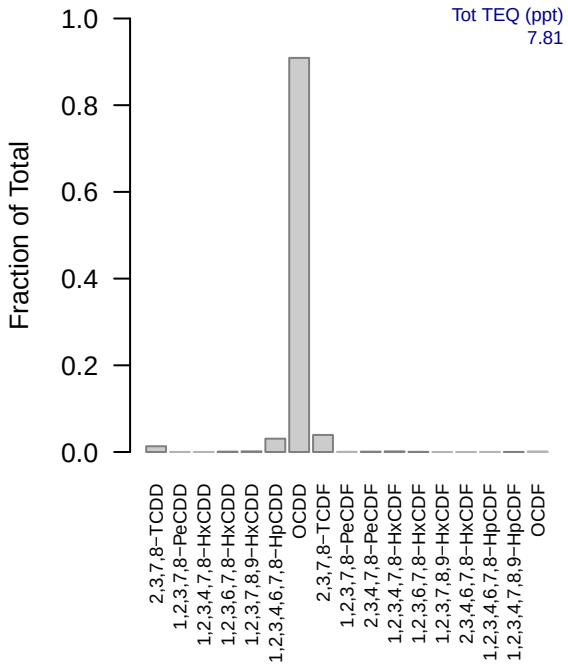
SJNE032_Core(121.92−152.4 cm)



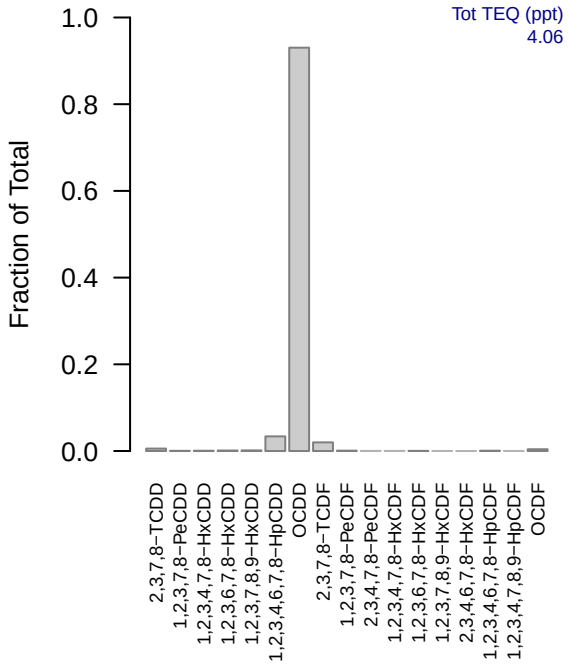
SJNE032_Core(152.4−182.88 cm)



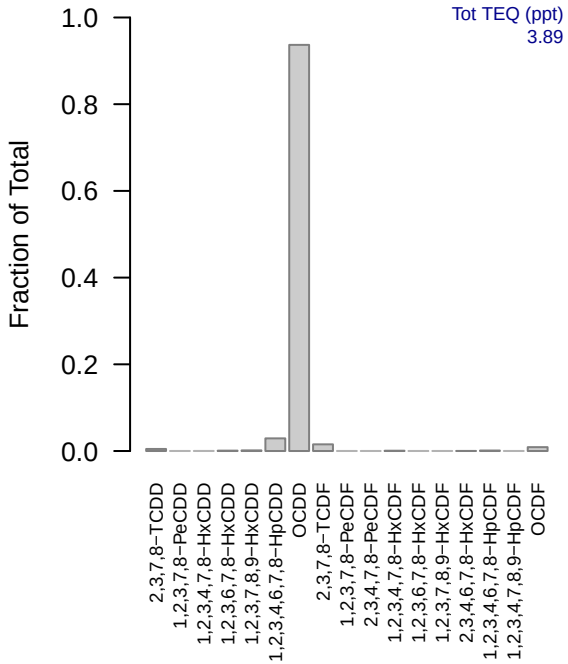
SJNE032_Core(182.88−213.36 cm)



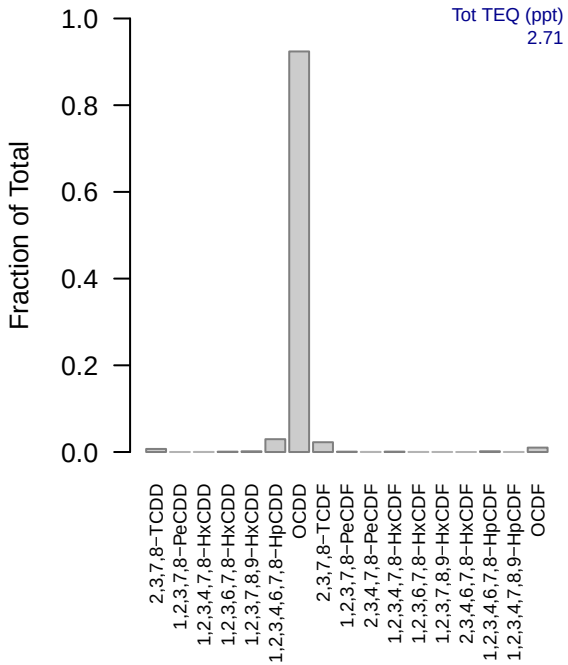
SJNE032_Core(213.36−243.84 cm)



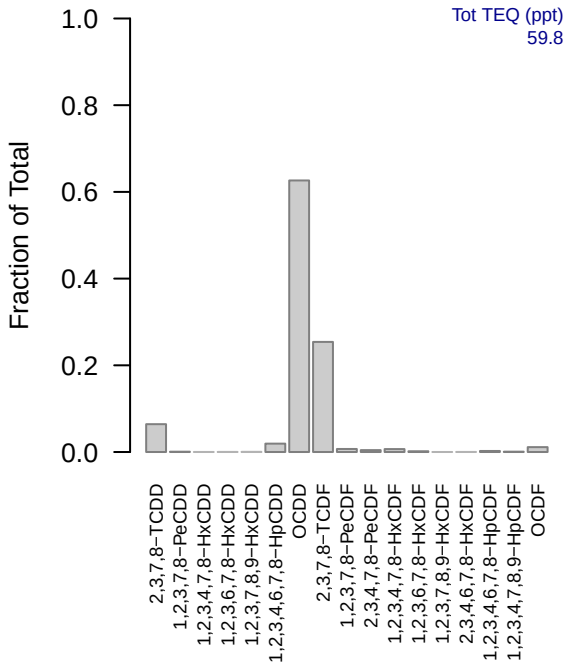
SJNE032_Core(243.84−274.32 cm)



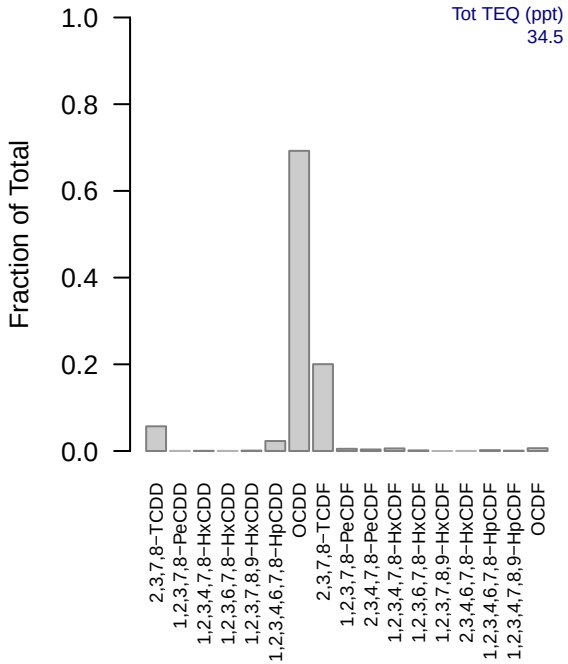
SJNE032_Core(274.32−304.8 cm)



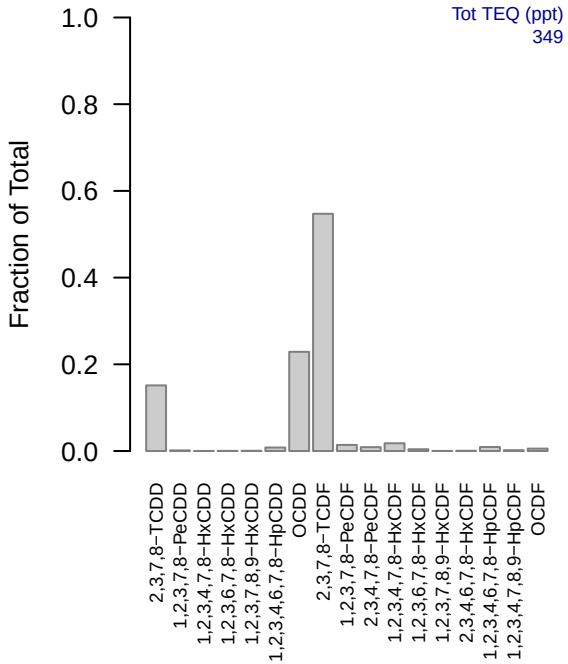
SJNE032_Core(30.48−60.96 cm)



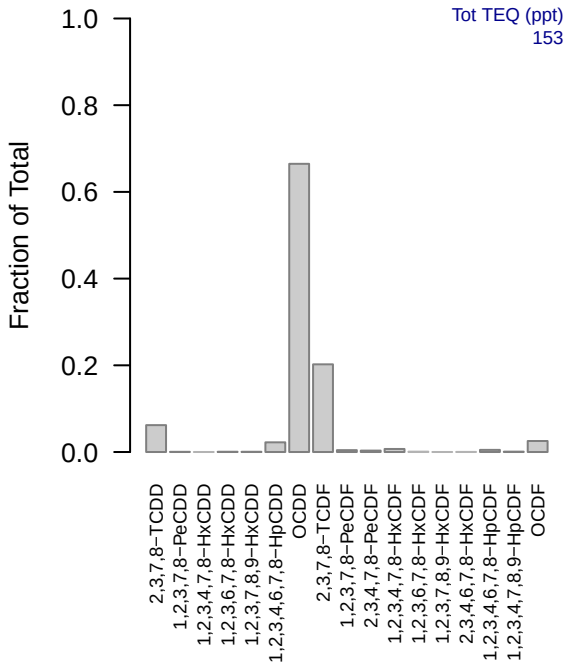
SJNE032_Core(60.96−91.44 cm)



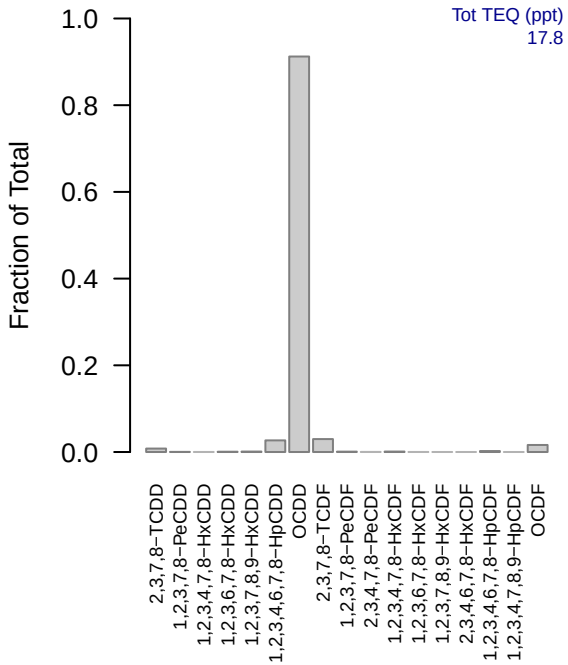
SJNE032_Core(91.44−121.92 cm)



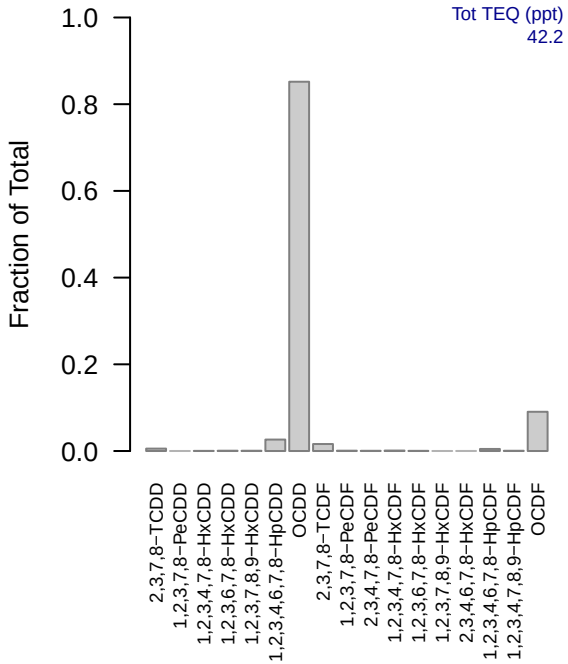
SJNE032_Grab(0−15.24 cm)



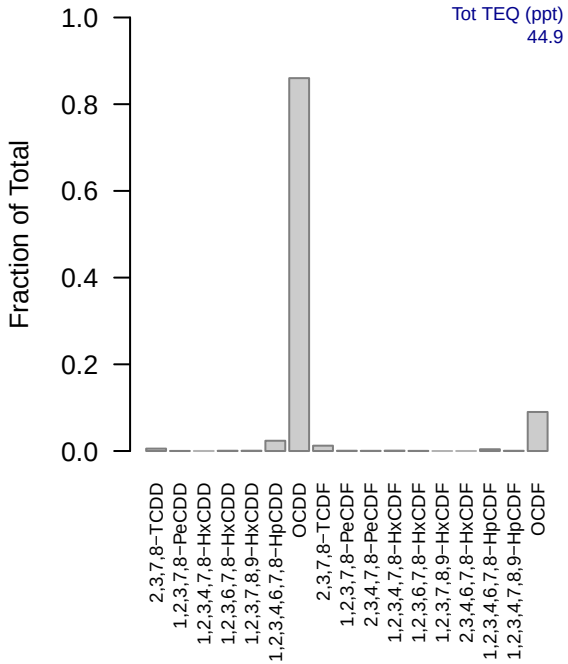
SJNE033_Core(0−30.48 cm)



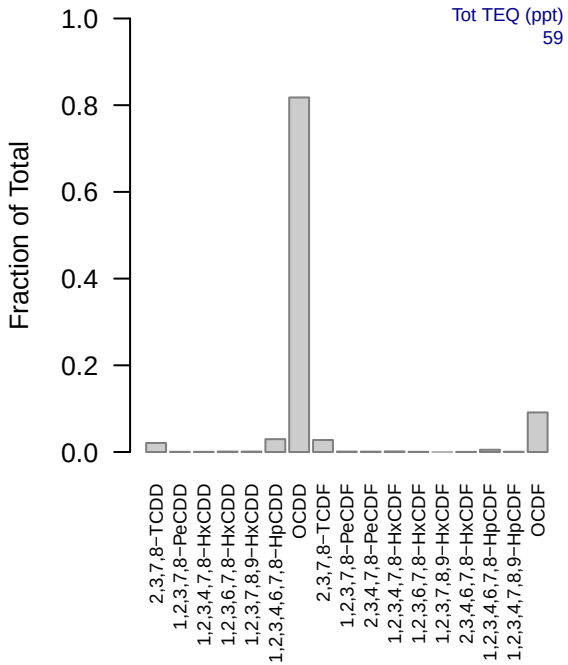
SJNE033_Core(121.92−152.4 cm)



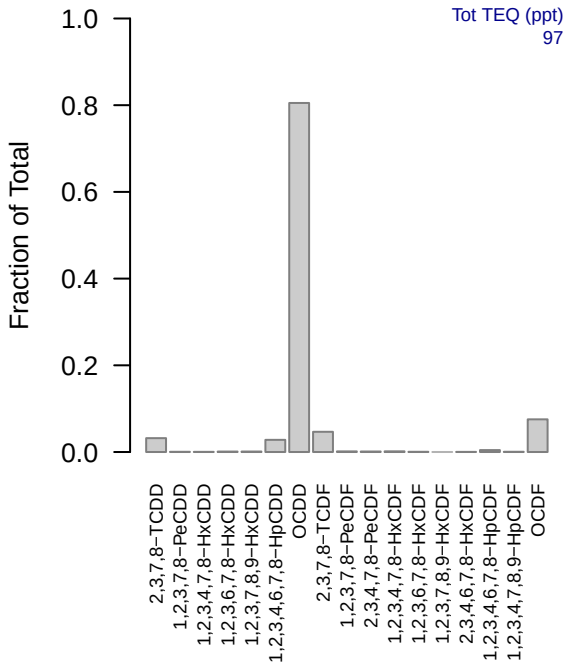
SJNE033_Core(152.4−182.88 cm)



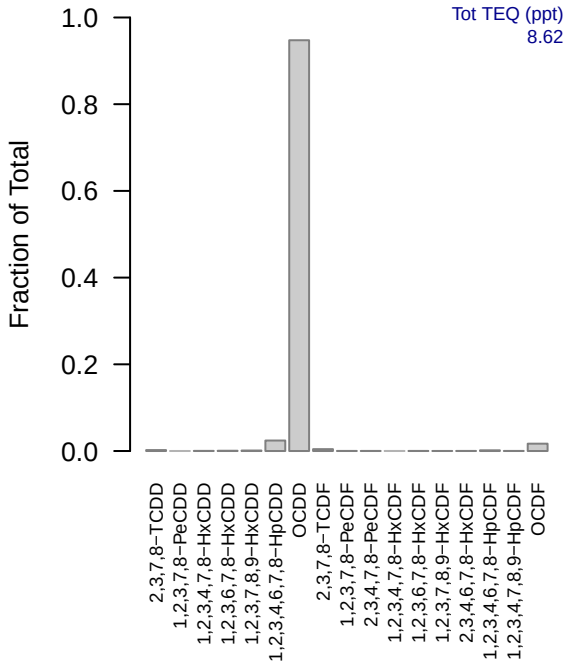
SJNE033_Core(182.88−213.36 cm)



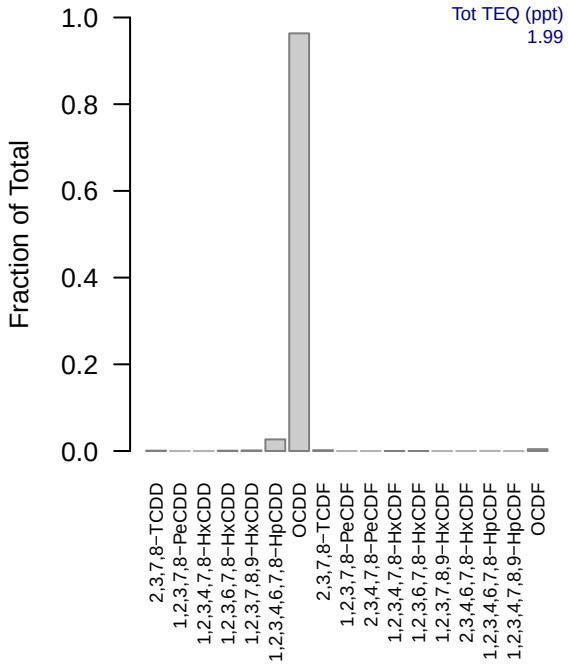
SJNE033_Core(213.36−243.84 cm)



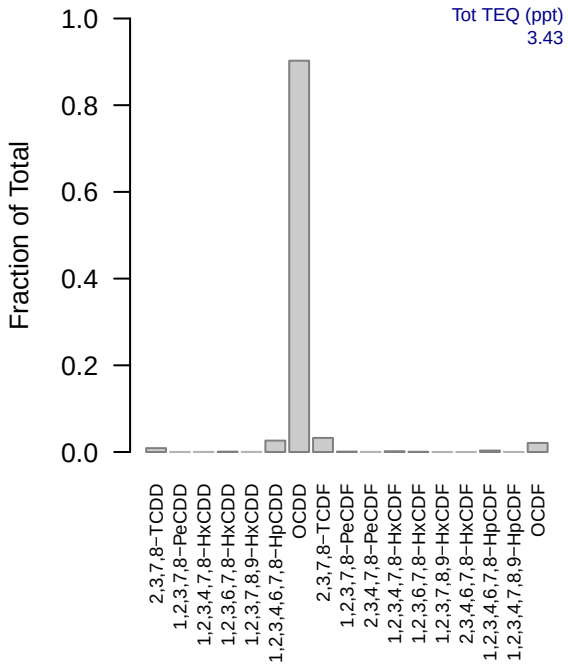
SJNE033_Core(243.84−274.32 cm)



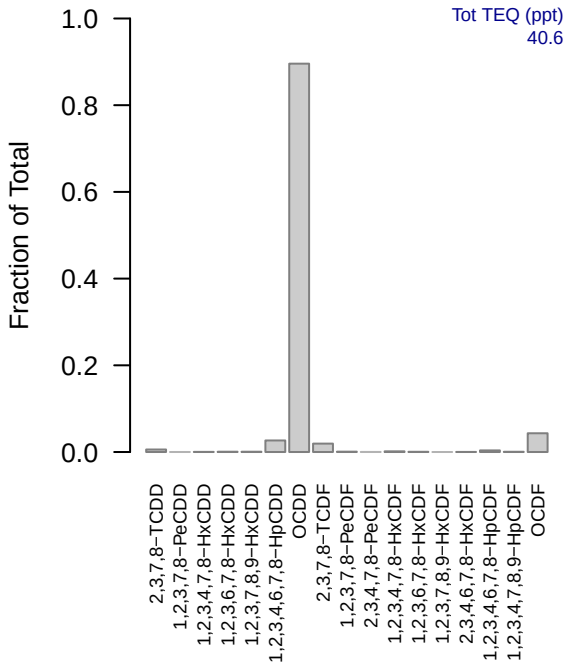
SJNE033_Core(274.32−304.8 cm)



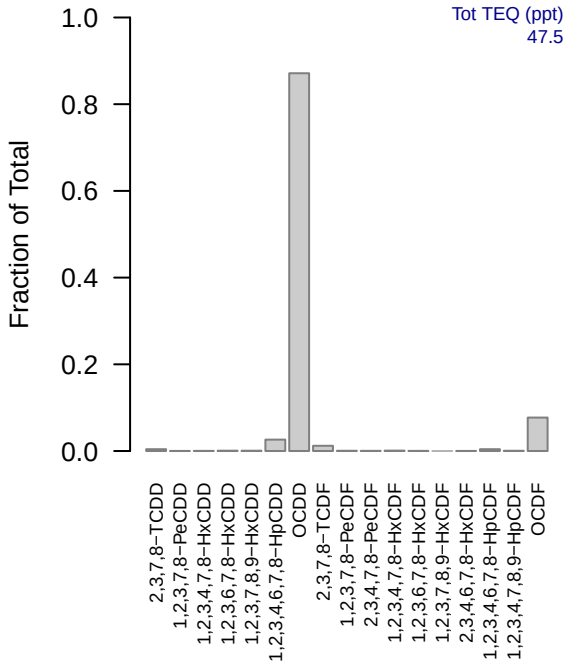
SJNE033_Core(30.48−60.96 cm)



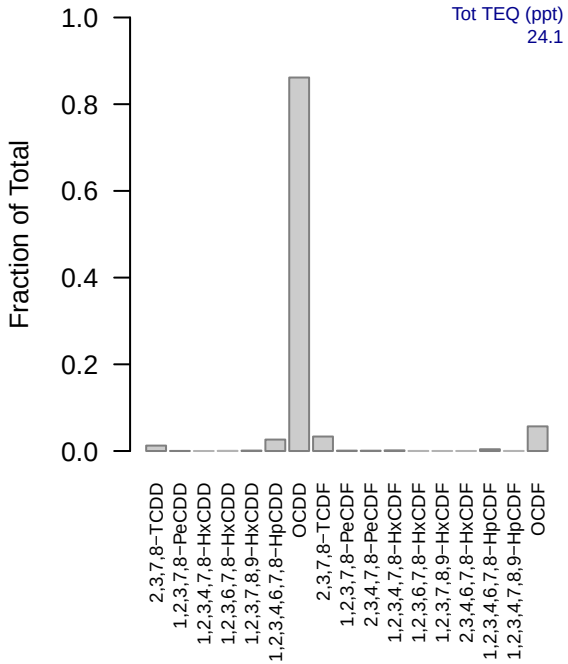
SJNE033_Core(60.96−91.44 cm)



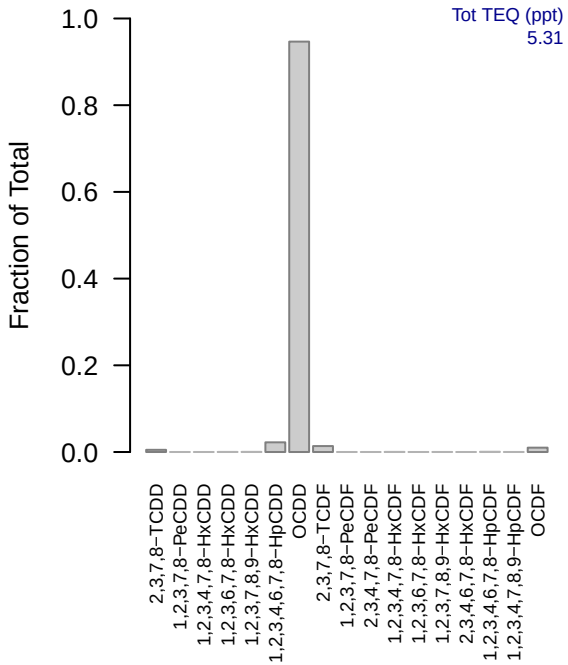
SJNE033_Core(91.44−121.92 cm)



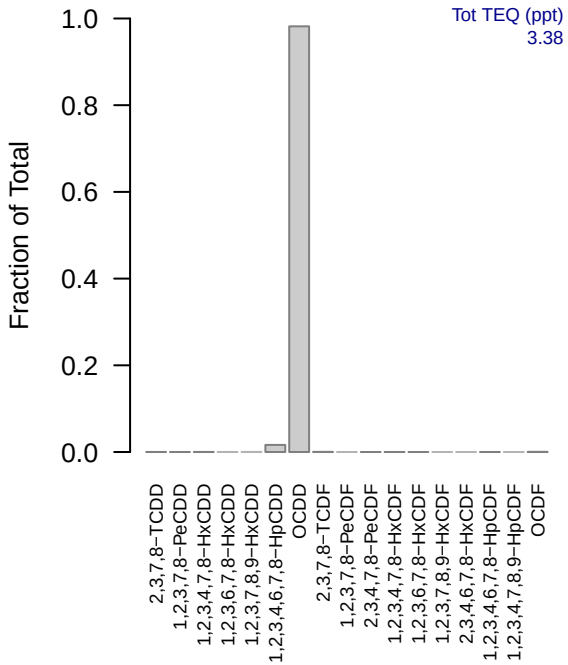
SJNE033_Grab(0−15.24 cm)



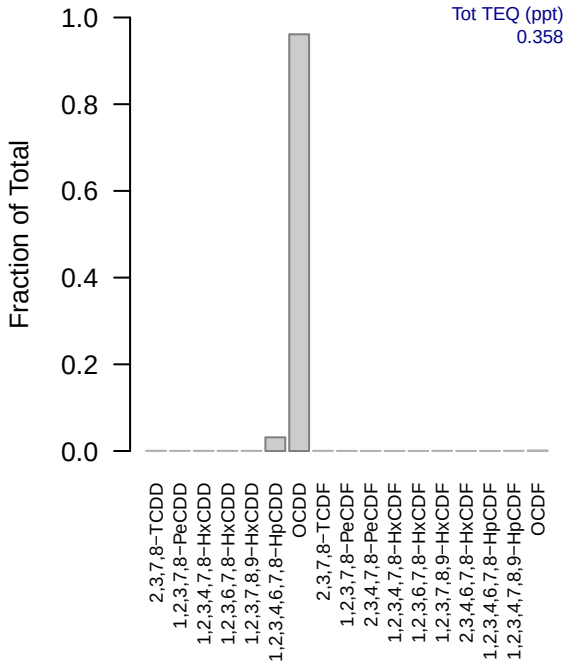
SJNE034(0−15.24 cm)



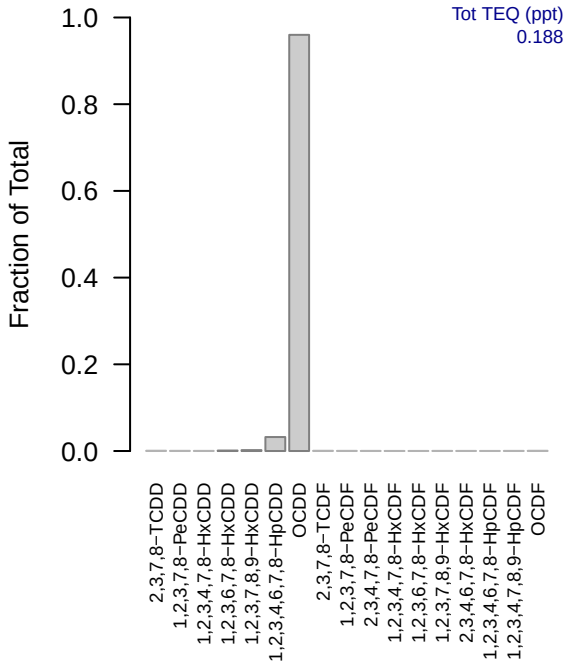
SJNE035_Core(0−30.48 cm)



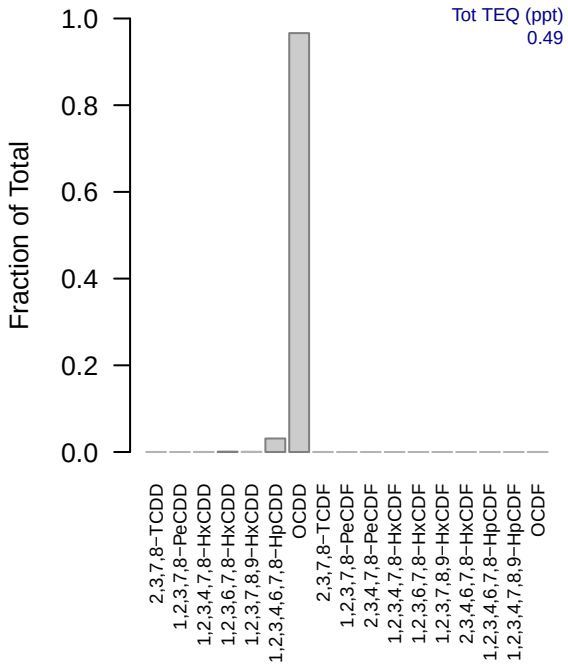
SJNE035_Core(121.92−152.4 cm)



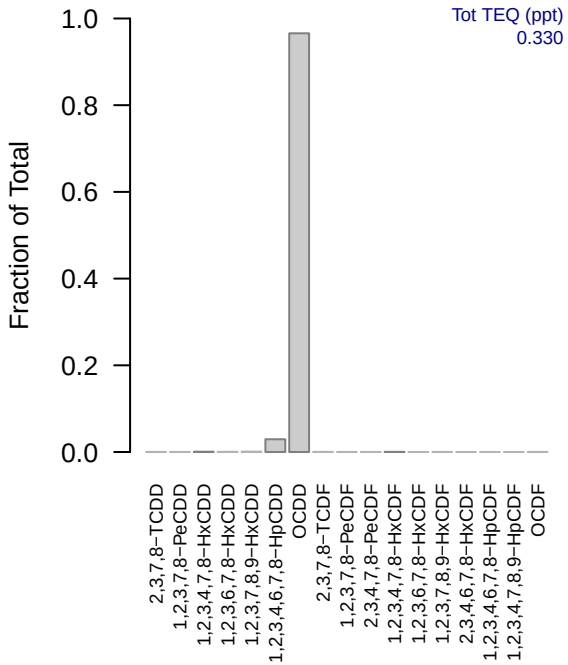
SJNE035_Core(152.4−182.88 cm)



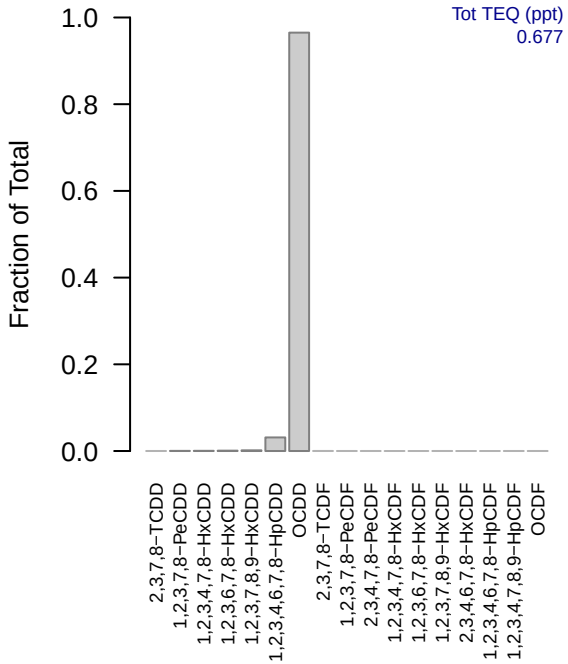
SJNE035_Core(182.88−213.36 cm)



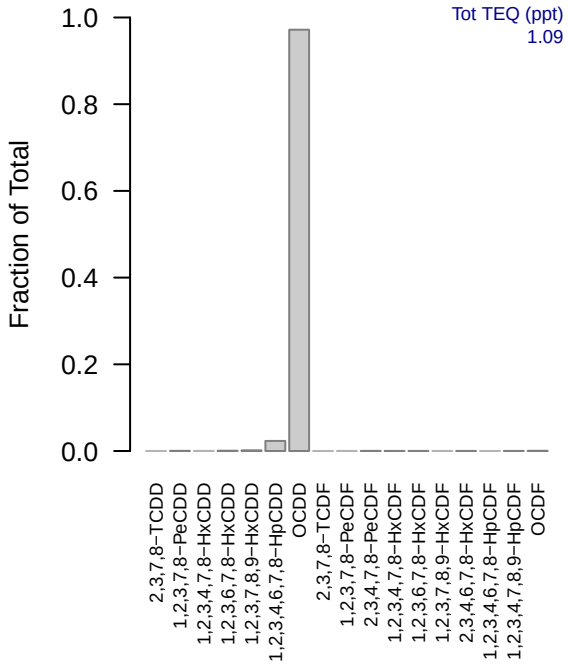
SJNE035_Core(213.36−243.84 cm)



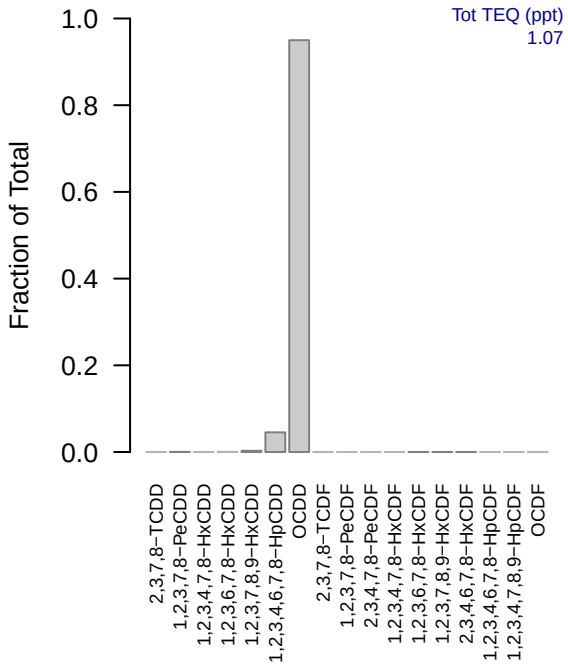
SJNE035_Core(243.84−274.32 cm)



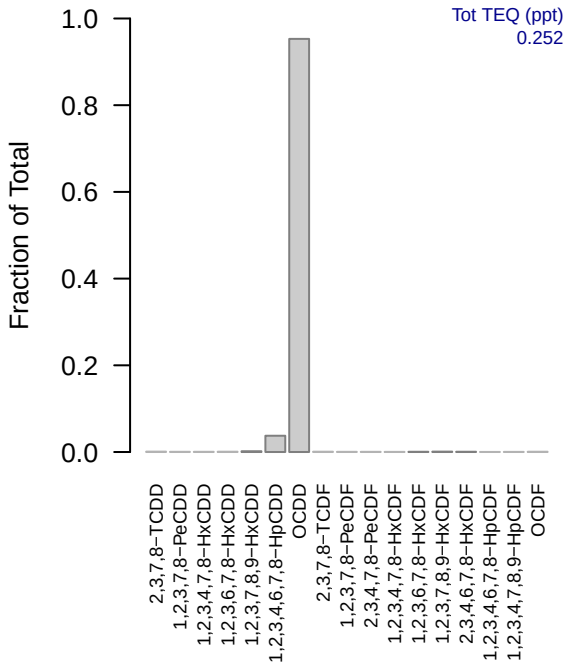
SJNE035_Core(30.48−60.96 cm)



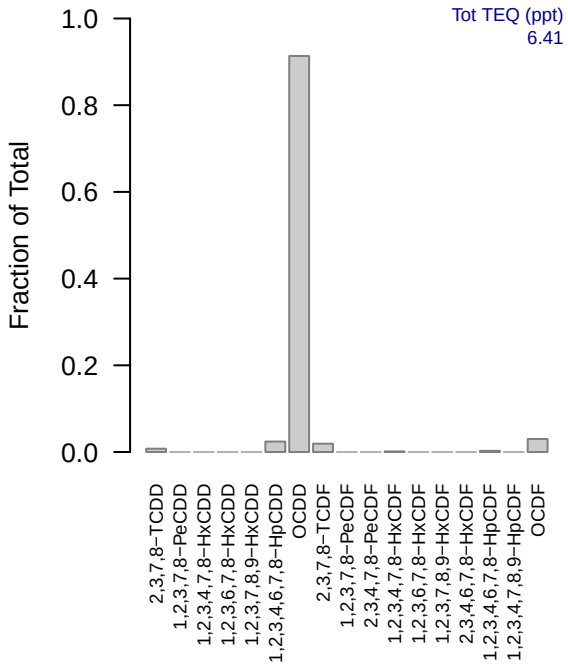
SJNE035_Core(60.96−91.44 cm)



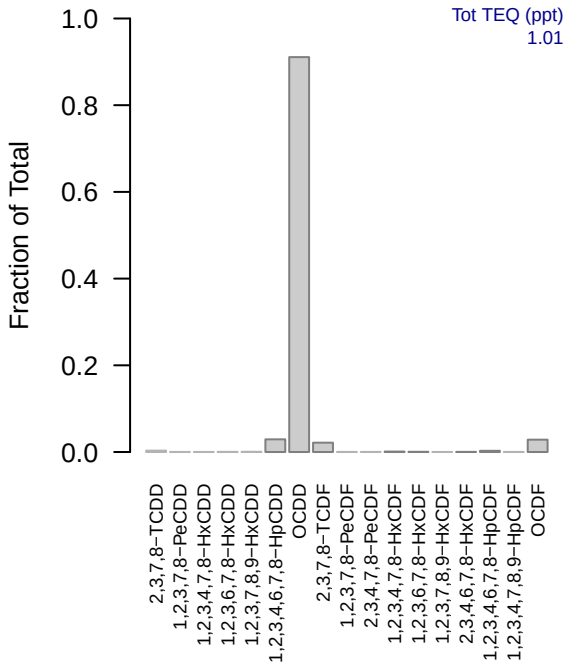
SJNE035_Core(91.44−121.92 cm)



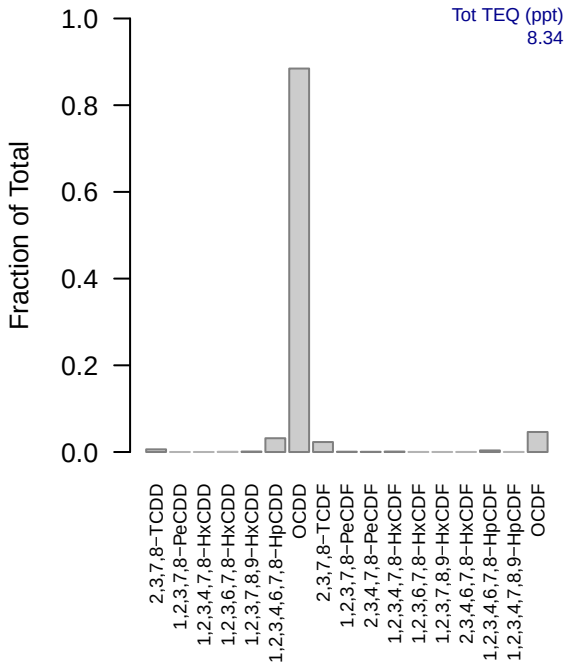
SJNE035_Grab(0−15.24 cm)



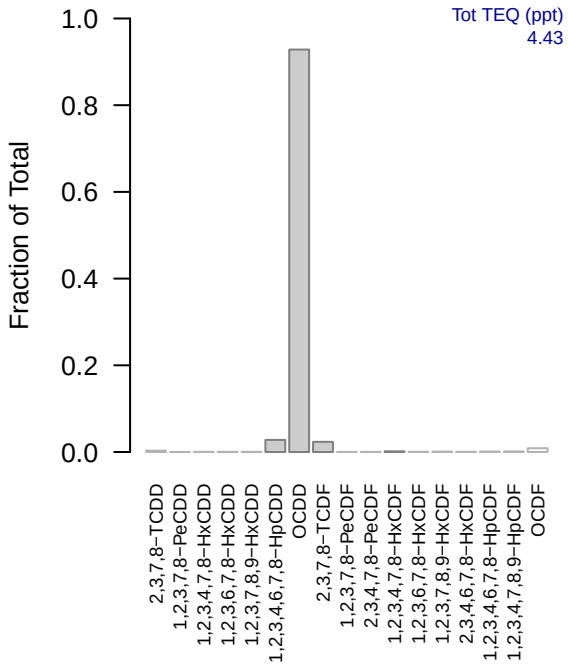
SJNE036(0−15.24 cm)



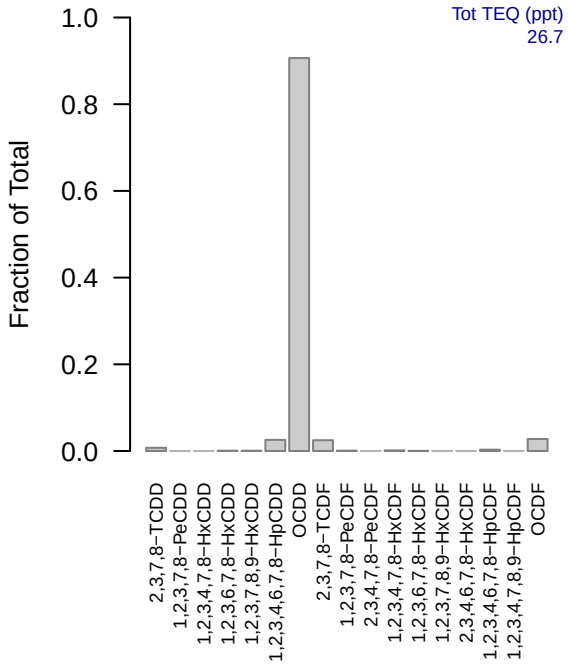
SJNE037(0−15.24 cm)



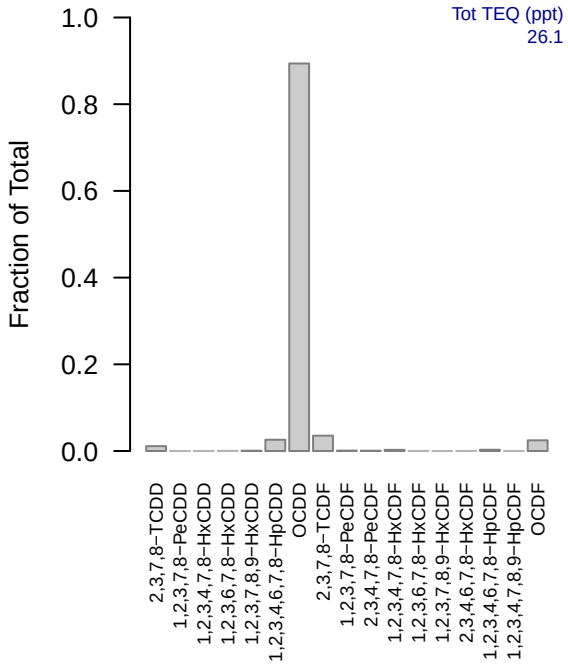
SJNE038(0−15.24 cm)



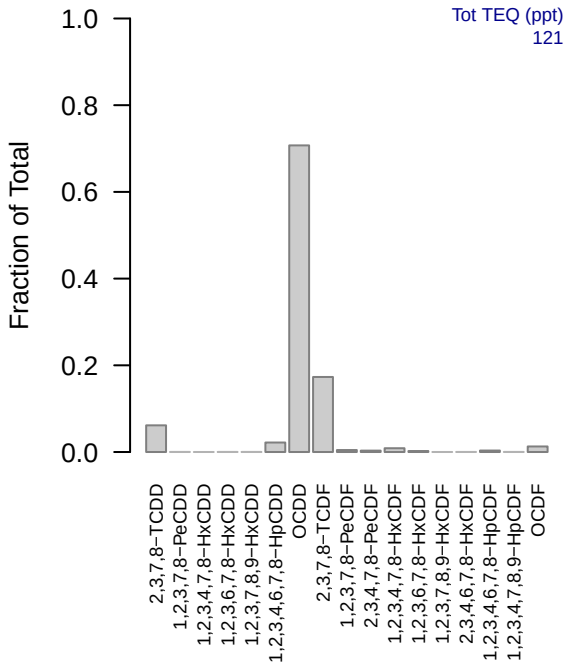
SJNE039(0−15.24 cm)



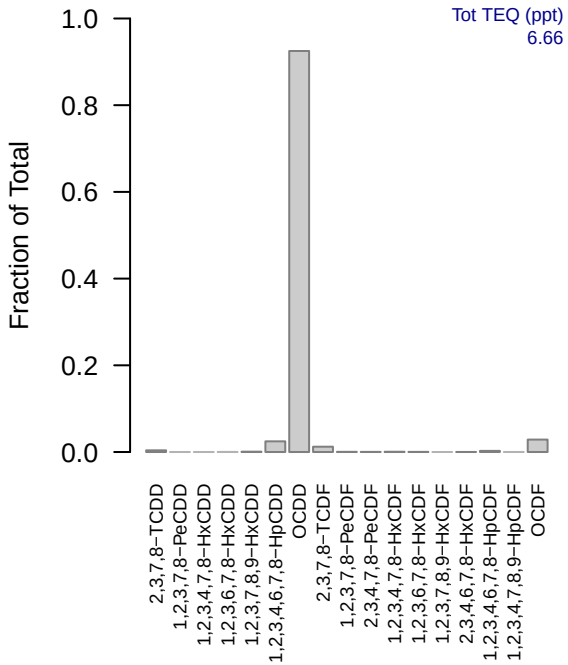
SJNE040(0−15.24 cm)



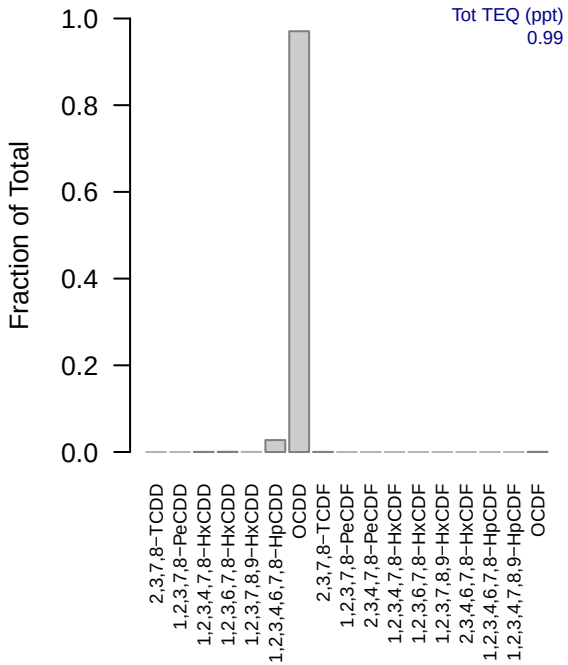
SJNE041(0−15.24 cm)



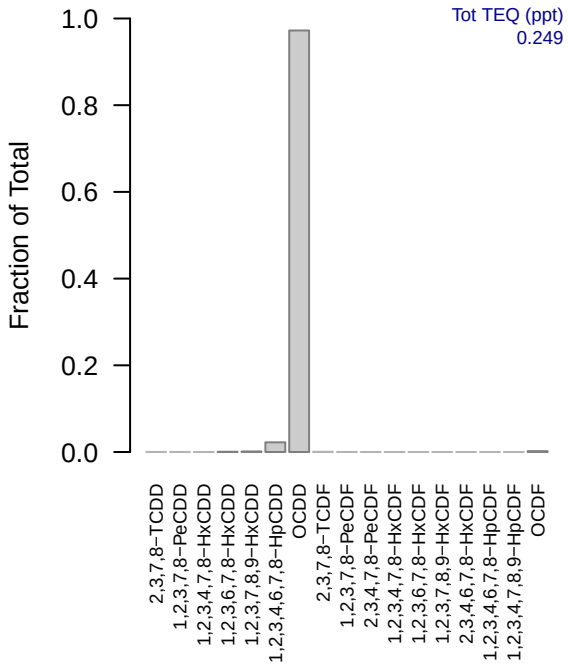
SJNE041(0−30.48 cm)



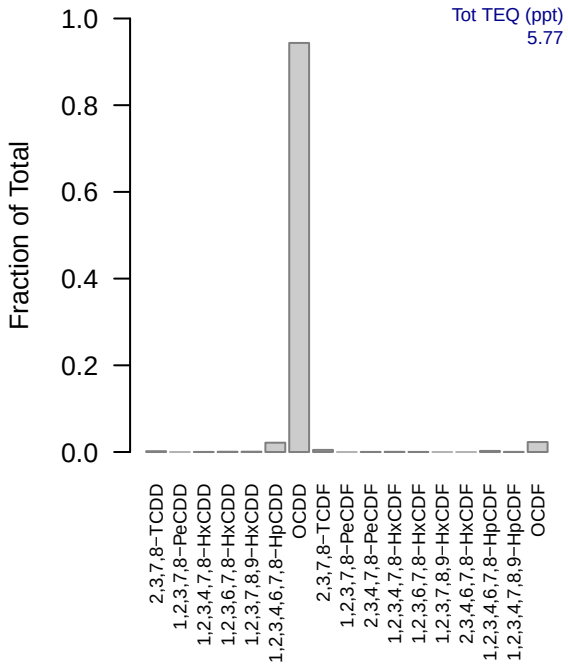
SJNE041(121.92−152.4 cm)



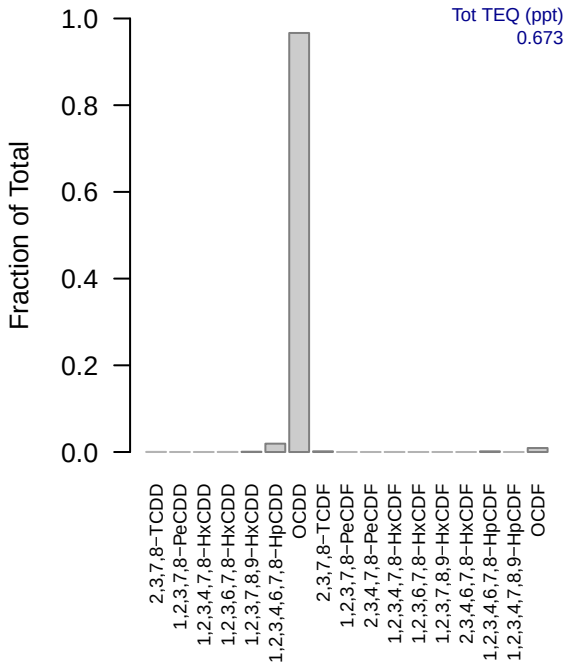
SJNE041(152.4−182.88 cm)



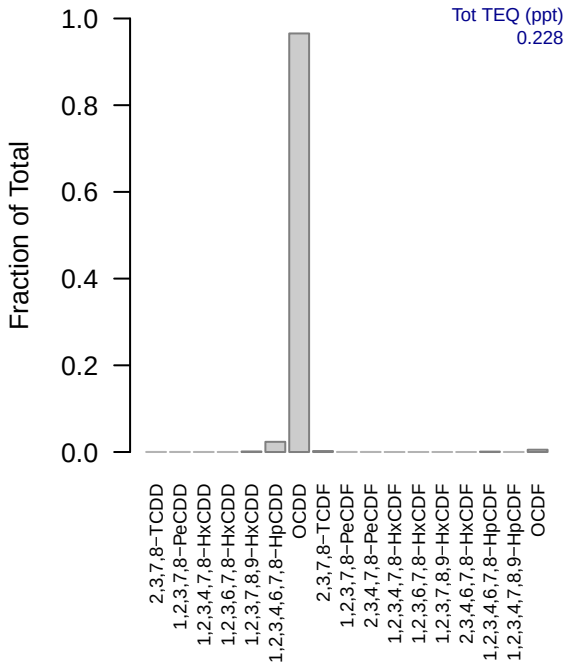
SJNE041(30.48−60.96 cm)



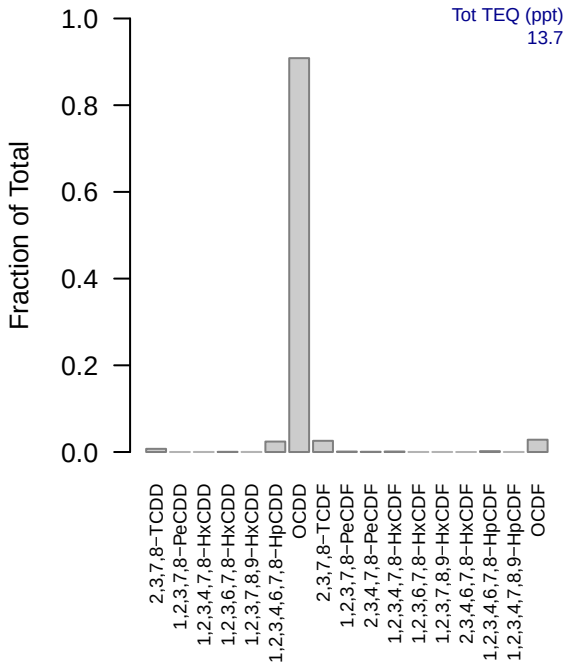
SJNE041(60.96−91.44 cm)



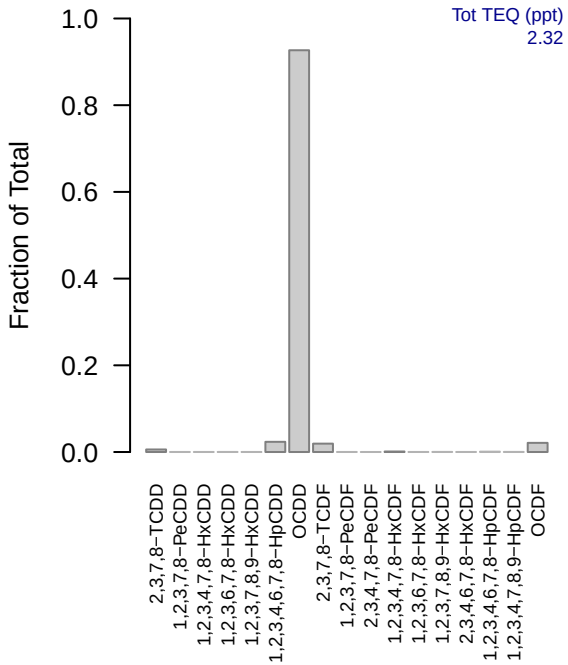
SJNE041(91.44−121.92 cm)



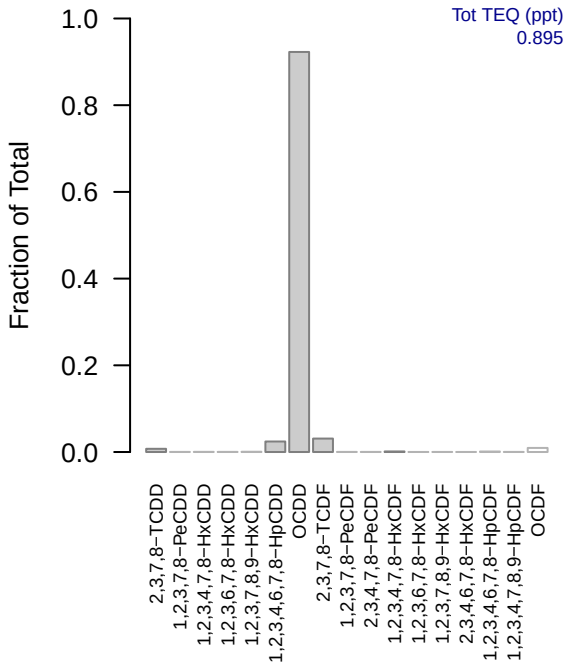
SJNE042(0−15.24 cm)



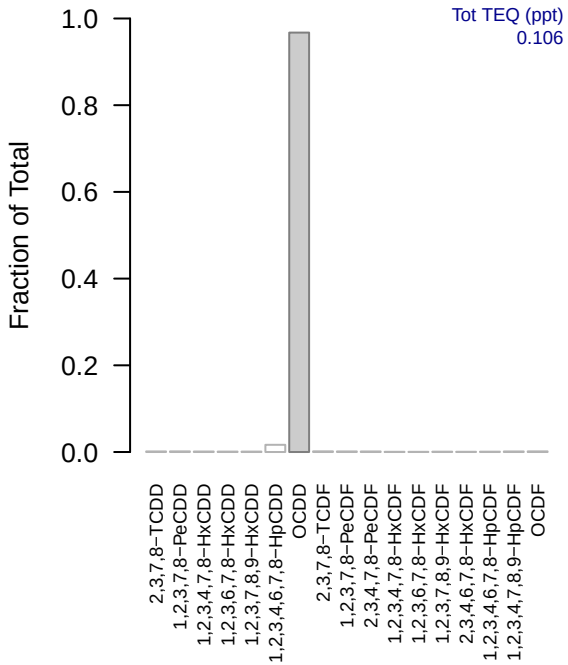
SJNE043(0−15.24 cm)



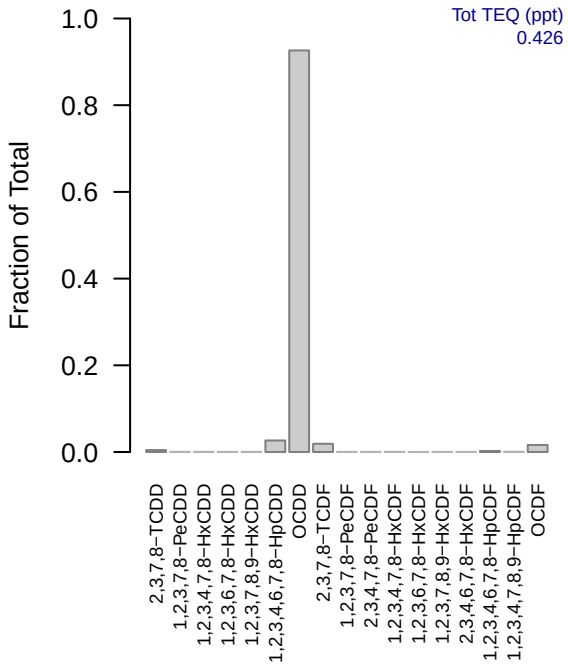
SJNE043(0−30.48 cm)



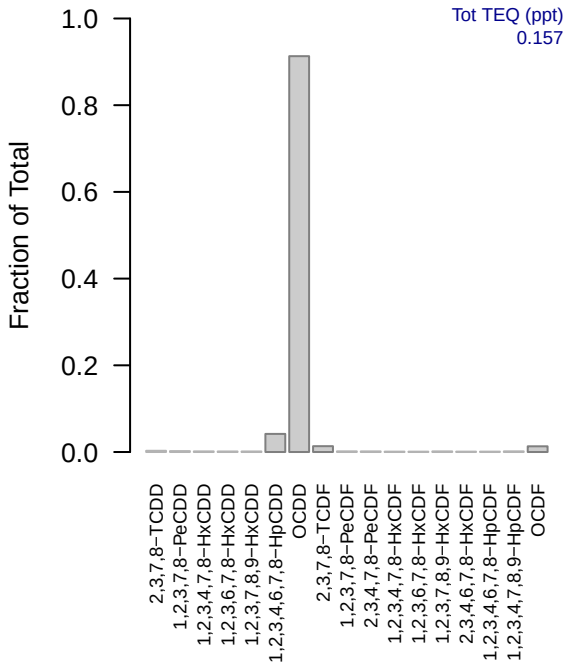
SJNE043(121.92−152.4 cm)



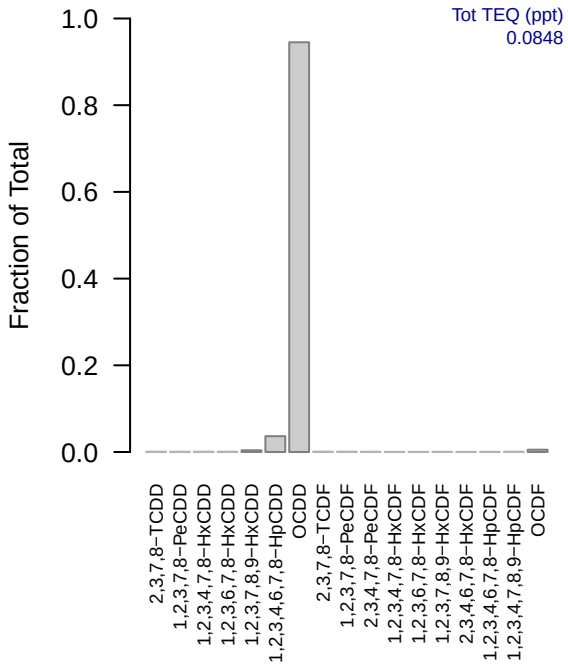
SJNE043(30.48−60.96 cm)

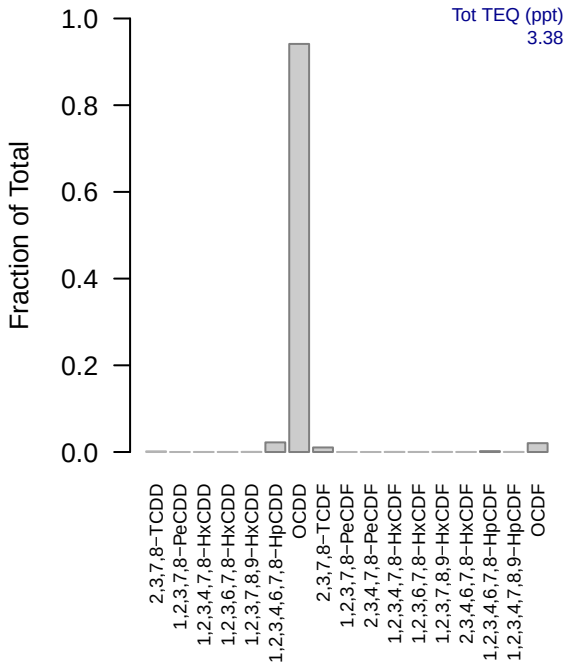


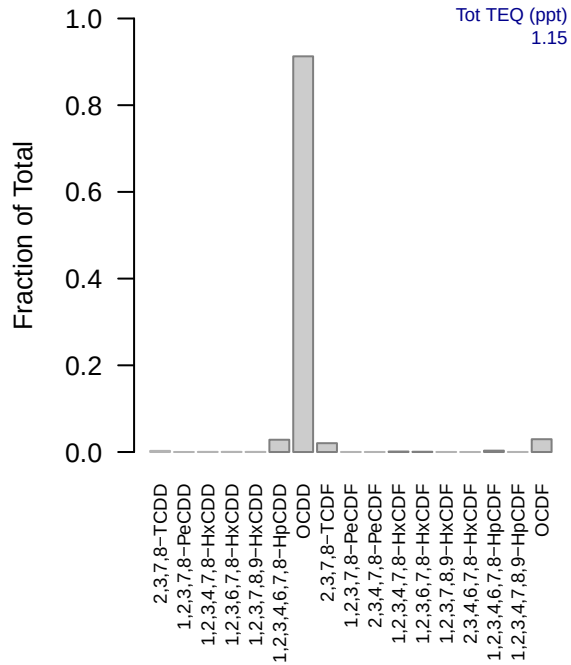
SJNE043(60.96−91.44 cm)

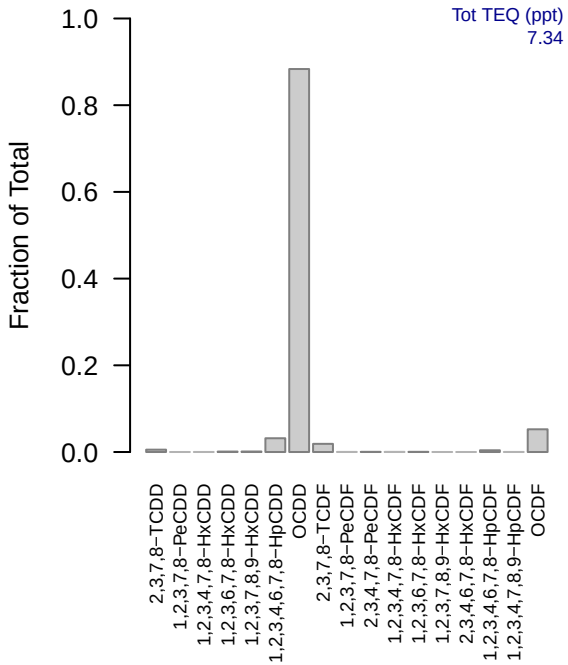


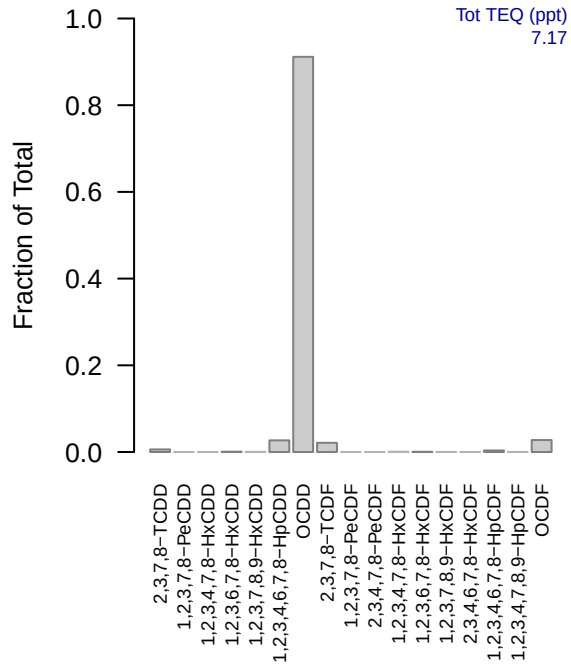
SJNE043(91.44−121.92 cm)



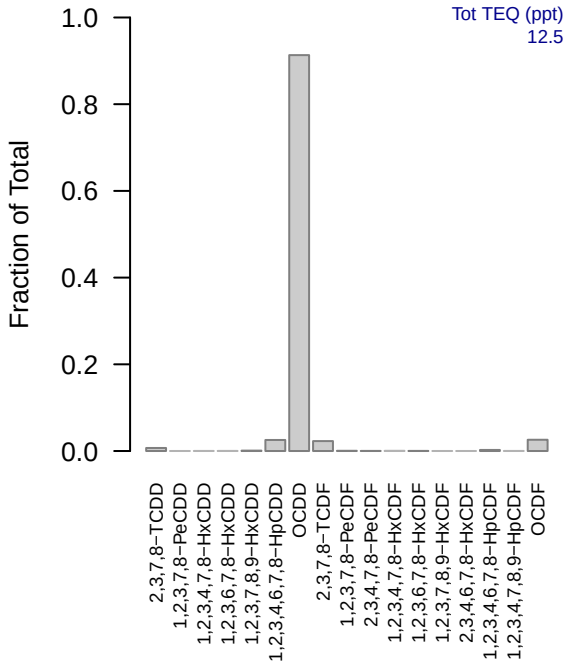

SJNE044(0−15.24 cm)
Tot TEQ (ppt)
3.38
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE045(0−15.24 cm)
Tot TEQ (ppt)
1.15
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

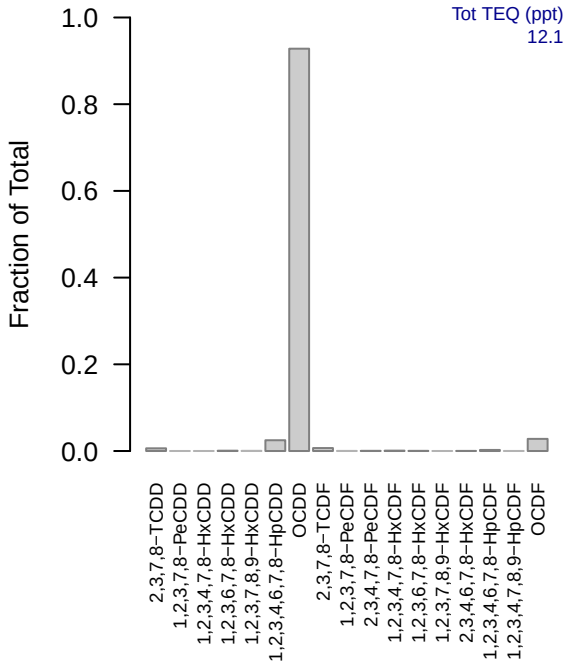

SJNE046(0−15.24 cm)
Tot TEQ (ppt)
7.34
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE047(0−15.24 cm)
Tot TEQ (ppt)
7.17
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

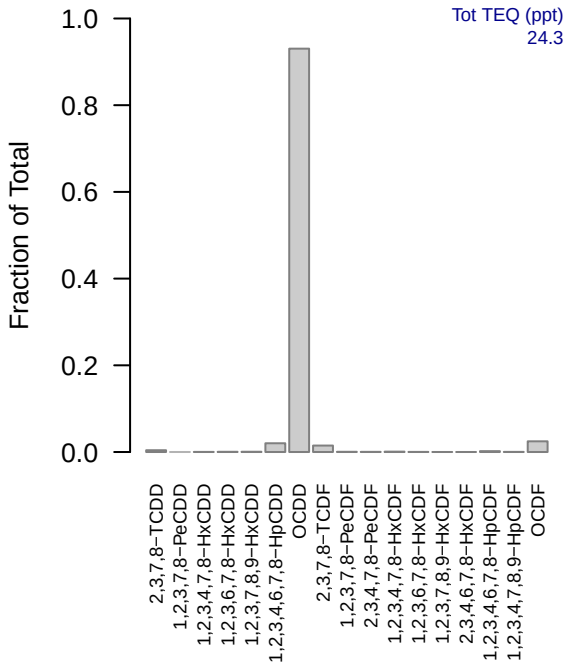
SJNE048(0−15.24 cm)



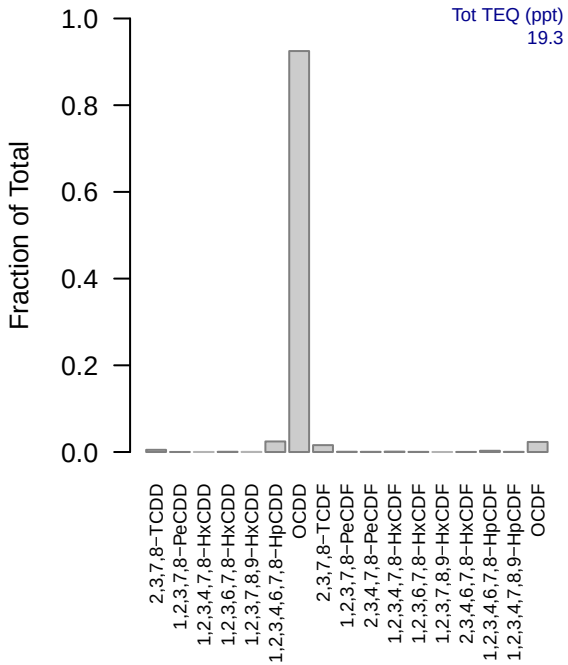
SJNE049(0−15.24 cm)



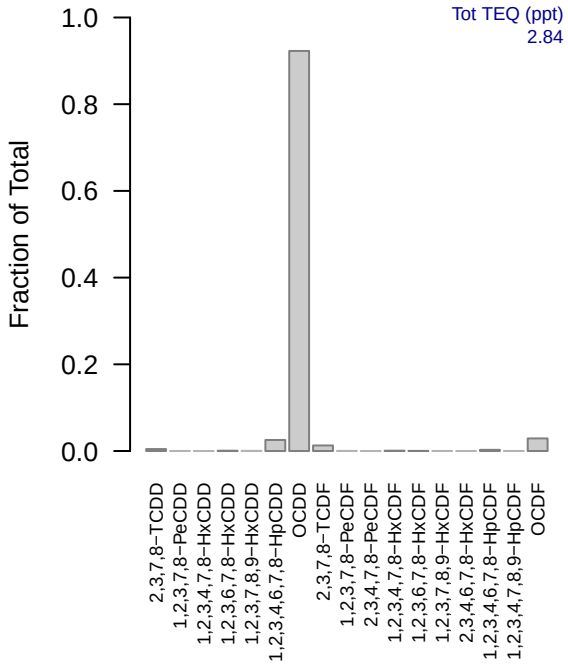
SJNE050_Core(0−30.48 cm)



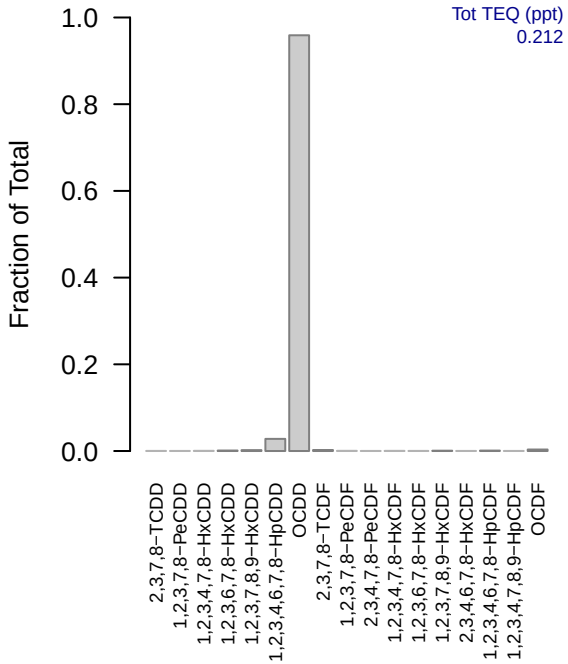
SJNE050_Core(121.92−152.4 cm)



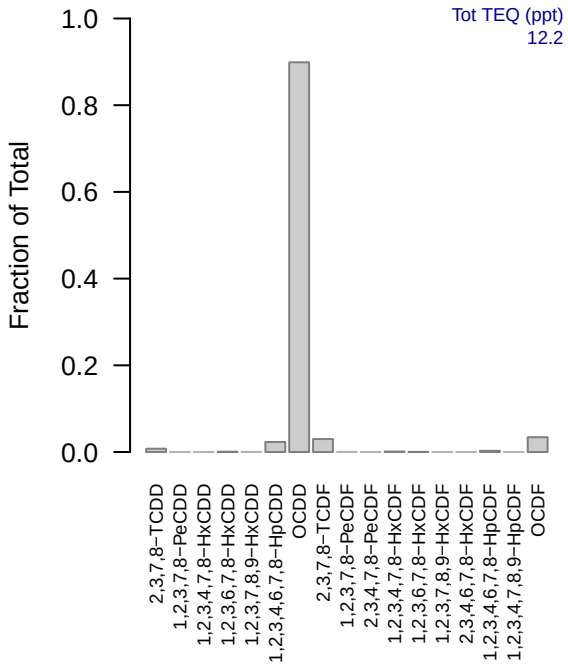
SJNE050_Core(152.4−182.88 cm)



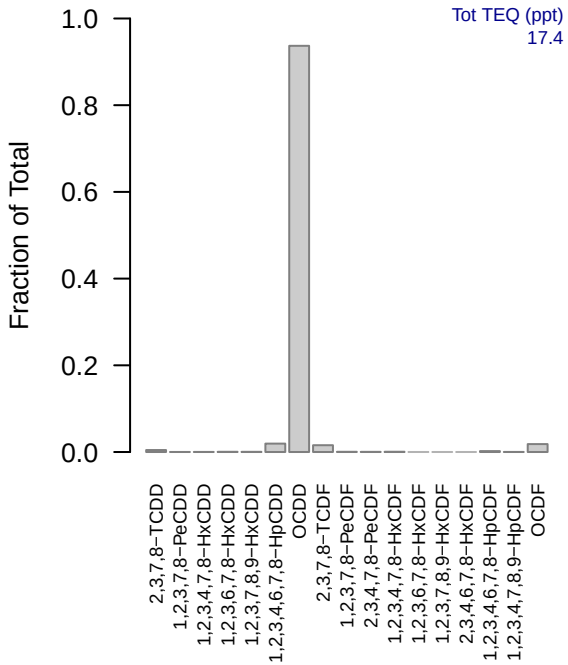
SJNE050_Core(182.88−213.36 cm)



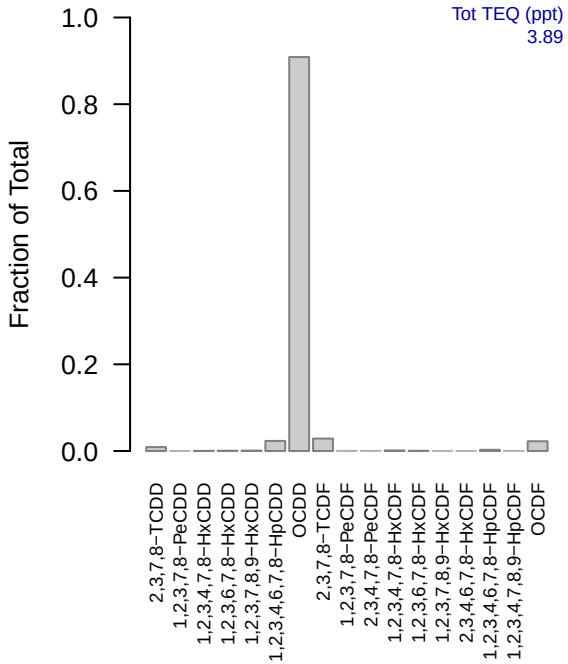
SJNE050_Core(30.48−60.96 cm)



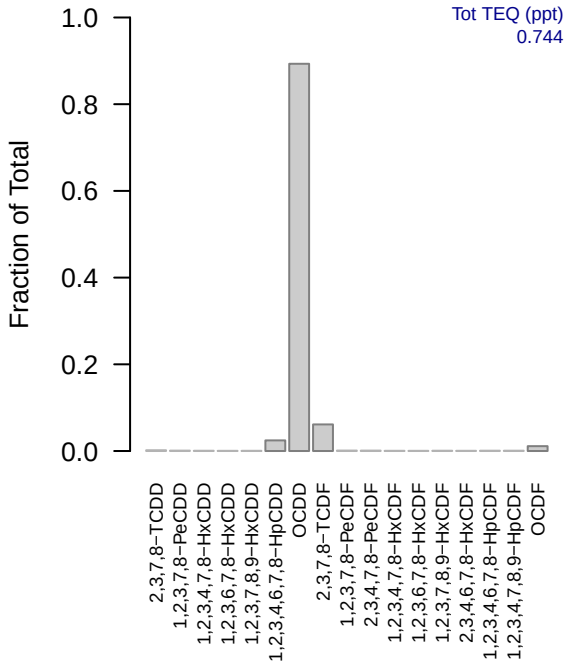
SJNE050_Core(60.96−91.44 cm)



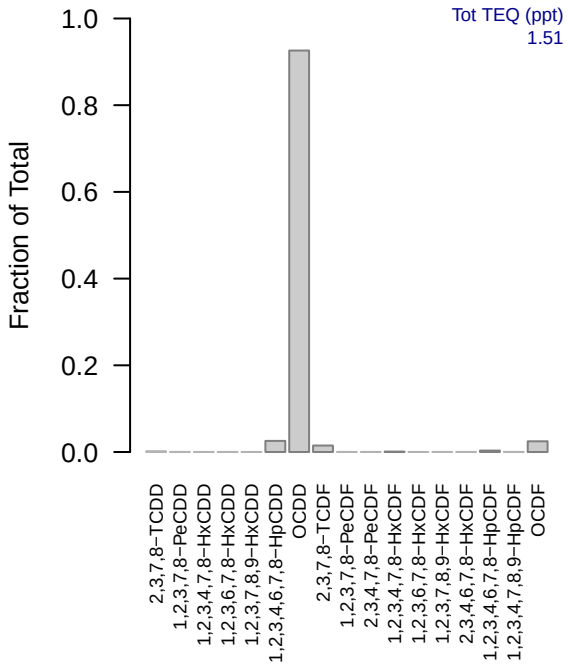
SJNE050_Core(91.44−121.92 cm)



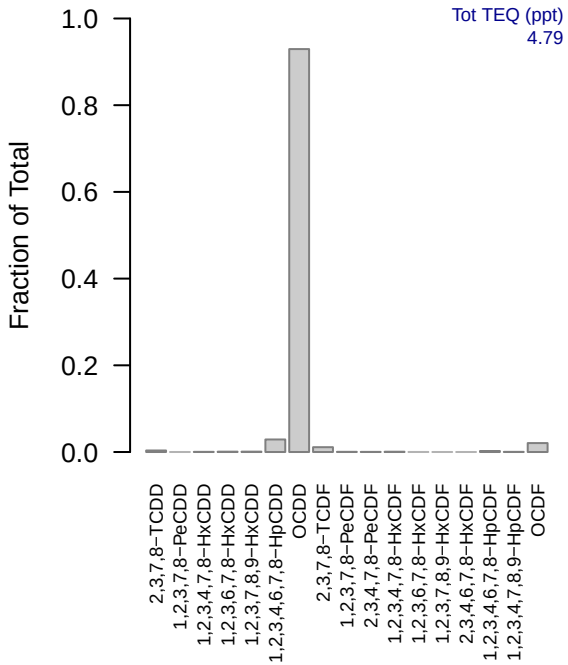
SJNE050_Grab(0−15.24 cm)

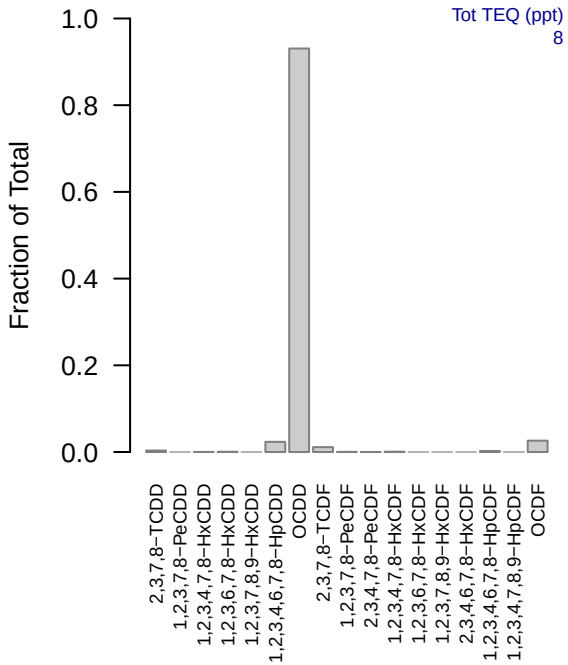


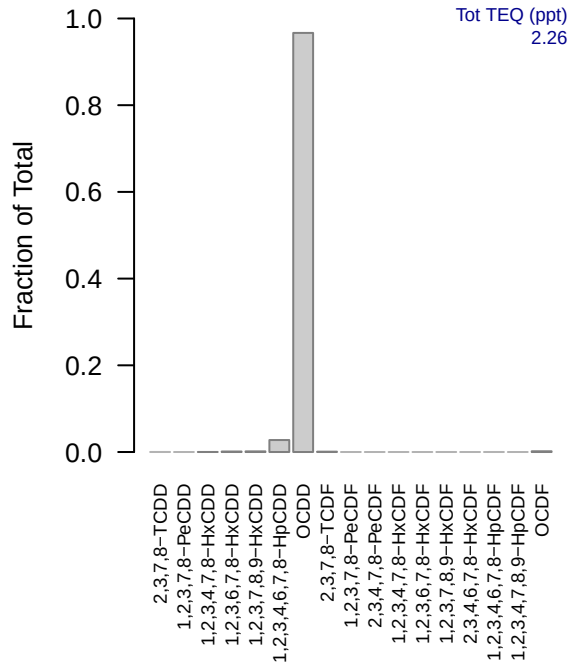
SJNE051(0−15.24 cm)

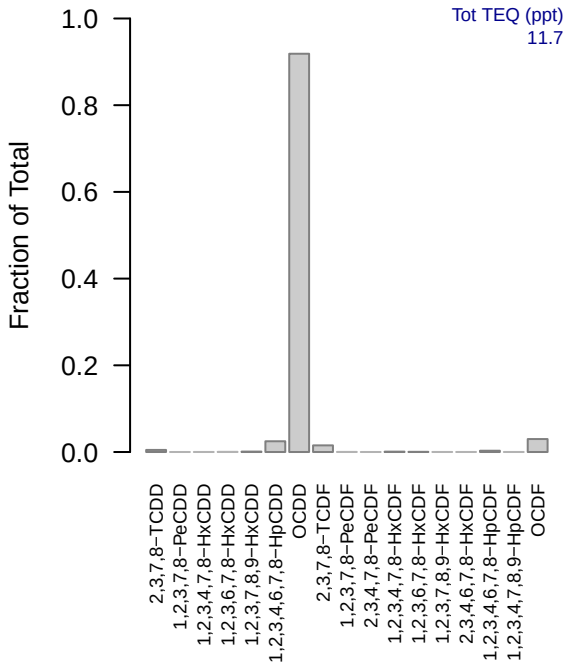


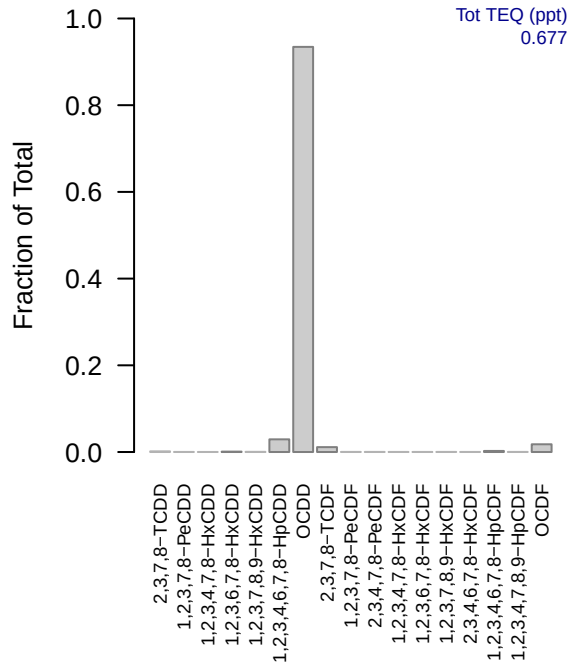
SJNE052(0−15.24 cm)

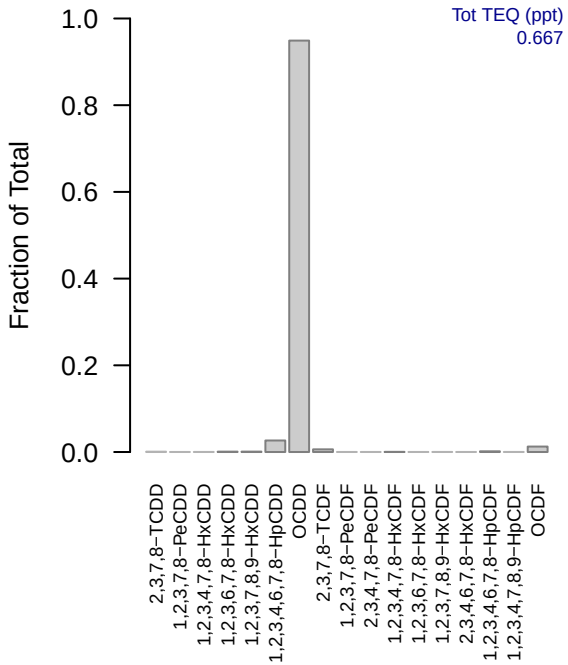


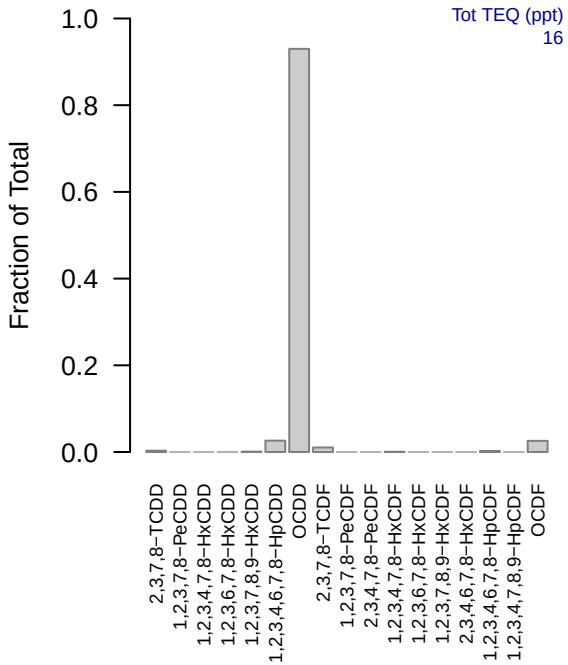

SJNE053(0−15.24 cm)
Tot TEQ (ppt)
8
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

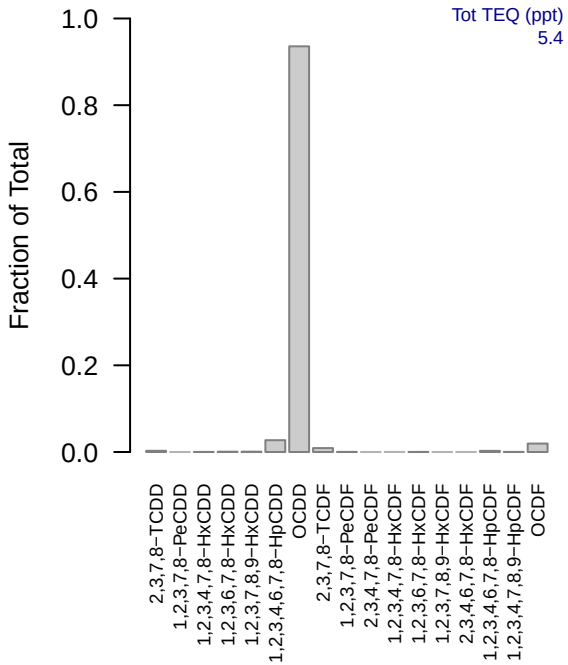

SJNE054(0−15.24 cm)
Tot TEQ (ppt)
2.26
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

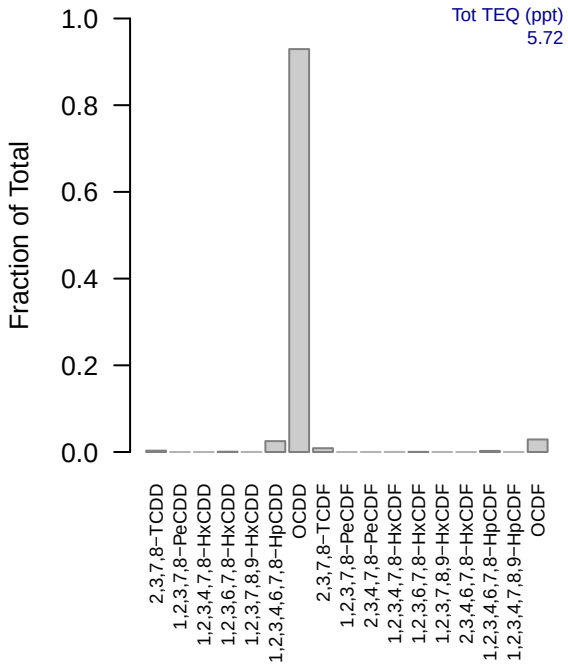

SJNE055(0−15.24 cm)
Tot TEQ (ppt)
11.7
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

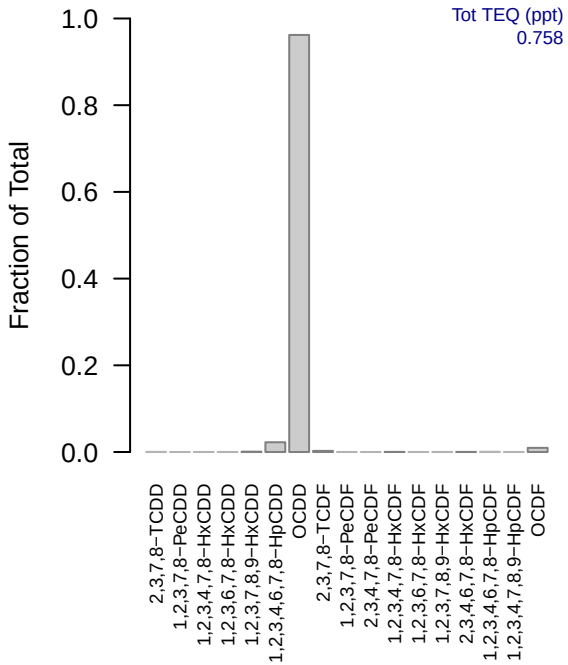

SJNE056(0−15.24 cm)
Tot TEQ (ppt)
0.677
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

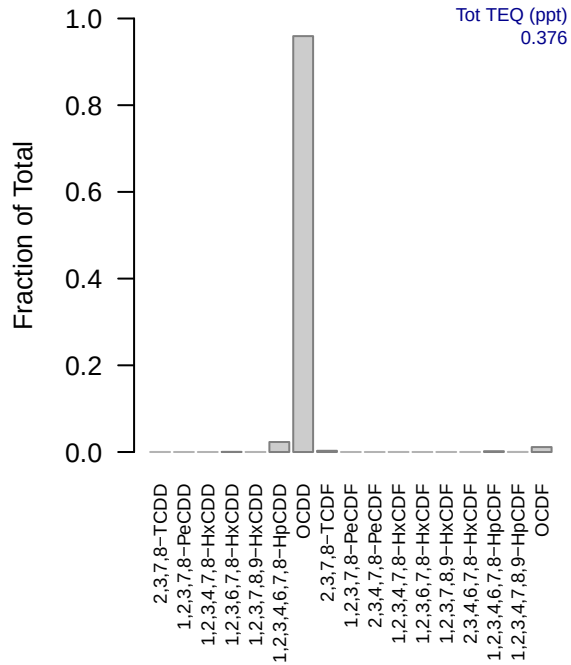

SJNE057(0−15.24 cm)
Tot TEQ (ppt)
0.667
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

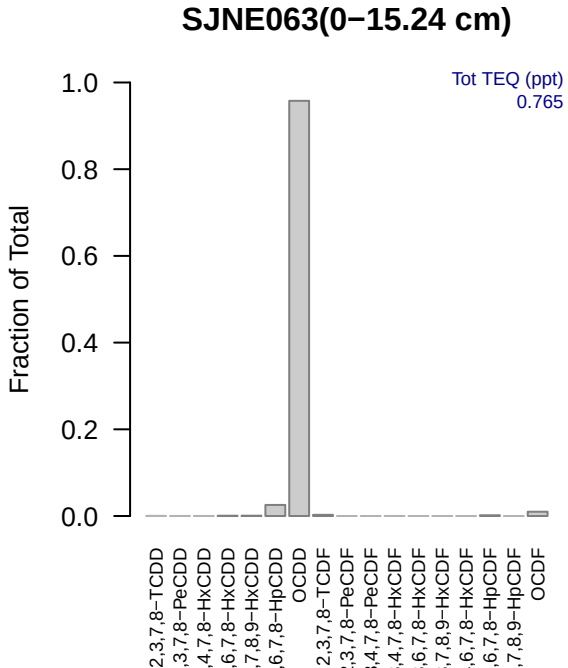

SJNE058(0−15.24 cm)
Tot TEQ (ppt)
16
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

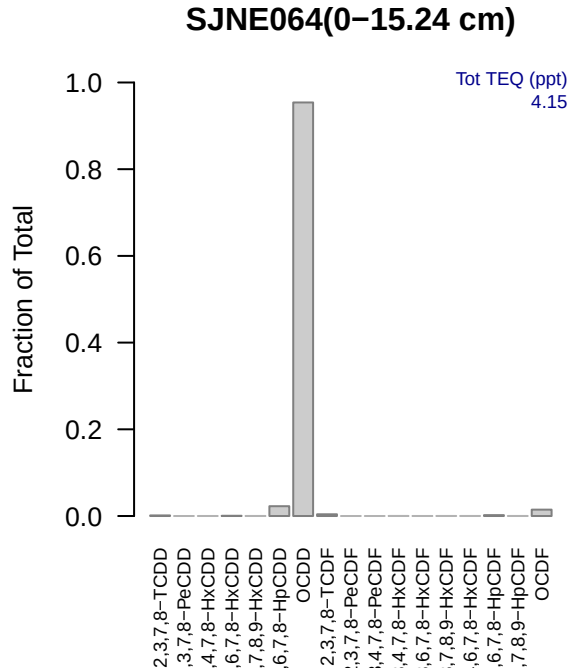

SJNE059(0−15.24 cm)
Tot TEQ (ppt)
5.4
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

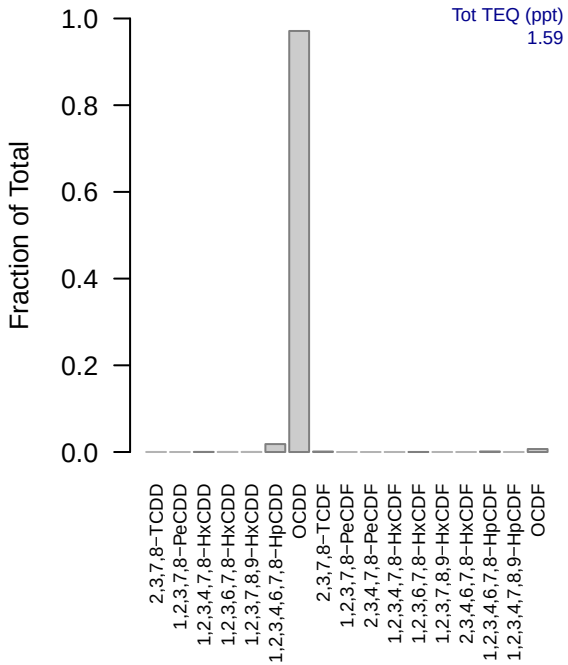

SJNE060(0−15.24 cm)
Tot TEQ (ppt)
5.72
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

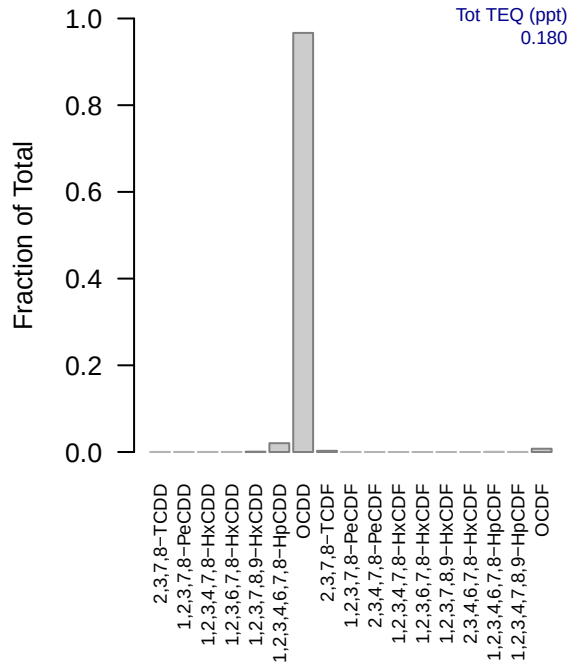

SJNE061(0−15.24 cm)
Tot TEQ (ppt)
0.758
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

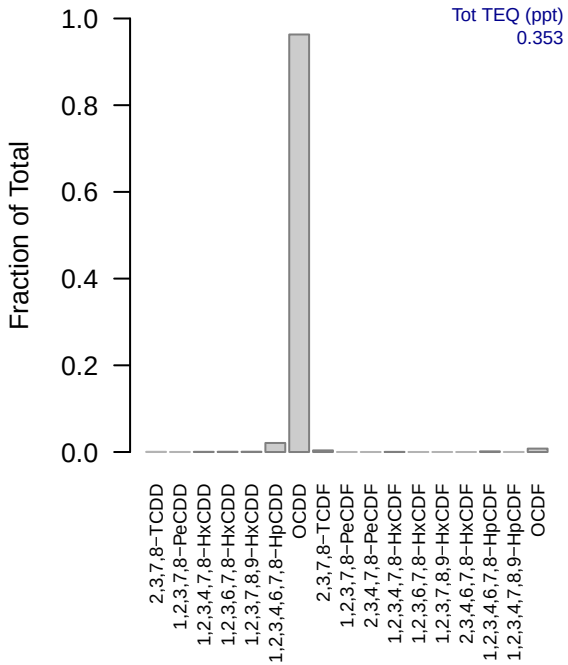

SJNE062(0−15.24 cm)
Tot TEQ (ppt)
0.376
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

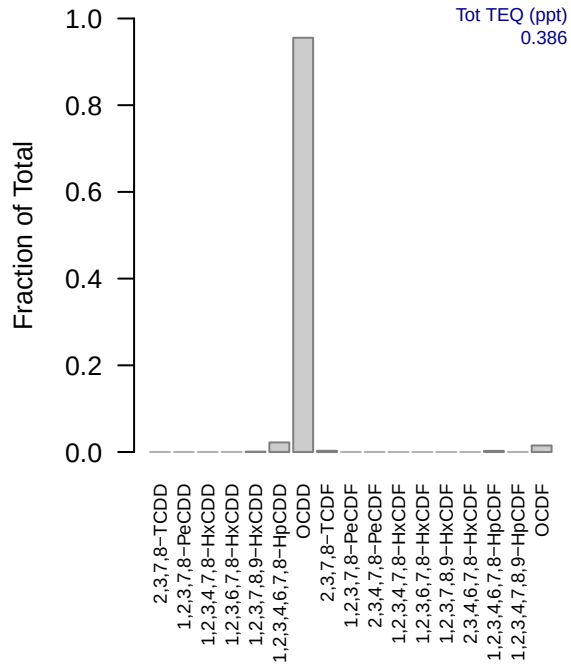

SJNE063(0−15.24 cm)
Tot TEQ (ppt)
0.765
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE064(0−15.24 cm)
Tot TEQ (ppt)
4.15
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

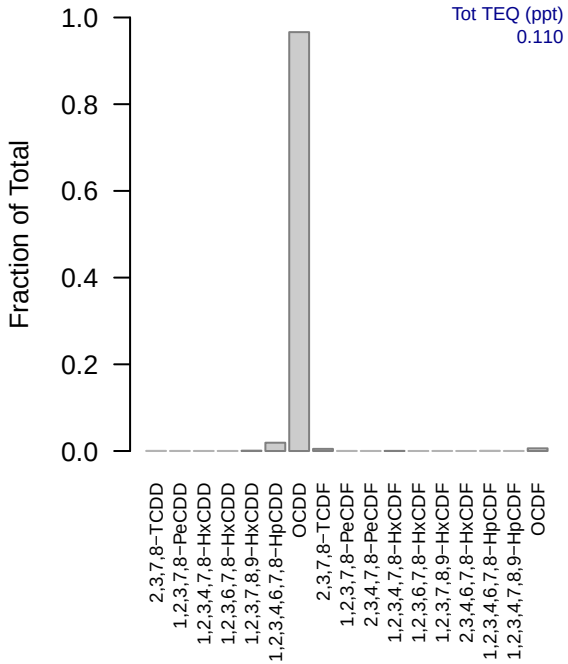

SJNE065(0−15.24 cm)
Tot TEQ (ppt)
1.59
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE066(0−15.24 cm)
Tot TEQ (ppt)
0.180
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

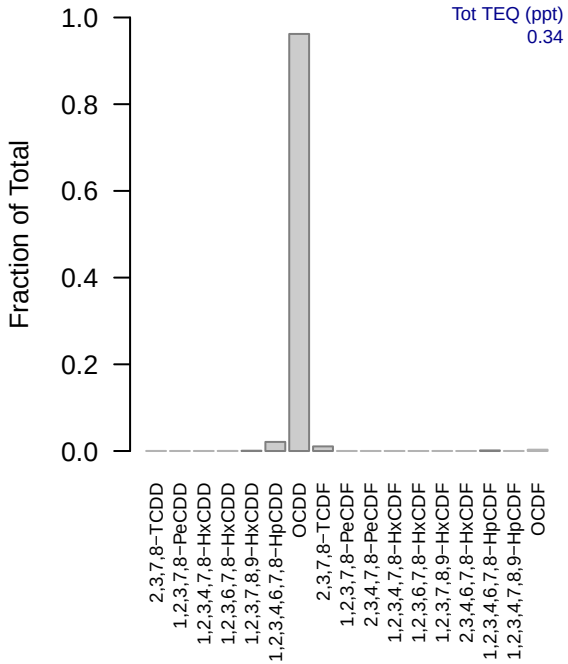

SJNE067(0−15.24 cm)
Tot TEQ (ppt)
0.353
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJNE068(0−15.24 cm)
Tot TEQ (ppt)
0.386
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

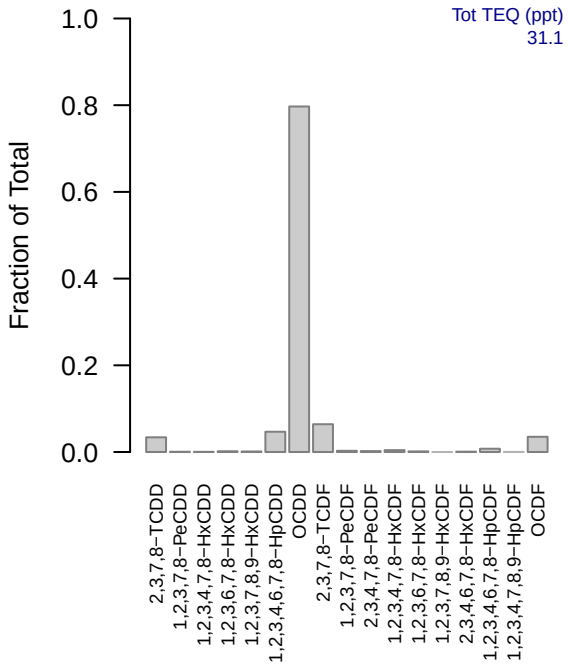
SJNE069(0−15.24 cm)



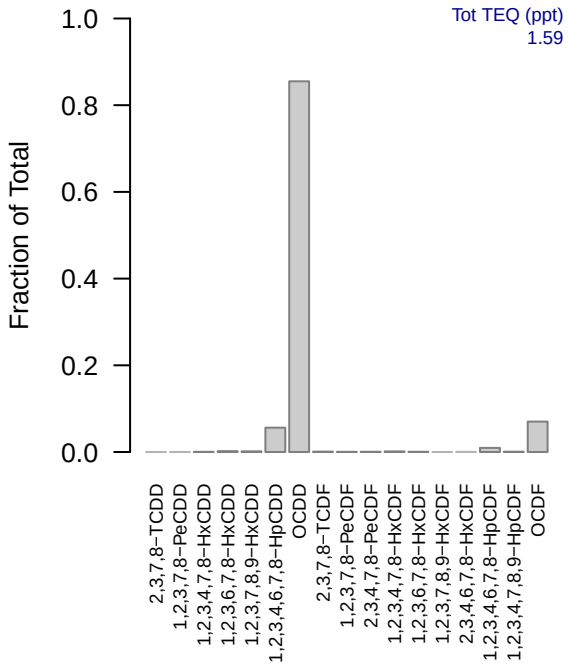
SJNE070(0−15.24 cm)



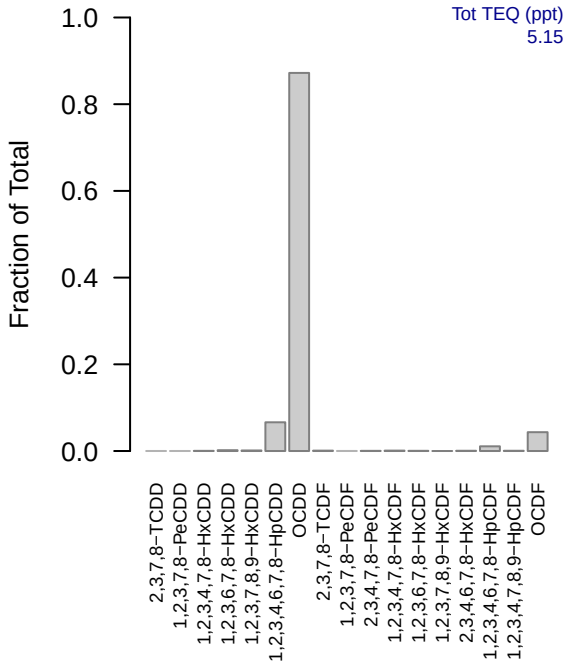
SJSB001(0−15.24 cm)



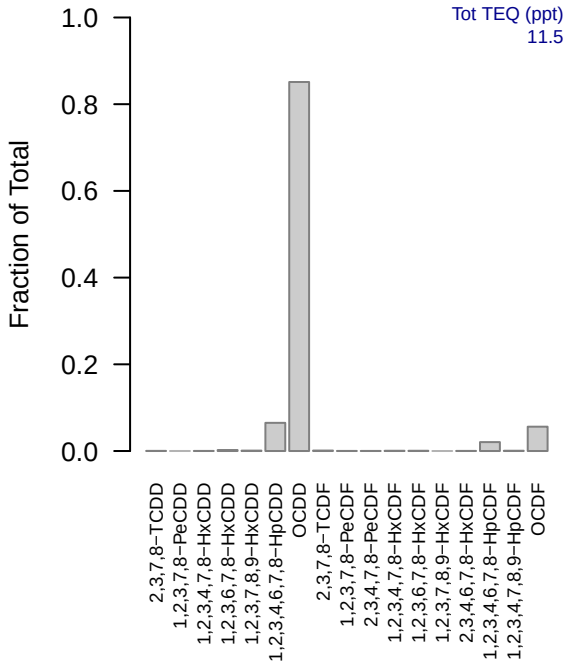
SJSB001(15.24−30.48 cm)



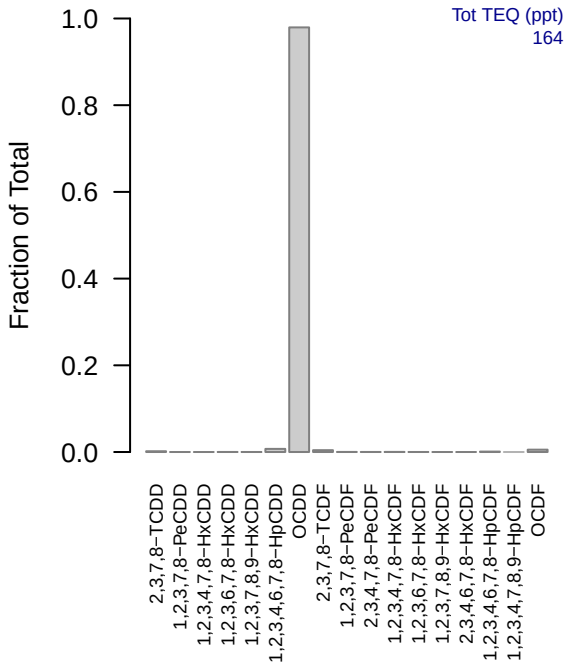
SJSB001(121.92−182.88 cm)



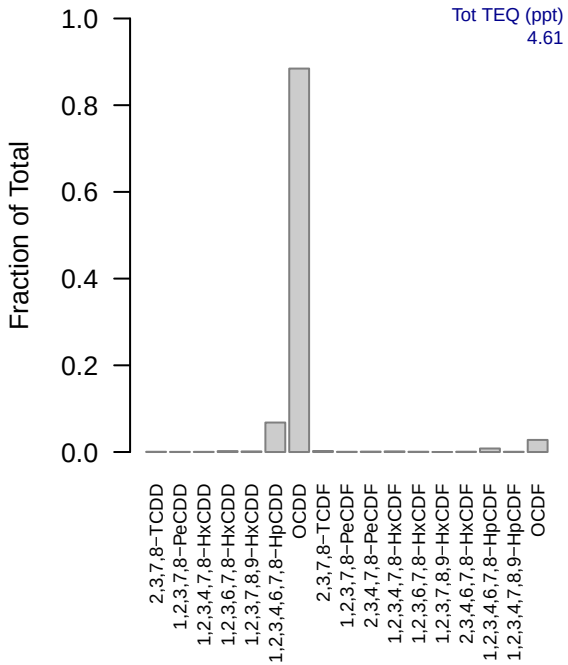
SJSB001(182.88−243.84 cm)



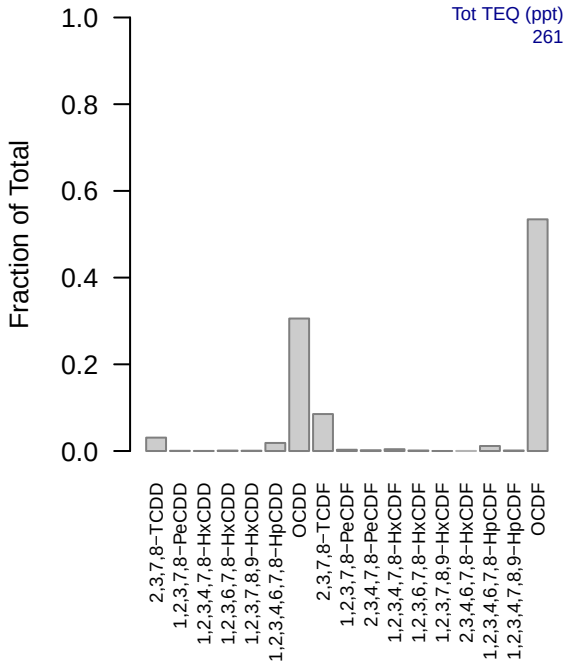
SJSB001(243.84−304.8 cm)



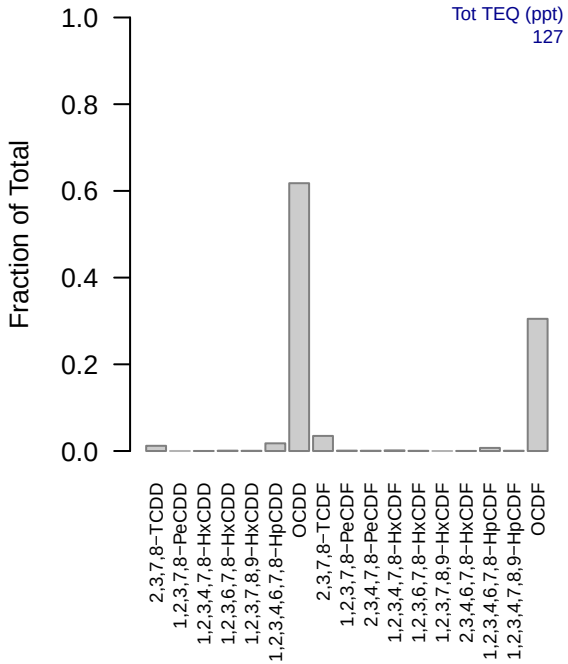
SJSB001(30.48−60.96 cm)



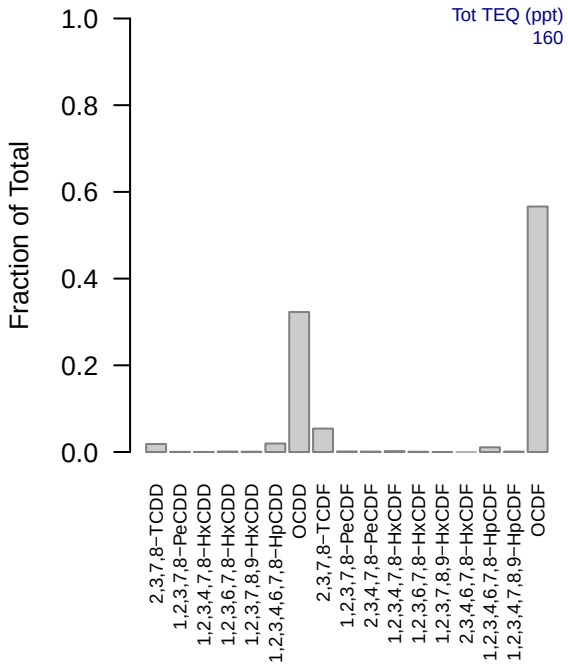
SJSB001(304.8−365.76 cm)



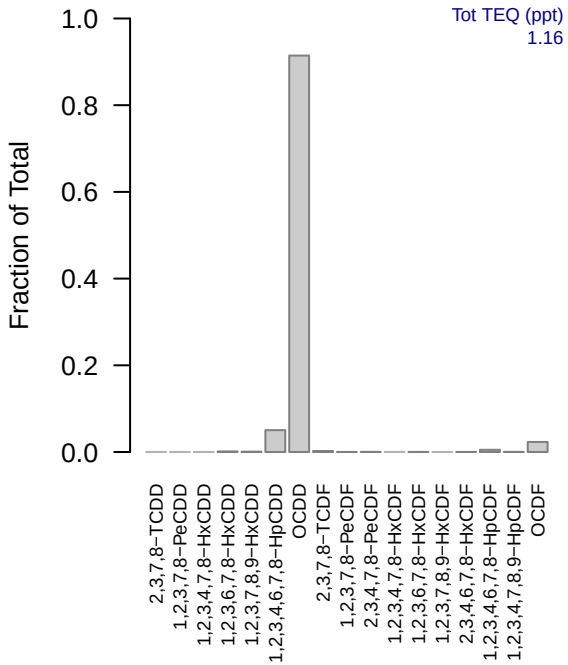
SJSB001(365.76−426.72 cm)



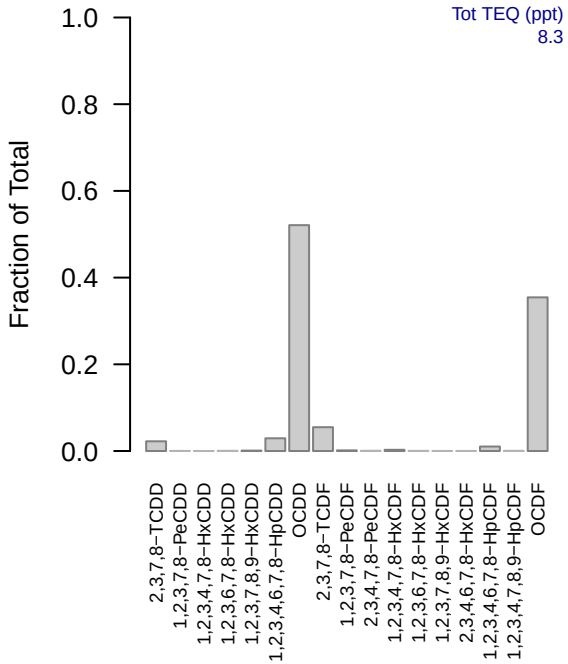
SJSB001(426.72−579.12 cm)



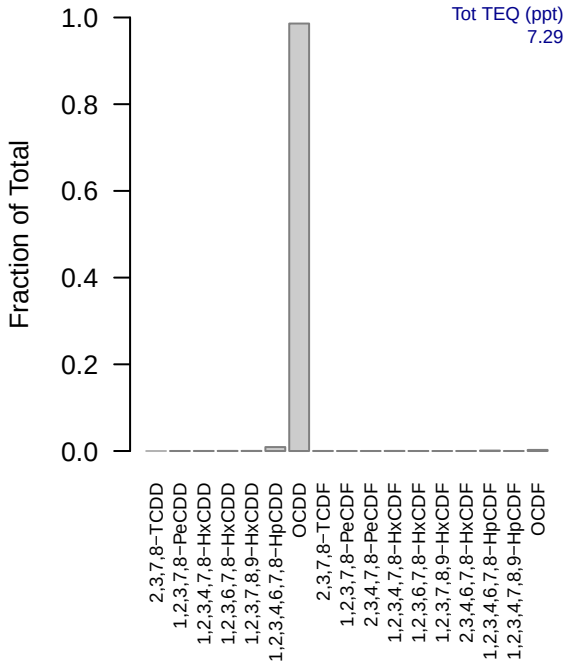
SJSB001(60.96−121.92 cm)



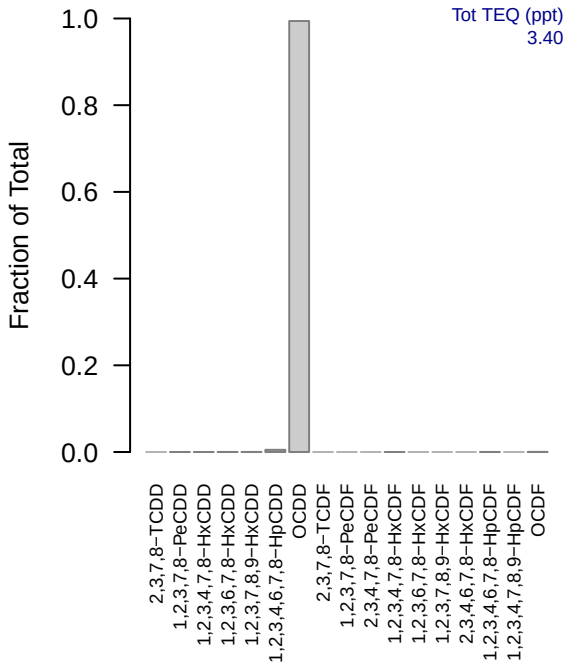
SJSB001(579.12−731.52 cm)



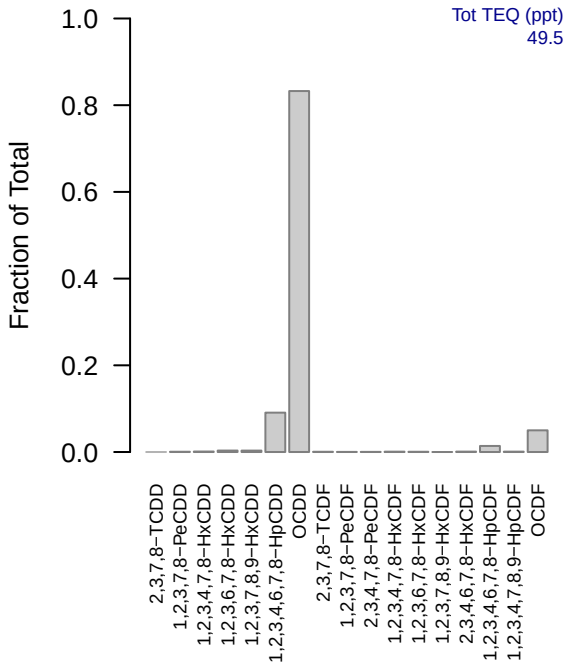
SJSB002(0−15.24 cm)



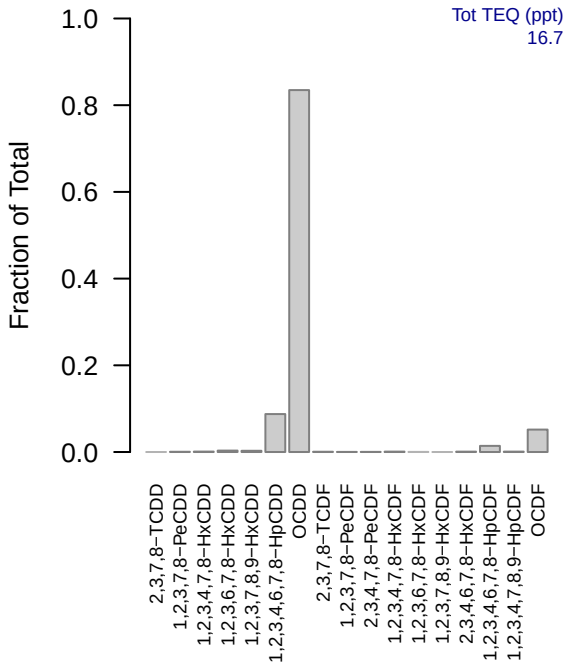
SJSB002(15.24−30.48 cm)



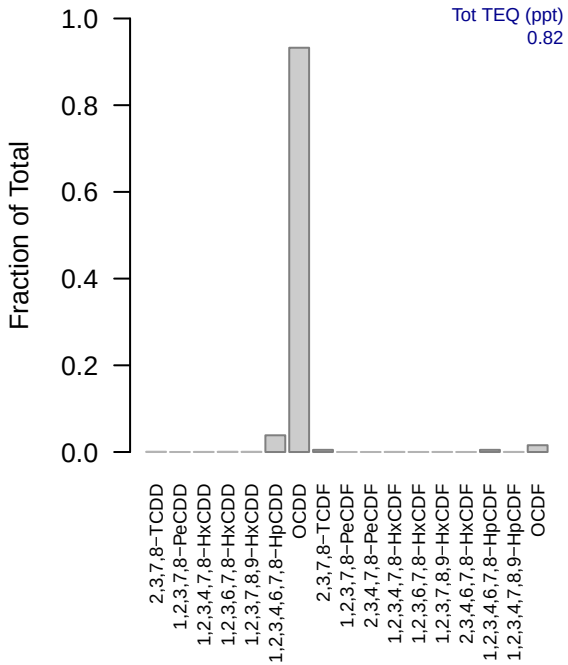
SJSB002(121.92−182.88 cm)



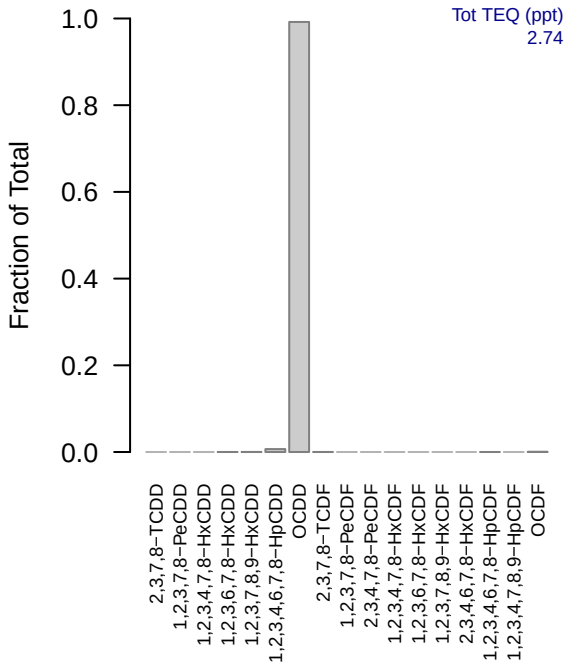
SJSB002(182.88−243.84 cm)



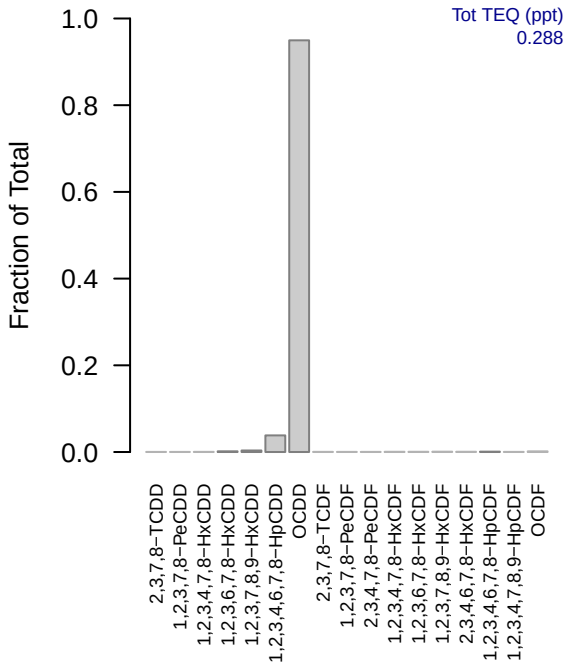
SJSB002(243.84−304.8 cm)



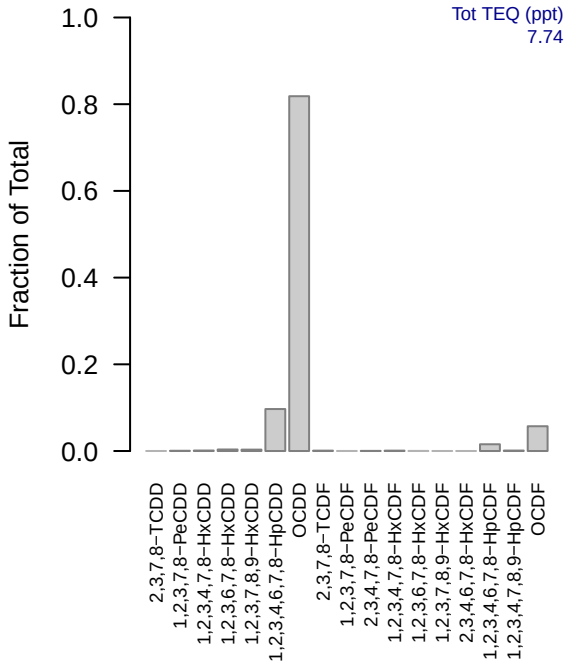
SJSB002(30.48−60.96 cm)



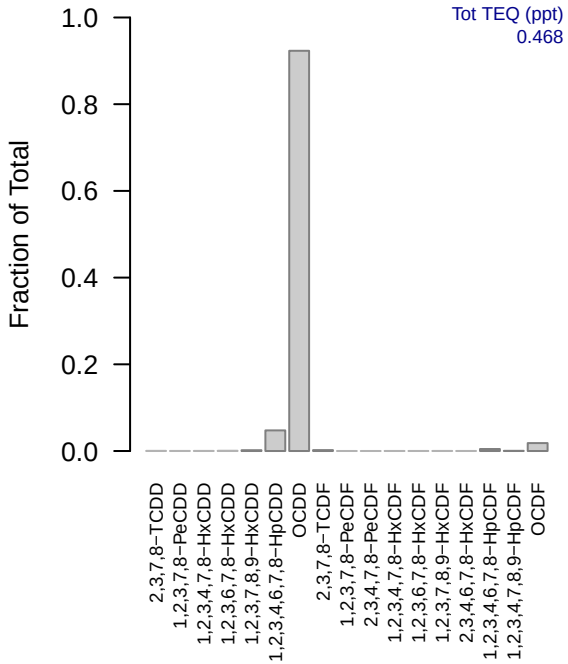
SJSB002(304.8−365.76 cm)



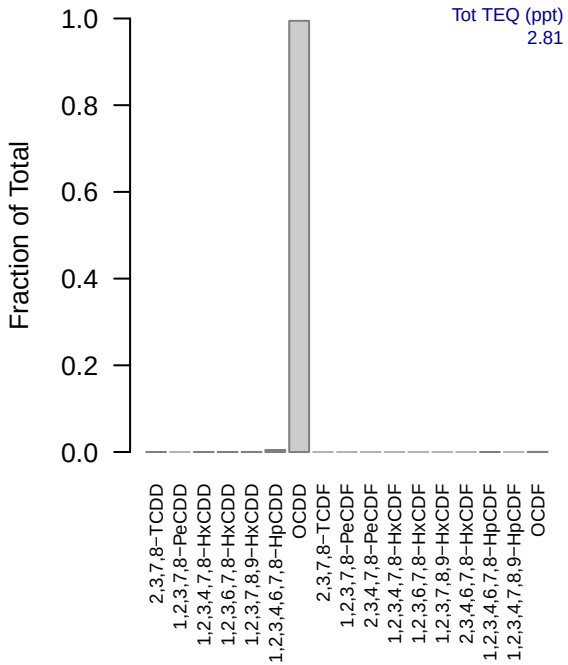
SJSB002(365.76−426.72 cm)



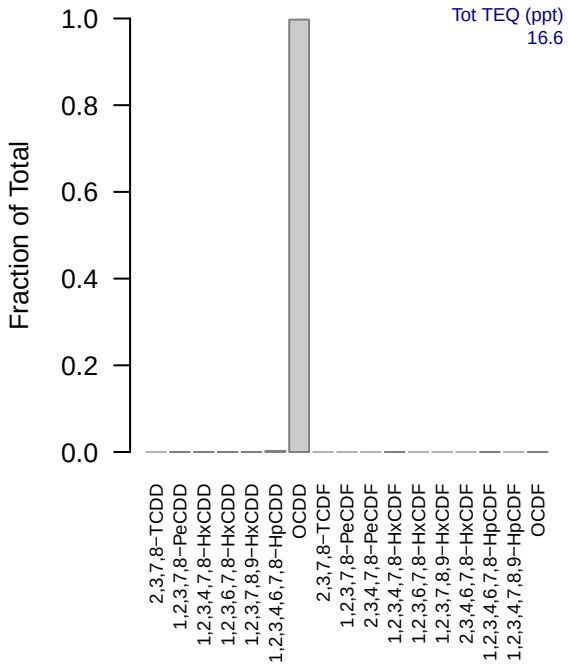
SJSB002(426.72−579.12 cm)



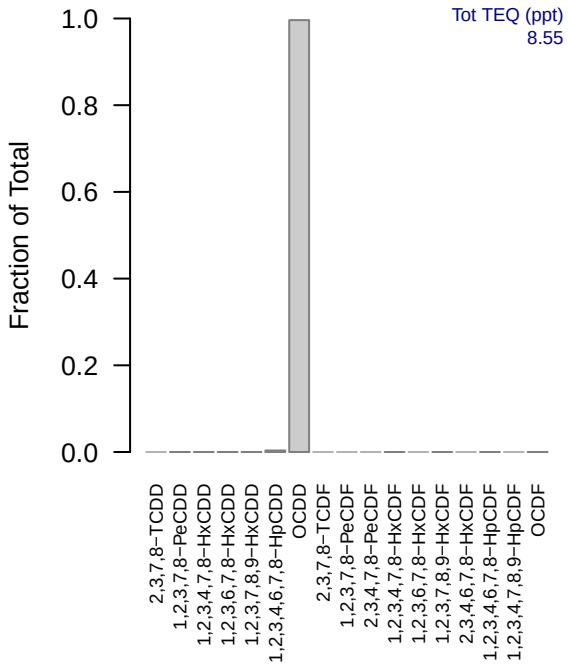
SJSB002(60.96−121.92 cm)



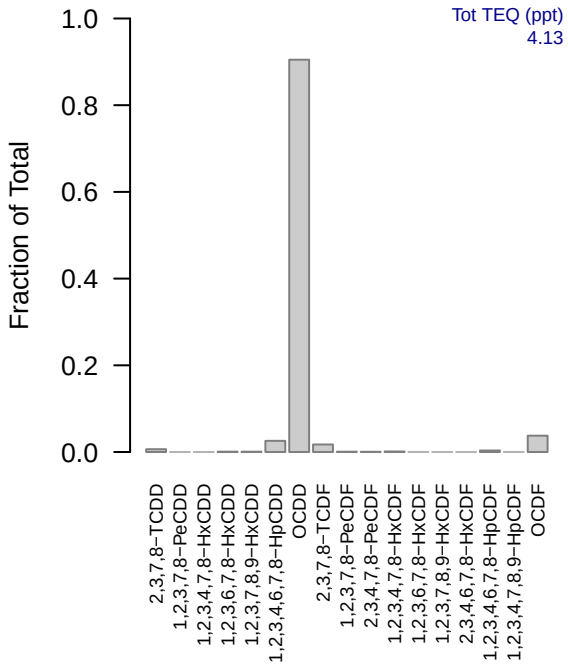
SJSB003(0−15.24 cm)



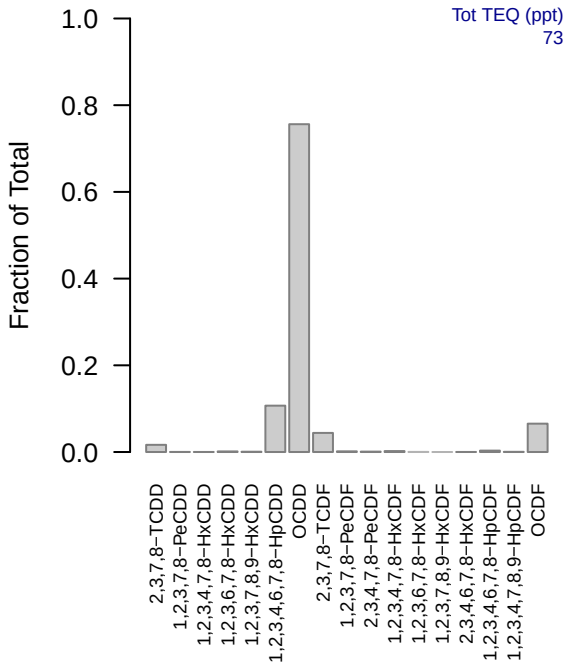
SJSB003(15.24−30.48 cm)



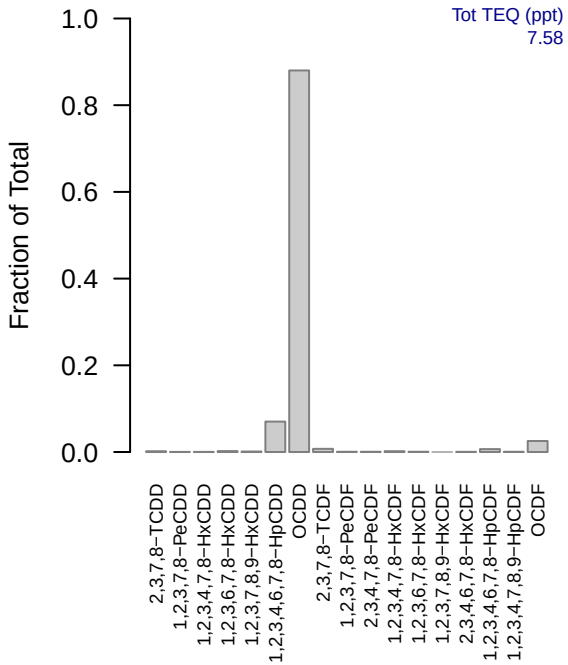
SJSB003(182.88−243.84 cm)



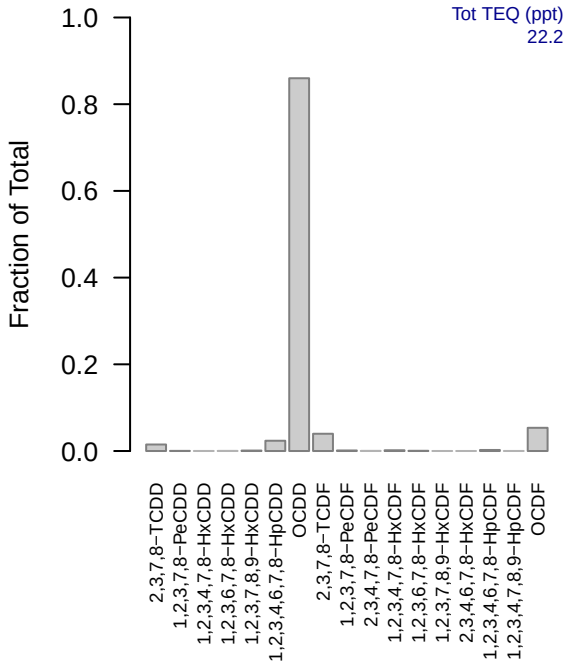
SJSB003(243.84−304.8 cm)



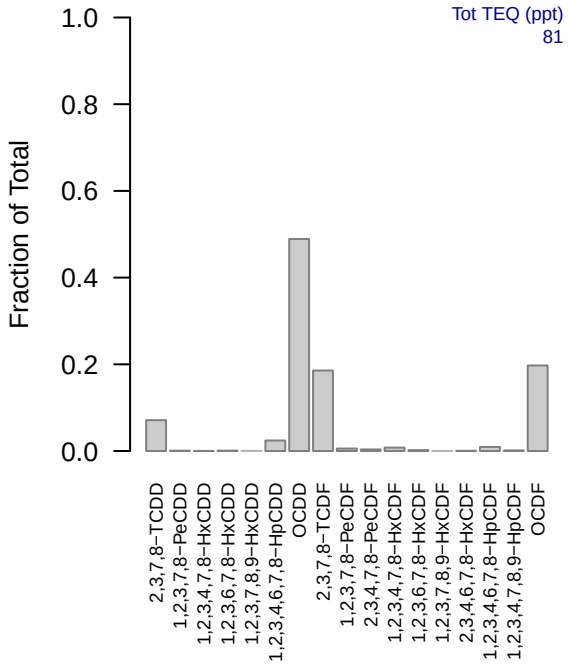
SJSB003(30.48−60.96 cm)



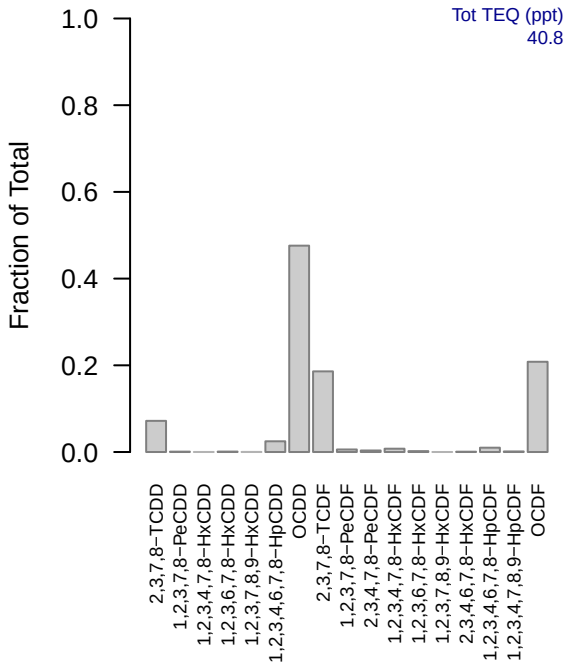
SJSB003(304.8−365.76 cm)



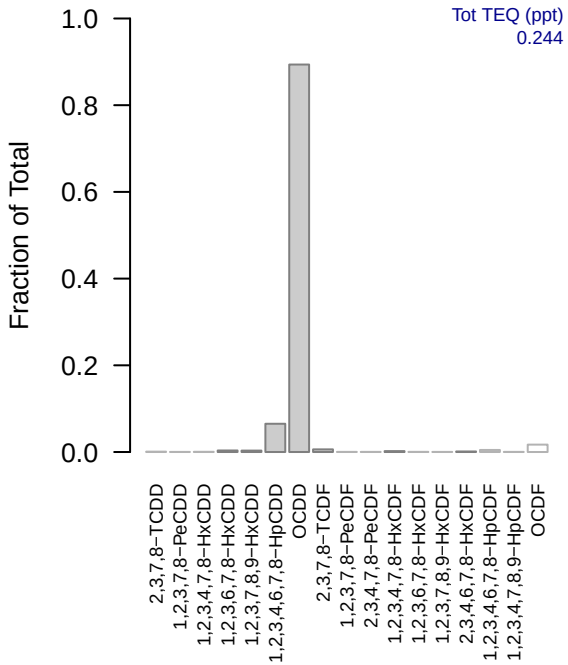
SJSB003(365.76−426.72 cm)

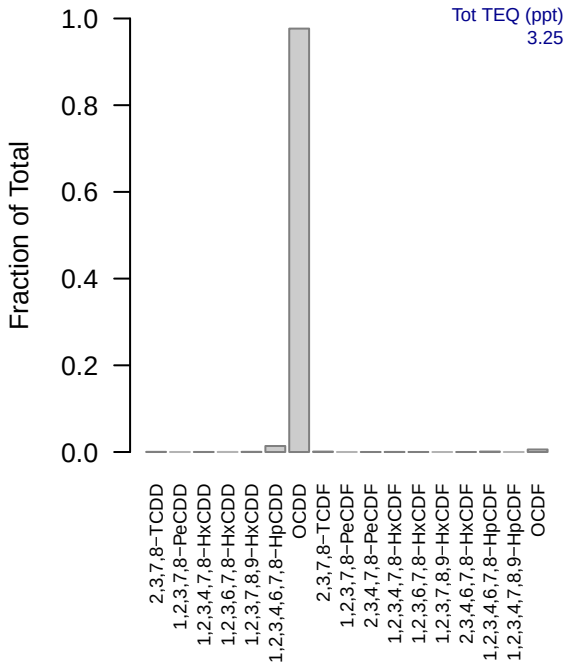


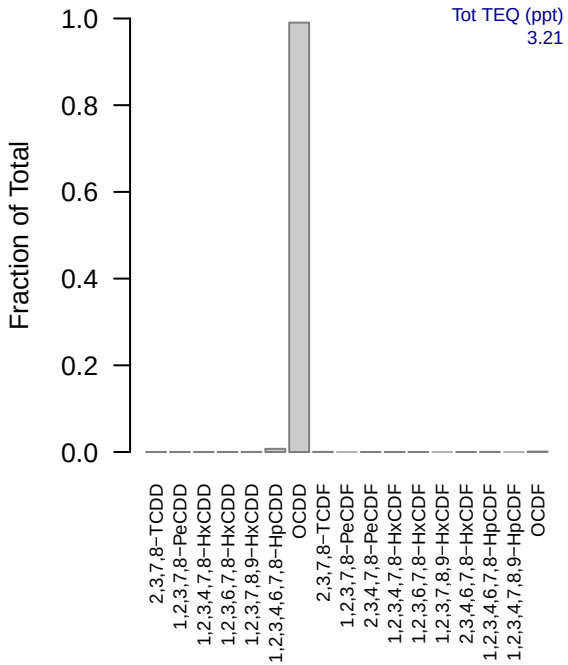
SJSB003(426.72−579.12 cm)

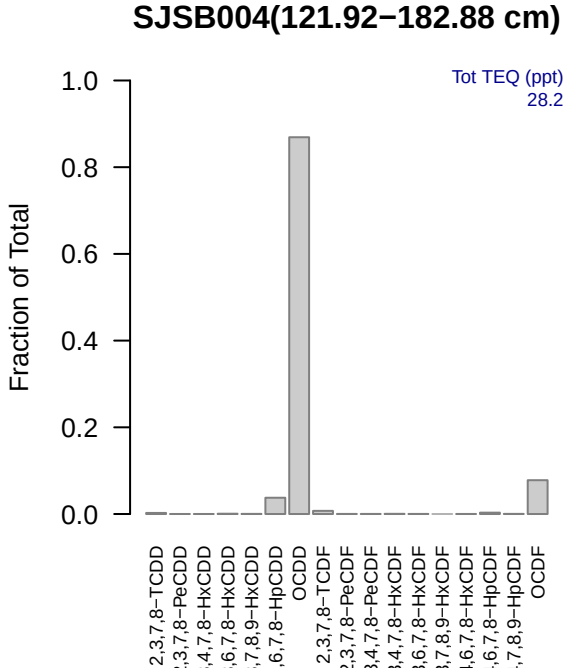


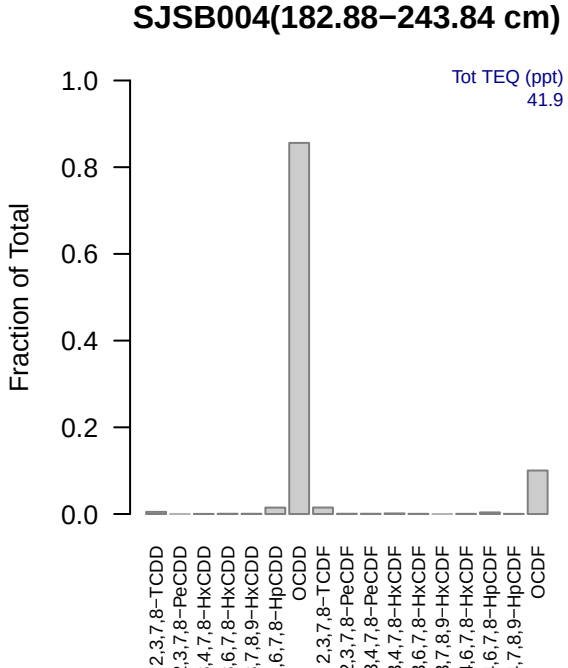
SJSB003(60.96−121.92 cm)



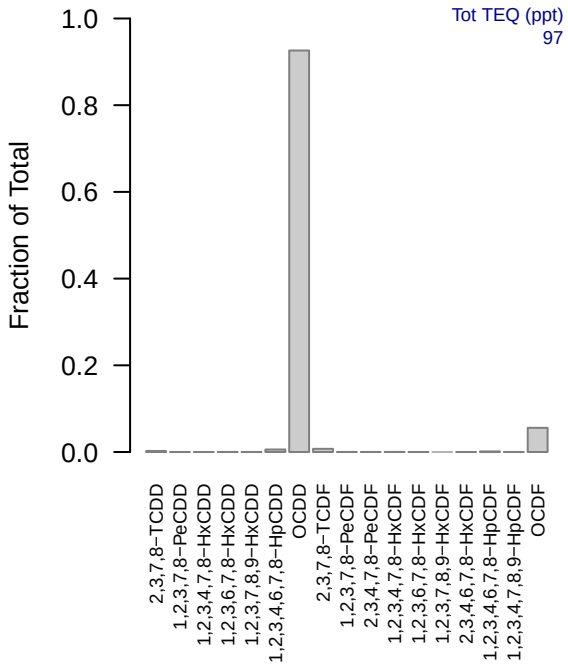

SJSB004(0−15.24 cm)
Tot TEQ (ppt)
3.25
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJSB004(15.24−30.48 cm)
Tot TEQ (ppt)
3.21
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

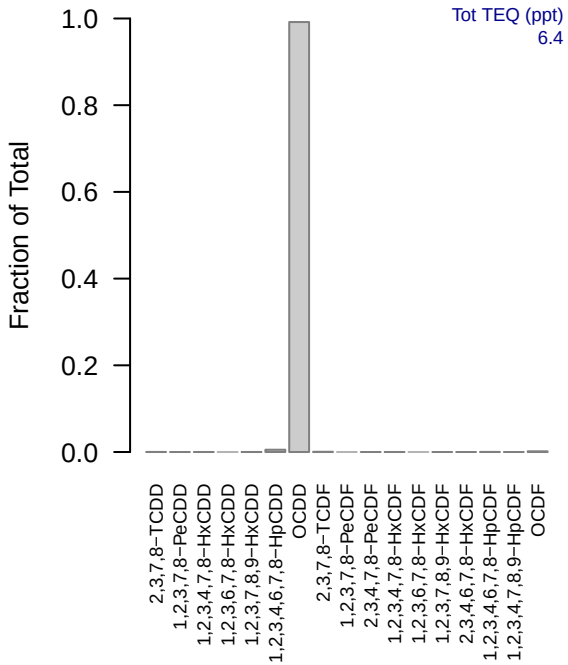

SJSB004(121.92−182.88 cm)
Tot TEQ (ppt)
28.2
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJSB004(182.88−243.84 cm)
Tot TEQ (ppt)
41.9
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

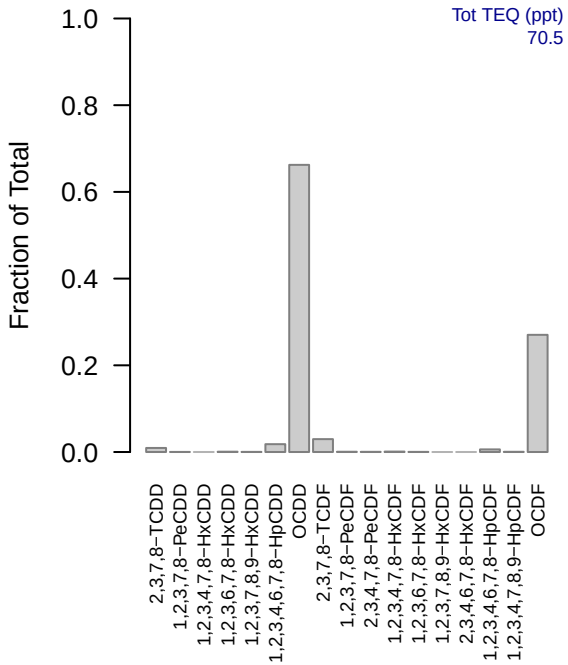
SJSB004(243.84−304.8 cm)



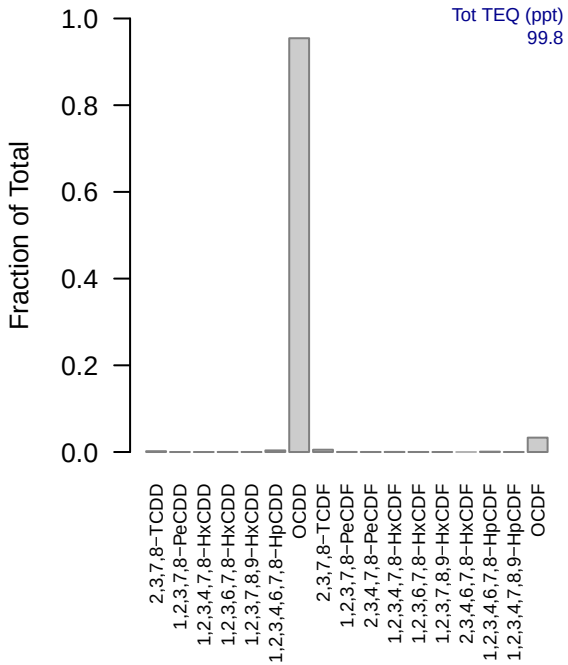
SJSB004(30.48−60.96 cm)



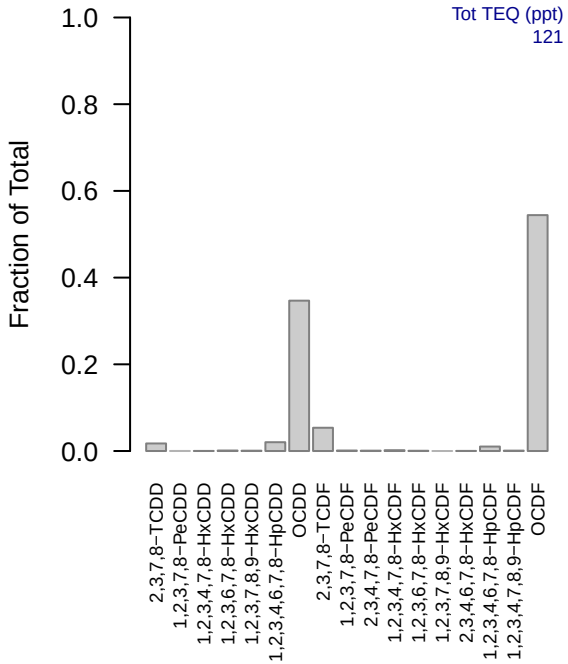
SJSB004(304.8−365.76 cm)



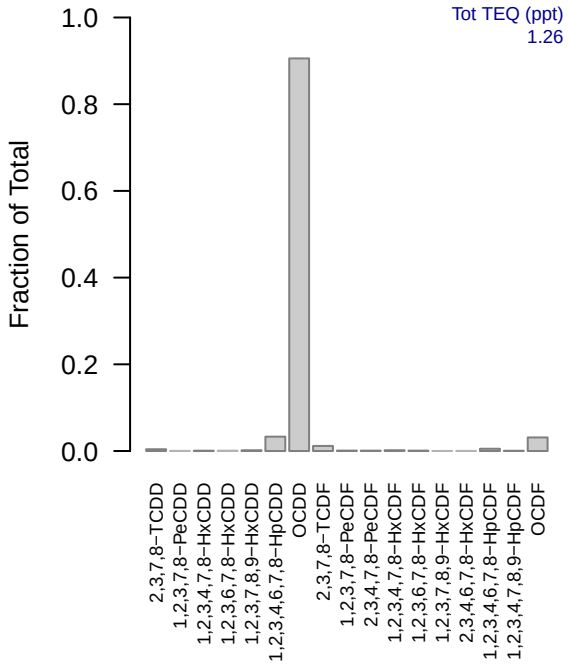
SJSB004(365.76−426.72 cm)



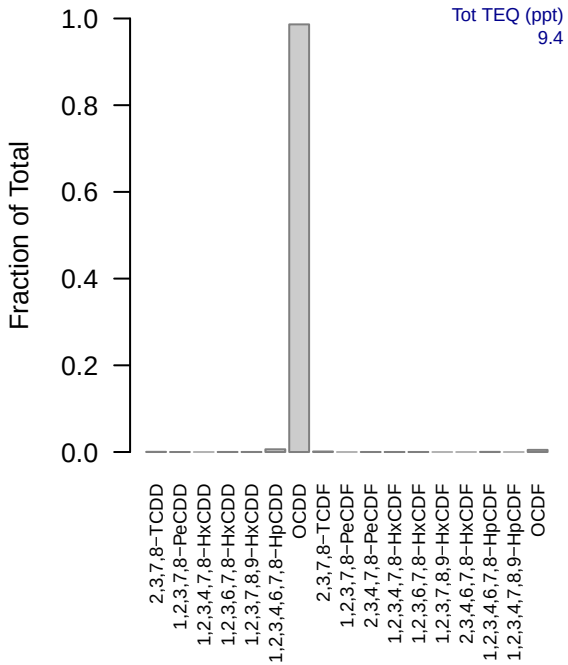
SJSB004(426.72−579.12 cm)



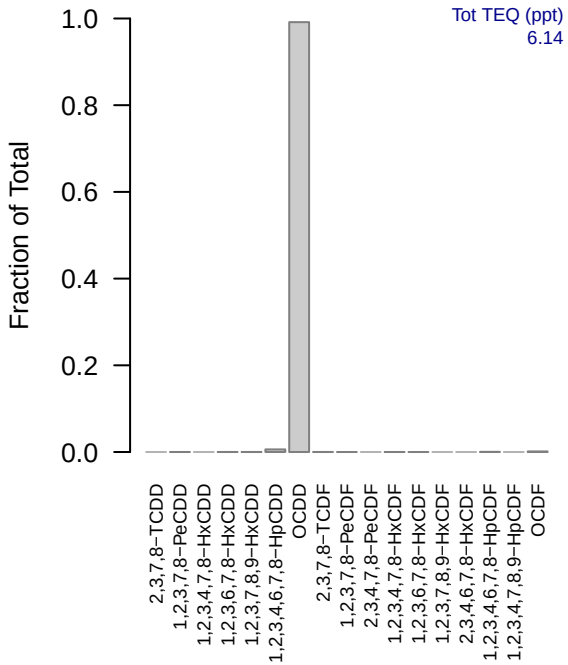
SJSB004(60.96−121.92 cm)

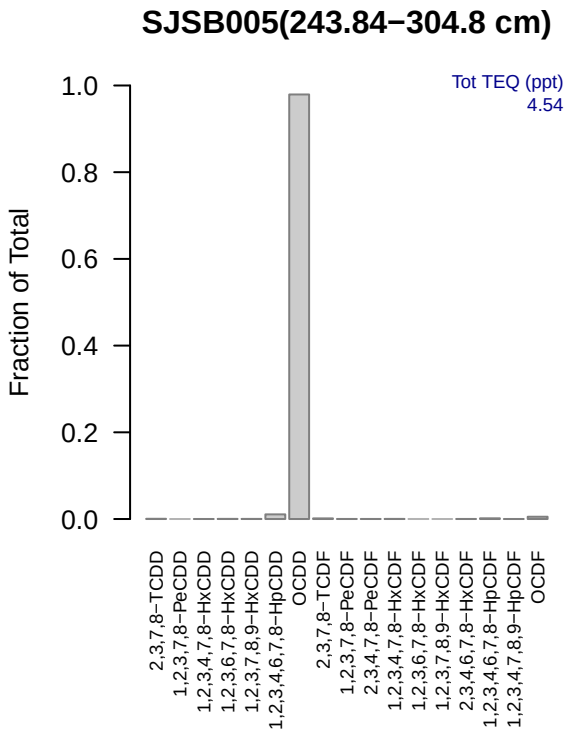


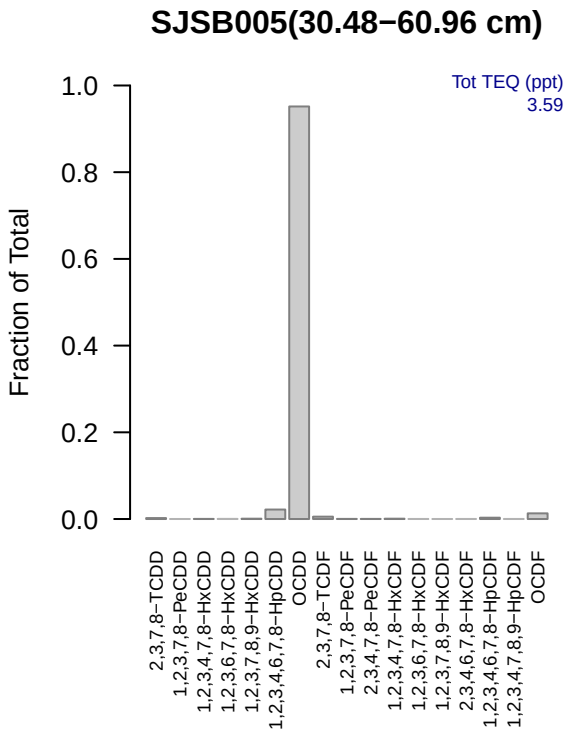
SJSB005(121.92−182.88 cm)

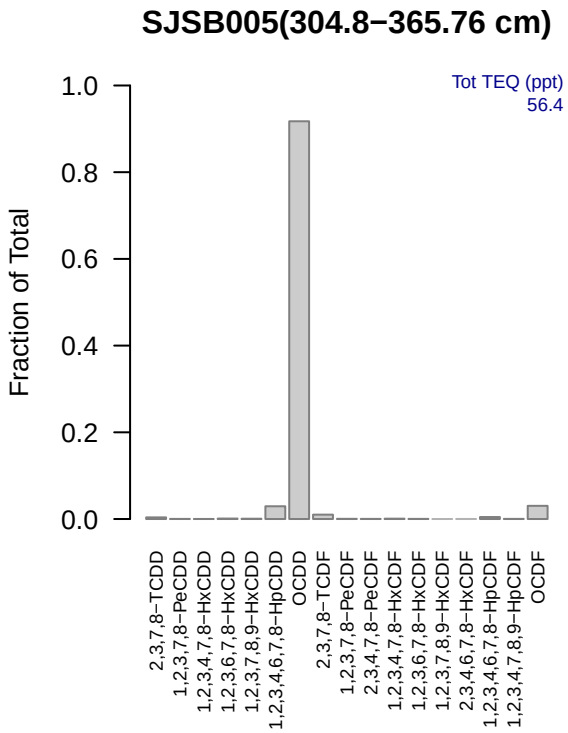


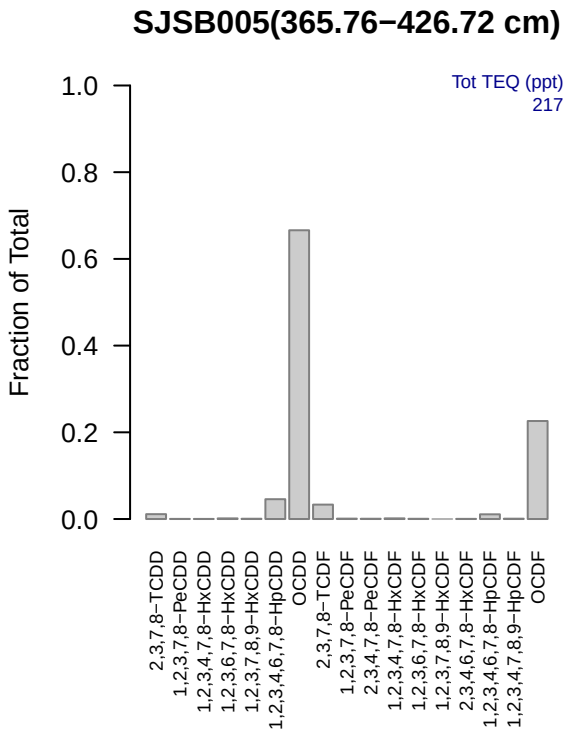
SJSB005(182.88−243.84 cm)



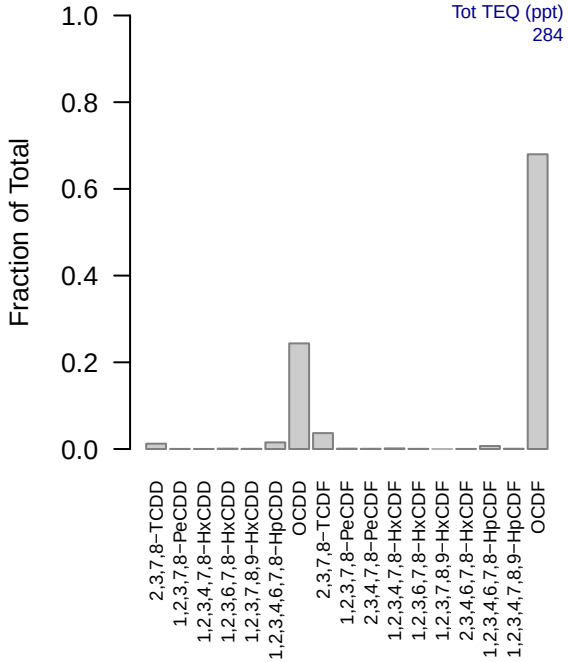

SJSB005(243.84−304.8 cm)
Tot TEQ (ppt)
4.54
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJSB005(30.48−60.96 cm)
Tot TEQ (ppt)
3.59
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

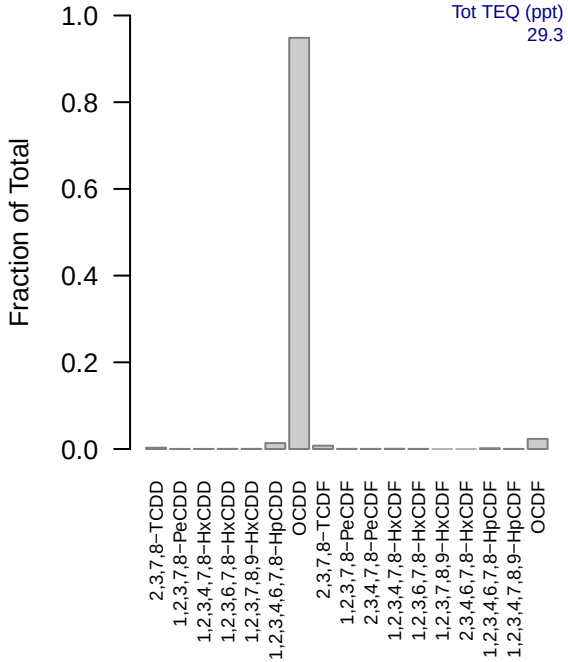

SJSB005(304.8−365.76 cm)
Tot TEQ (ppt)
56.4
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJSB005(365.76−426.72 cm)
Tot TEQ (ppt)
217
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

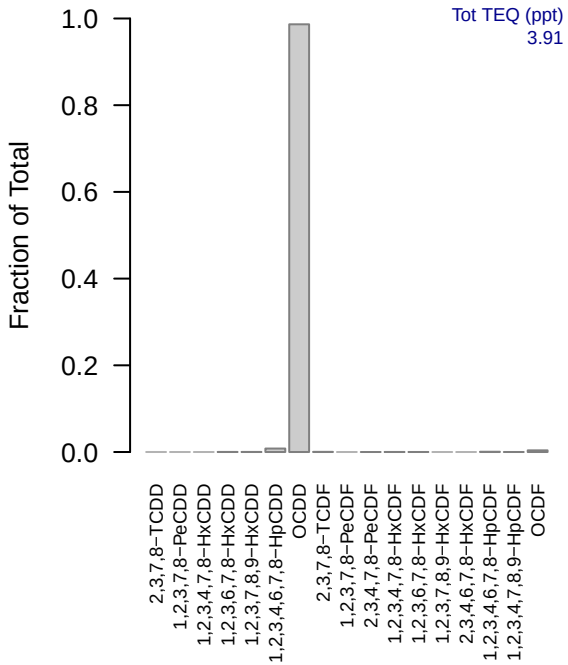
SJSB005(426.72−487.68 cm)



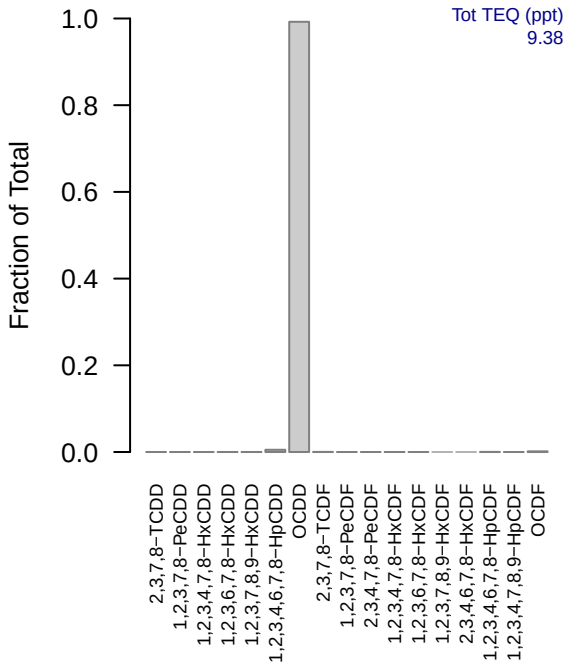
SJSB005(60.96−121.92 cm)



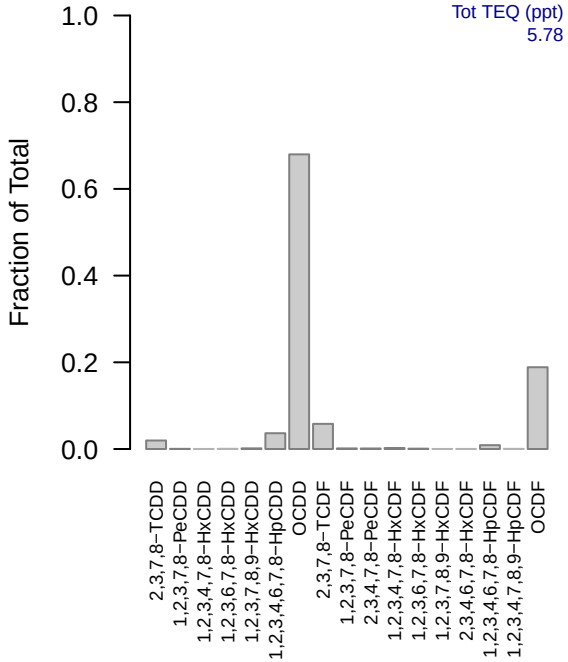
SJSB005(0−15.24 cm)



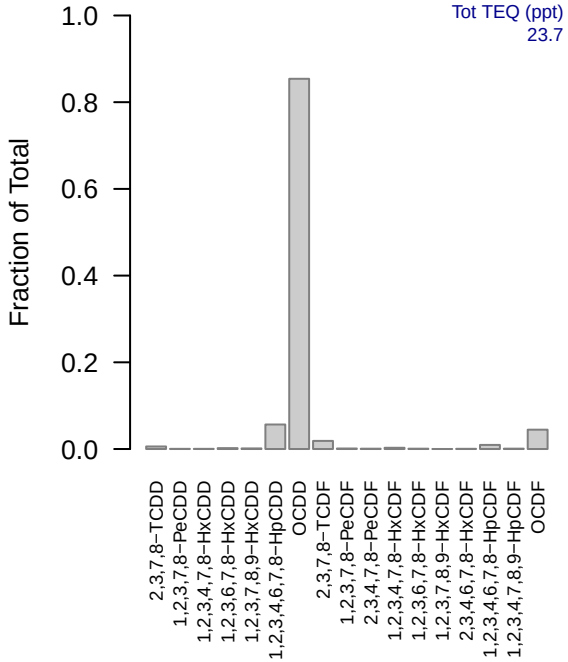
SJSB005(15.24−30.48 cm)



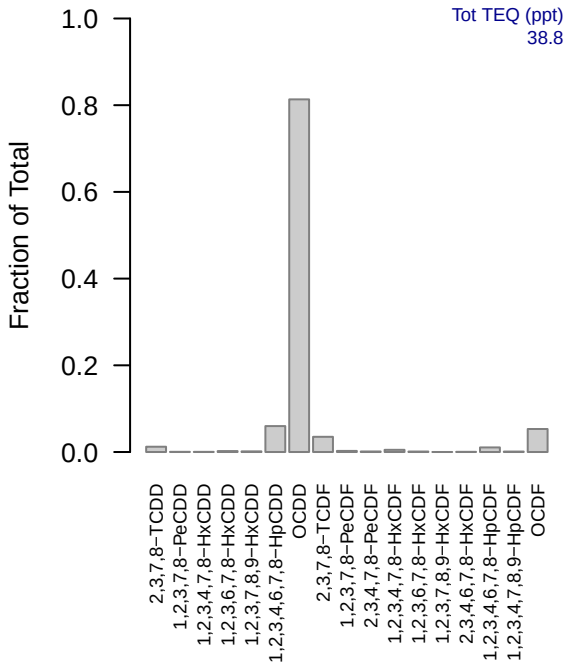
SJSB005(853.44−975.36 cm)



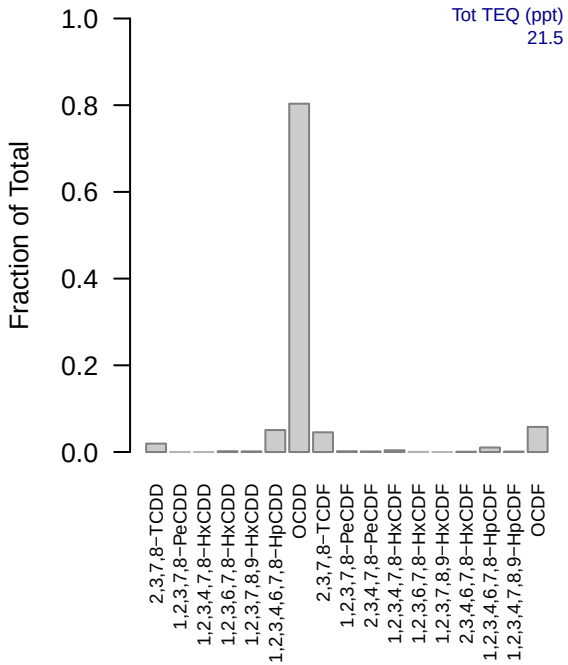
SJSB006(0−15.24 cm)



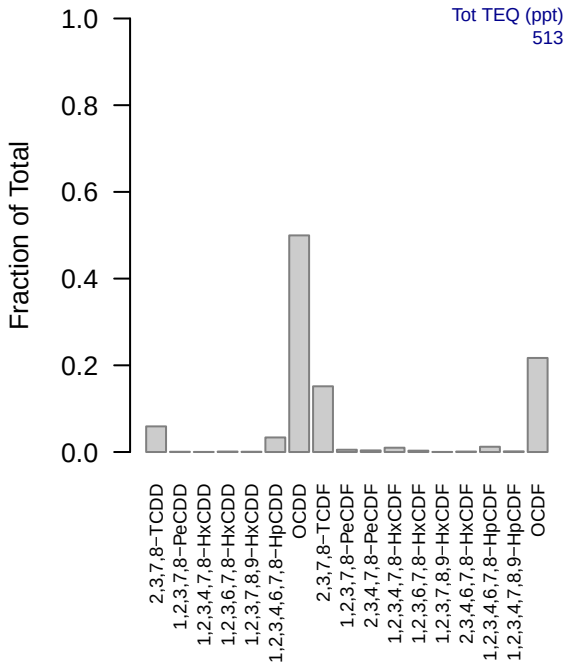
SJSB006(15.24−30.48 cm)



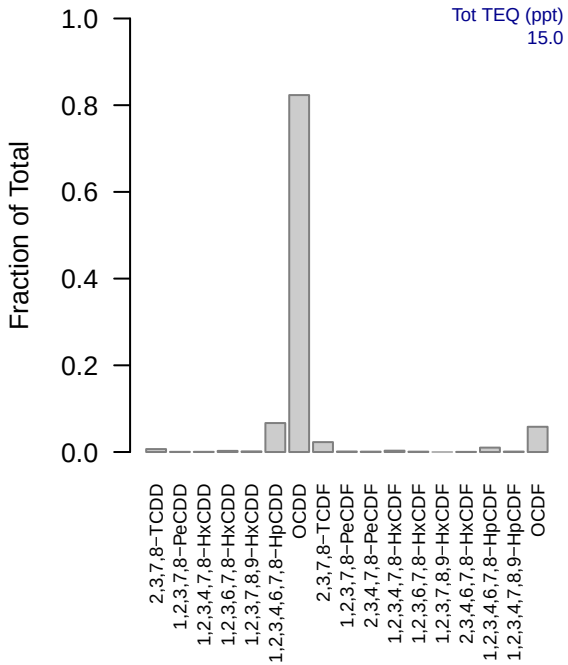
SJSB006(121.92−182.88 cm)



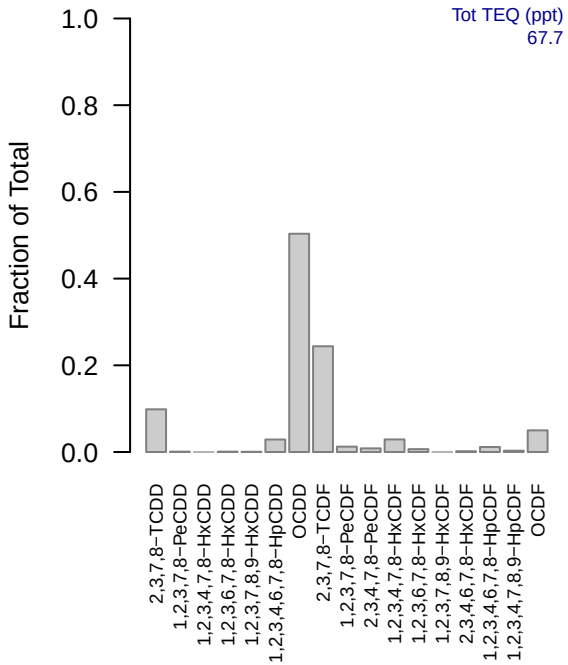
SJSB006(182.88−243.84 cm)



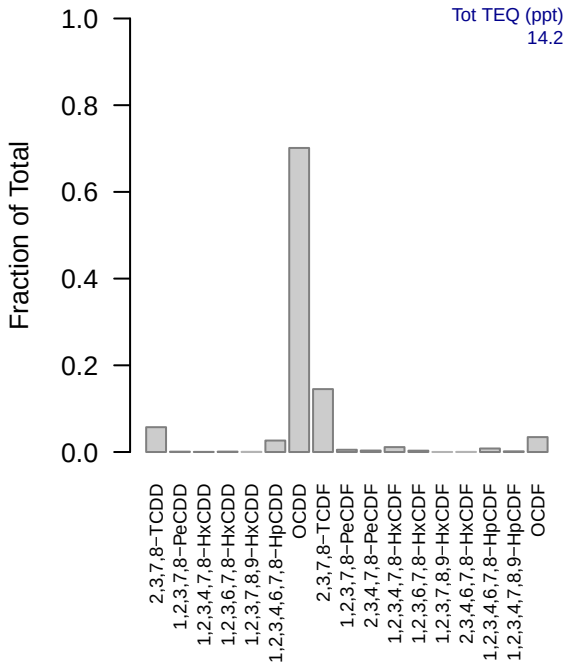
SJSB006(30.48−60.96 cm)



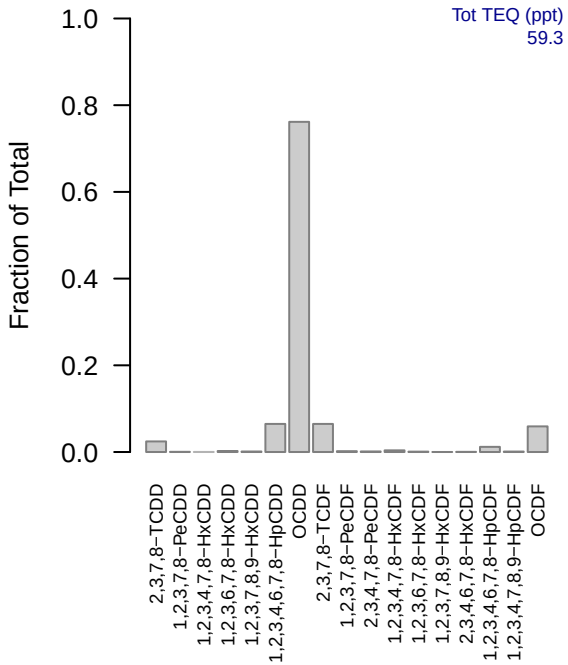
SJSB006(365.76−426.72 cm)



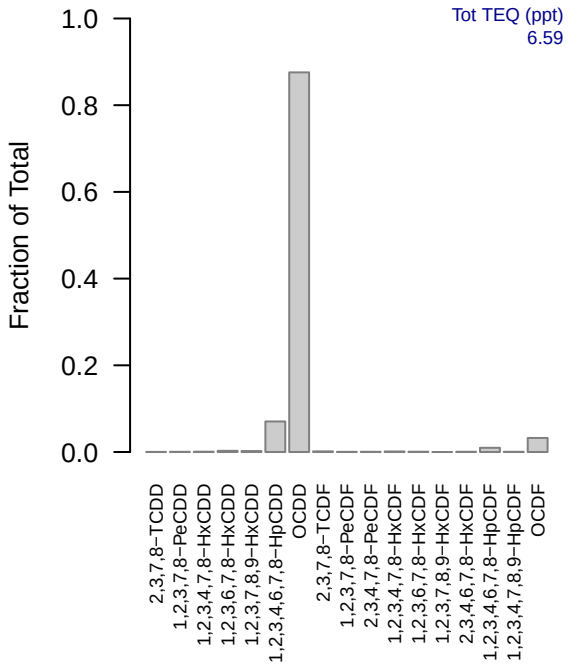
SJSB006(426.72−579.12 cm)



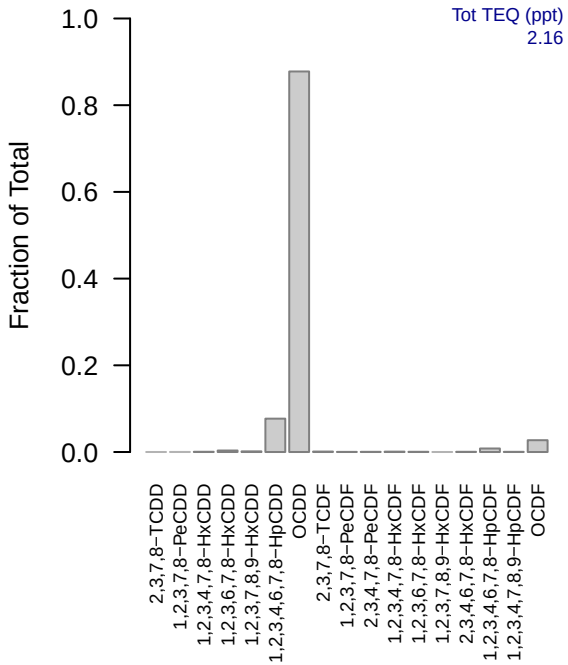
SJSB006(60.96−121.92 cm)



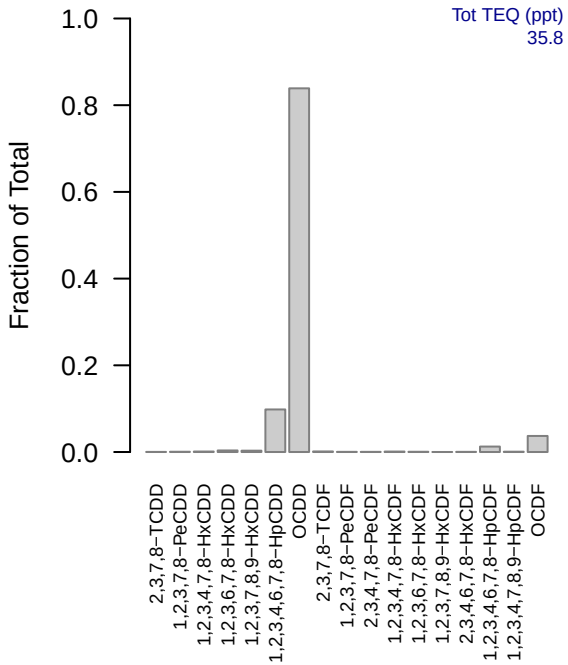
SJSB007(0−15.24 cm)



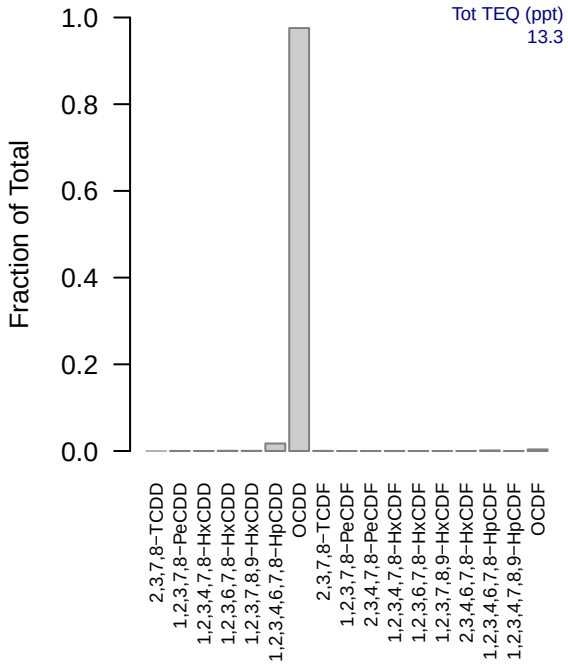
SJSB007(15.24−30.48 cm)



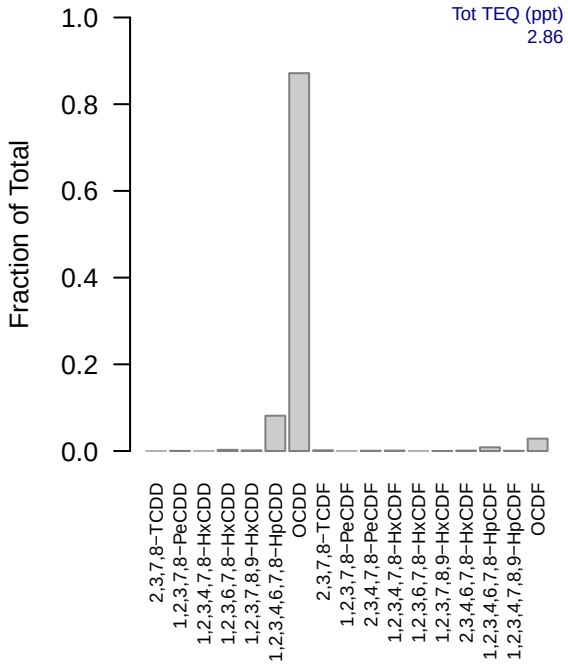
SJSB007(121.92−182.88 cm)



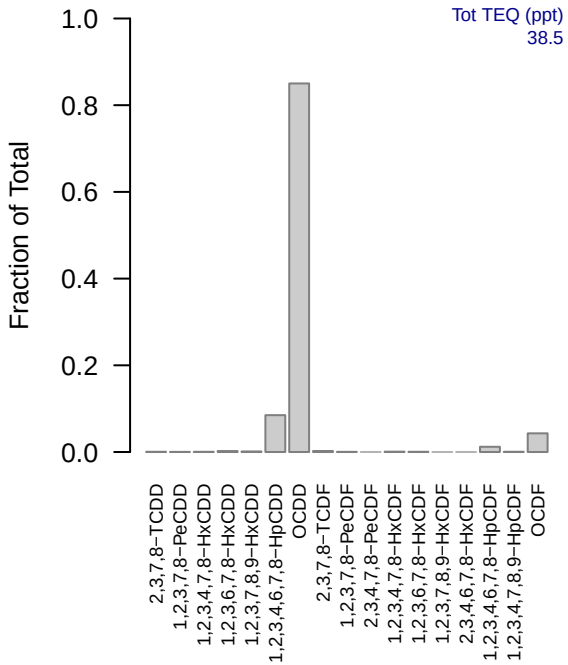
SJSB007(182.88−243.84 cm)



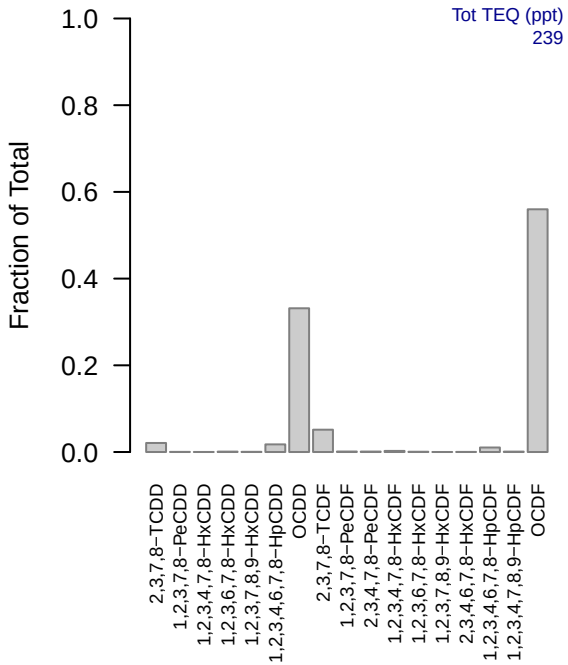
SJSB007(30.48−60.96 cm)



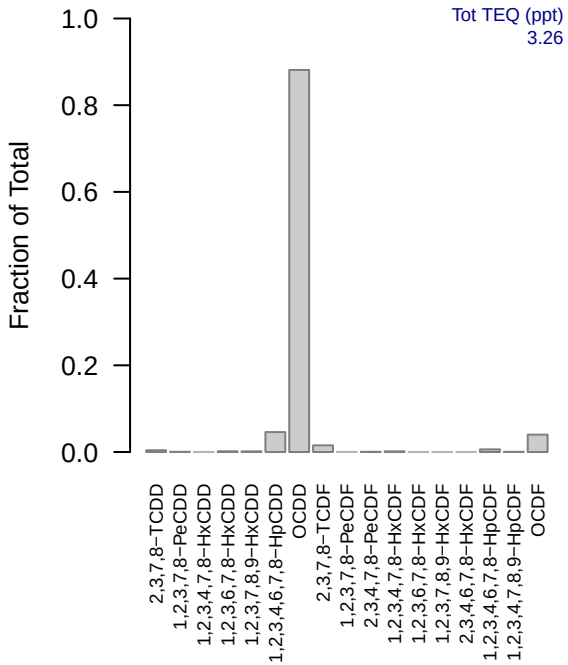
SJSB007(60.96−121.92 cm)



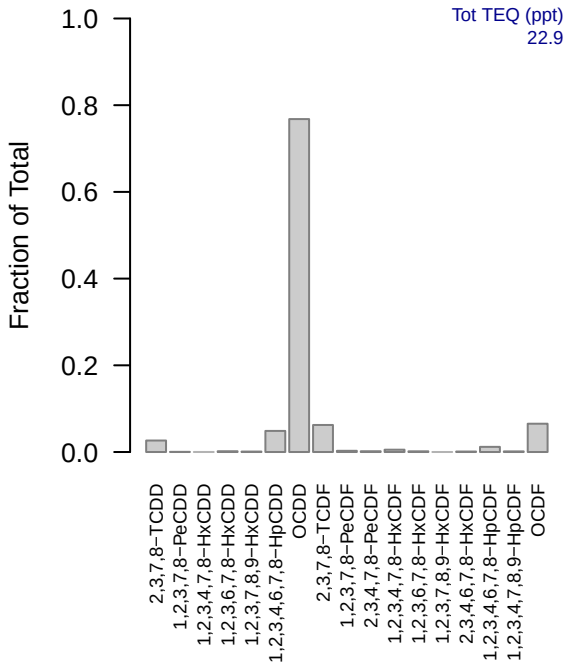
SJSB007(487.68−640.08 cm)



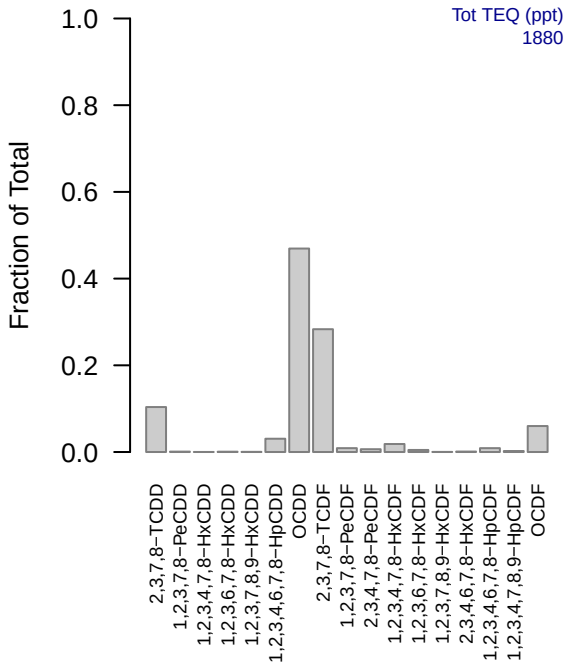
SJSB008(0−60.96 cm)



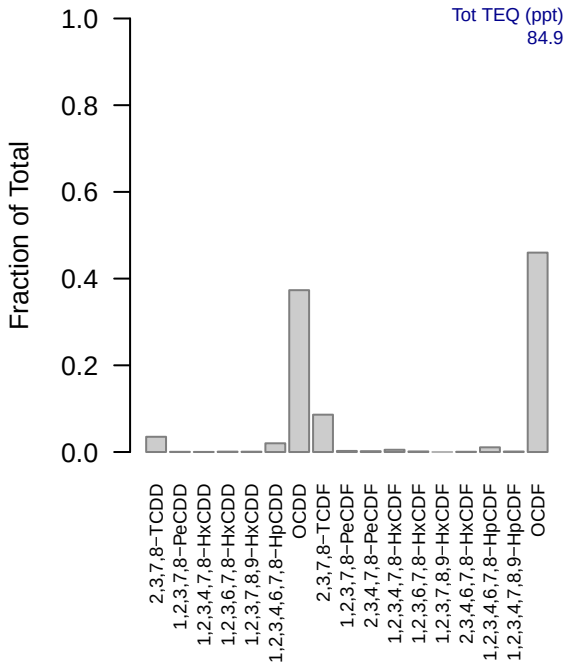
SJSB008(121.92−182.88 cm)



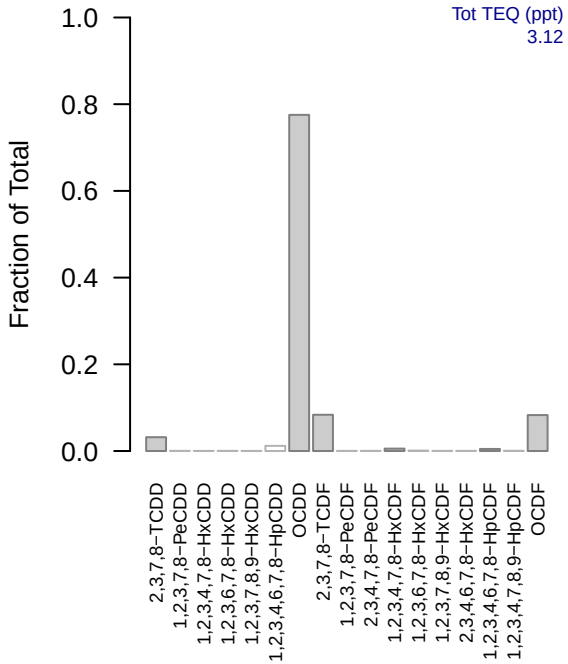
SJSB008(182.88−243.84 cm)



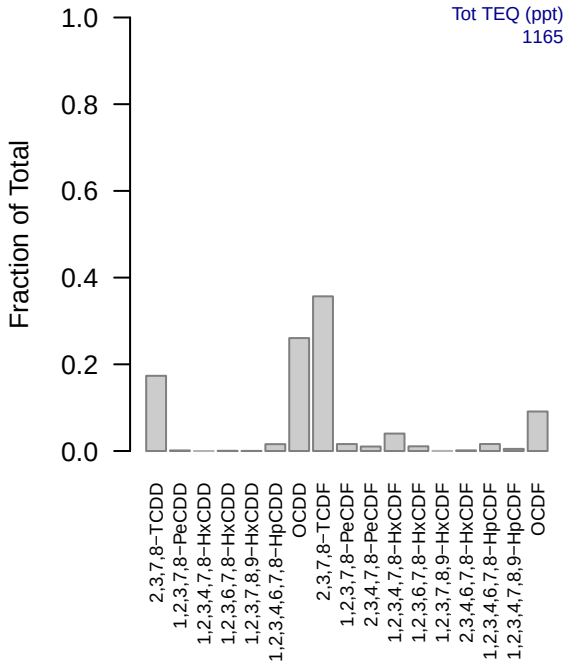
SJSB008(243.84−304.8 cm)



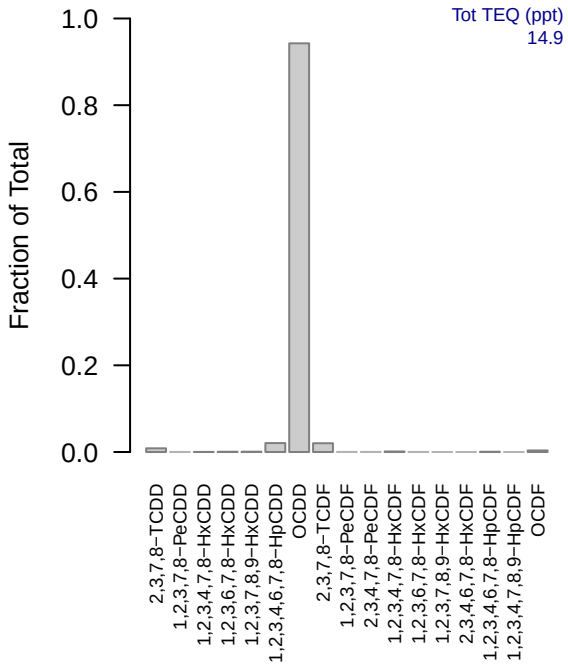
SJSB008(304.8−365.76 cm)



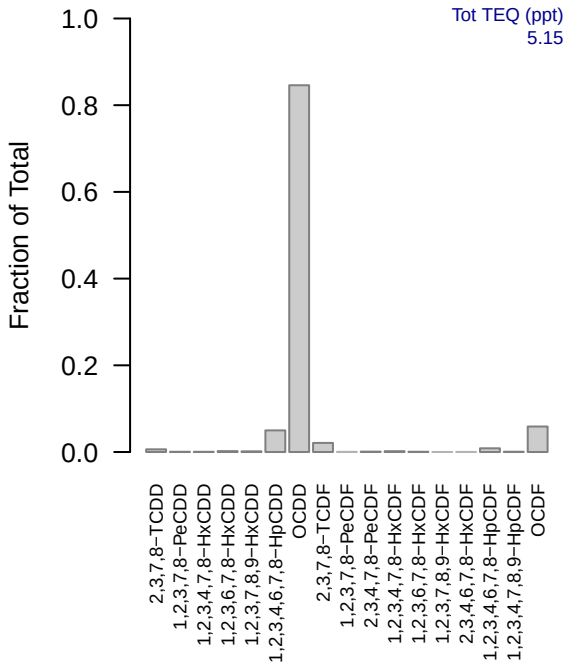
SJSB008(365.76−426.72 cm)



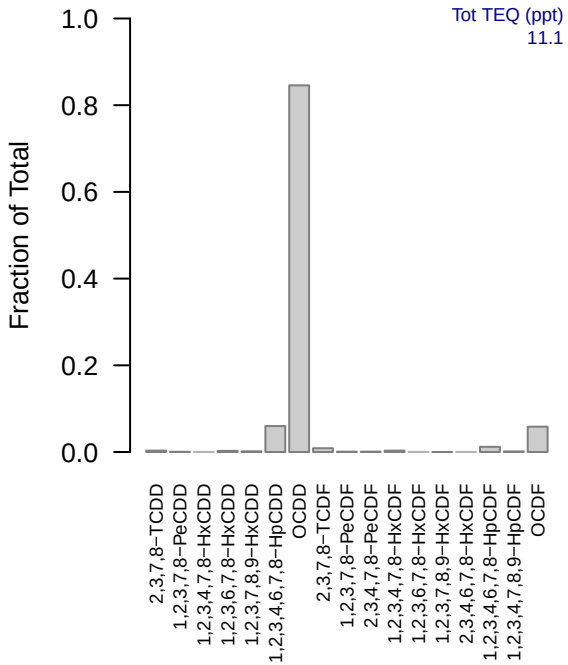
SJSB008(426.72−548.64 cm)



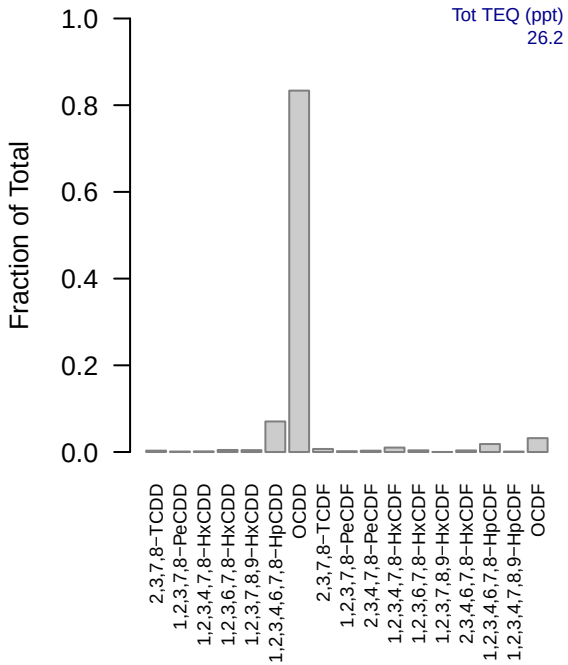
SJSB008(60.96−121.92 cm)



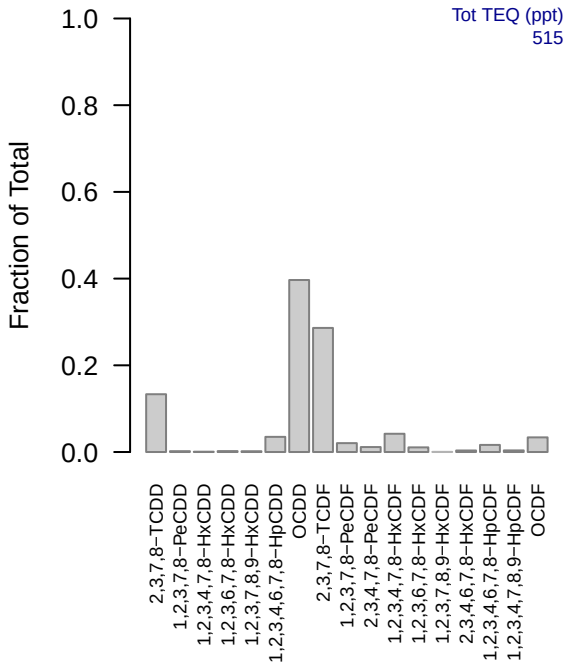
SJSB009(0−60.96 cm)



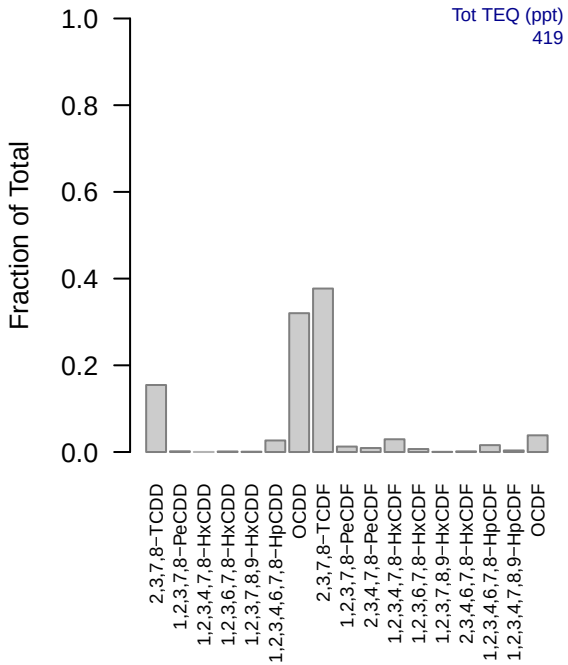
SJSB009(121.92−182.88 cm)



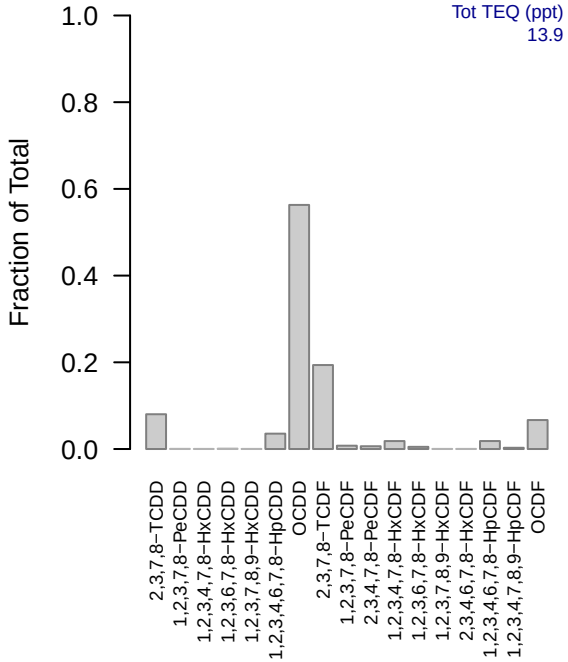
SJSB009(182.88−243.84 cm)



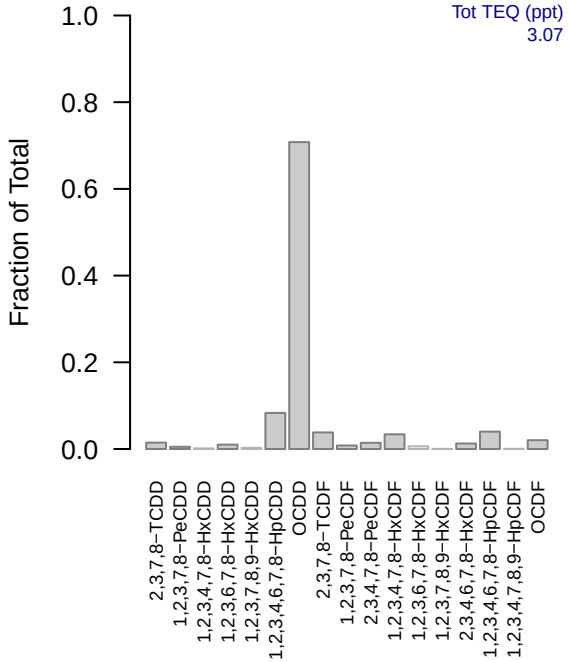
SJSB009(243.84−304.8 cm)



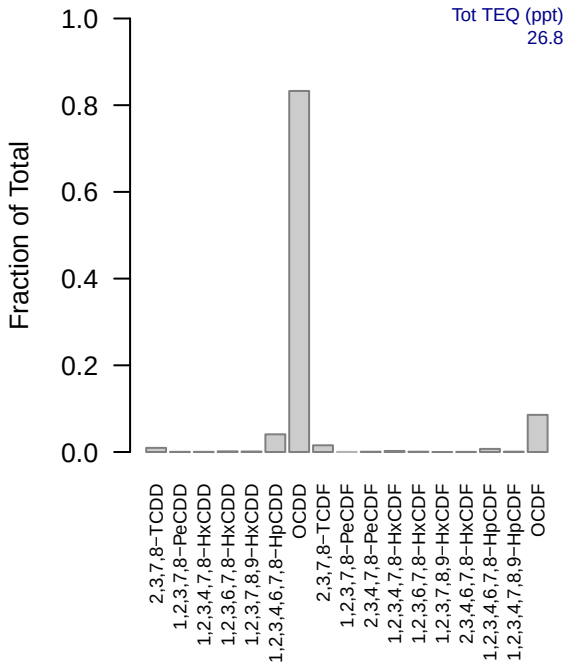
SJSB009(304.8−365.76 cm)



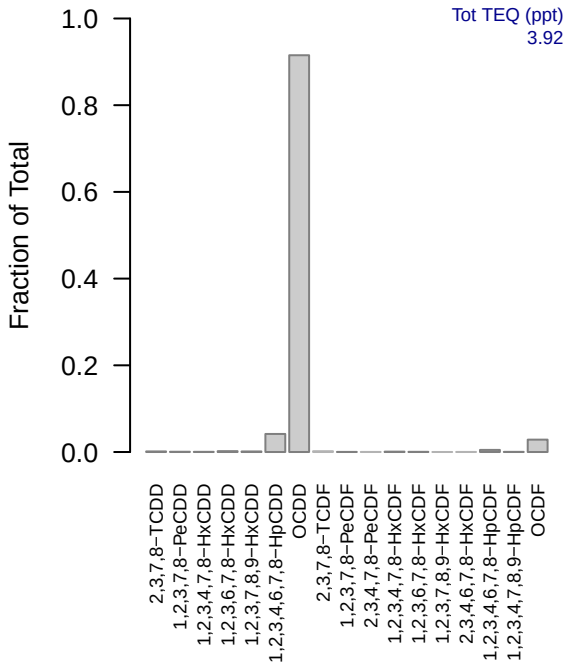
SJSB009(487.68−609.6 cm)



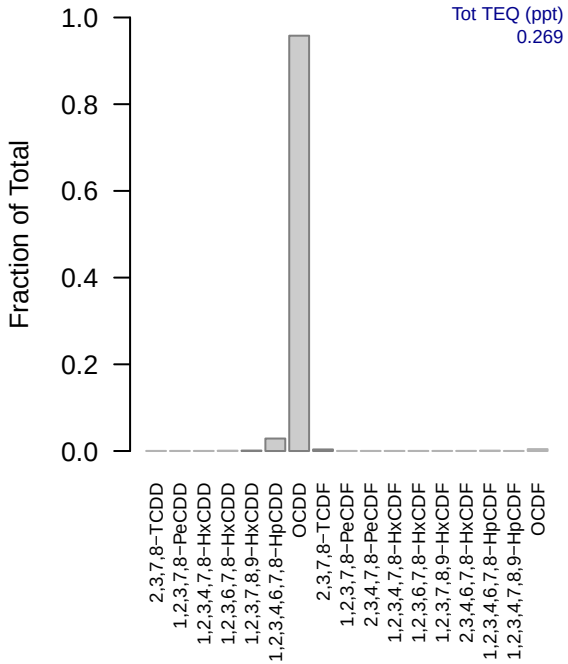
SJSB009(60.96−121.92 cm)



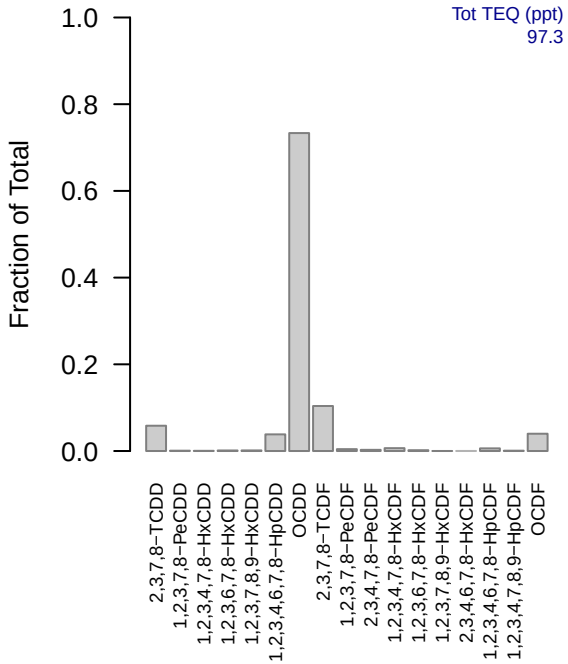
SJSB010(0−60.96 cm)



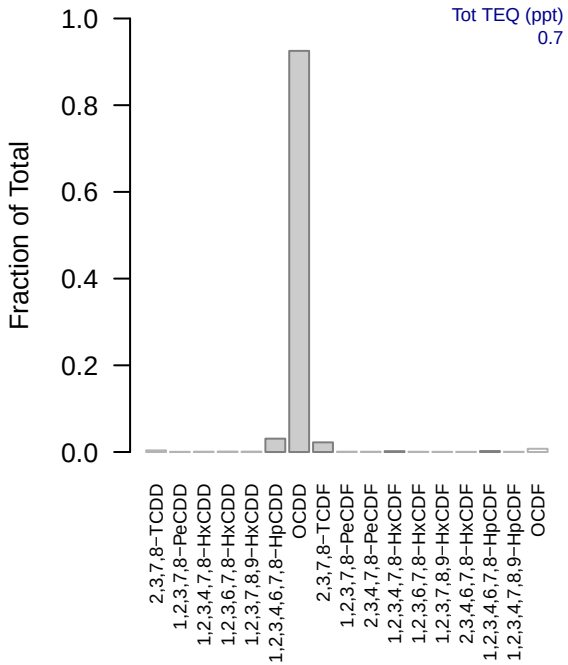
SJSB010(121.92−182.88 cm)



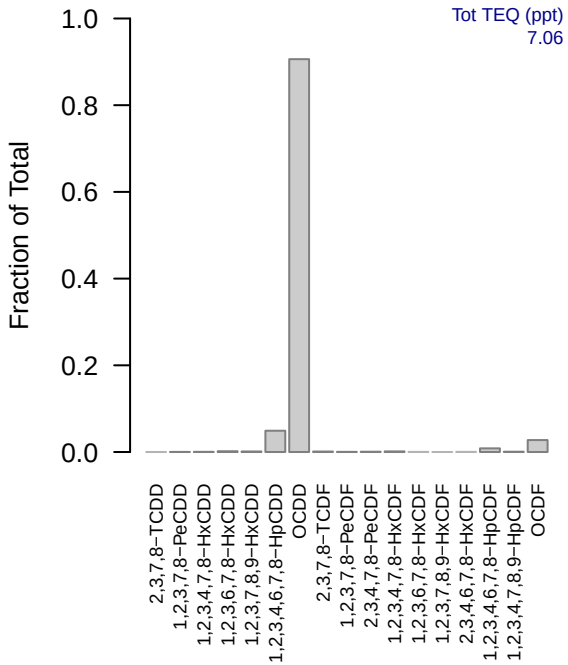
SJSB010(182.88−243.84 cm)



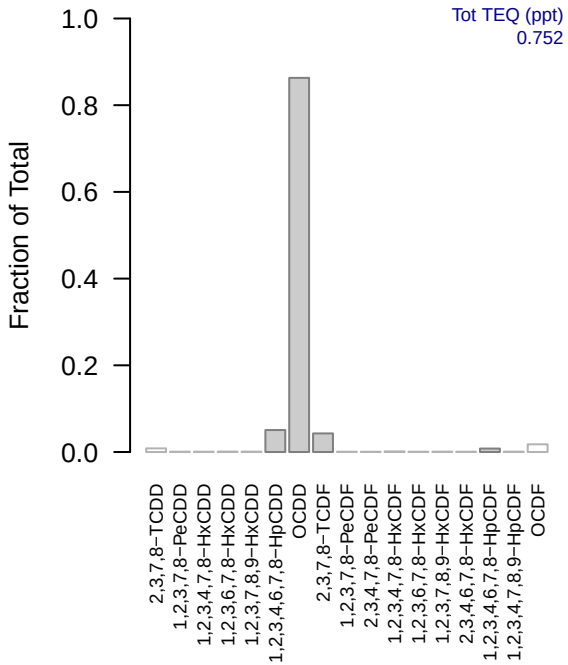
SJSB010(243.84−304.8 cm)



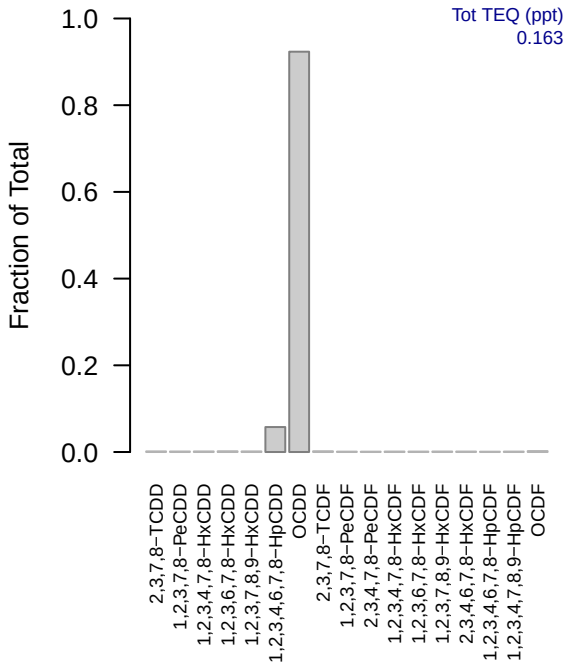
SJSB010(304.8−365.76 cm)



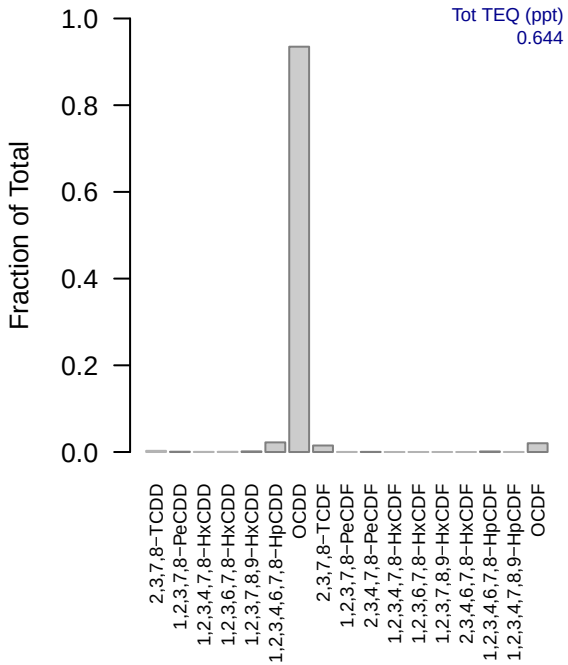
SJSB010(365.76−426.72 cm)



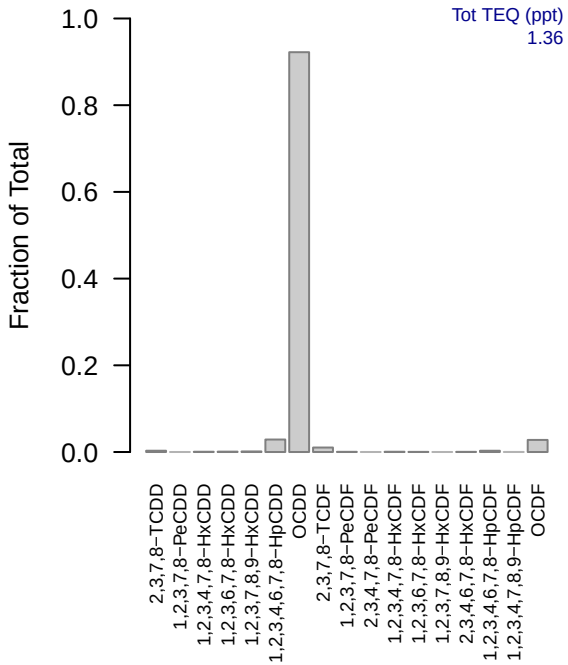
SJSB010(60.96−121.92 cm)

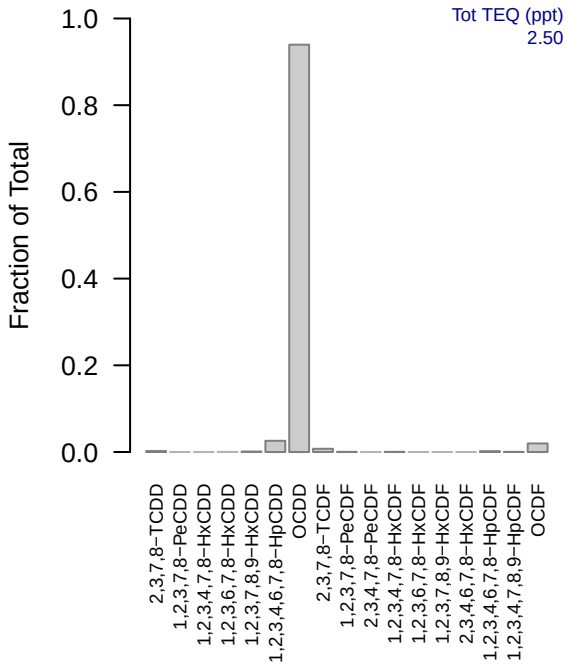


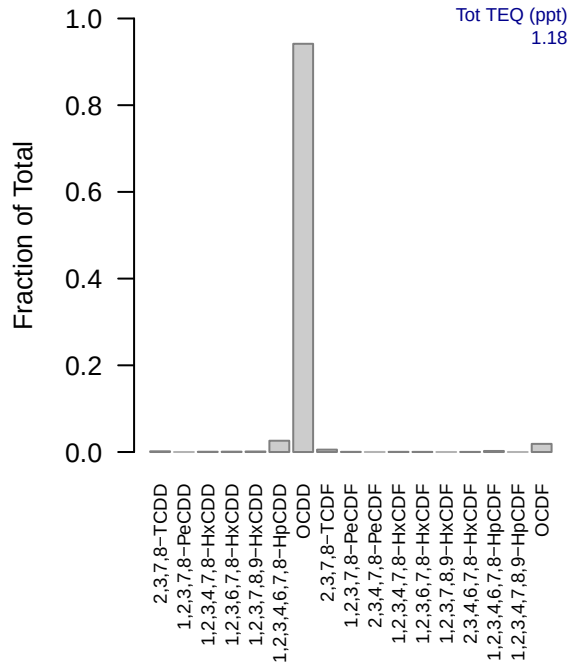
SJSH001(0−15.24 cm)

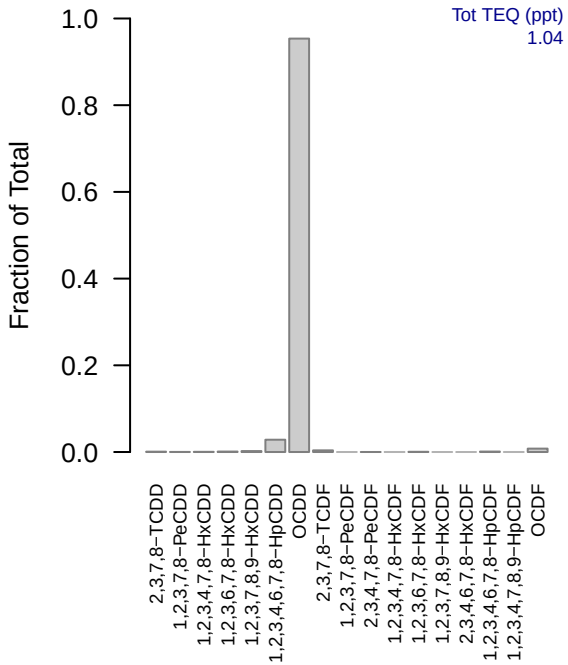


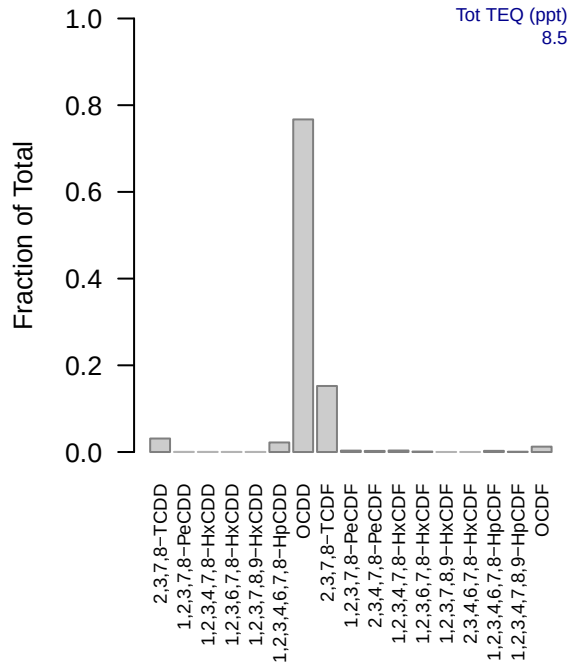
SJSH002(0−15.24 cm)



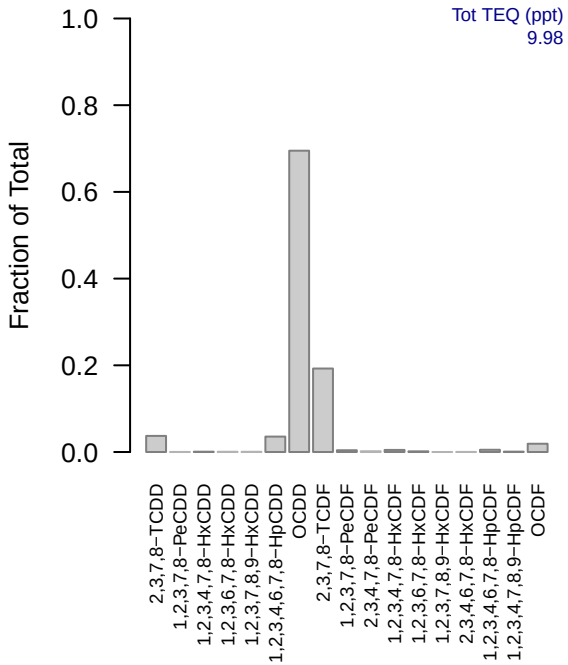

SJSH003(0−15.24 cm)
Tot TEQ (ppt)
2.50
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJSH004(0−15.24 cm)
Tot TEQ (ppt)
1.18
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

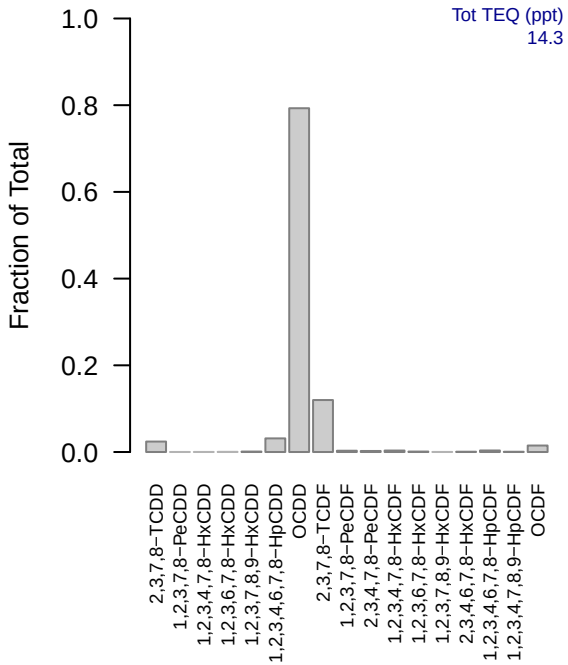

SJSH005(0−15.24 cm)
Tot TEQ (ppt)
1.04
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJSH008(0−5.1816 cm)
Tot TEQ (ppt)
8.5
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

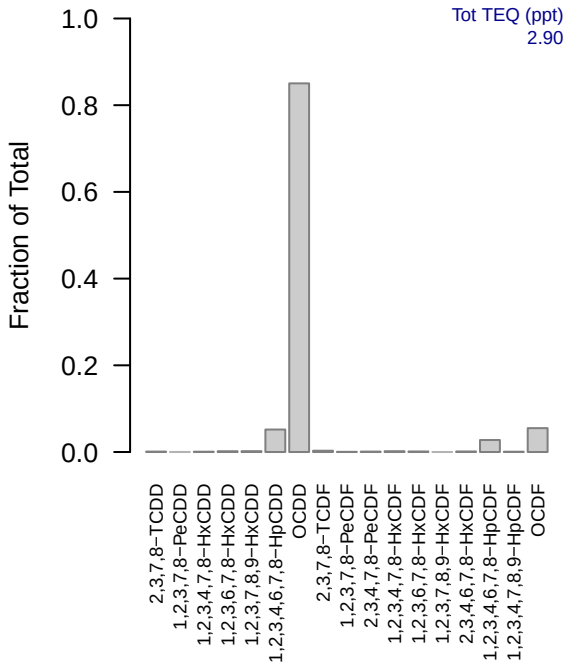
SJSH009(0−7.62 cm)



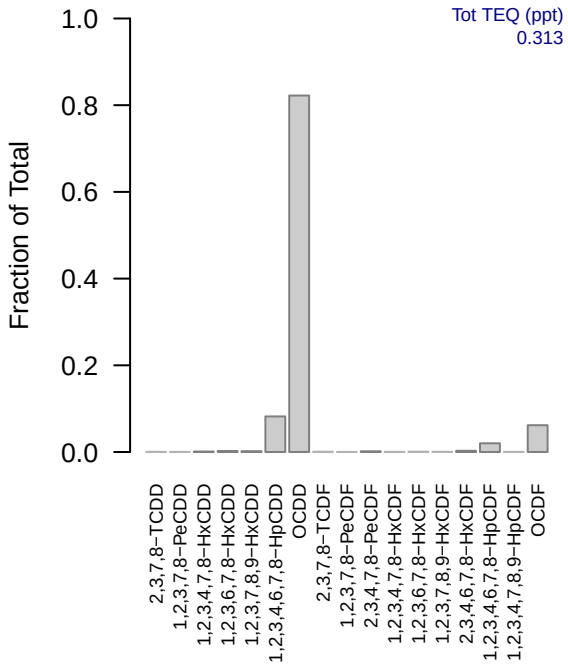
SJSH010(0−5.1816 cm)

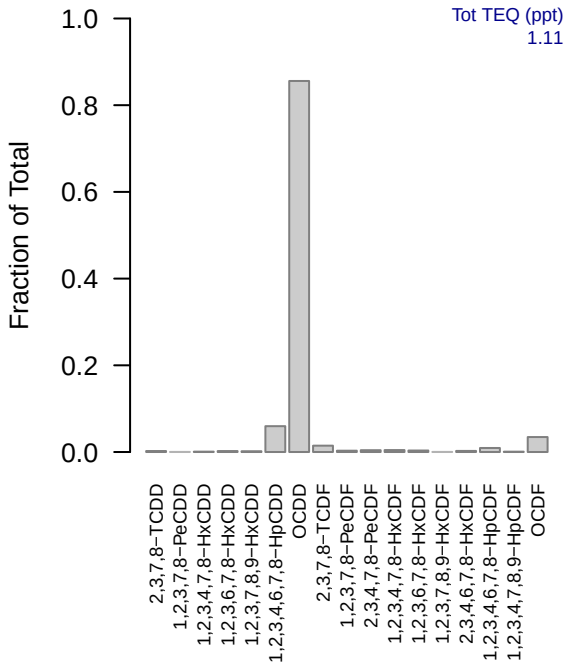


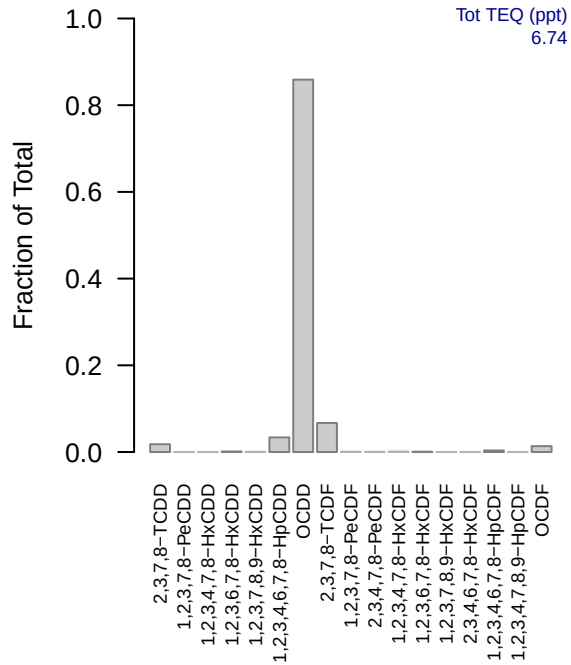
SJSH012(0−15.24 cm)

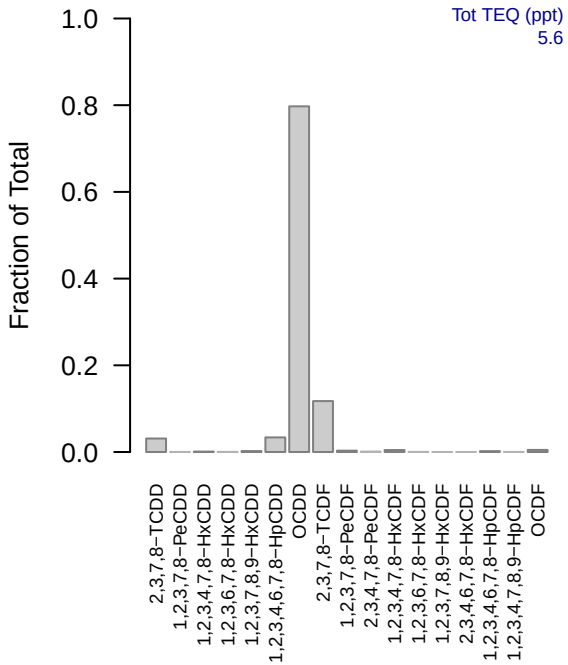


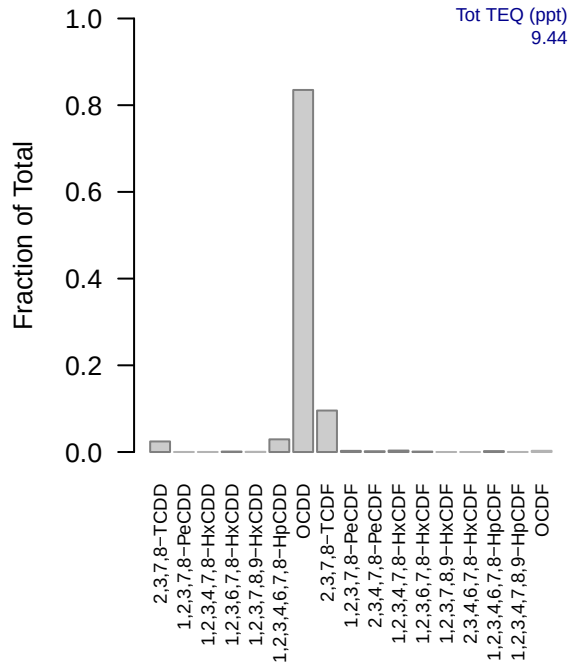
SJSH014(0−15.24 cm)



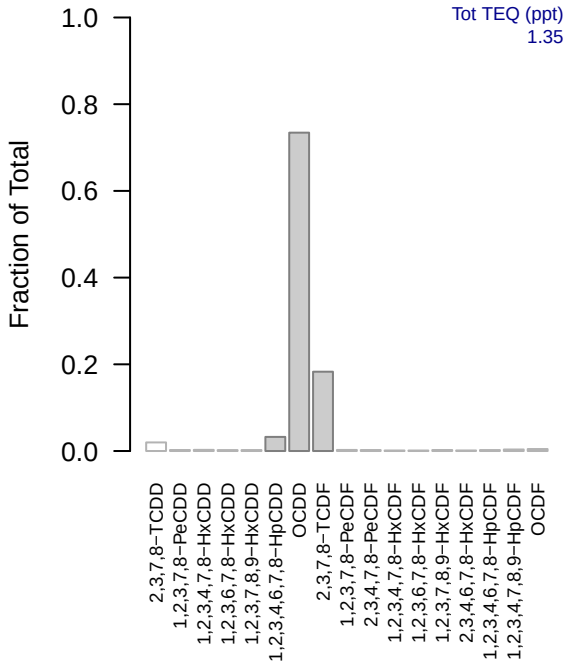

SJSH014(15.24−30.48 cm)
Tot TEQ (ppt)
1.11
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJSH017(0−15.24 cm)
Tot TEQ (ppt)
6.74
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

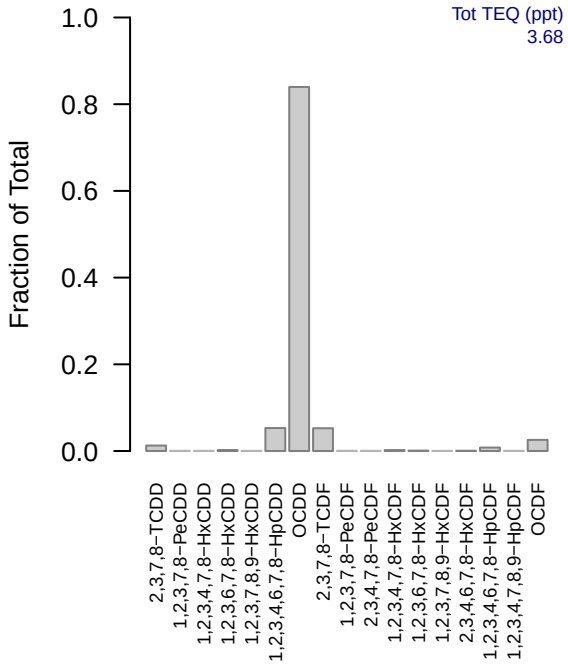

SJSH019(0−15.24 cm)
Tot TEQ (ppt)
5.6
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJSH021(0−15.24 cm)
Tot TEQ (ppt)
9.44
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

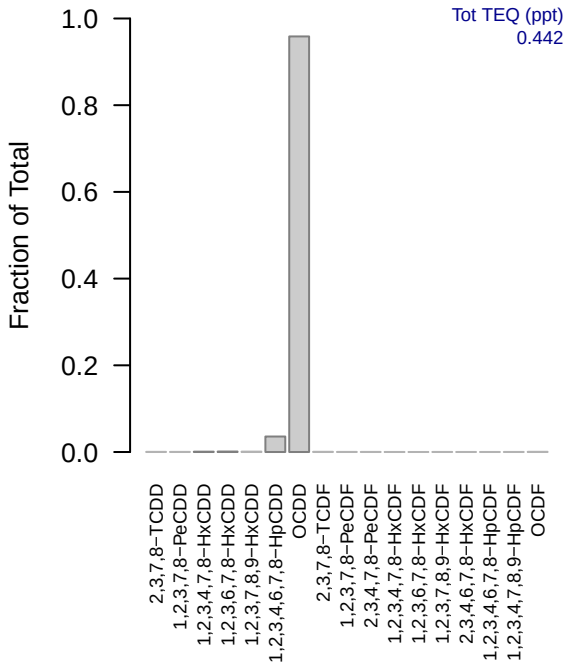
SJSH023(0−15.24 cm)



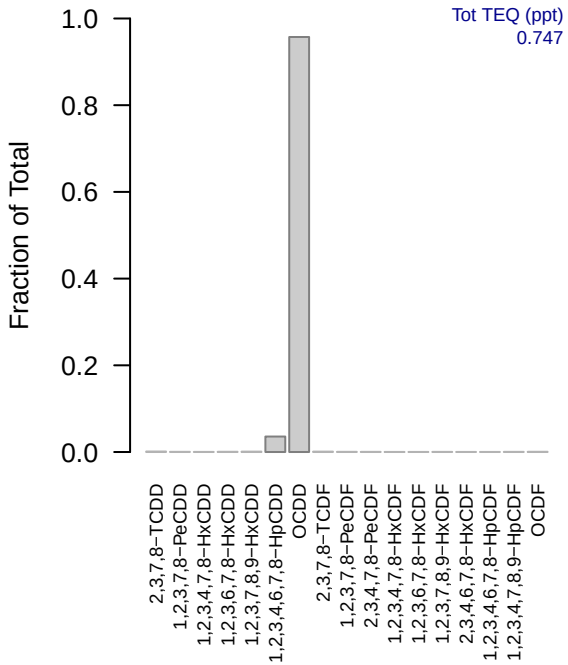
SJSH025(0−15.24 cm)

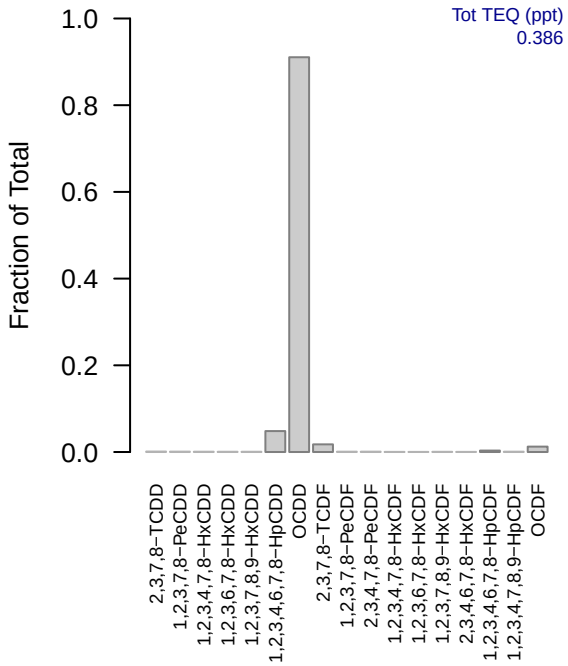


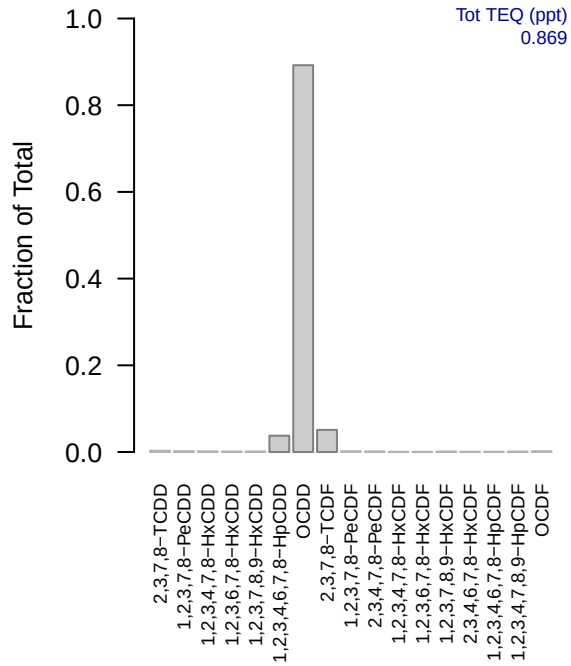
SJSH027(0−15.24 cm)

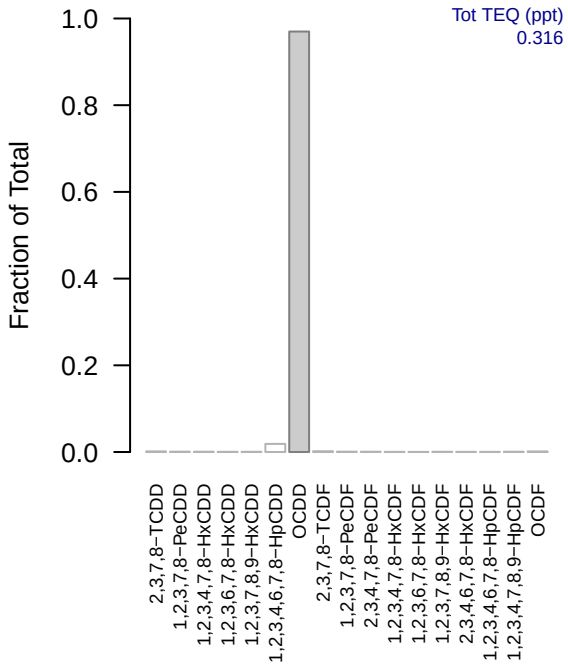


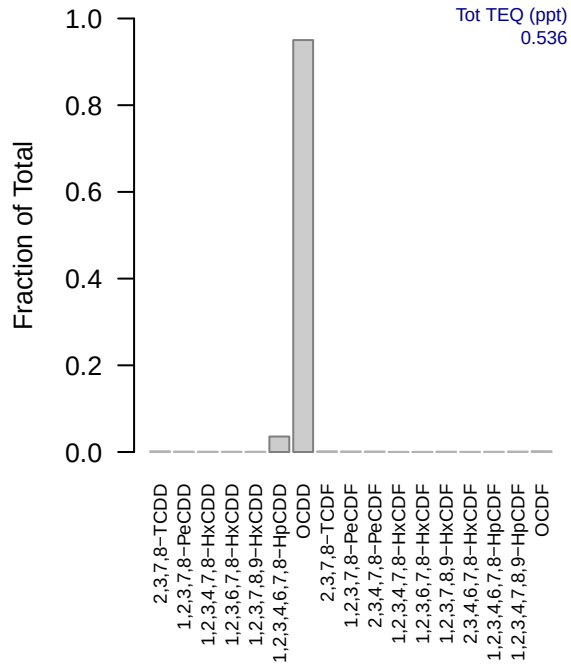
SJSH027(15.24−30.48 cm)

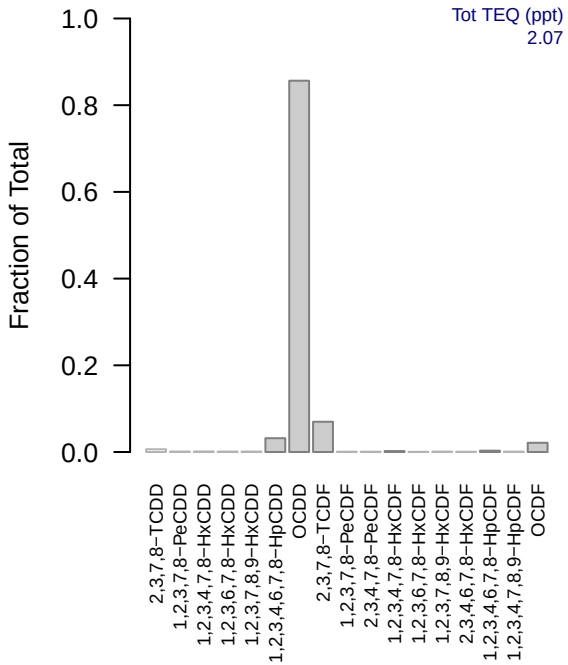


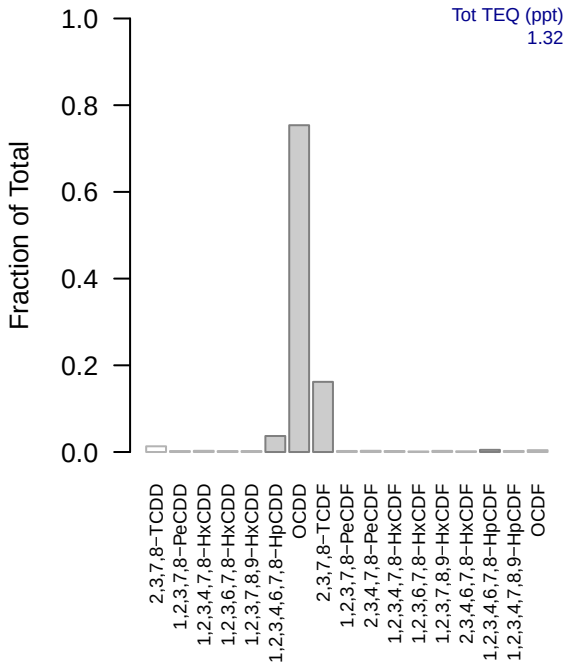

SJSH029(0−15.24 cm)
Tot TEQ (ppt)
0.386
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

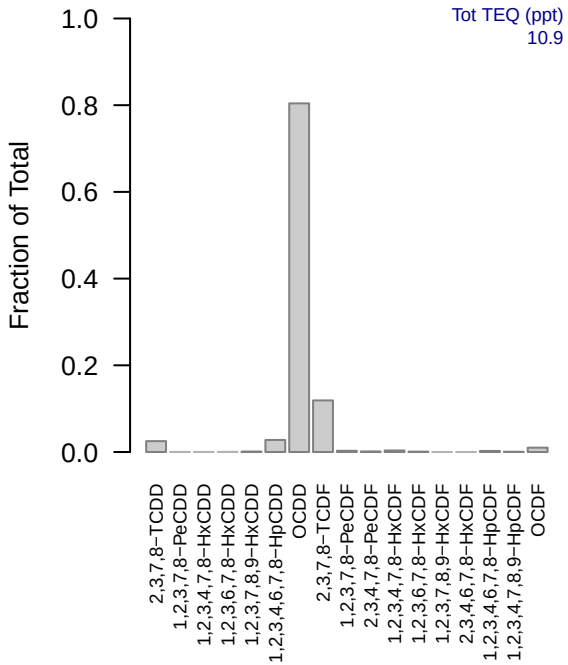

SJSH029(15.24−30.48 cm)
Tot TEQ (ppt)
0.869
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

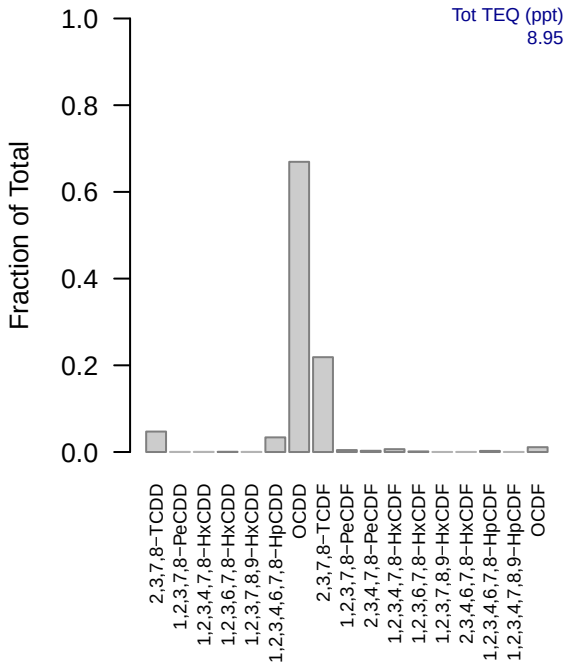

SJSH031(0−15.24 cm)
Tot TEQ (ppt)
0.316
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJSH031(15.24−30.48 cm)
Tot TEQ (ppt)
0.536
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

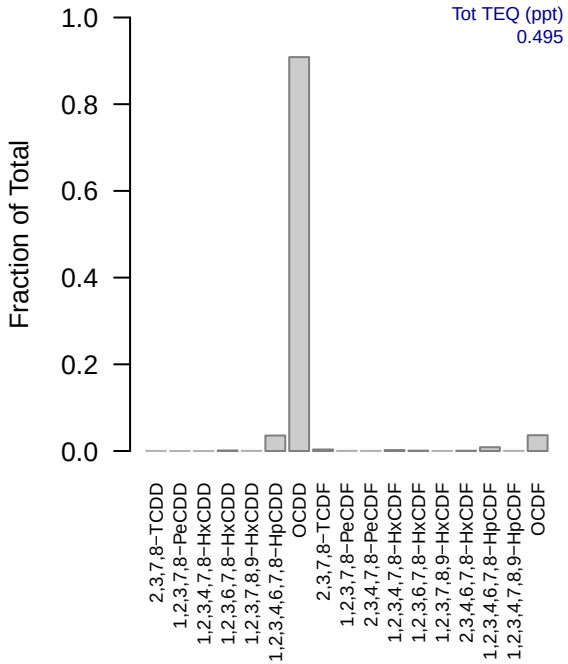

SJSH033(0−15.24 cm)
Tot TEQ (ppt)
2.07
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJSH033(15.24−30.48 cm)
Tot TEQ (ppt)
1.32
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

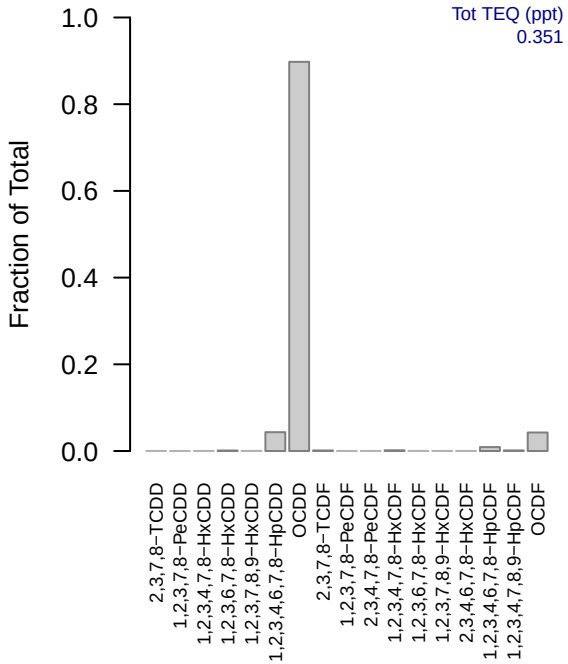

SJSH035(0−15.24 cm)
Tot TEQ (ppt)
10.9
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJSH035(15.24−30.48 cm)
Tot TEQ (ppt)
8.95
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

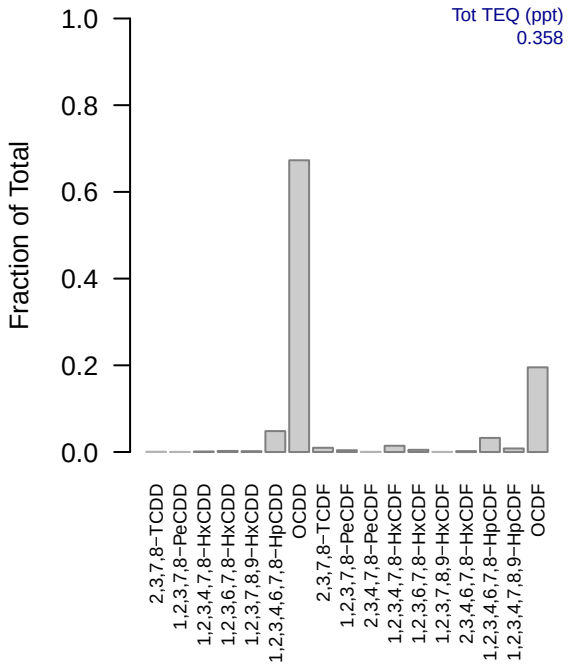
SJSH036(0−15.24 cm)



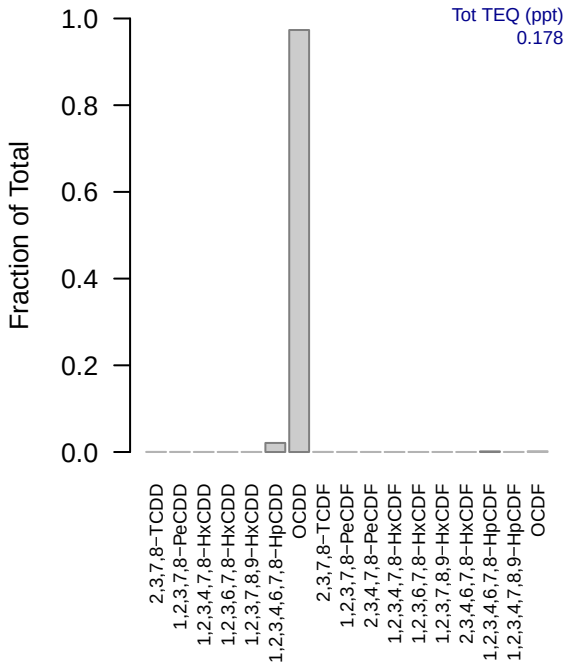
SJSH038(0−15.24 cm)

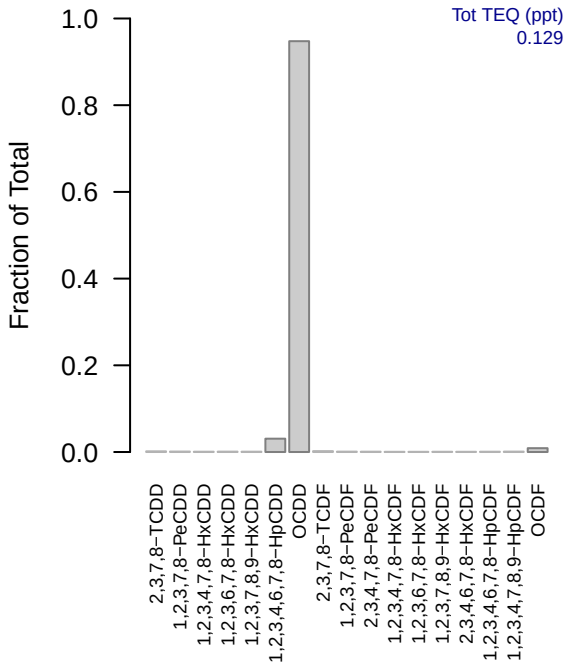


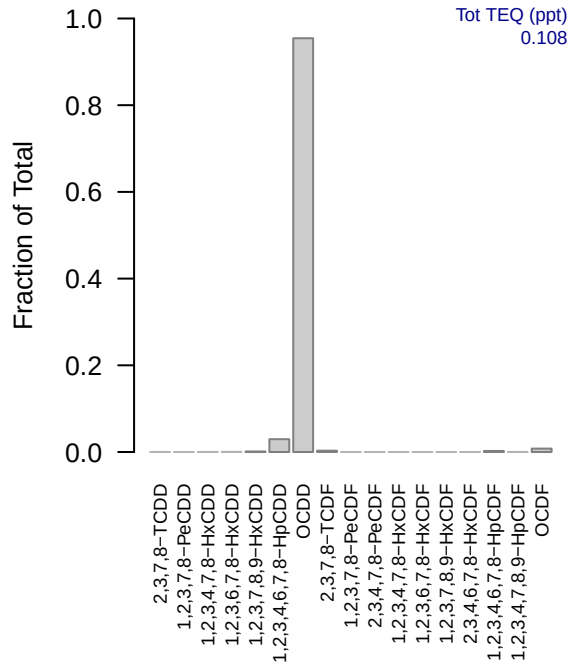
SJSH040(0−15.24 cm)

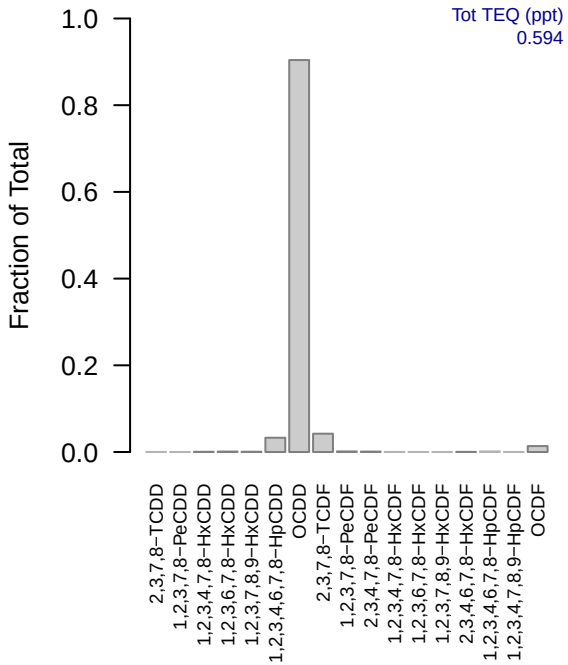


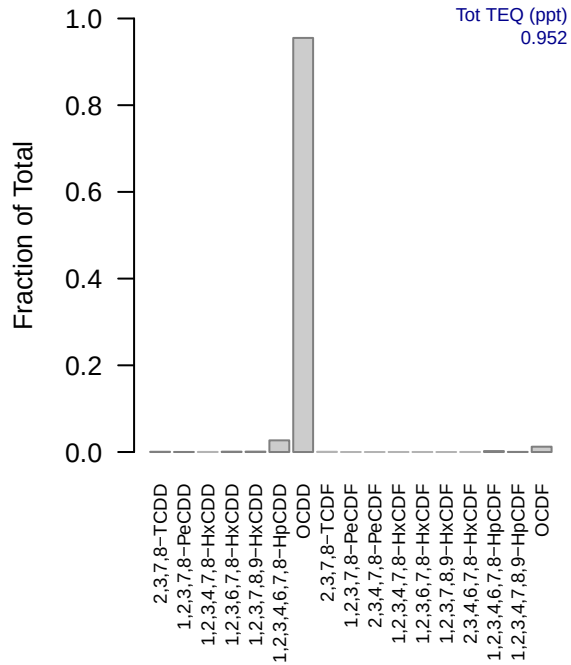
SJSH042(0−15.24 cm)

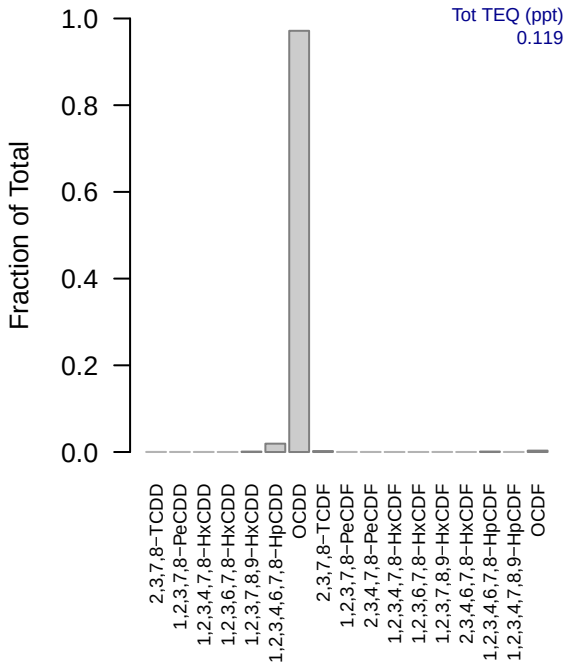


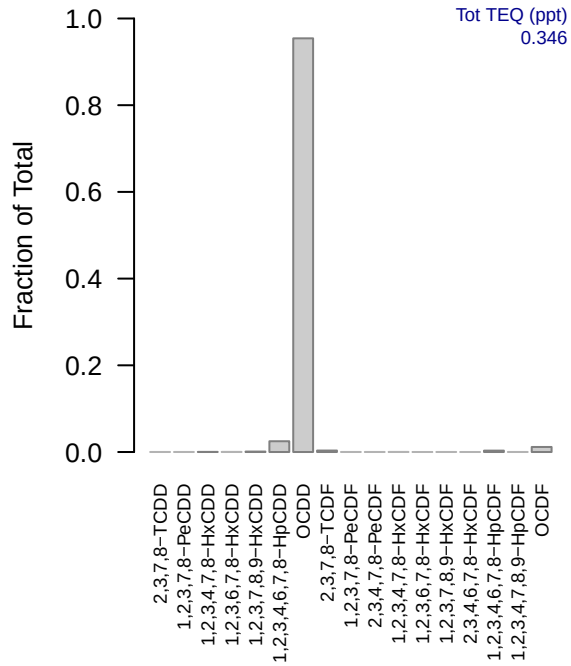

SJSH044(0−15.24 cm)
Tot TEQ (ppt)
0.129
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

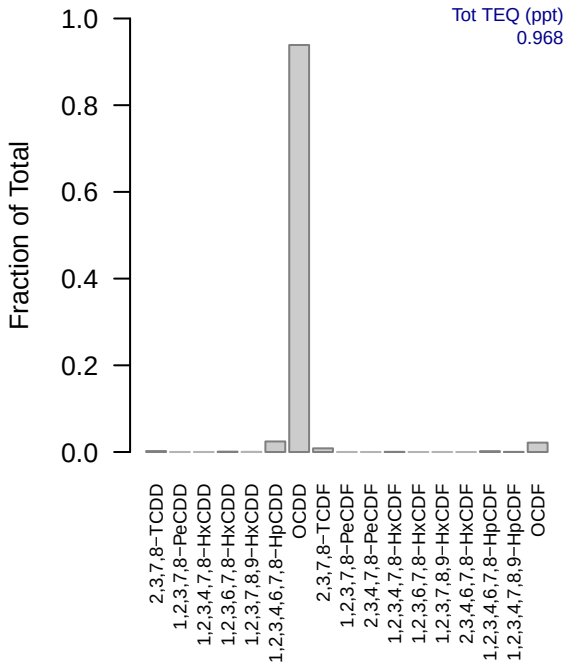

SJSH047(0−15.24 cm)
Tot TEQ (ppt)
0.108
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

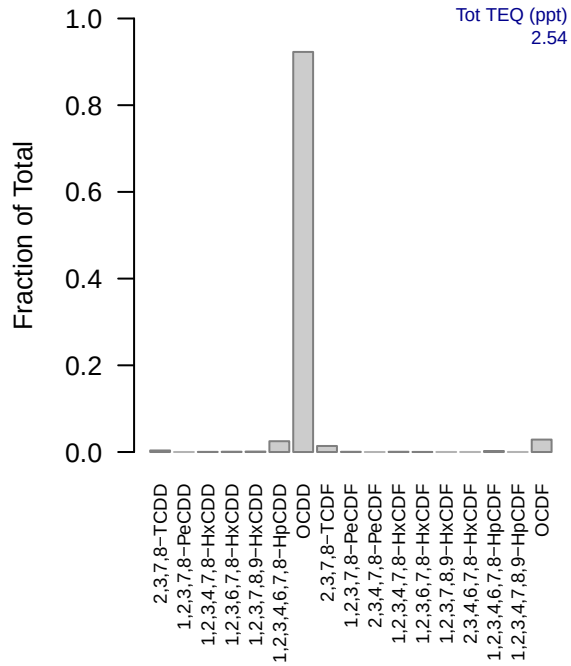

SJSH049(0−15.24 cm)
Tot TEQ (ppt)
0.594
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

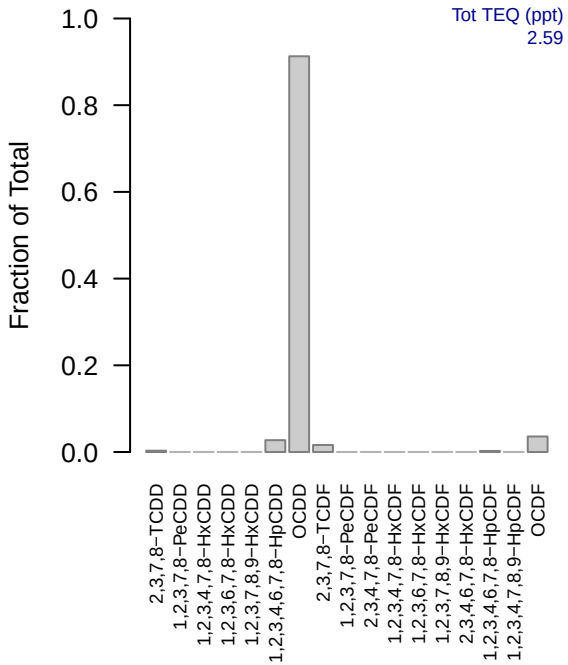

SJSH051(0−15.24 cm)
Tot TEQ (ppt)
0.952
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

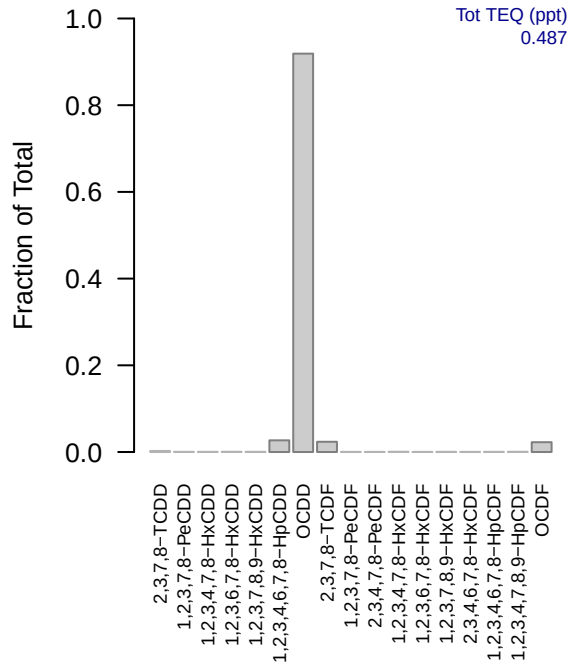

SJSH053(0−15.24 cm)
Tot TEQ (ppt)
0.119
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

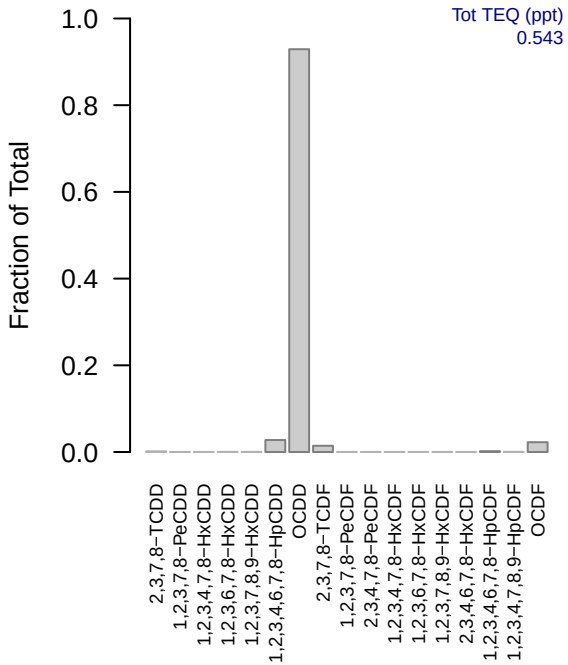

SJSH055(0−15.24 cm)
Tot TEQ (ppt)
0.346
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

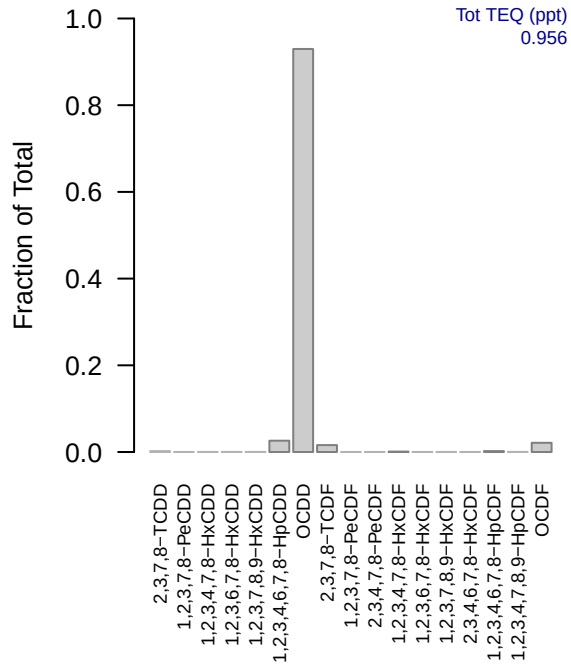

SJSH056(0−15.24 cm)
Tot TEQ (ppt)
0.968
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

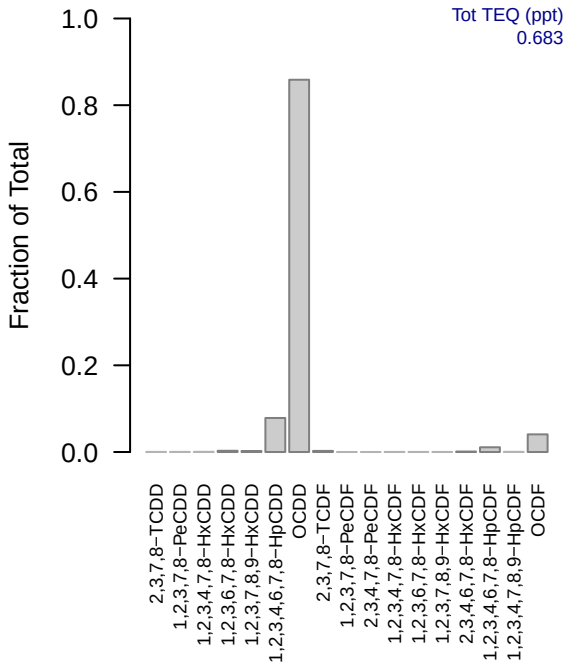

SJSH057(0−15.24 cm)
Tot TEQ (ppt)
2.54
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

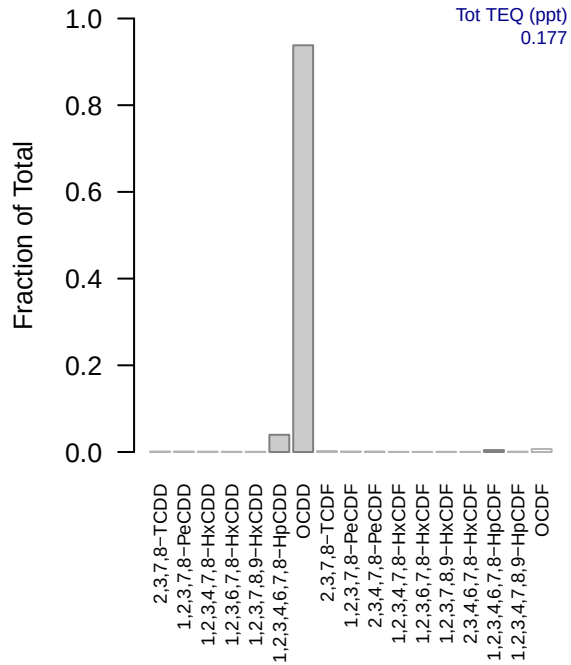

SJSH058(0−15.24 cm)
Tot TEQ (ppt)
2.59
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

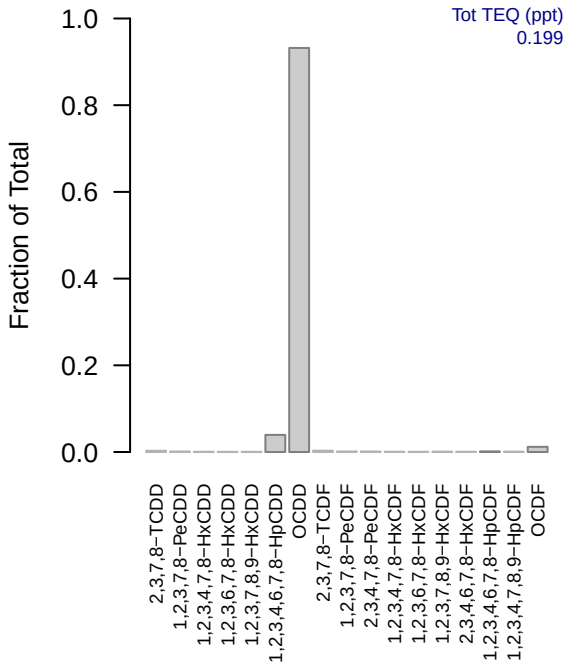

SJSH059(0−15.24 cm)
Tot TEQ (ppt)
0.487
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

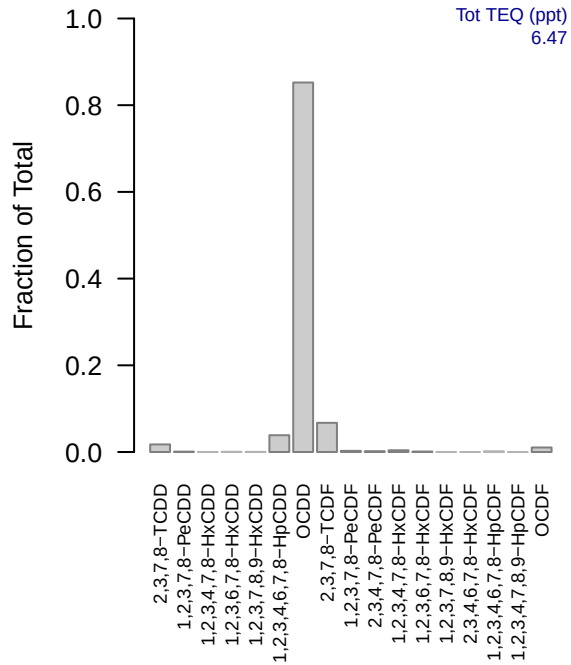

SJSH060(0−15.24 cm)
Tot TEQ (ppt)
0.543
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

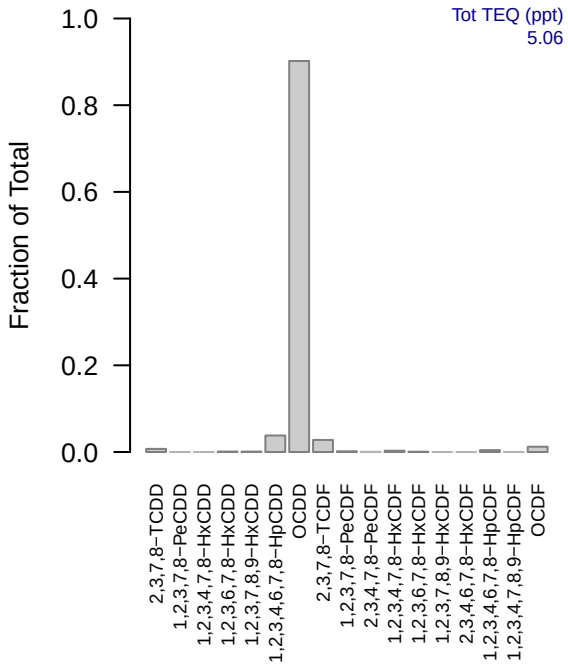

SJSH061(0−15.24 cm)
Tot TEQ (ppt)
0.956
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

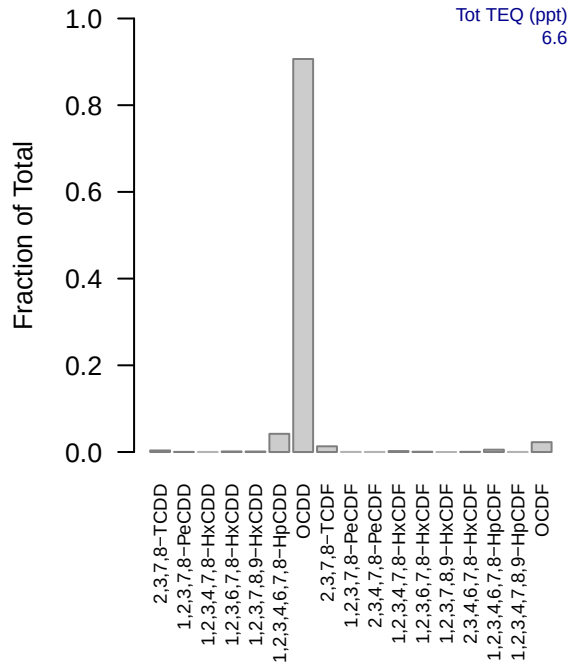

SJSH062(0−15.24 cm)
Tot TEQ (ppt)
0.683
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

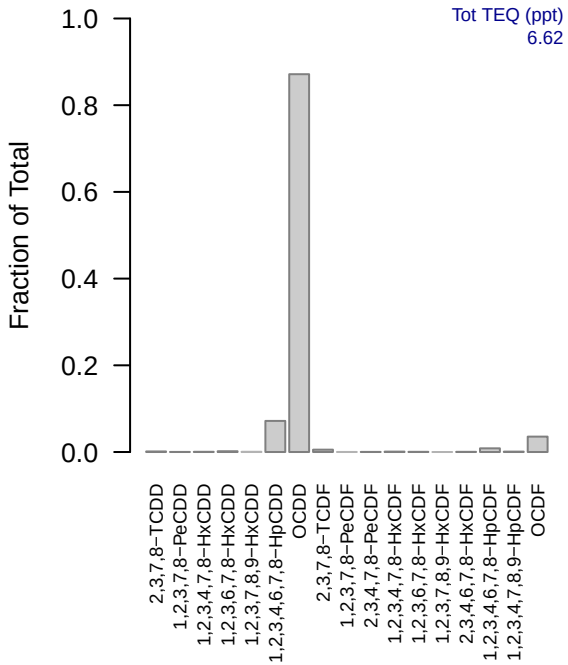

SJSH063(0−15.24 cm)
Tot TEQ (ppt)
0.177
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

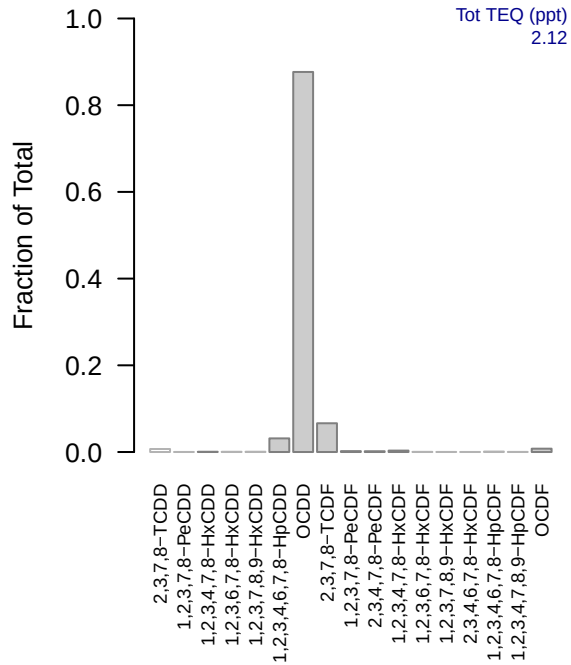

SJSH064(0−15.24 cm)
Tot TEQ (ppt)
0.199
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

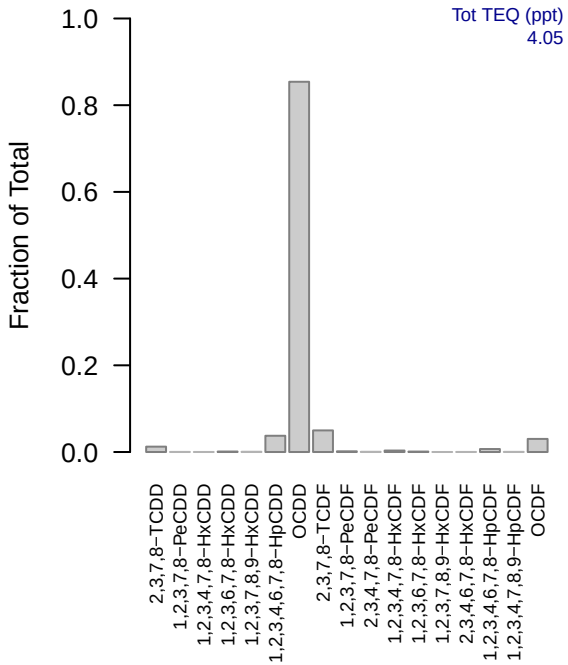

SJTS001(0−15.24 cm)
Tot TEQ (ppt)
6.47
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

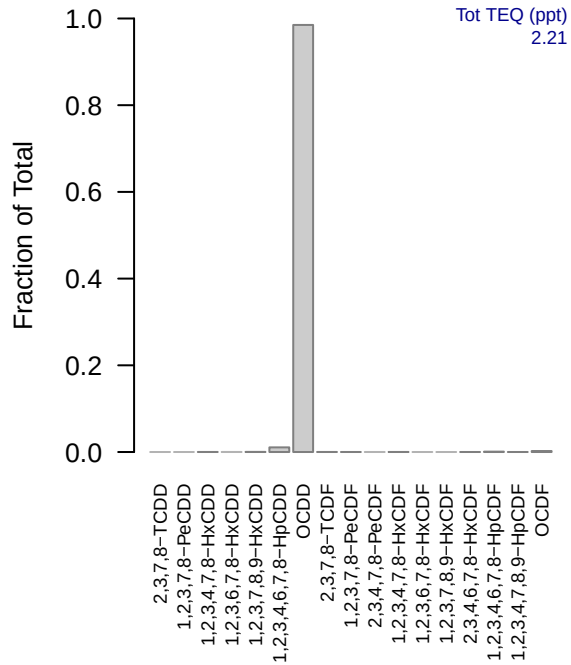

SJTS001(15.24−30.48 cm)
Tot TEQ (ppt)
5.06
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

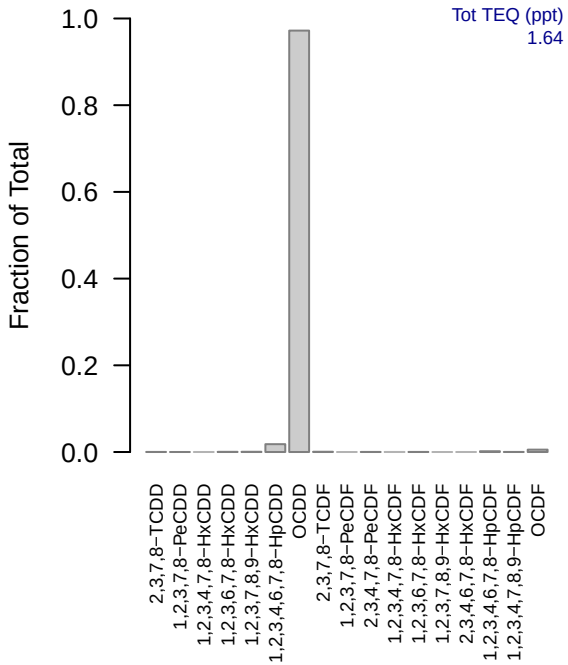

SJTS002(0−15.24 cm)
Tot TEQ (ppt)
6.6
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

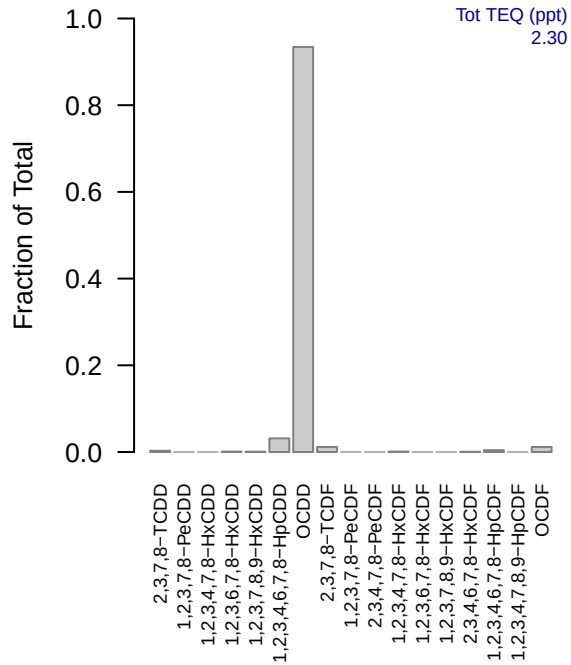

SJTS002(15.24−30.48 cm)
Tot TEQ (ppt)
6.62
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS003(0−15.24 cm)
Tot TEQ (ppt)
2.12
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

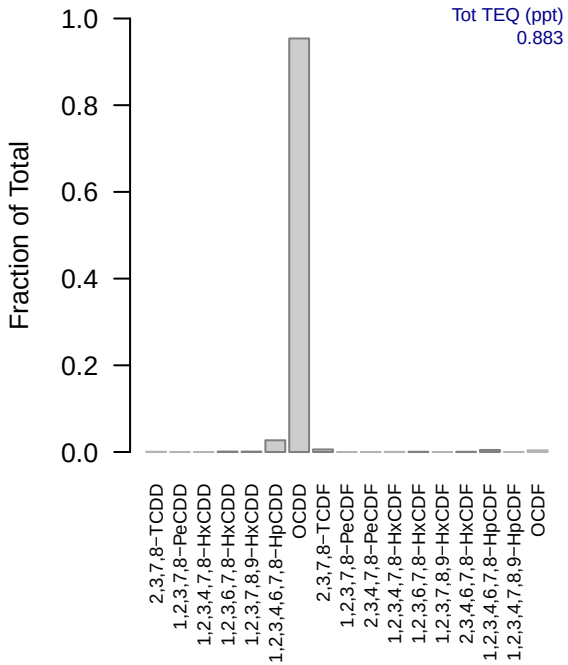

SJTS003(15.24−30.48 cm)
Tot TEQ (ppt)
4.05
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS004(0−15.24 cm)
Tot TEQ (ppt)
2.21
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

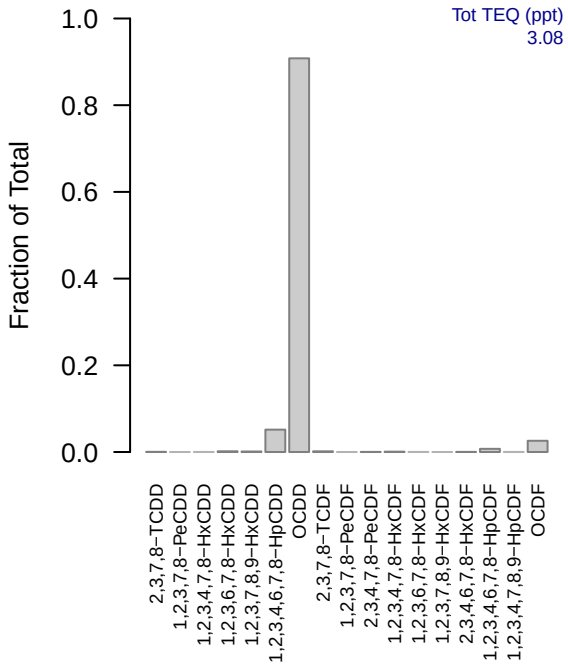

SJTS004(15.24−30.48 cm)
Tot TEQ (ppt)
1.64
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS005(0−15.24 cm)
Tot TEQ (ppt)
2.30
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

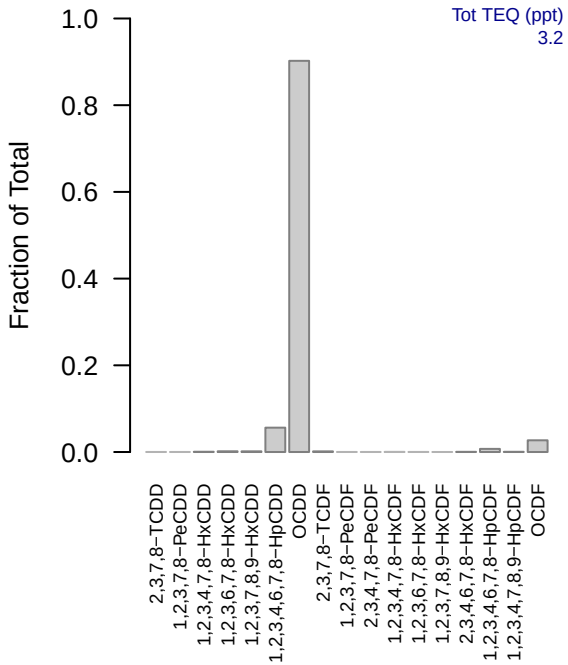
SJTS005(15.24−30.48 cm)



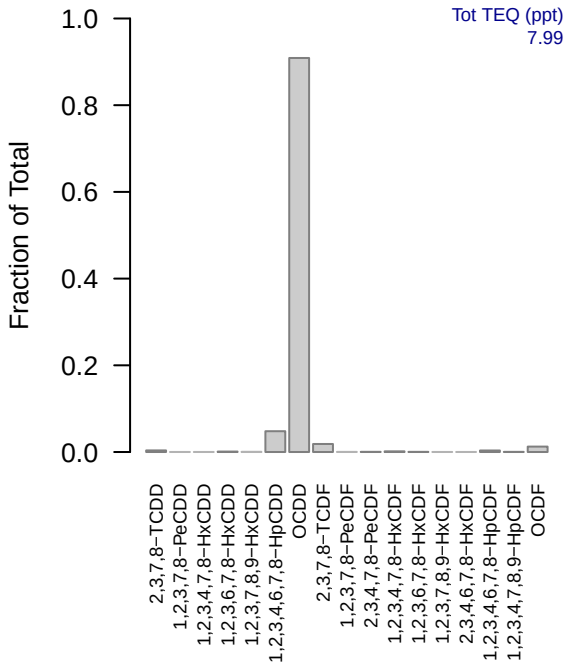
SJTS006(0−15.24 cm)

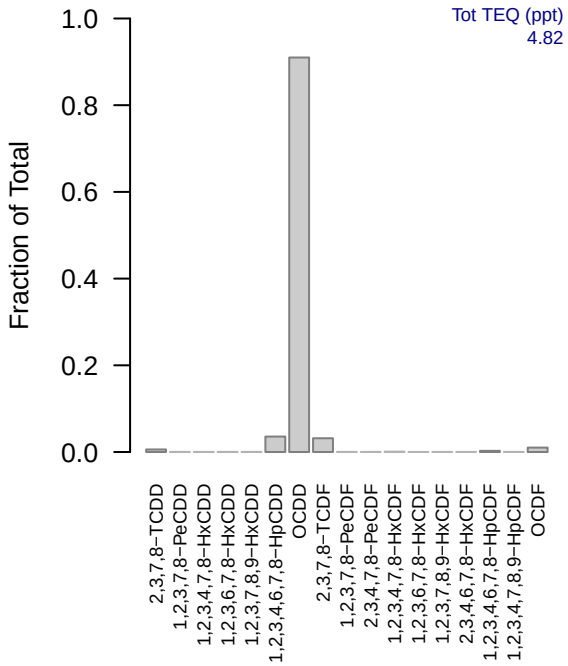


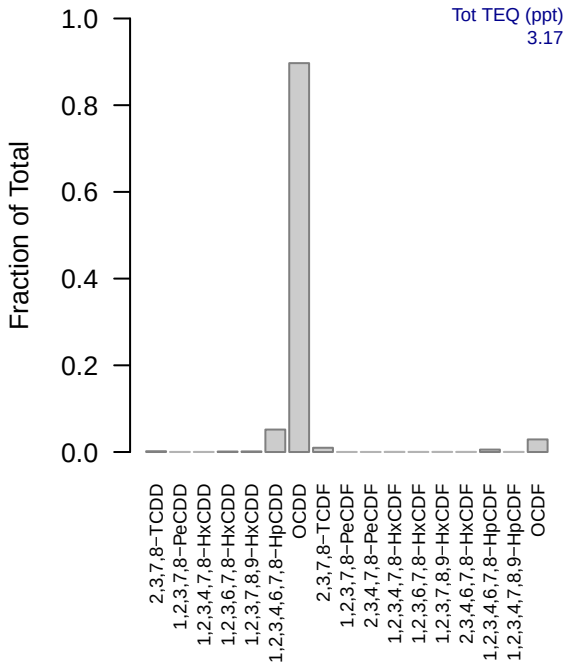
SJTS006(15.24−30.48 cm)

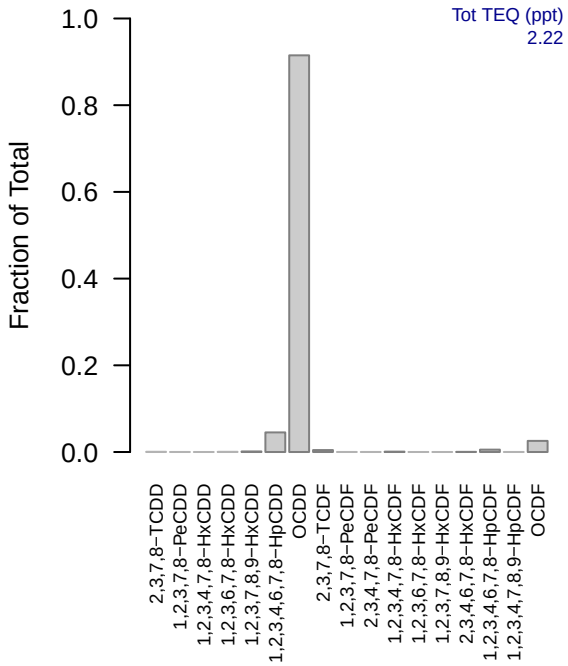


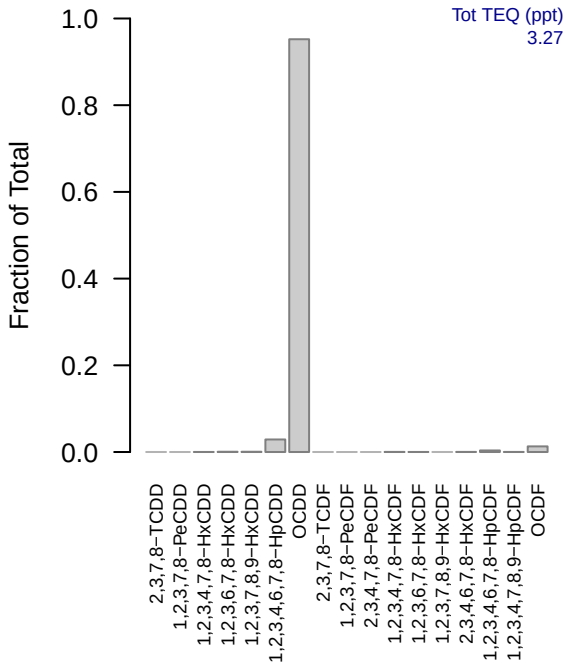
SJTS007(0−15.24 cm)

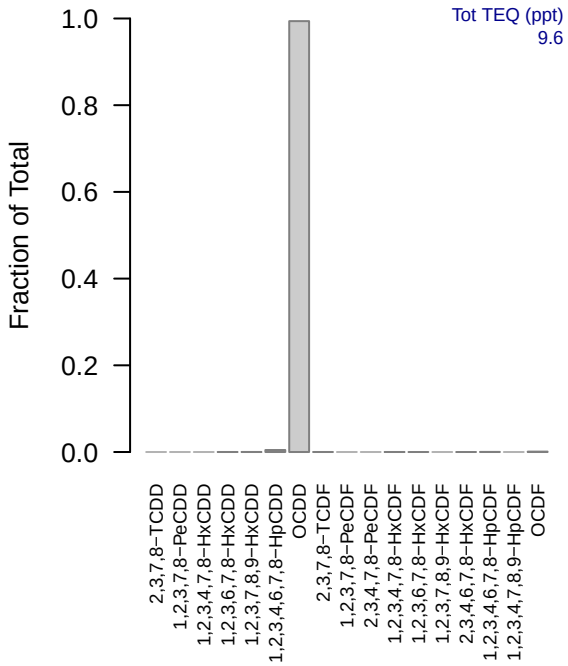


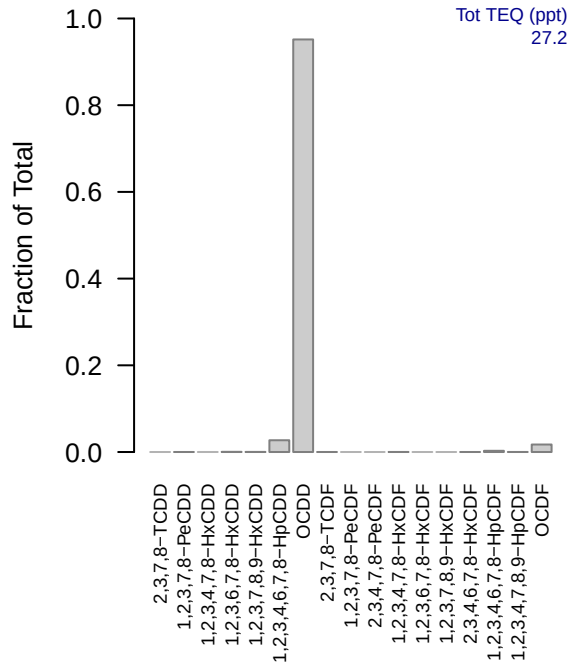

SJTS007(15.24−30.48 cm)
Tot TEQ (ppt)
4.82
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

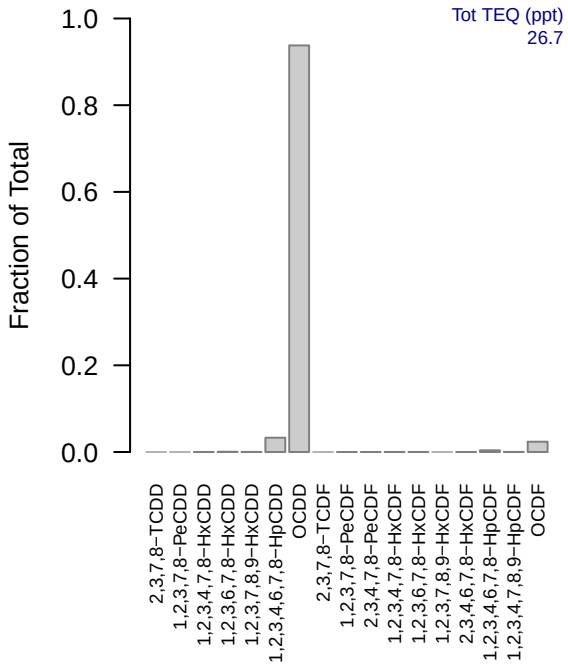

SJTS008(0−15.24 cm)
Tot TEQ (ppt)
3.17
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

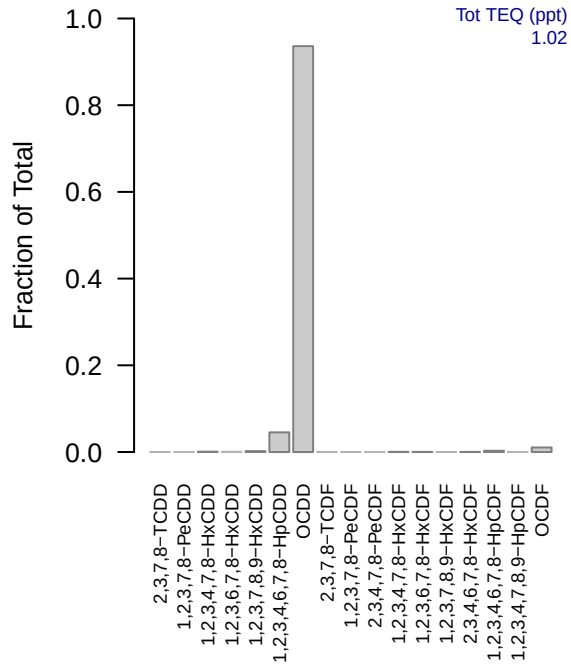

SJTS008(15.24−30.48 cm)
Tot TEQ (ppt)
2.22
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

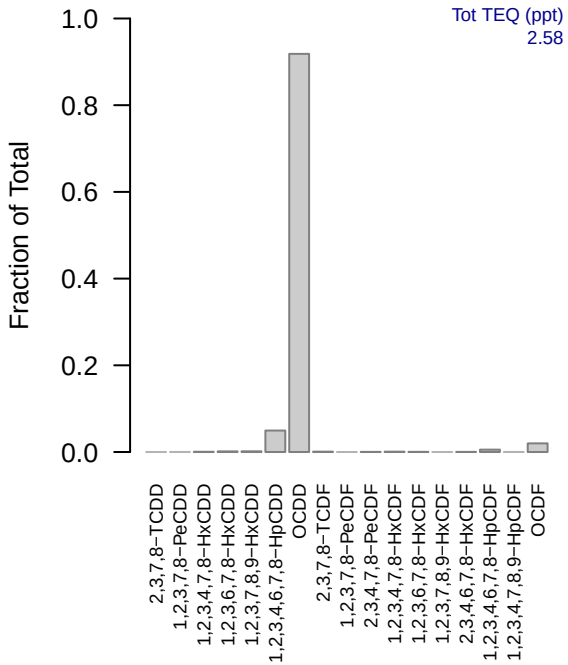

SJTS009(0−15.24 cm)
Tot TEQ (ppt)
3.27
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

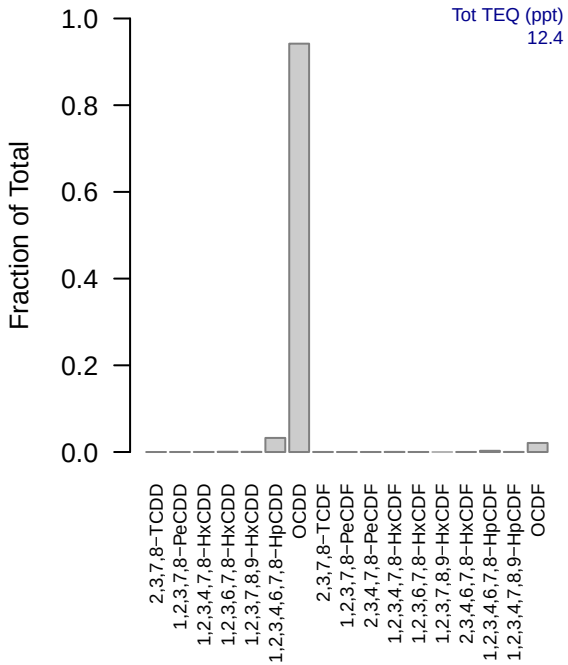

SJTS009(15.24−30.48 cm)
Tot TEQ (ppt)
9.6
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

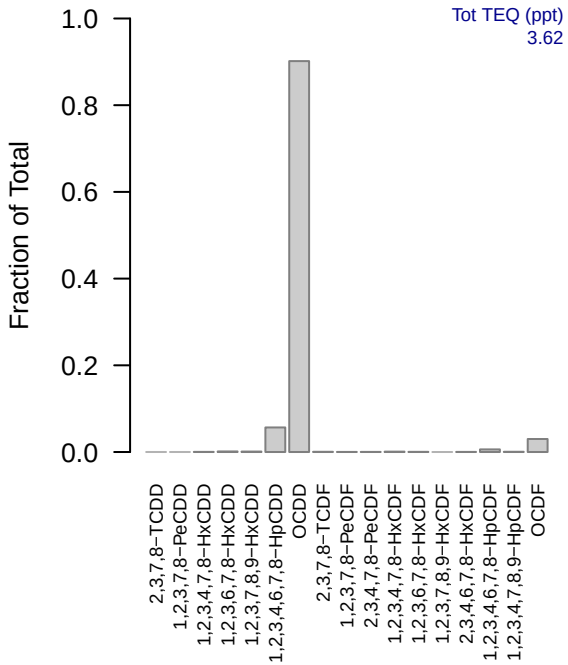

SJTS010(0−15.24 cm)
Tot TEQ (ppt)
27.2
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

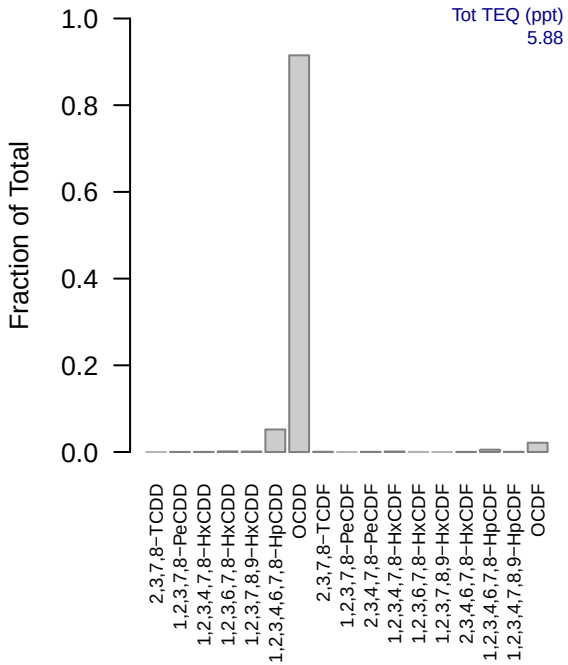

SJTS010(15.24−30.48 cm)
Tot TEQ (ppt)
26.7
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

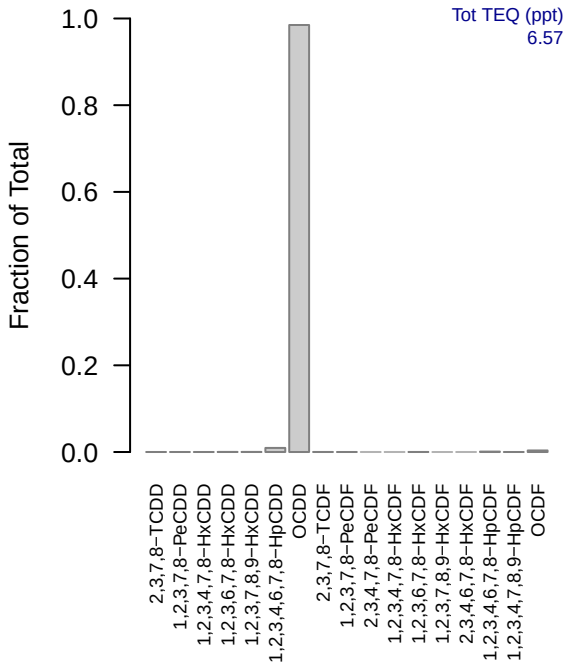

SJTS011(0−15.24 cm)
Tot TEQ (ppt)
1.02
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

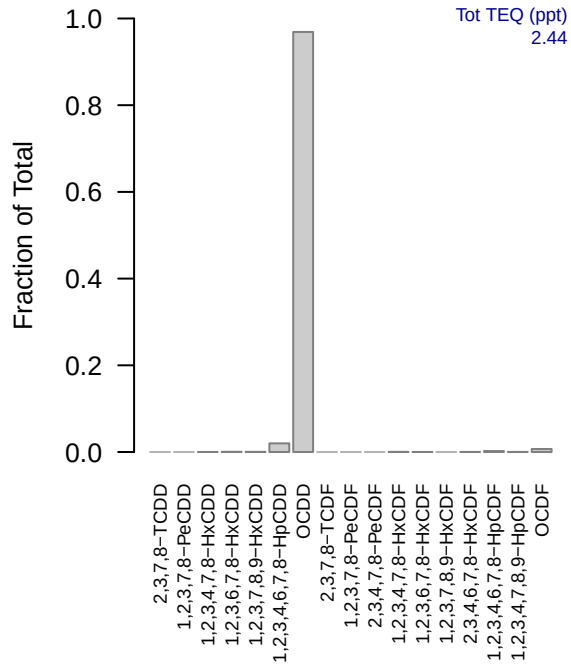

SJTS011(15.24−30.48 cm)
Tot TEQ (ppt)
2.58
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

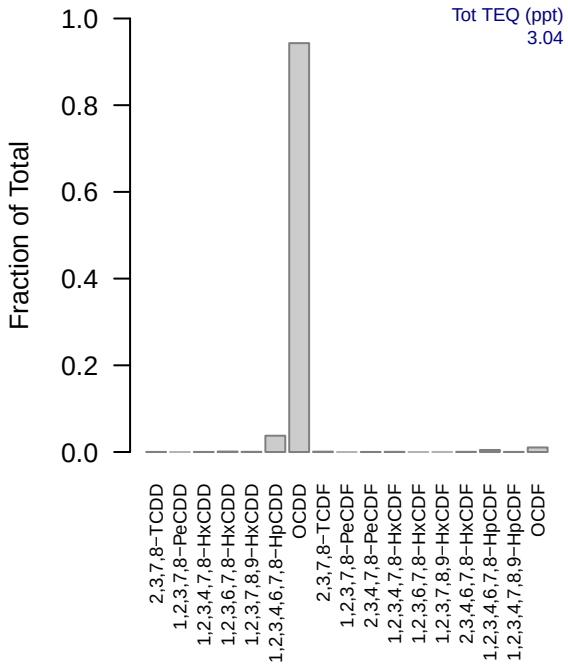

SJTS012(0−15.24 cm)
Tot TEQ (ppt)
12.4
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

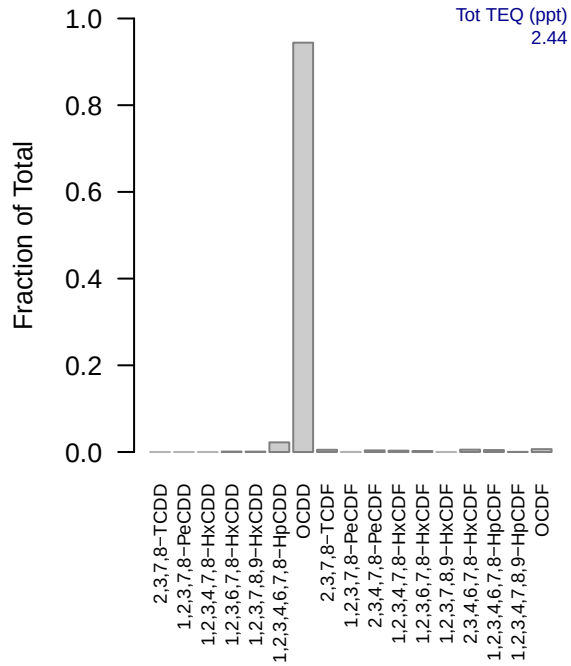

SJTS012(15.24−30.48 cm)
Tot TEQ (ppt)
3.62
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS013(0−15.24 cm)
Tot TEQ (ppt)
5.88
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

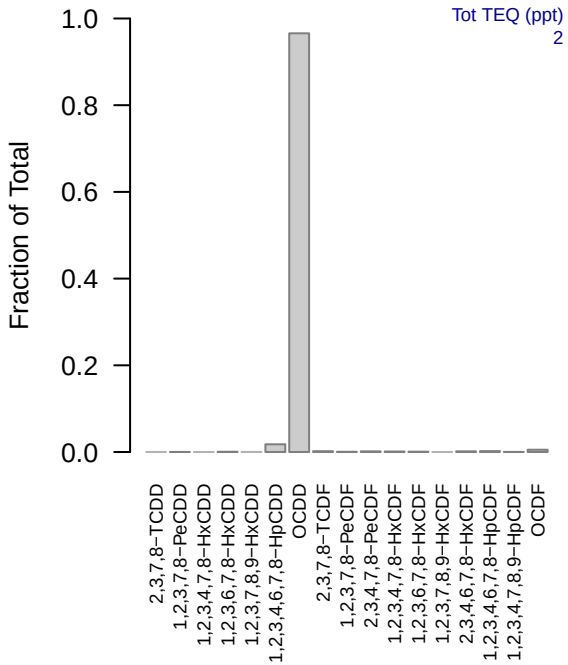

SJTS013(15.24−30.48 cm)
Tot TEQ (ppt)
6.57
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS014(0−15.24 cm)
Tot TEQ (ppt)
2.44
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

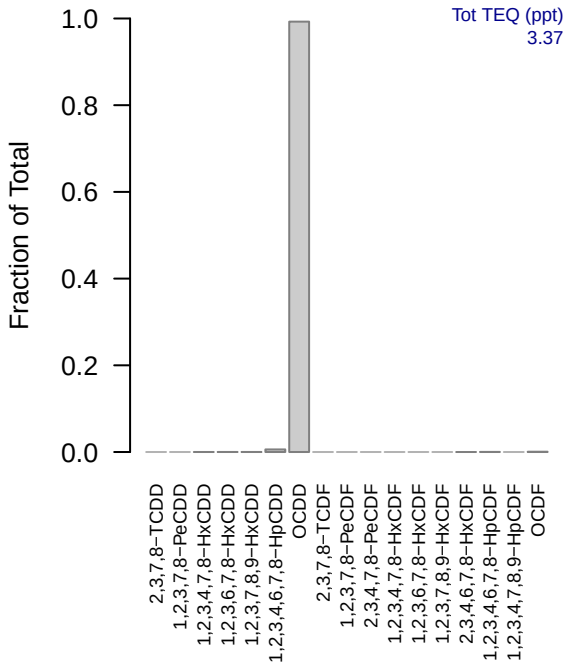

SJTS014(15.24−30.48 cm)
Tot TEQ (ppt)
3.04
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS015(0−15.24 cm)
Tot TEQ (ppt)
2.44
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

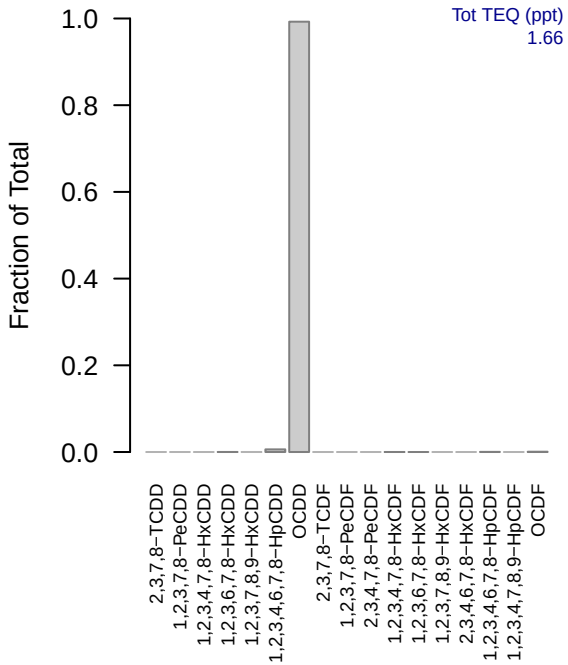
SJTS015(15.24−24.384 cm)



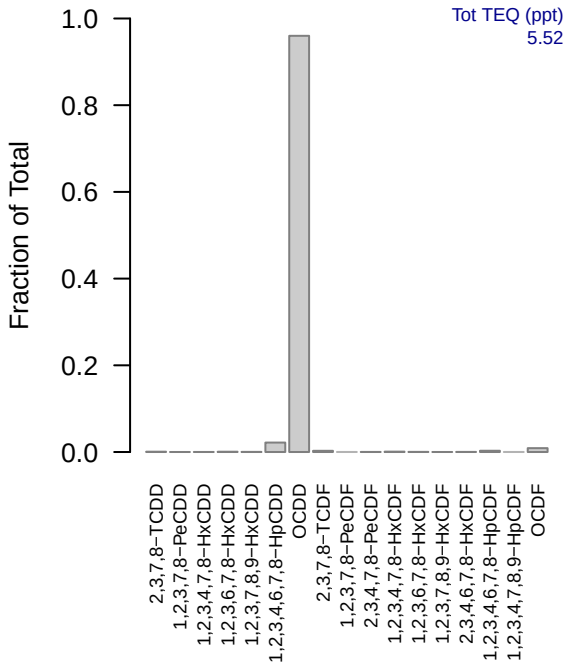
SJTS016(0−15.24 cm)

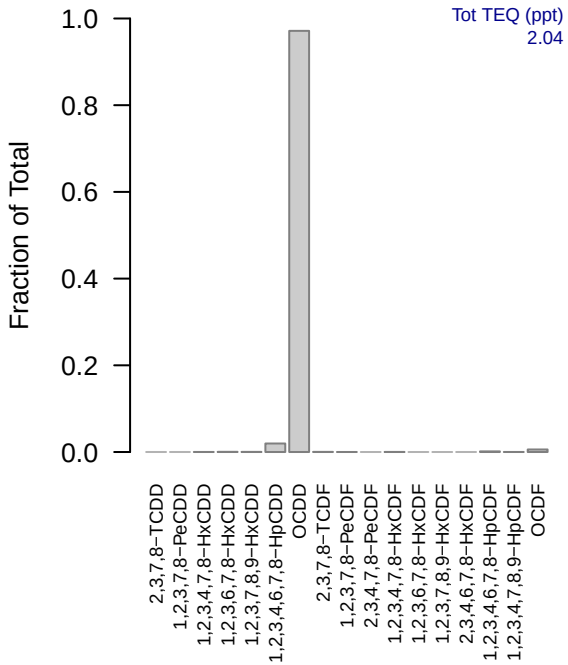


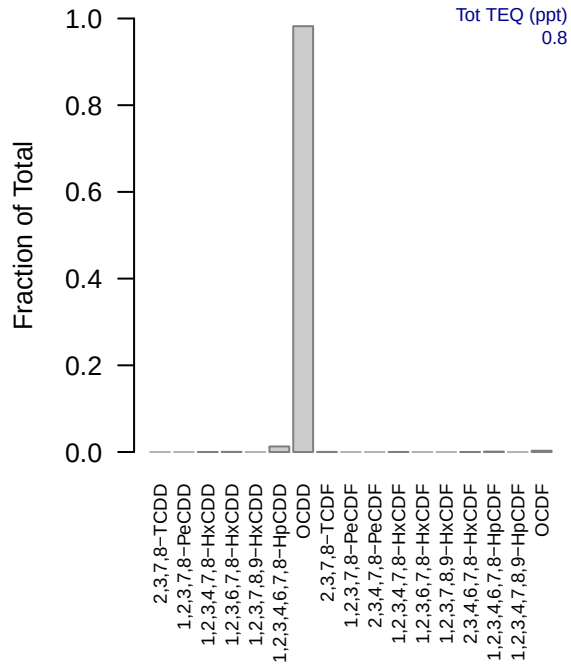
SJTS016(15.24−30.48 cm)

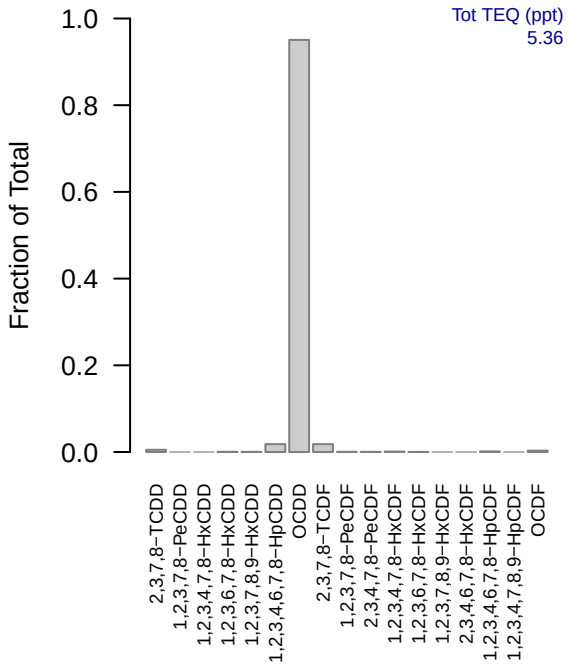


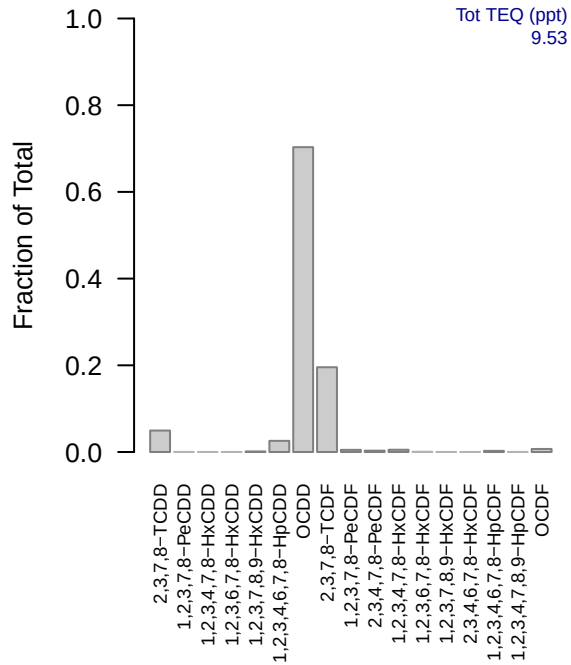
SJTS016(30.48−57.912 cm)

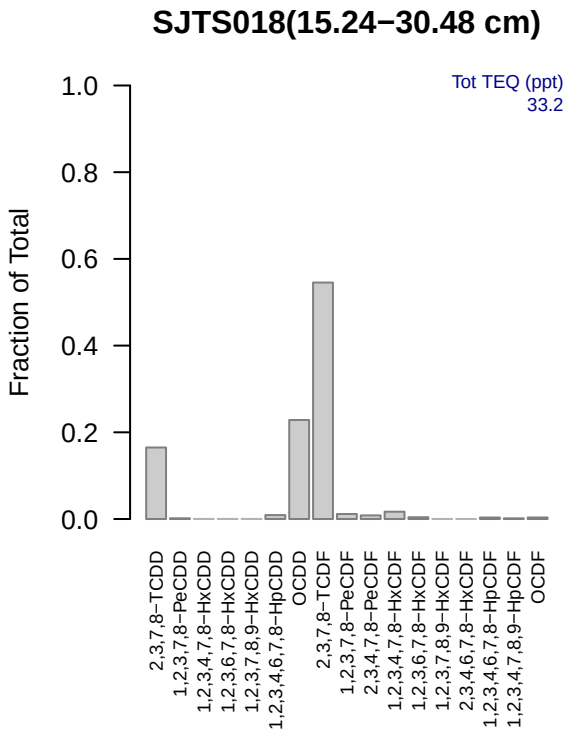


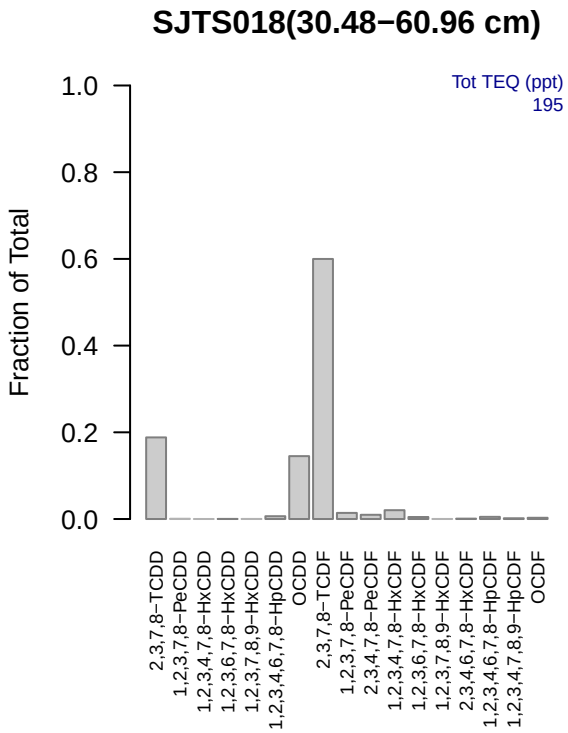

SJTS017(0−15.24 cm)
Tot TEQ (ppt)
2.04
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

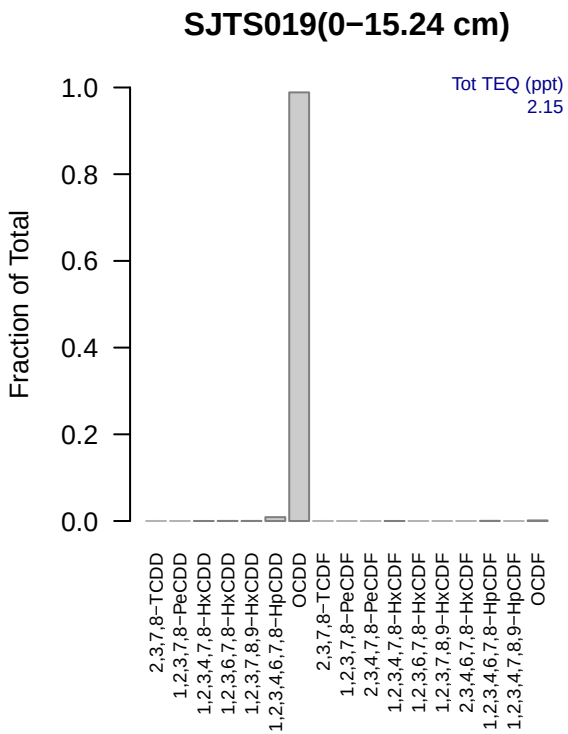

SJTS017(15.24−30.48 cm)
Tot TEQ (ppt)
0.8
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

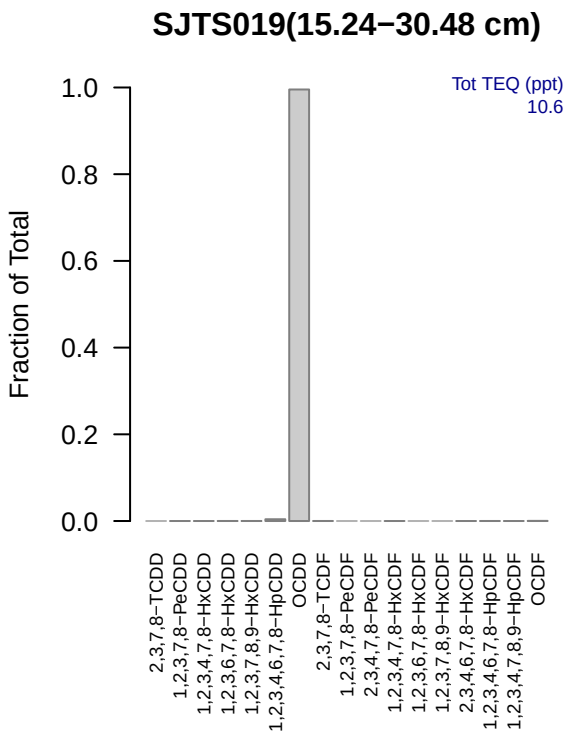

SJTS017(30.48−60.96 cm)
Tot TEQ (ppt)
5.36
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS018(0−15.24 cm)
Tot TEQ (ppt)
9.53
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

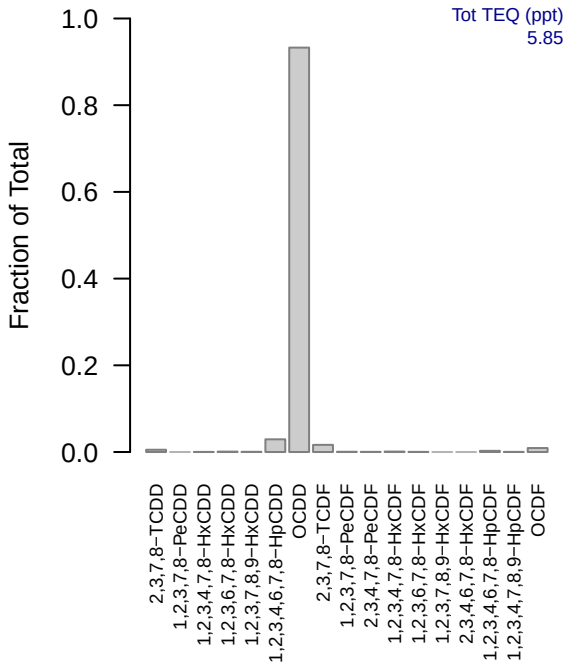

SJTS018(15.24−30.48 cm)
Tot TEQ (ppt)
33.2
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS018(30.48−60.96 cm)
Tot TEQ (ppt)
195
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

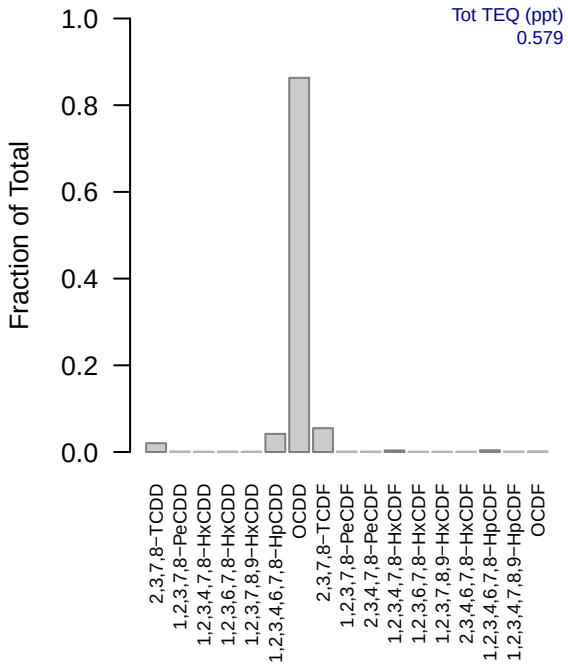

SJTS019(0−15.24 cm)
Tot TEQ (ppt)
2.15
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS019(15.24−30.48 cm)
Tot TEQ (ppt)
10.6
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

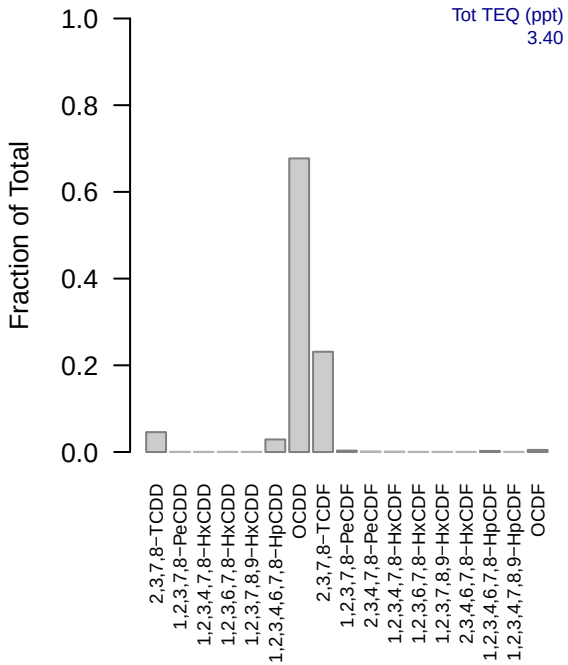
SJTS019(30.48−60.96 cm)



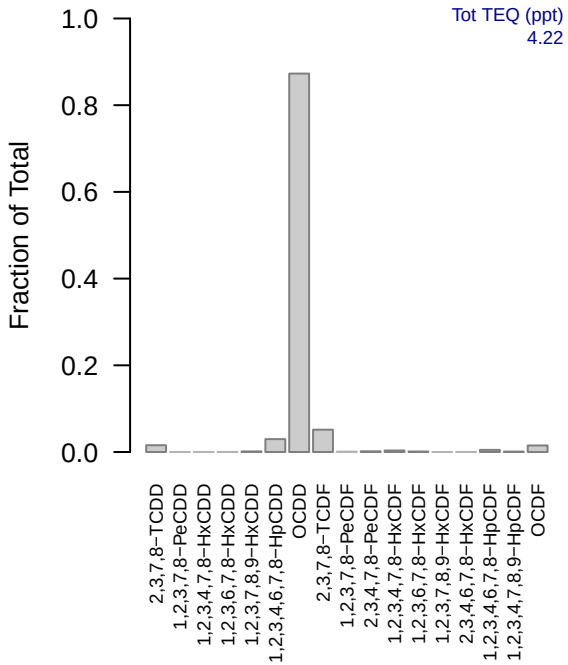
SJTS020(0−15.24 cm)

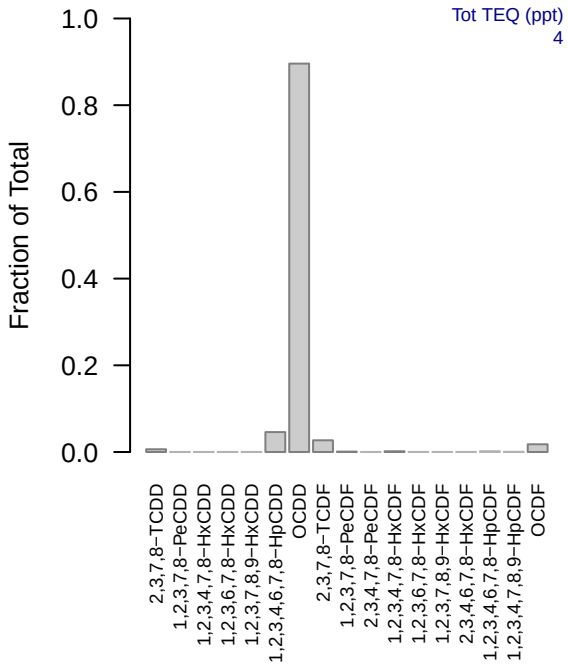


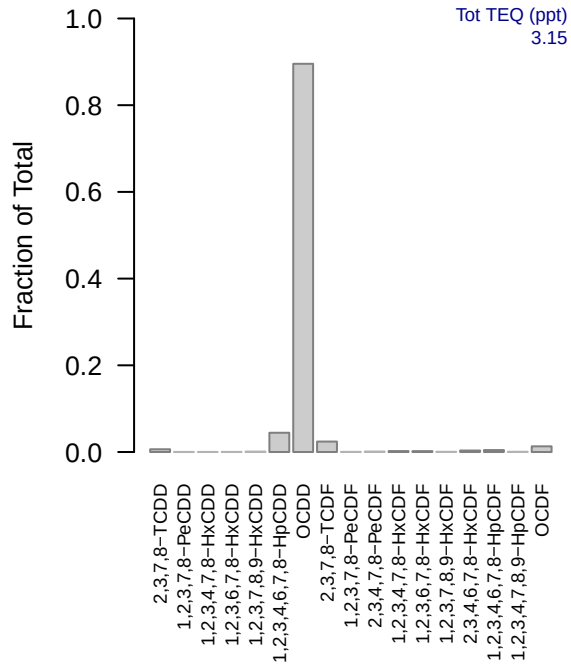
SJTS020(15.24−30.48 cm)

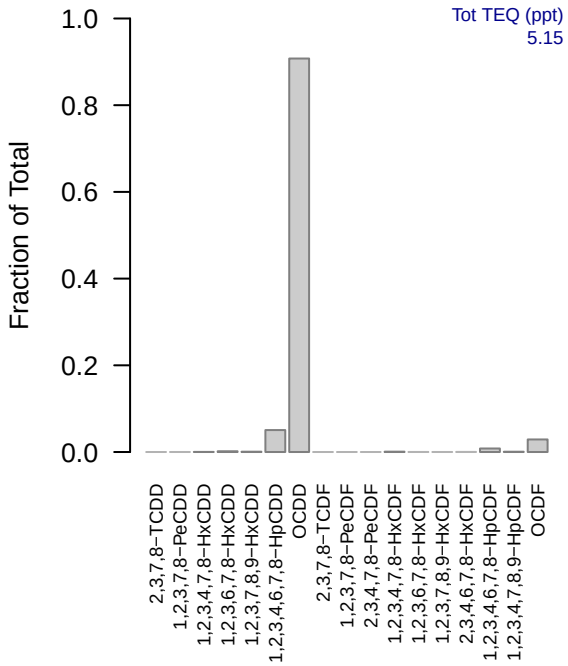


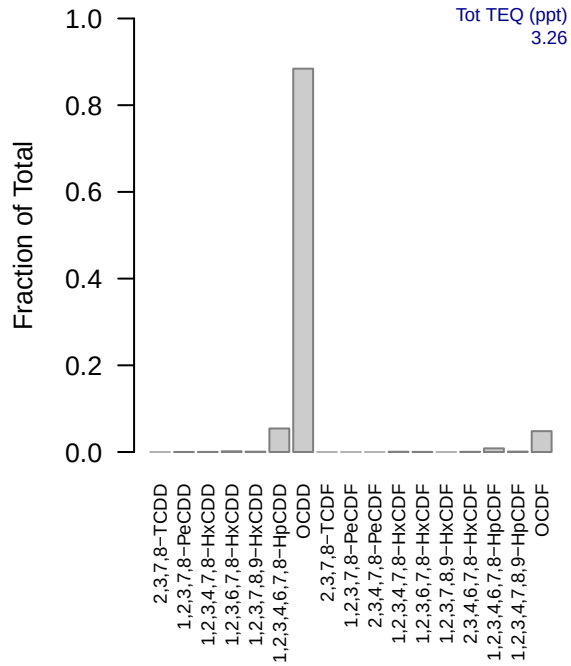
SJTS021(0−15.24 cm)



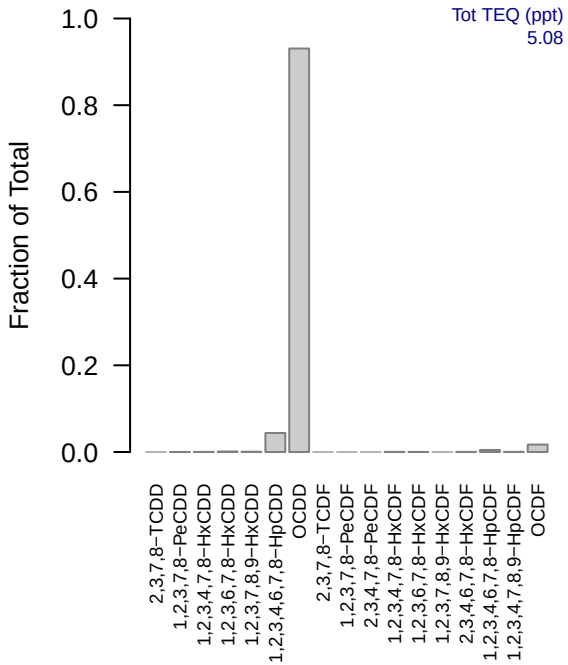

SJTS021(15.24−30.48 cm)
Tot TEQ (ppt)
4
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS021(30.48−60.96 cm)
Tot TEQ (ppt)
3.15
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

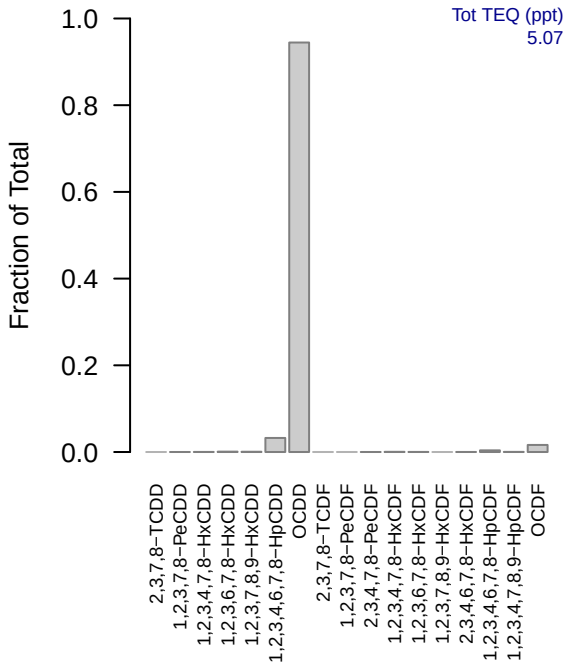

SJTS022(0−15.24 cm)
Tot TEQ (ppt)
5.15
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS022(15.24−30.48 cm)
Tot TEQ (ppt)
3.26
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

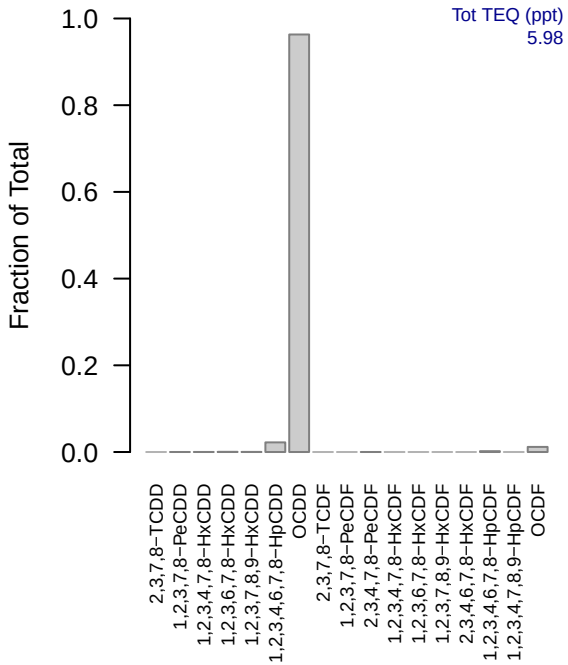
SJTS023(0−15.24 cm)



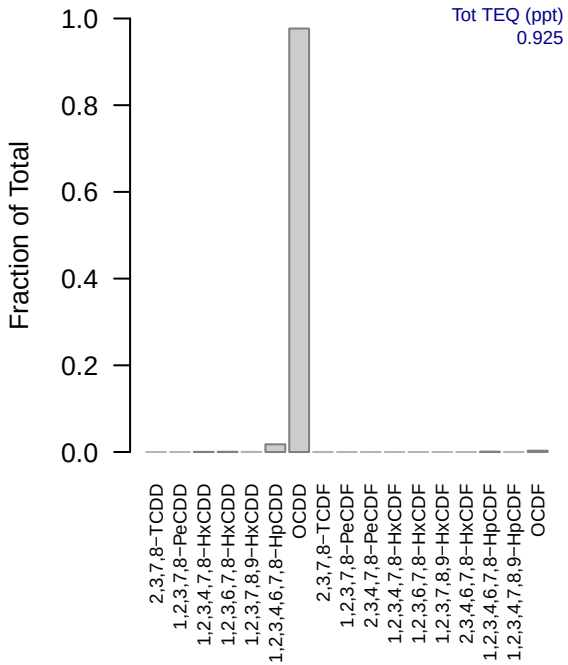
SJTS023(15.24−30.48 cm)

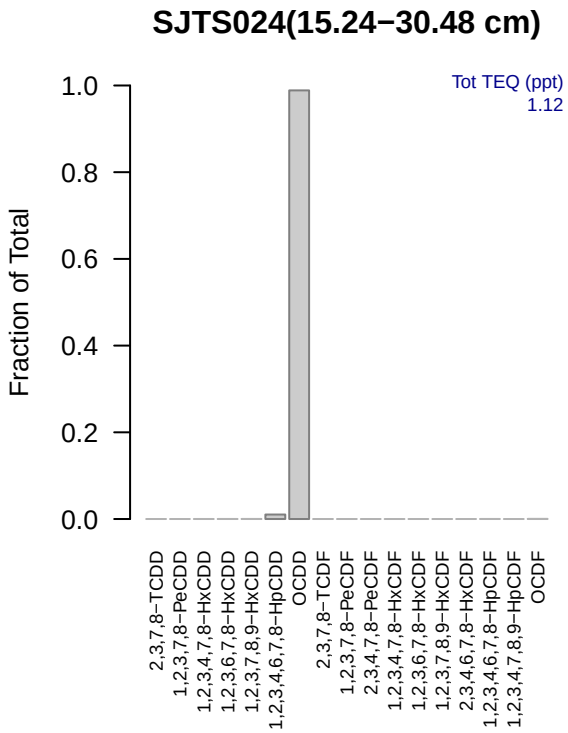


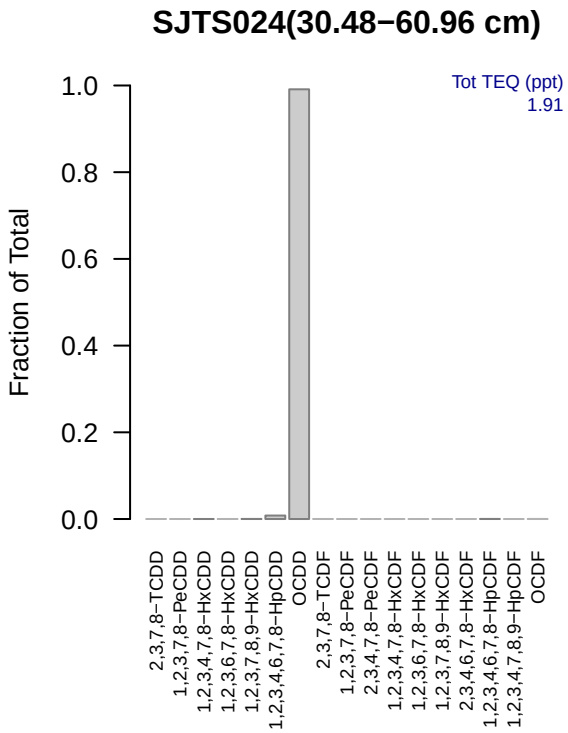
SJTS023(30.48−57.912 cm)

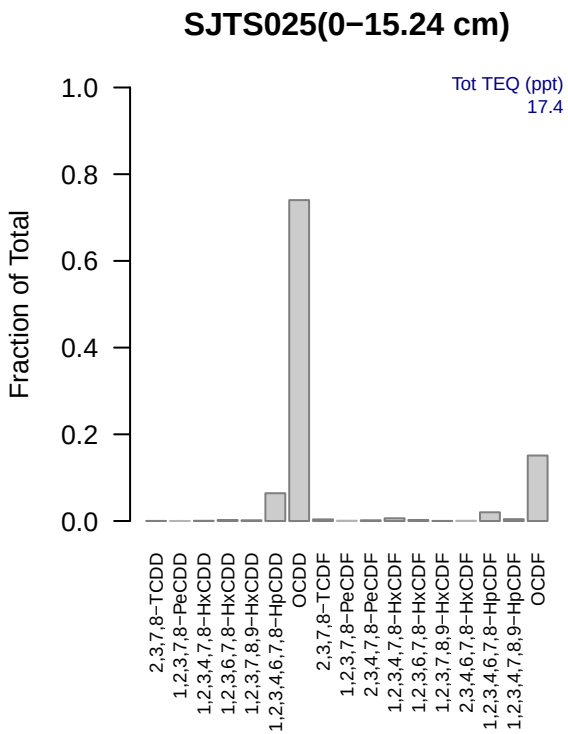


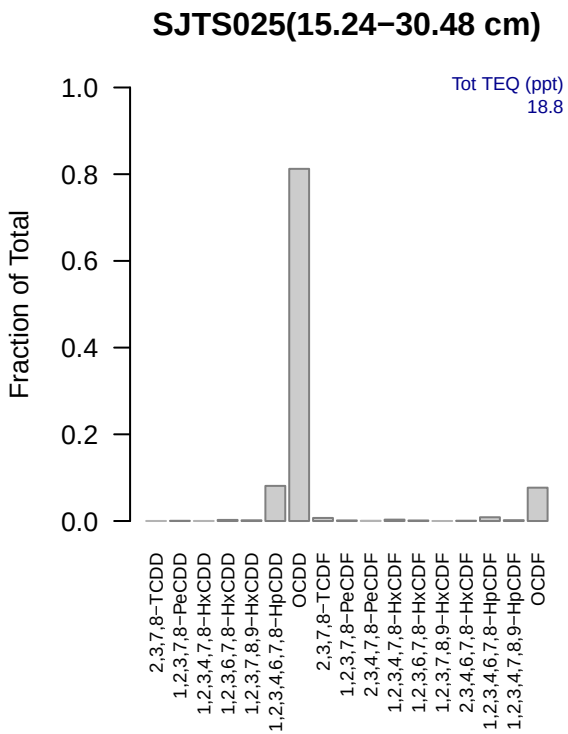
SJTS024(0−15.24 cm)

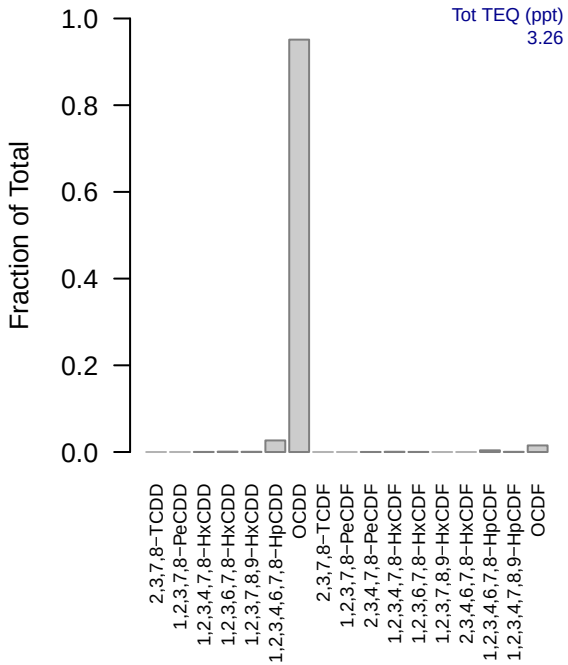


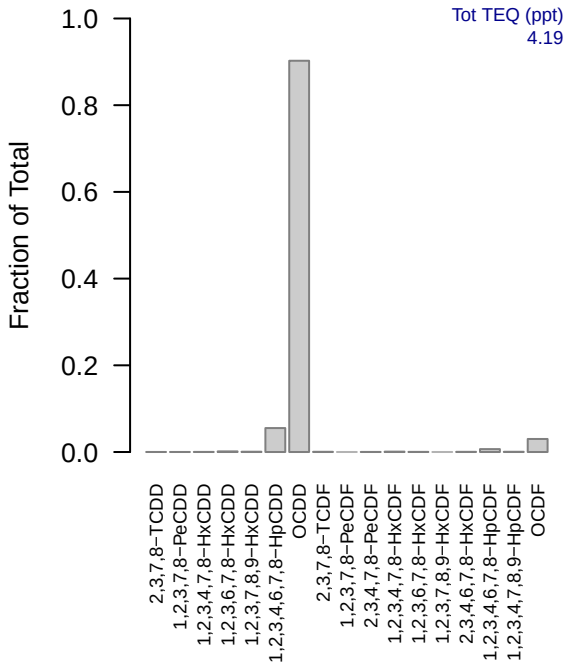

SJTS024(15.24−30.48 cm)
Tot TEQ (ppt)
1.12
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

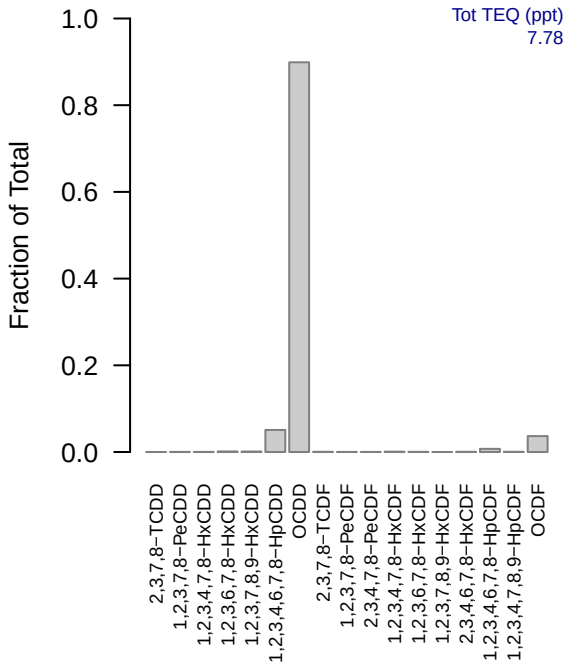

SJTS024(30.48−60.96 cm)
Tot TEQ (ppt)
1.91
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

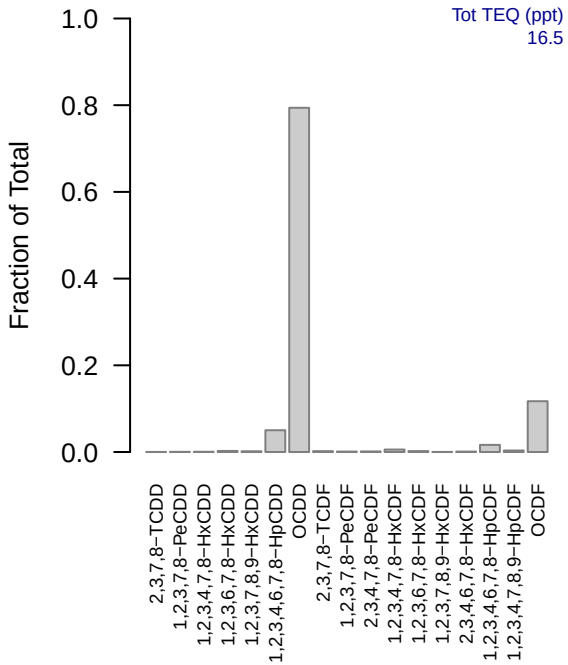

SJTS025(0−15.24 cm)
Tot TEQ (ppt)
17.4
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS025(15.24−30.48 cm)
Tot TEQ (ppt)
18.8
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

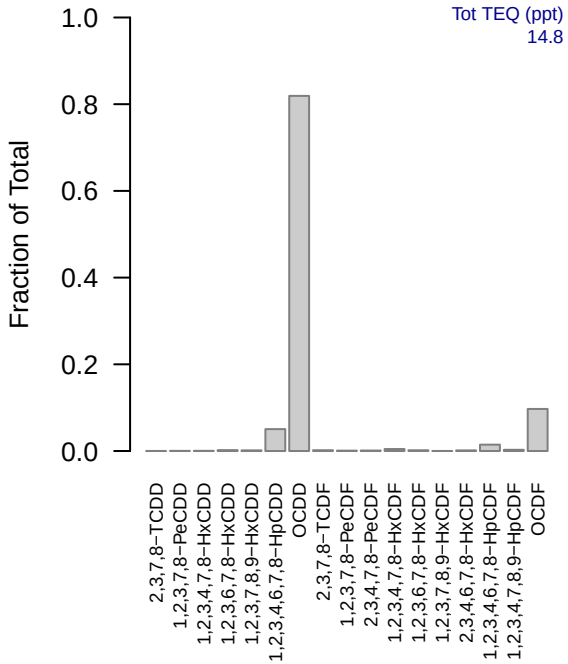

SJTS026(0−15.24 cm)
Tot TEQ (ppt)
3.26
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS026(15.24−30.48 cm)
Tot TEQ (ppt)
4.19
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

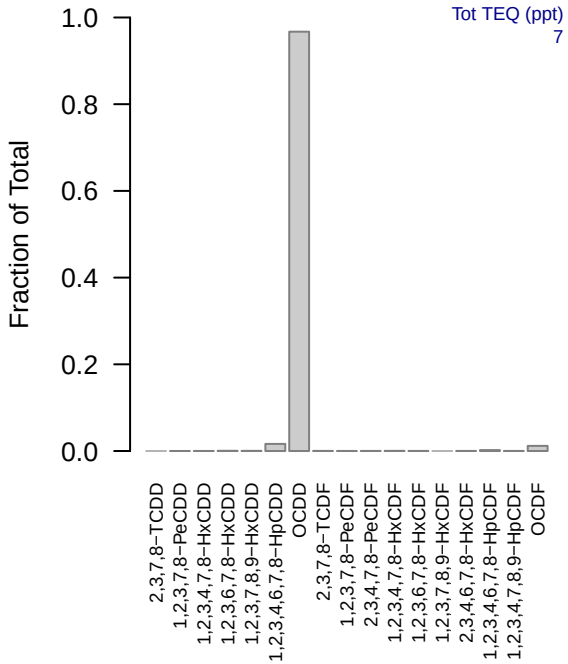

SJTS026(30.48−60.96 cm)
Tot TEQ (ppt)
7.78
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS027(0−15.24 cm)
Tot TEQ (ppt)
16.5
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

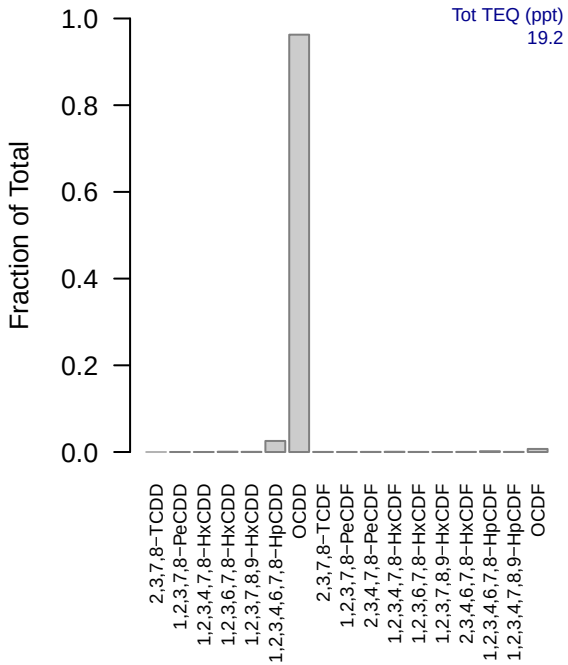
SJTS027(15.24−30.48 cm)



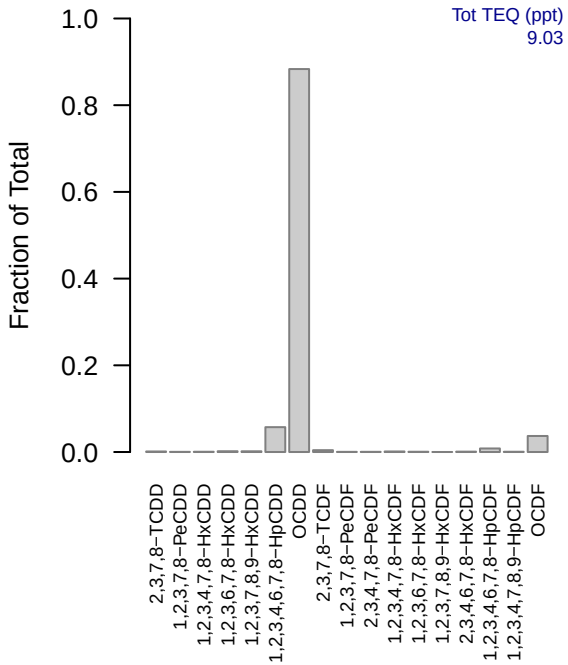
SJTS028(0−15.24 cm)



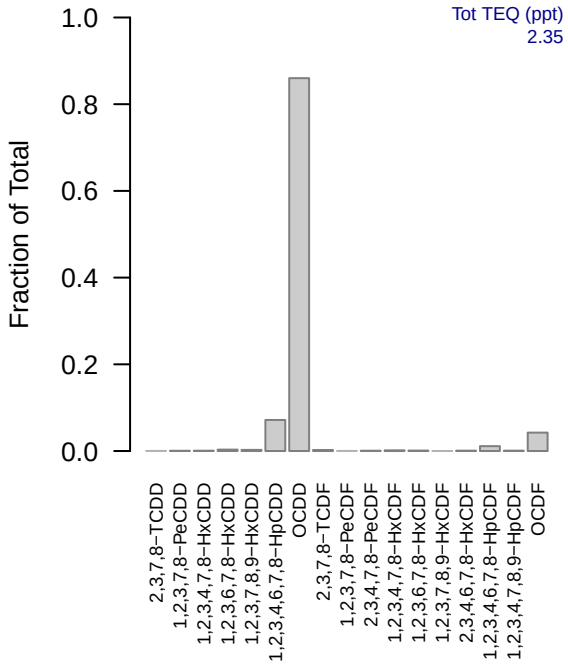
SJTS028(15.24−30.48 cm)



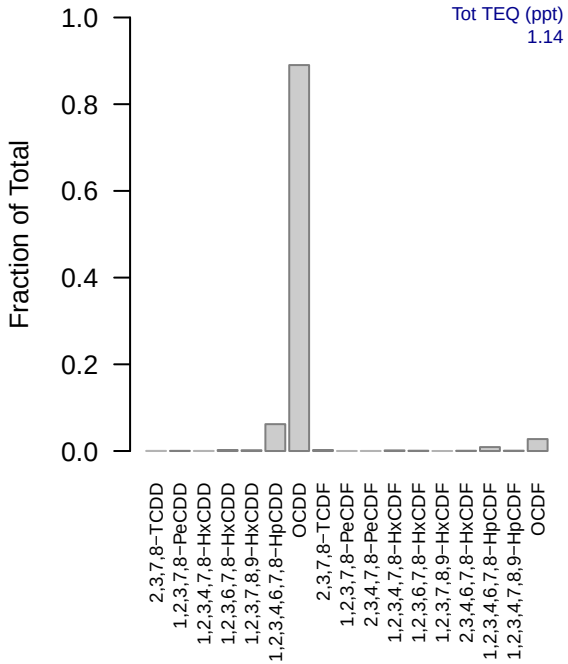
SJTS029(0−15.24 cm)



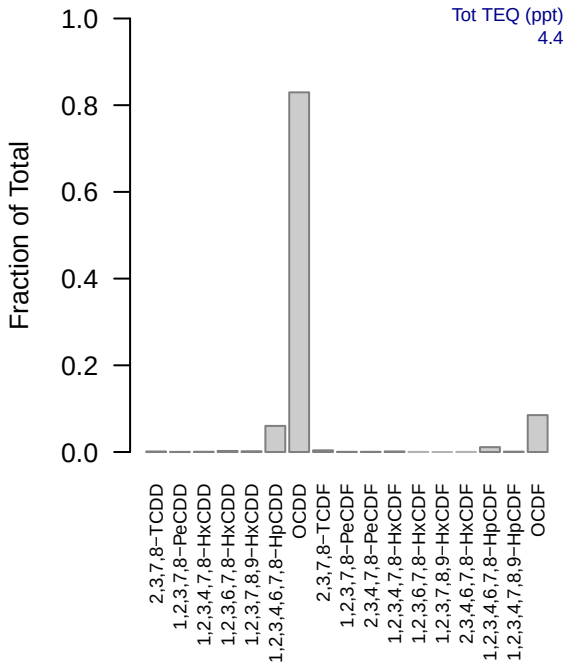
SJTS029(15.24−30.48 cm)



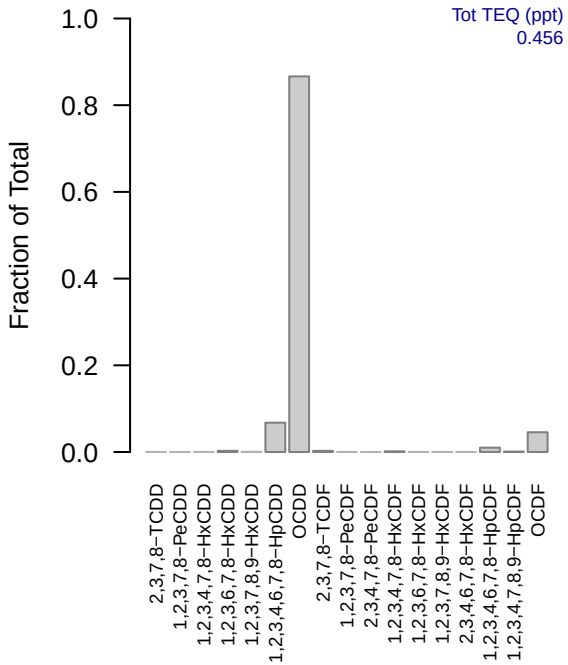
SJTS030(0−15.24 cm)

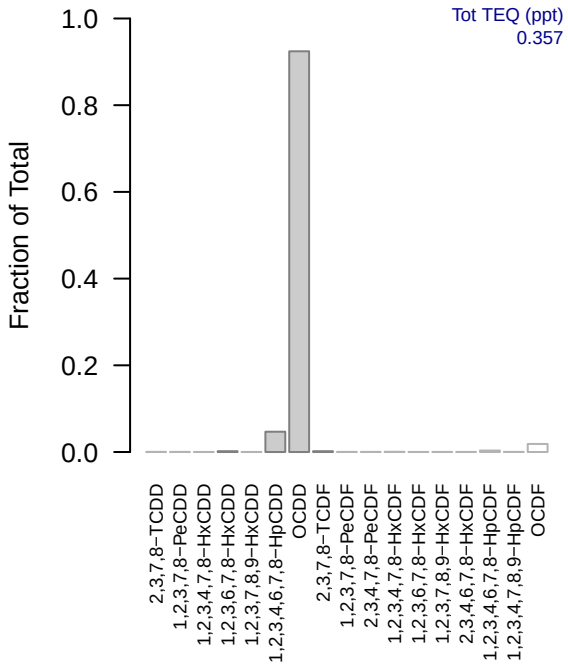


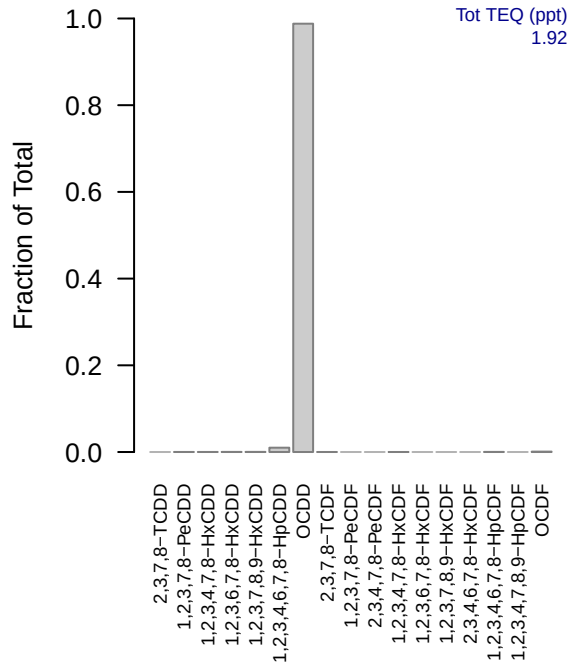
SJTS030(15.24−30.48 cm)

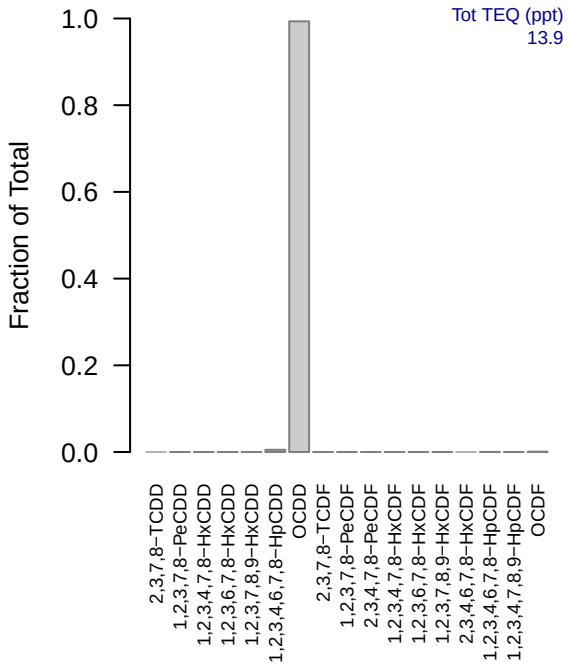


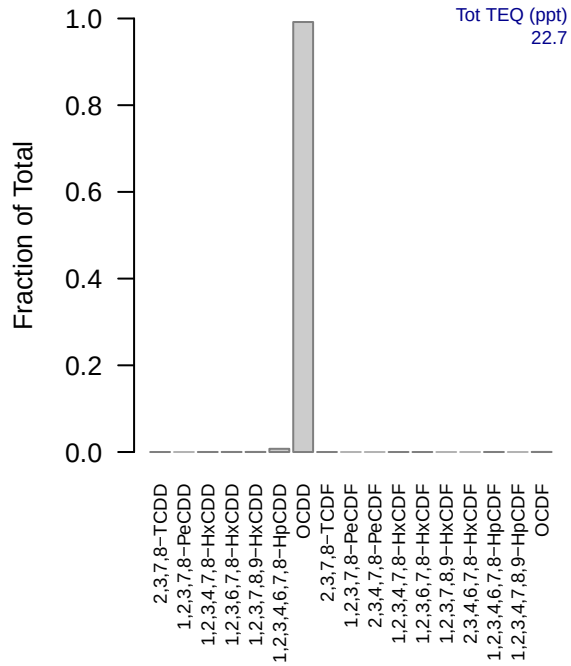
SJTS031(0−15.24 cm)



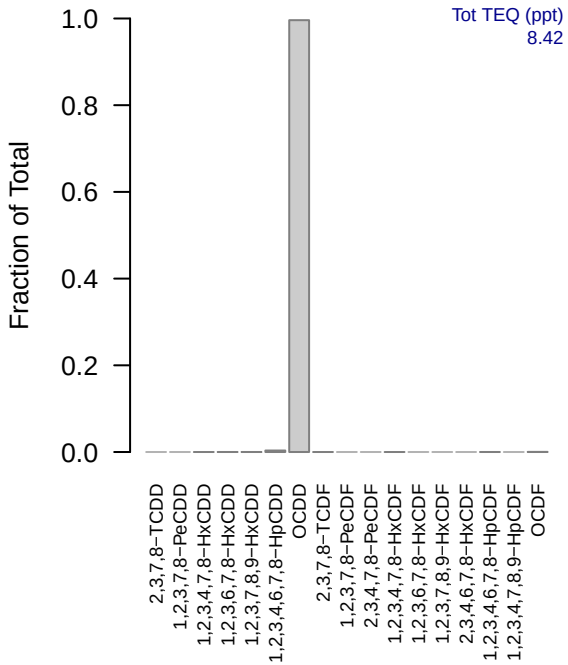

SJTS031(15.24−30.48 cm)
Tot TEQ (ppt)
0.357
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS032(0−15.24 cm)
Tot TEQ (ppt)
1.92
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

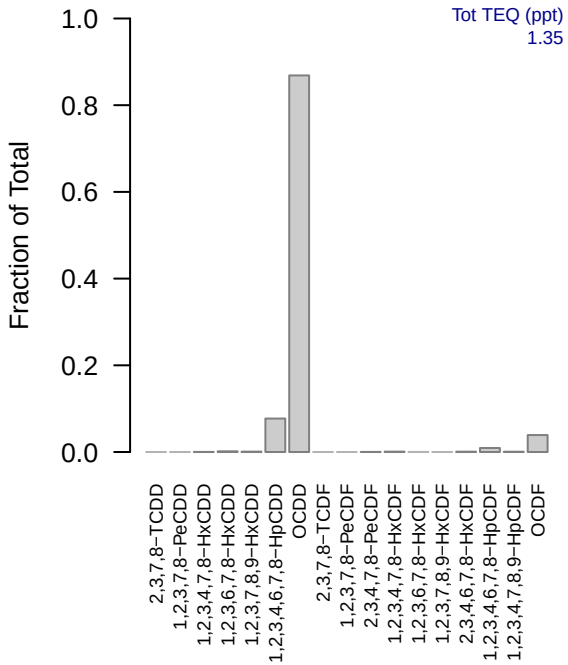

SJTS032(15.24−30.48 cm)
Tot TEQ (ppt)
13.9
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


SJTS033(0−15.24 cm)
Tot TEQ (ppt)
22.7
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

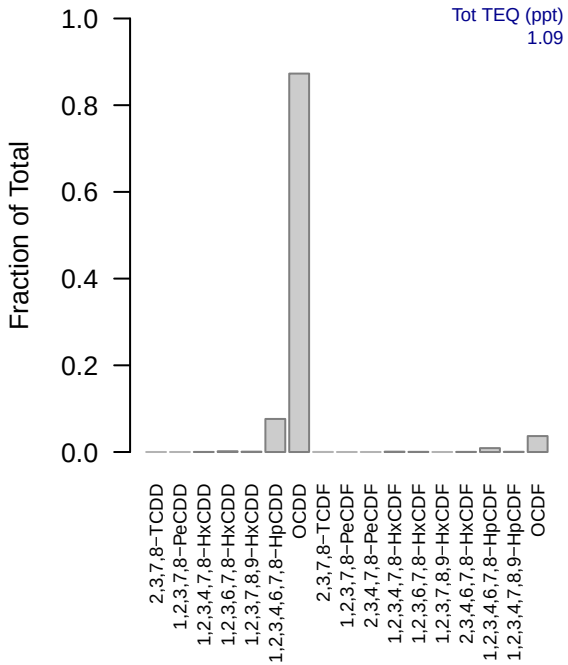
SJTS033(15.24−30.48 cm)



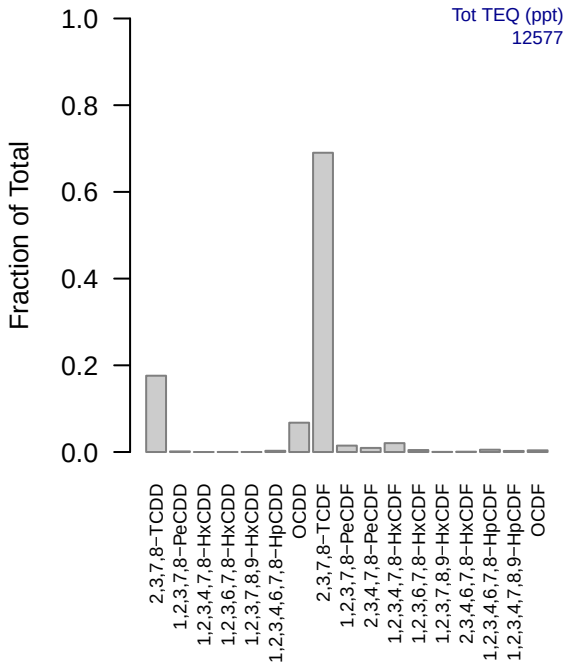
SJTS034(0−15.24 cm)

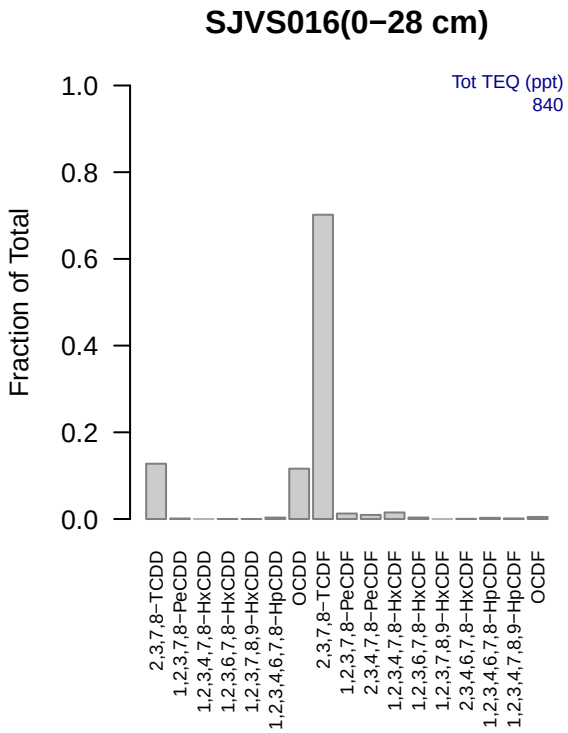


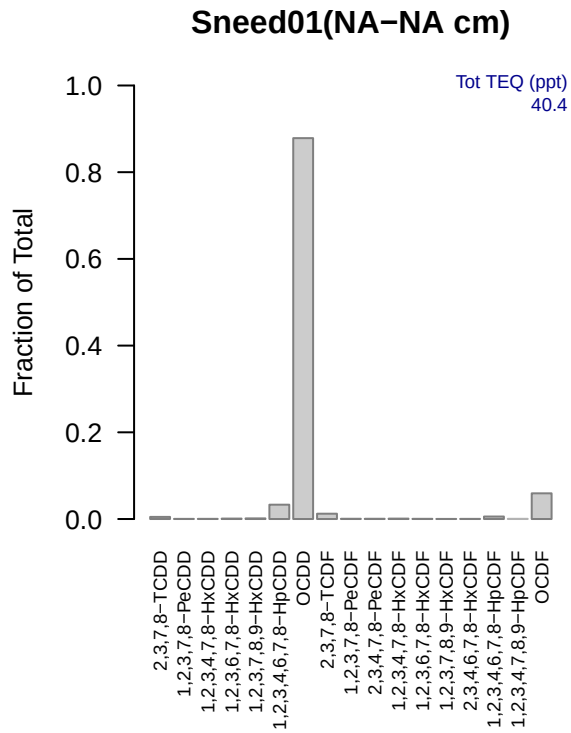
SJTS034(15.24−30.48 cm)

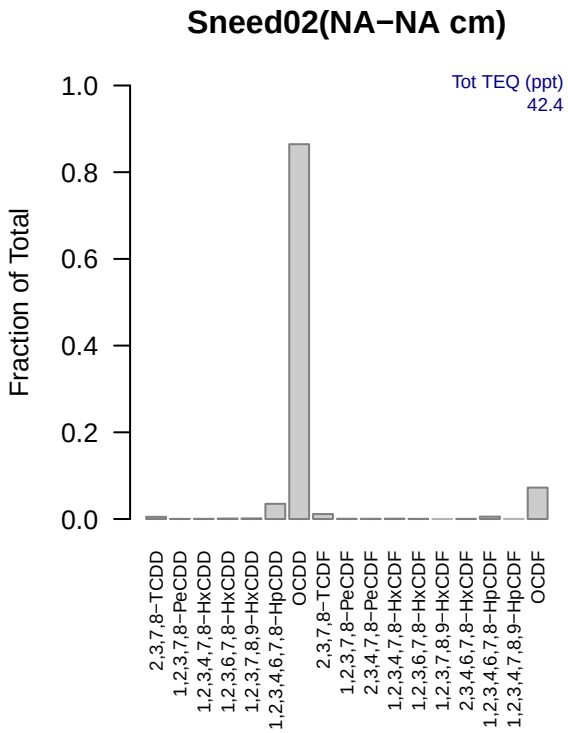


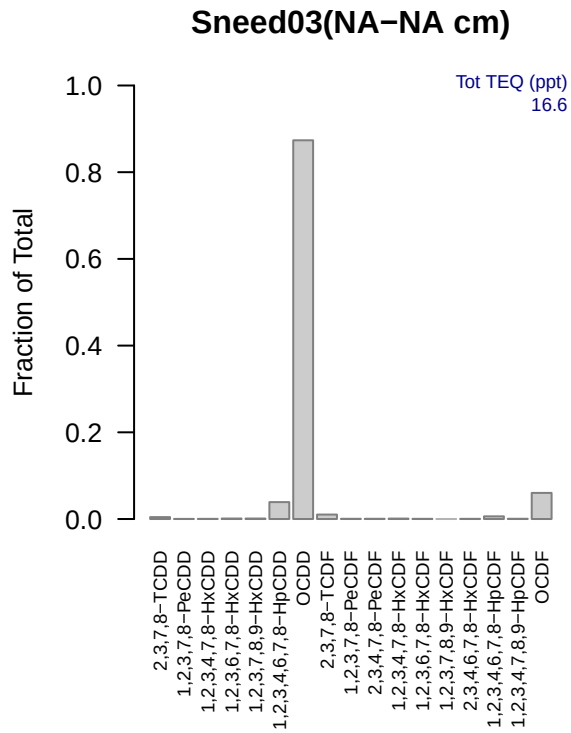
SJVS001(0−15 cm)

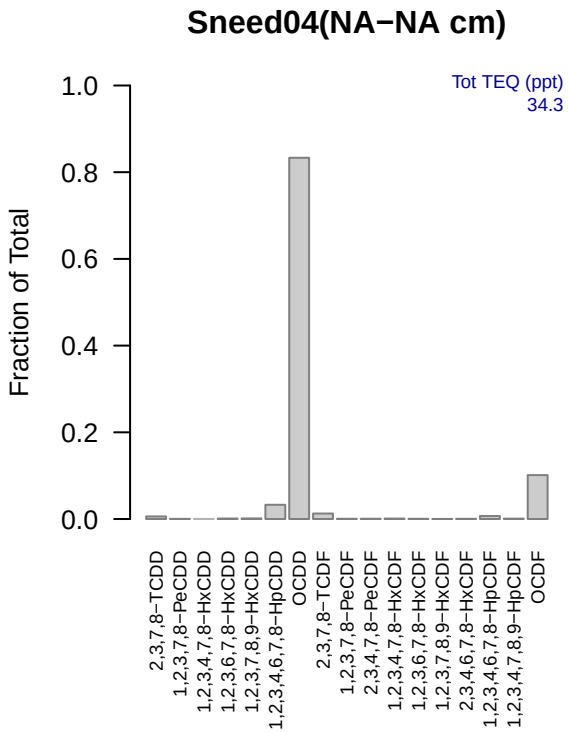


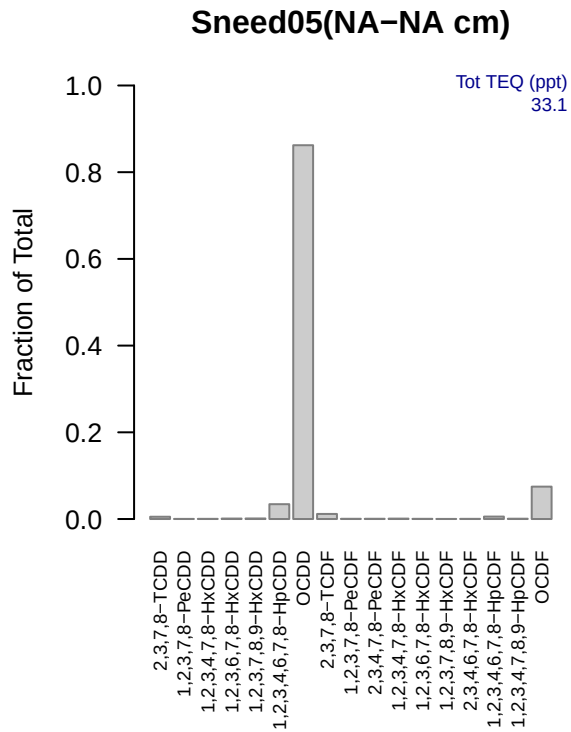

SJVS016(0−28 cm)
Tot TEQ (ppt)
840
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

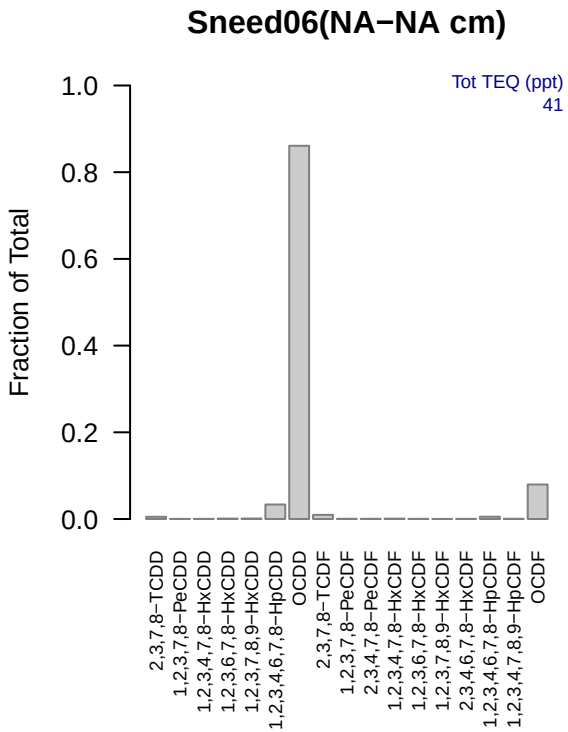

Sneed01(NA−NA cm)
Tot TEQ (ppt)
40.4
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

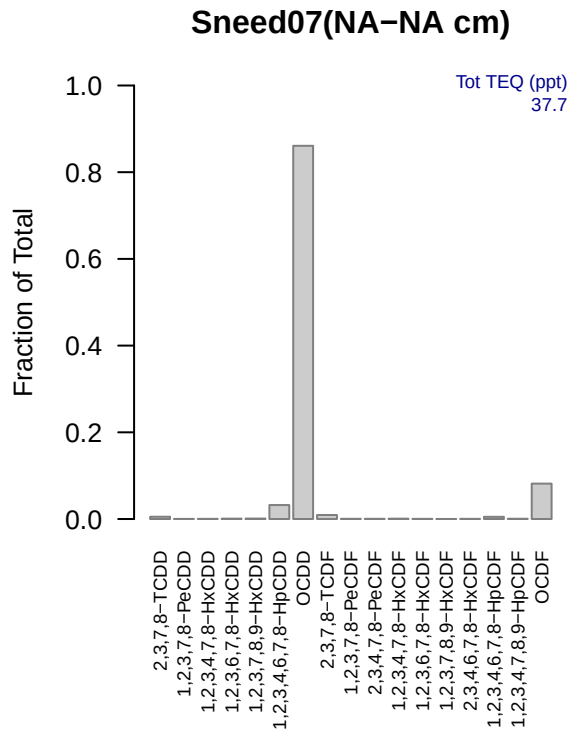

Sneed02(NA−NA cm)
Tot TEQ (ppt)
42.4
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

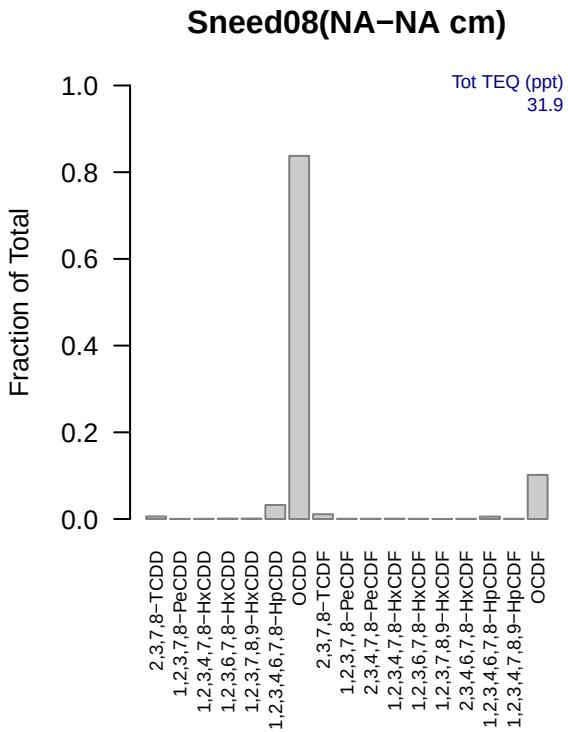

Sneed03(NA−NA cm)
Tot TEQ (ppt)
16.6
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

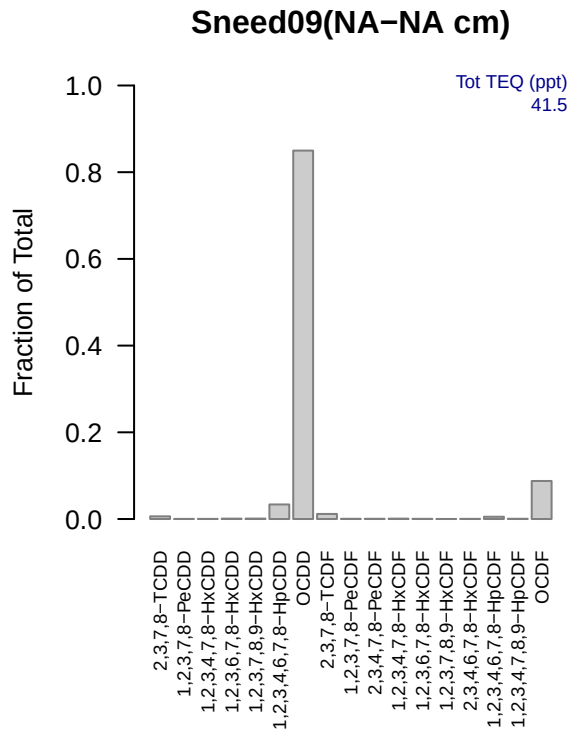

Sneed04(NA−NA cm)
Tot TEQ (ppt)
34.3
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

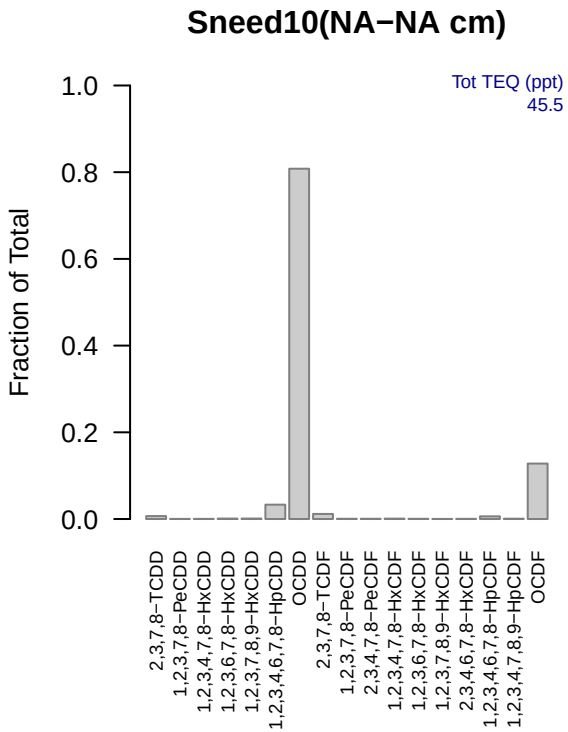

Sneed05(NA−NA cm)
Tot TEQ (ppt)
33.1
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

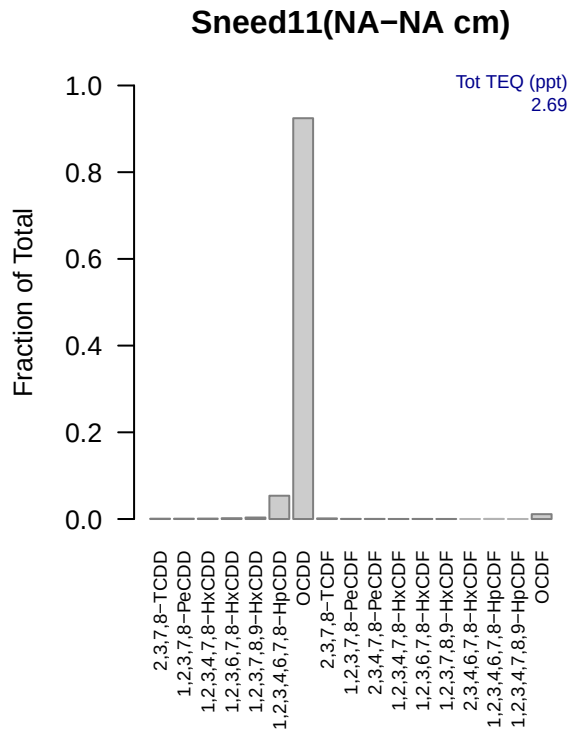

Sneed06(NA−NA cm)
Tot TEQ (ppt)
41
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

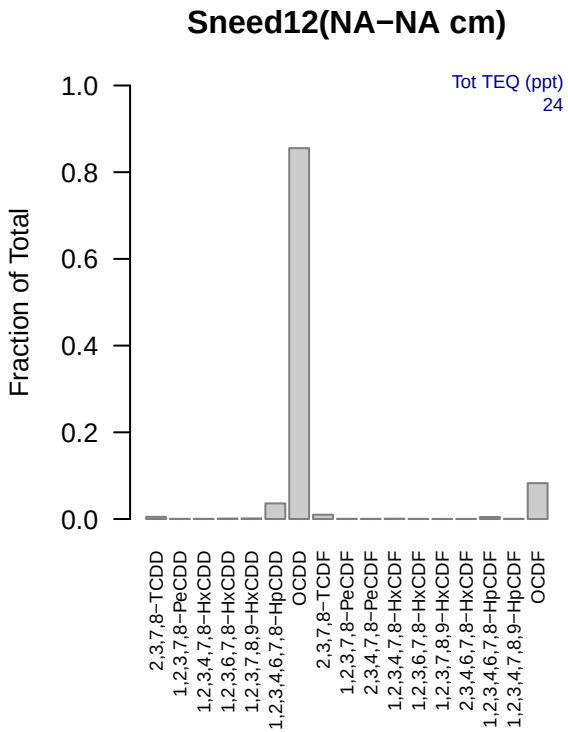

Sneed07(NA−NA cm)
Tot TEQ (ppt)
37.7
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

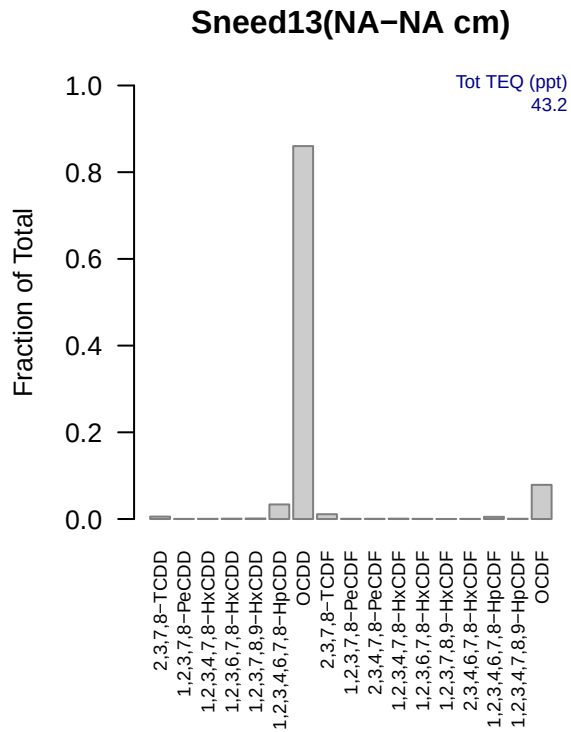

Sneed08(NA−NA cm)
Tot TEQ (ppt)
31.9
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

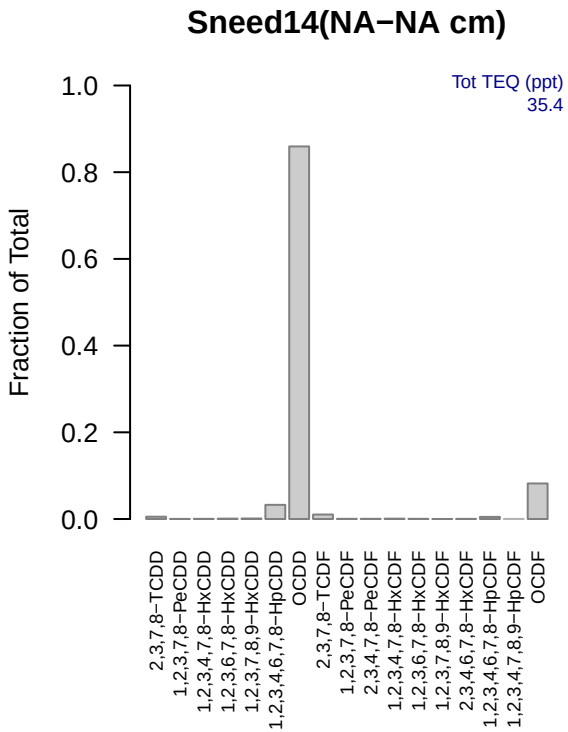

Sneed09(NA−NA cm)
Tot TEQ (ppt)
41.5
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

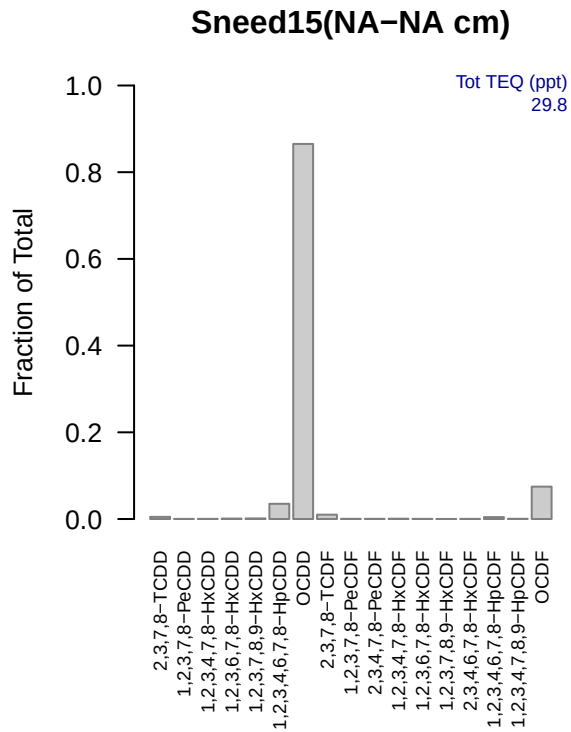

Sneed10(NA−NA cm)
Tot TEQ (ppt)
45.5
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

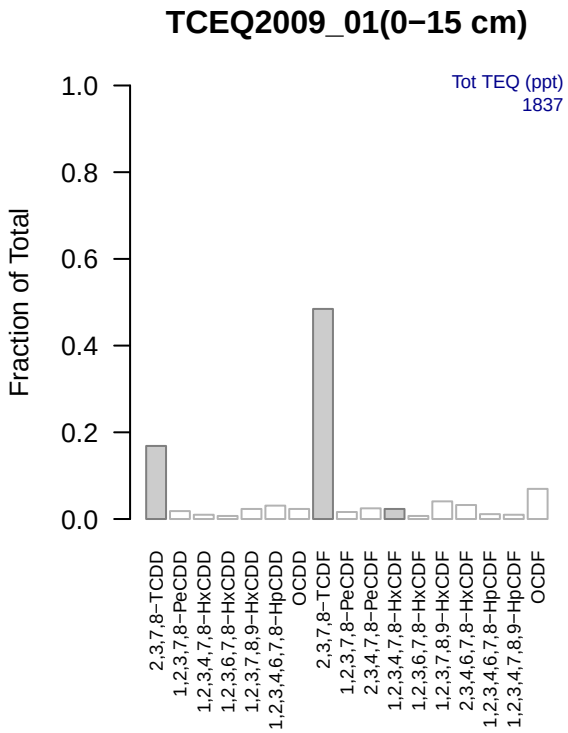

Sneed11(NA−NA cm)
Tot TEQ (ppt)
2.69
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

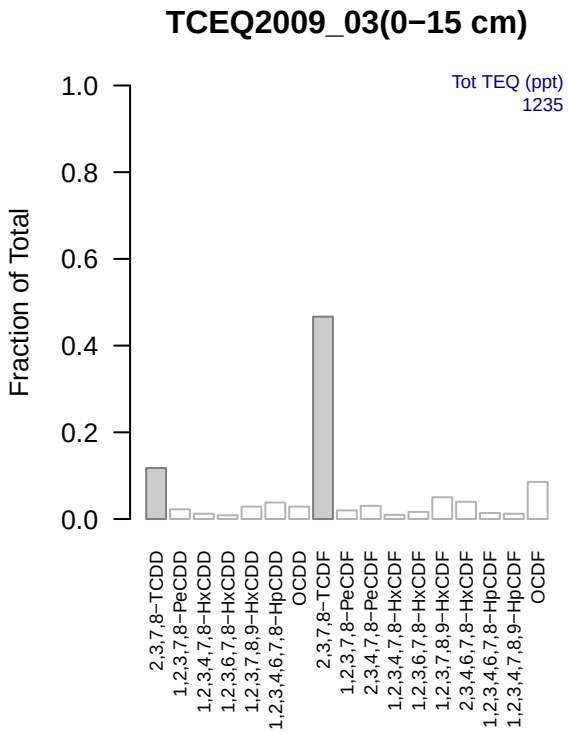

Sneed12(NA−NA cm)
Tot TEQ (ppt)
24
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

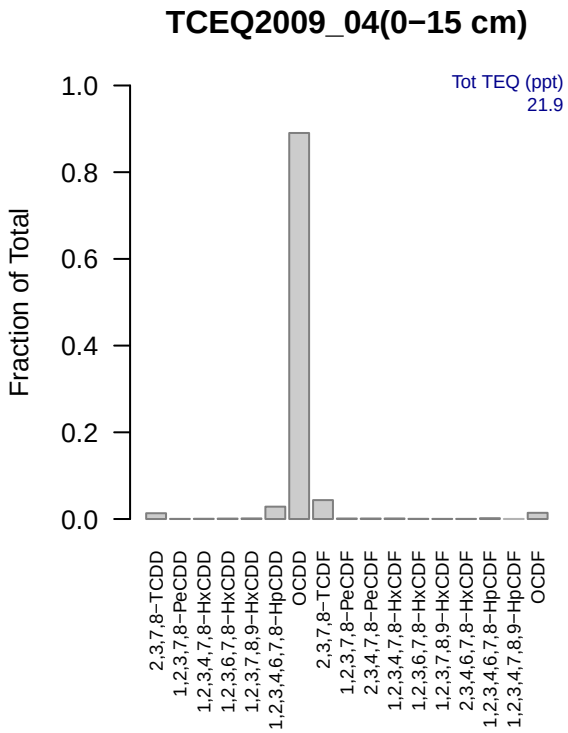

Sneed13(NA−NA cm)
Tot TEQ (ppt)
43.2
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

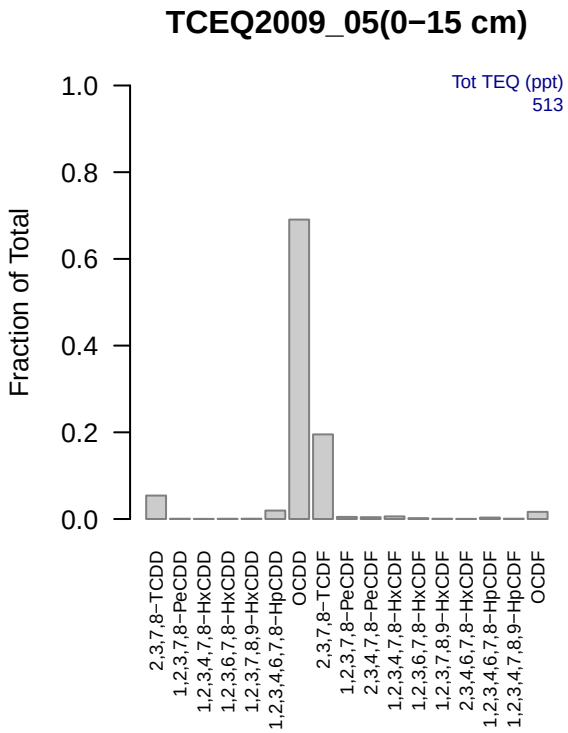

Sneed14(NA−NA cm)
Tot TEQ (ppt)
35.4
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

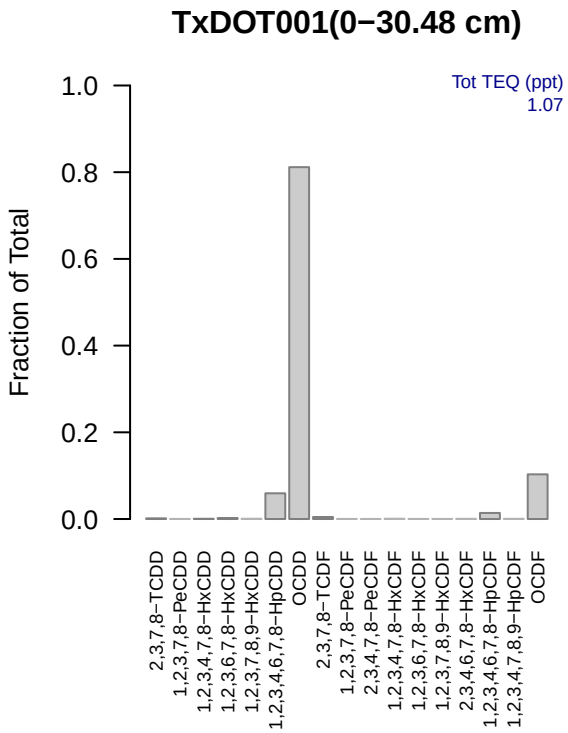

Sneed15(NA−NA cm)
Tot TEQ (ppt)
29.8
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

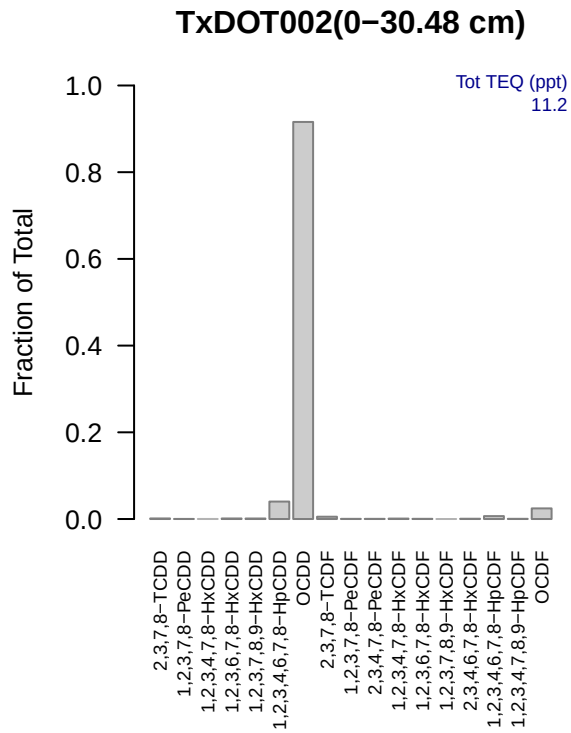

TCEQ2009_01(0−15 cm)
Tot TEQ (ppt)
1837
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

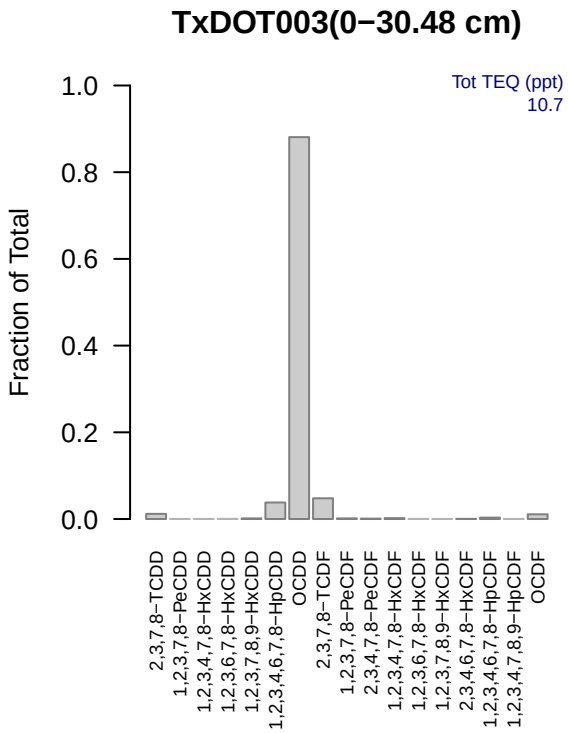

TCEQ2009_03(0−15 cm)
Tot TEQ (ppt)
1235
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

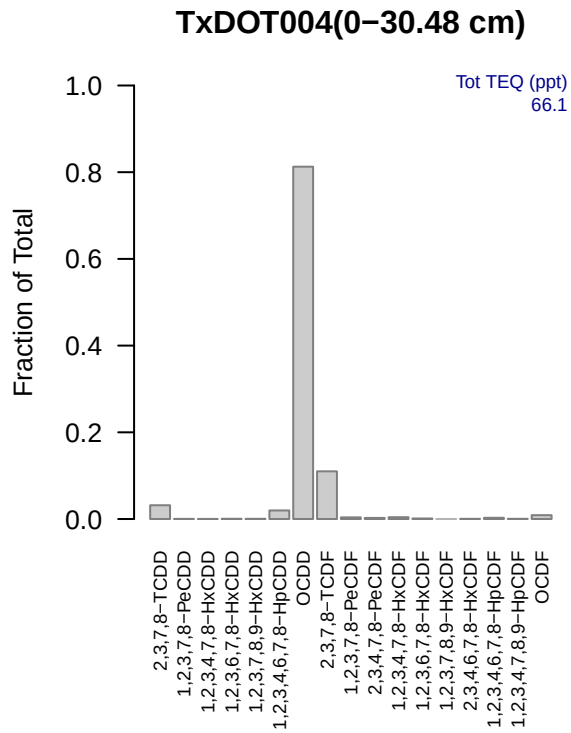

TCEQ2009_04(0−15 cm)
Tot TEQ (ppt)
21.9
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

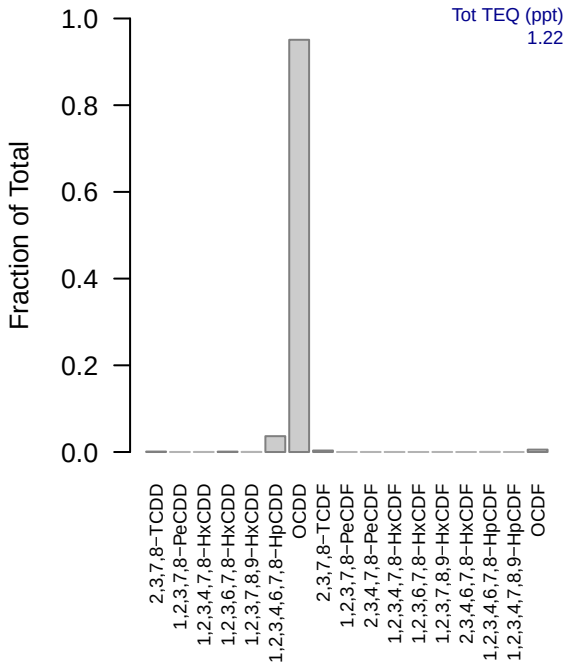

TCEQ2009_05(0−15 cm)
Tot TEQ (ppt)
513
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

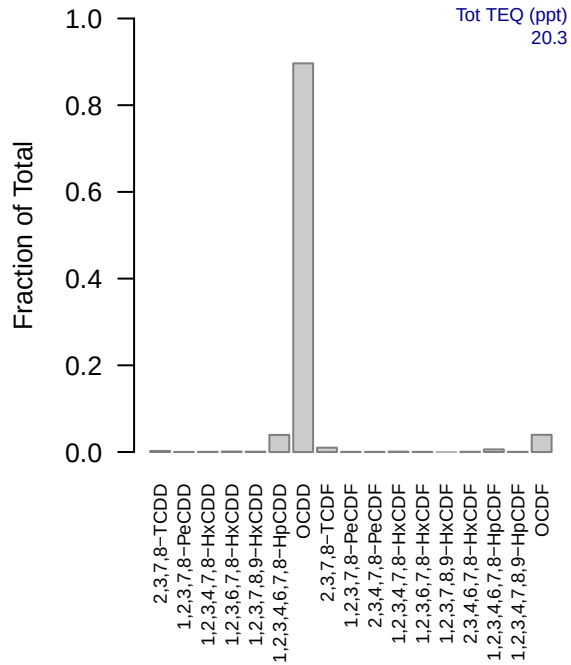

TxDOT001(0−30.48 cm)
Tot TEQ (ppt)
1.07
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

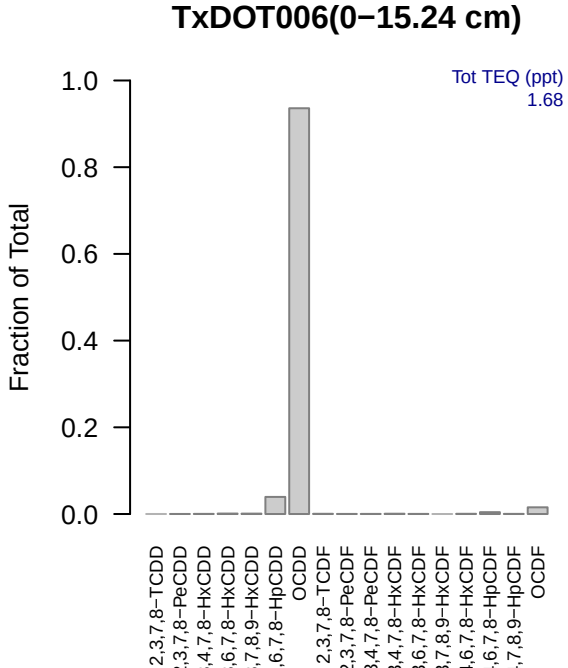

TxDOT002(0−30.48 cm)
Tot TEQ (ppt)
11.2
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

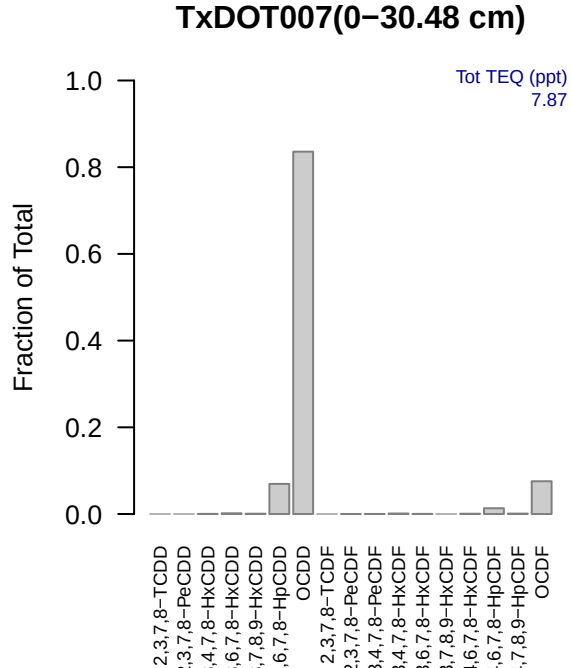

TxDOT003(0−30.48 cm)
Tot TEQ (ppt)
10.7
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


TxDOT004(0−30.48 cm)
Tot TEQ (ppt)
66.1
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

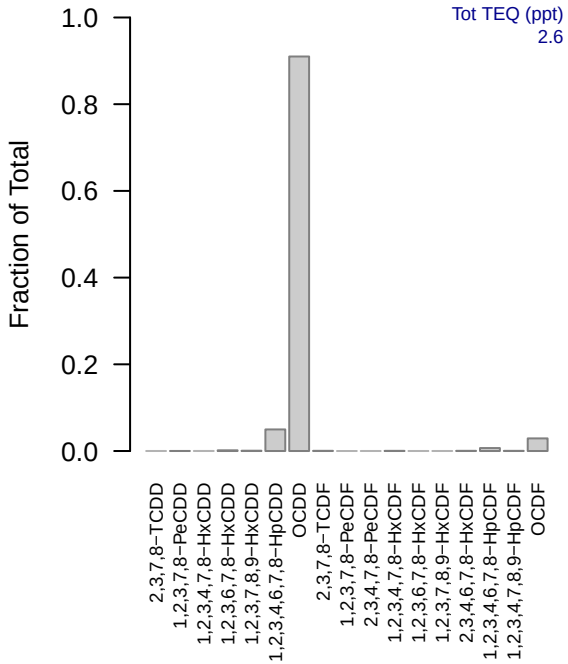

TxDOT004(121.92−142.24 cm)
Tot TEQ (ppt)
1.22
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


TxDOT005(0−30.48 cm)
Tot TEQ (ppt)
20.3
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

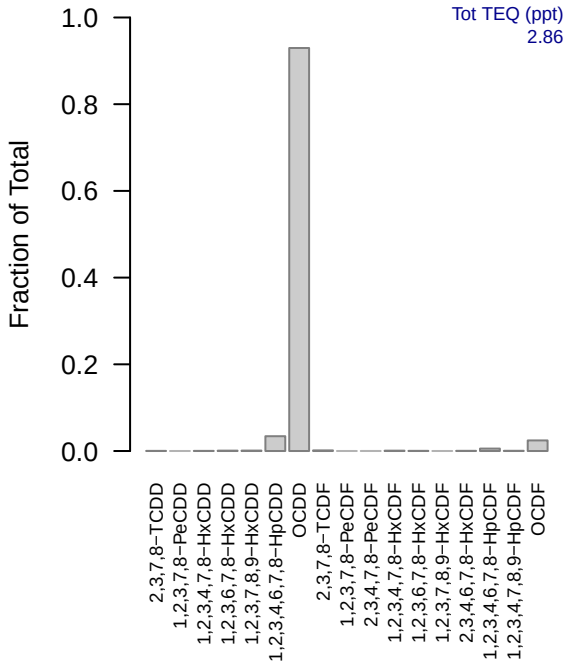

TxDOT006(0−15.24 cm)
Tot TEQ (ppt)
1.68
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


TxDOT007(0−30.48 cm)
Tot TEQ (ppt)
7.87
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

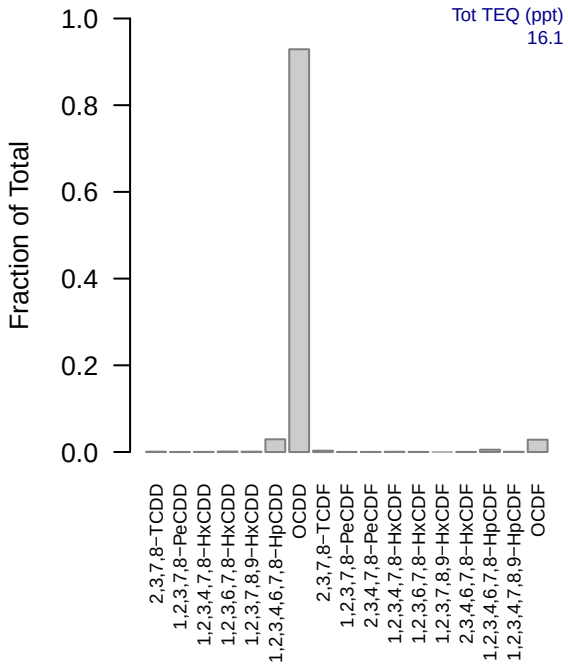
TxDOT008(0−30.48 cm)



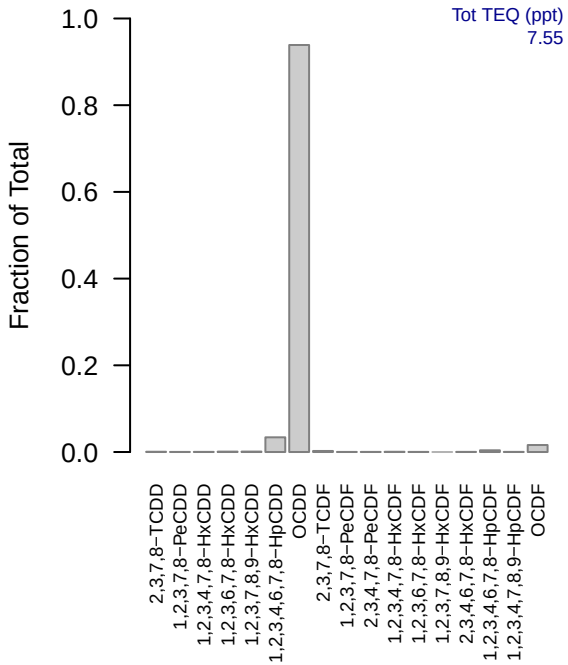
TxDOT009(0−30.48 cm)

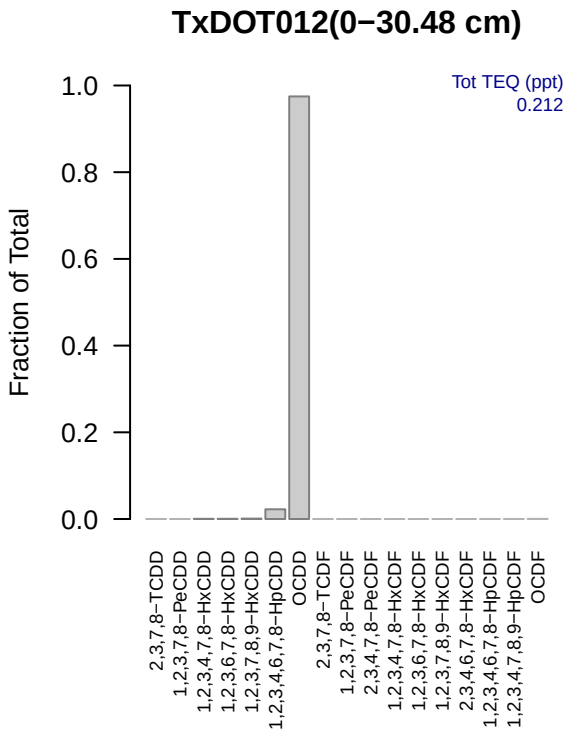


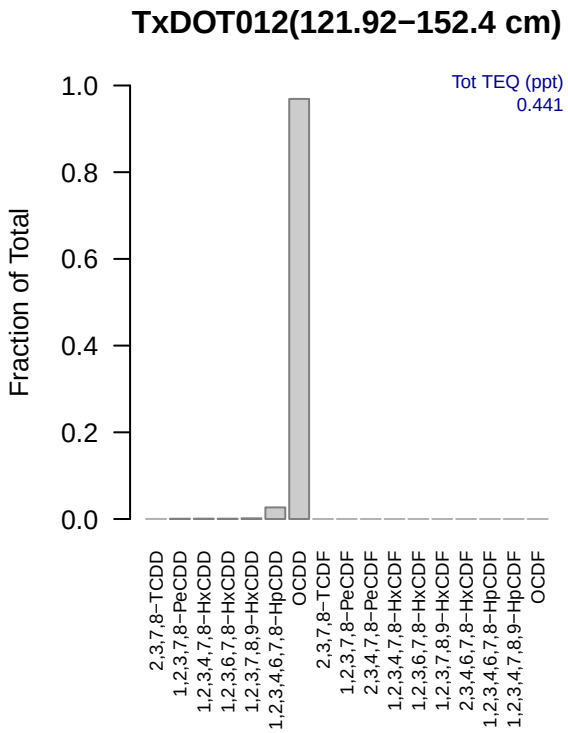
TxDOT010(0−15.24 cm)



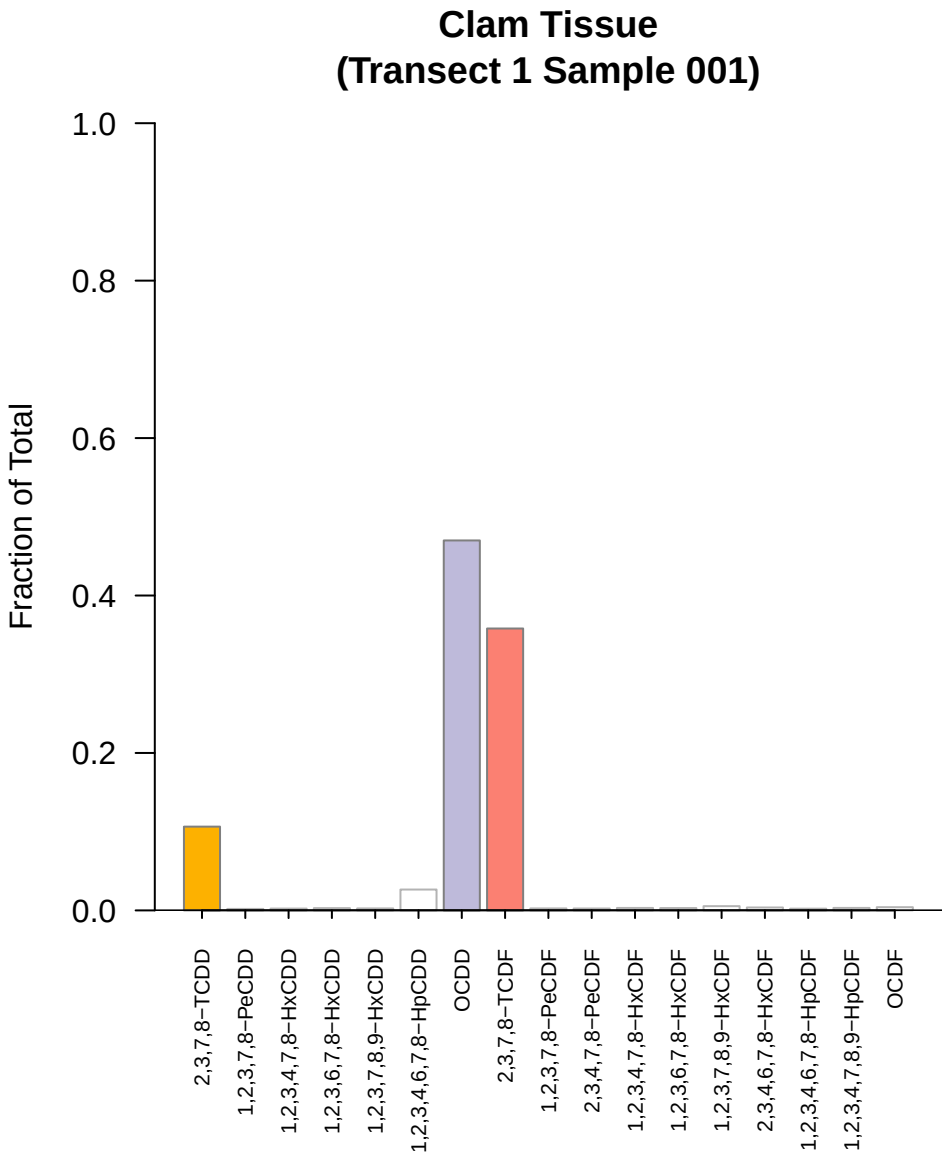
TxDOT011(0−20.32 cm)

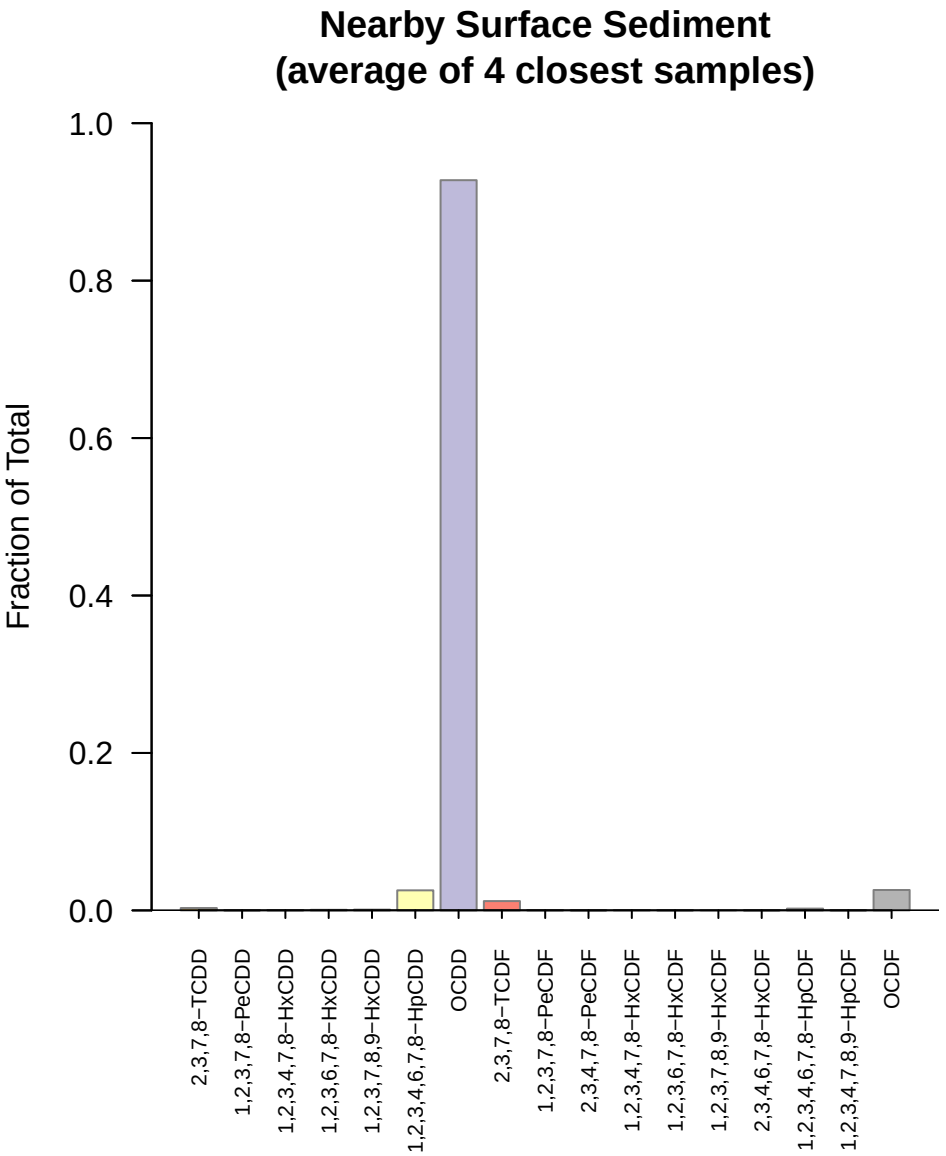


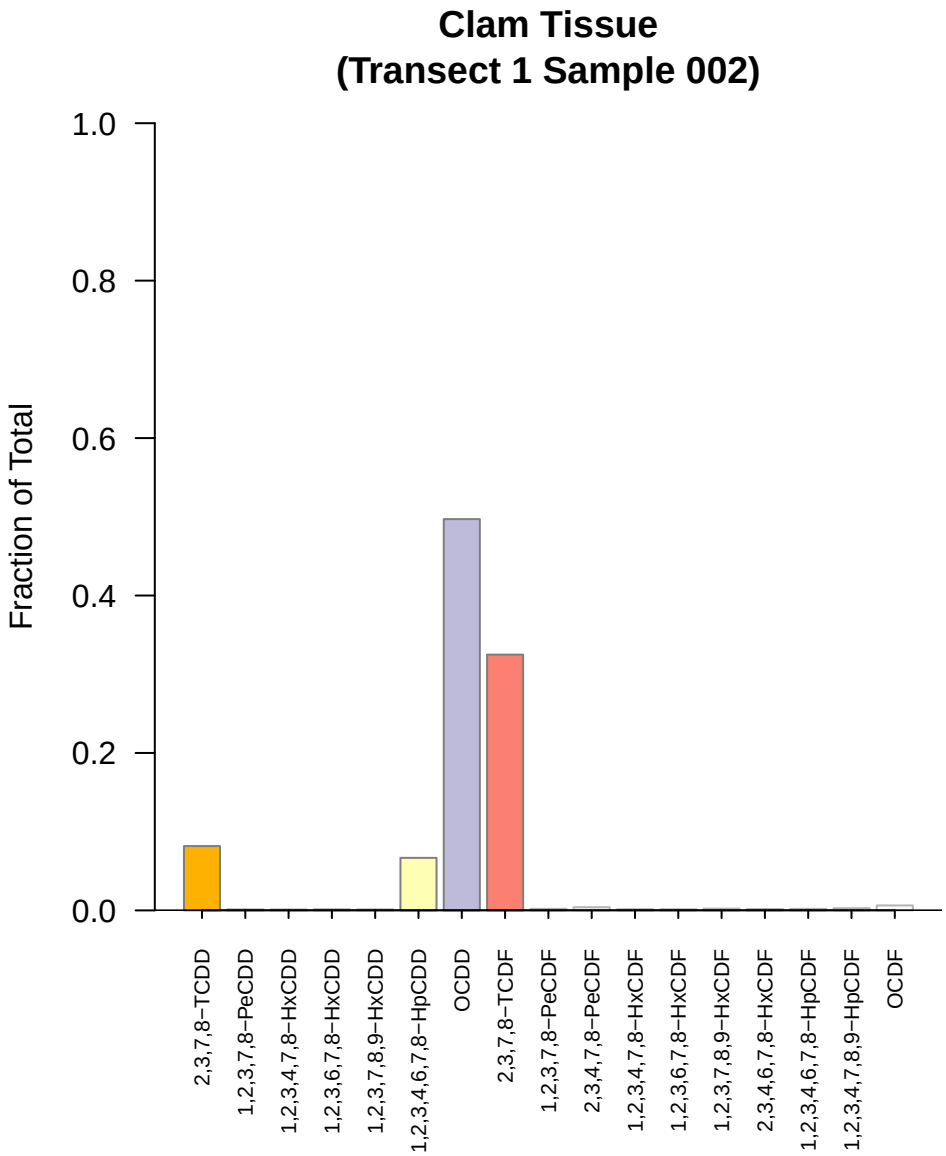

TxDOT012(0−30.48 cm)
Tot TEQ (ppt)
0.212
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

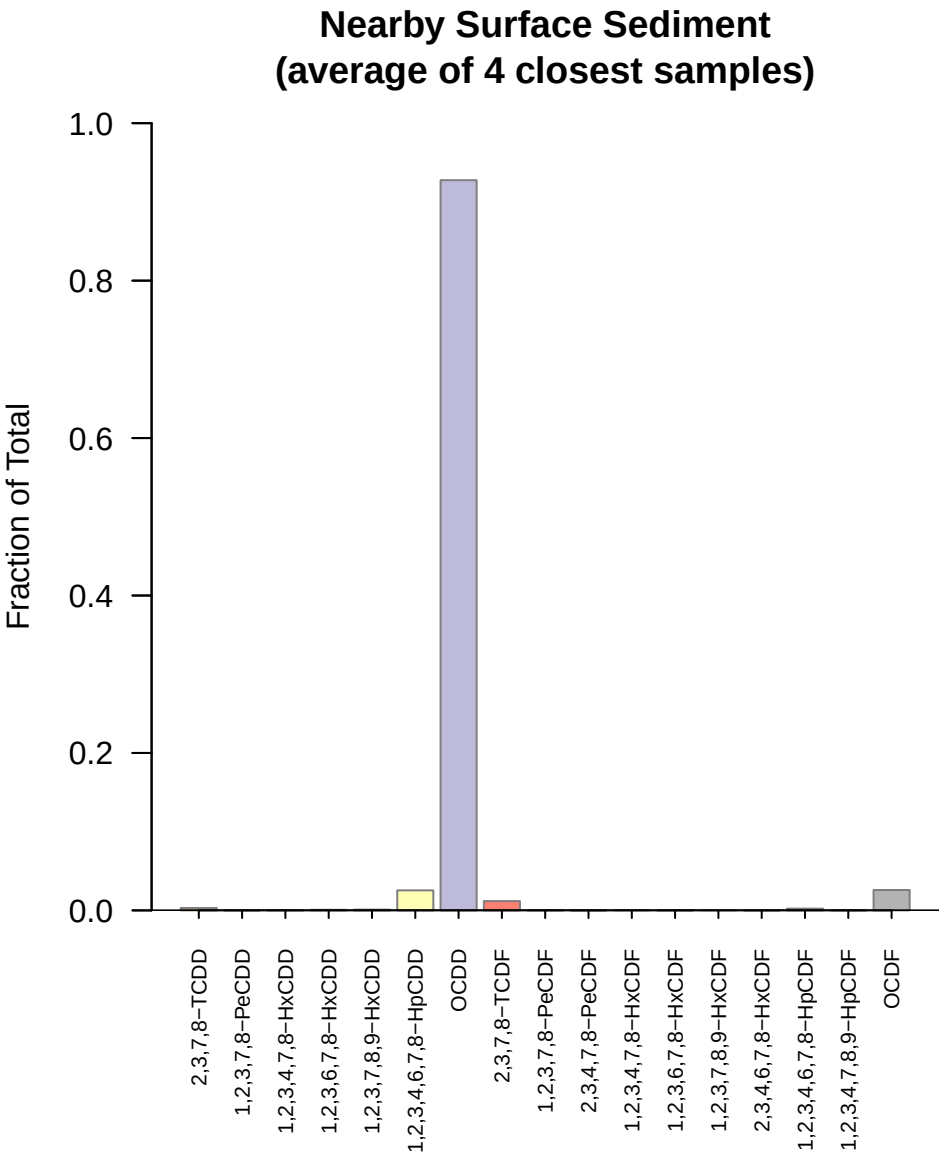

TxDOT012(121.92−152.4 cm)
Tot TEQ (ppt)
0.441
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

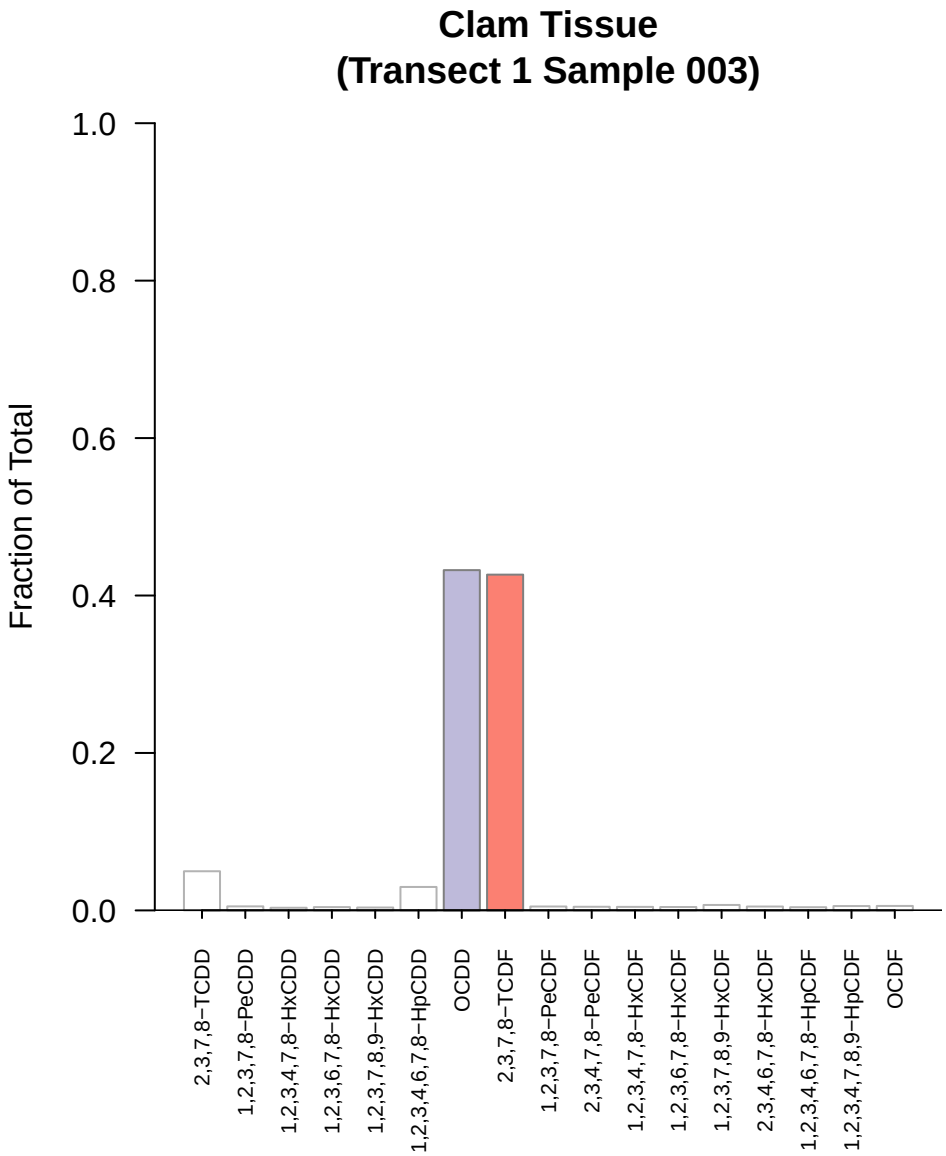
APPENDIX E
DIOXIN FINGERPRINTS IN CLAM TISSUE AND ADJACENT SEDIMENT SAMPLES

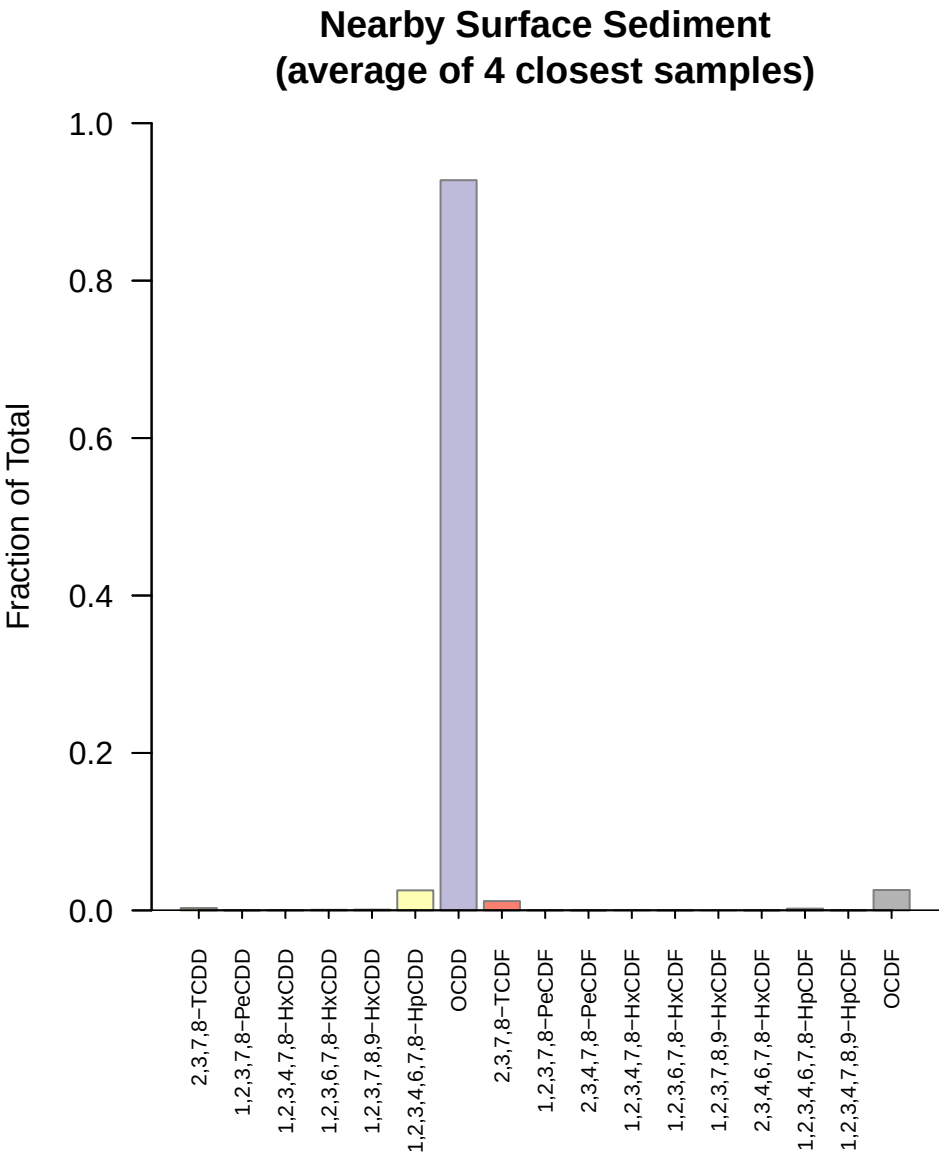

Clam Tissue
(Transect 1 Sample 001)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

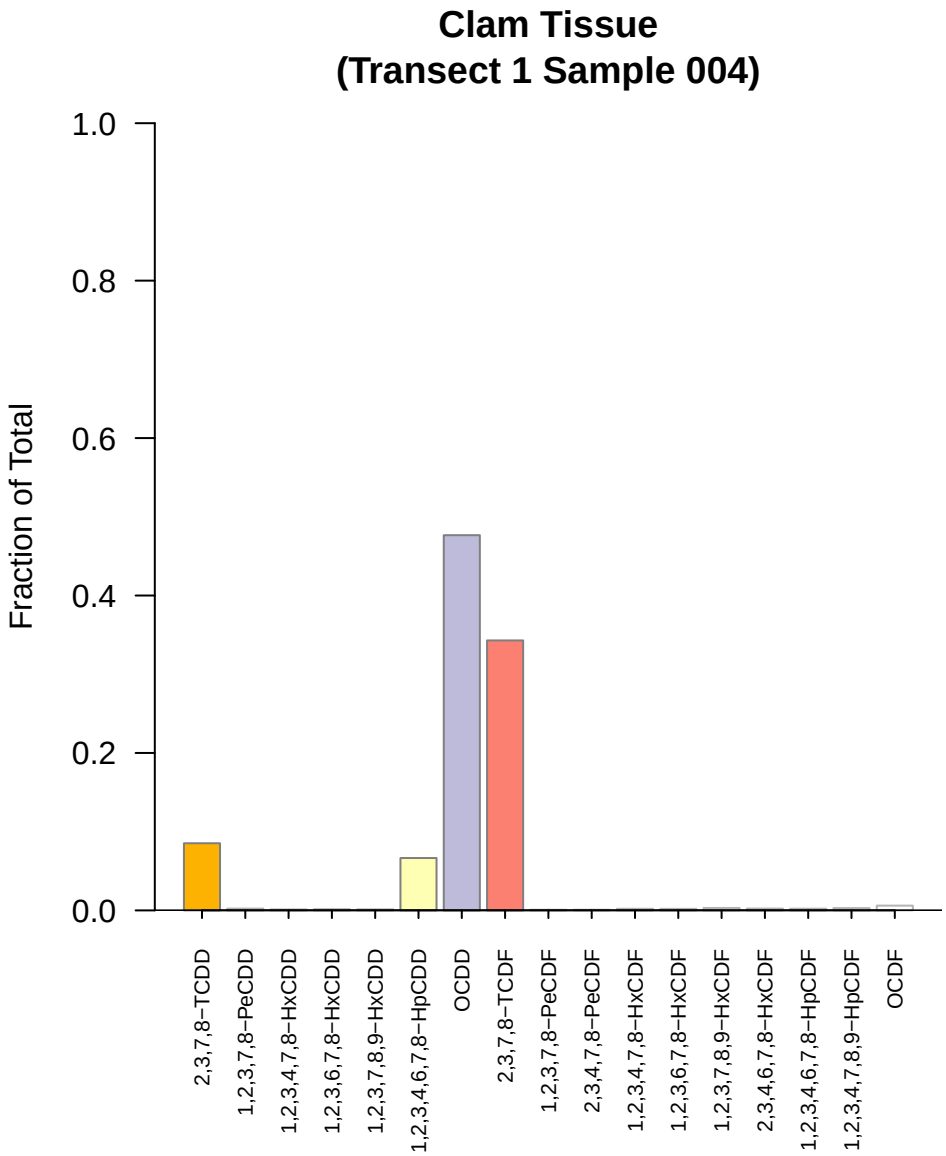

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

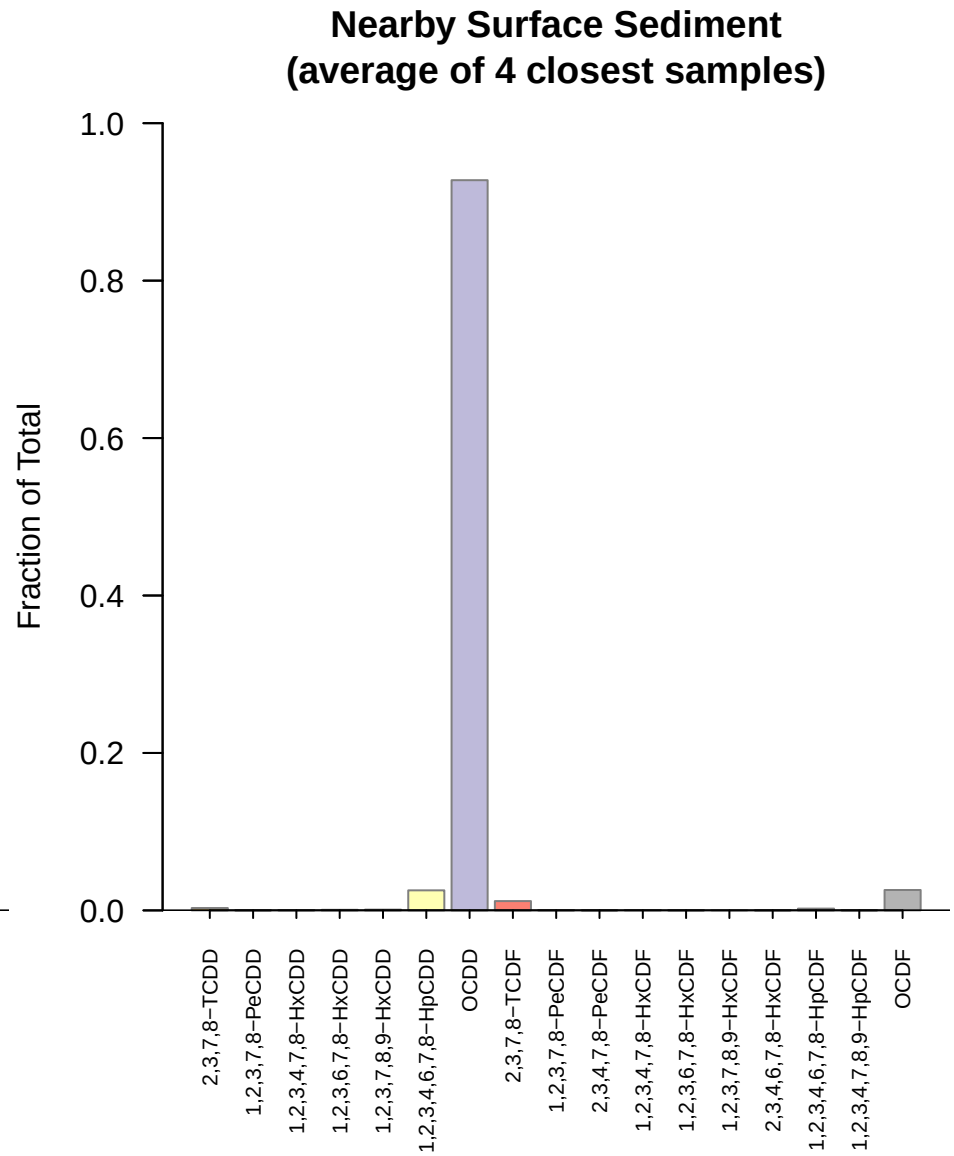

Clam Tissue
(Transect 1 Sample 002)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

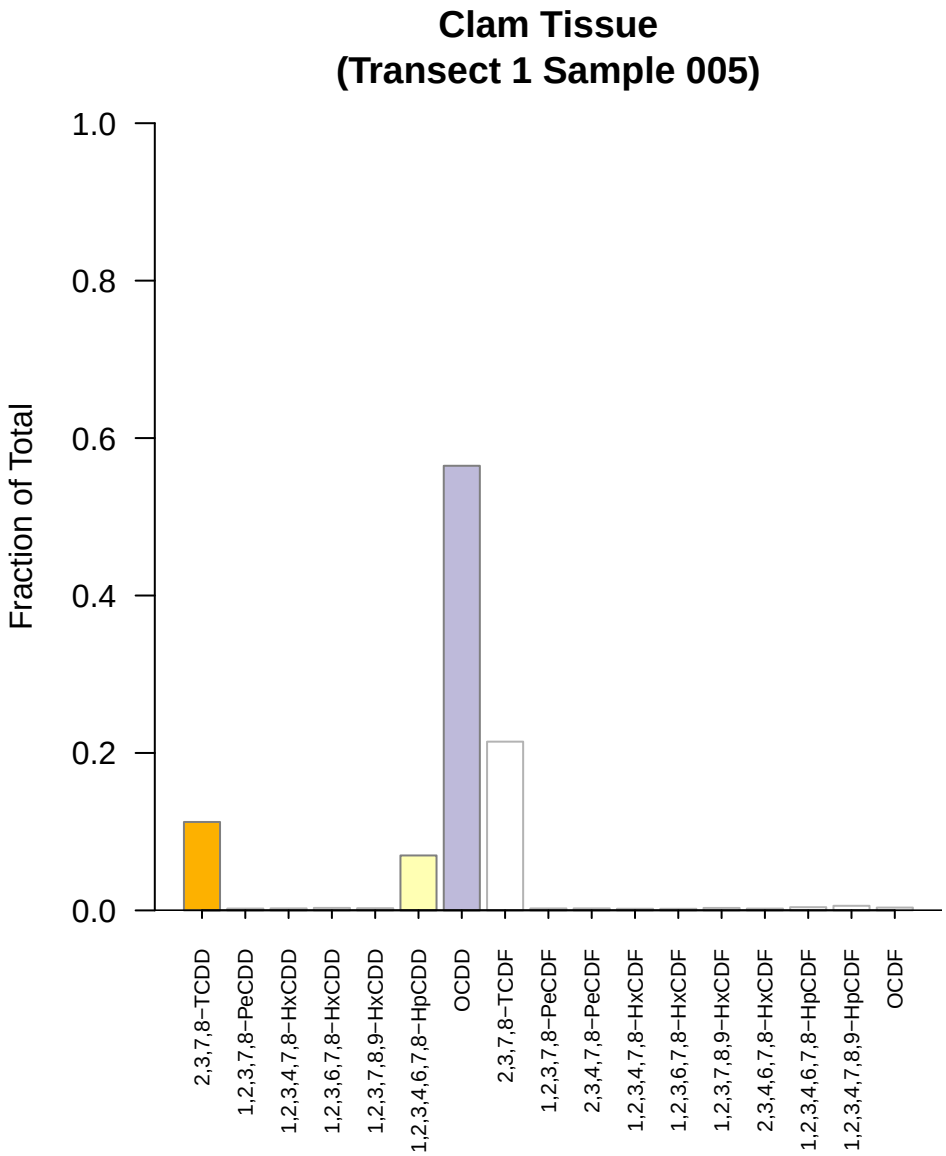

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

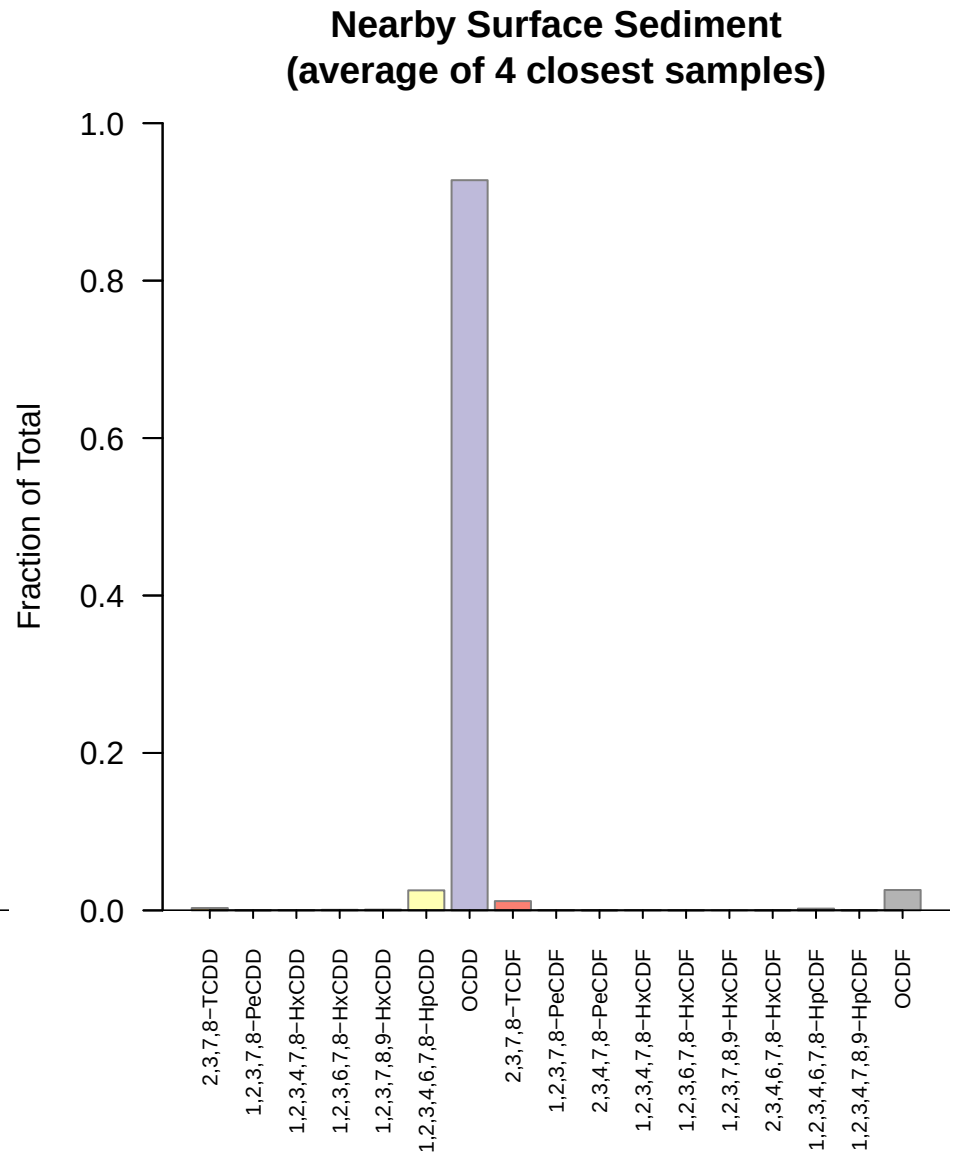

Clam Tissue
(Transect 1 Sample 003)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

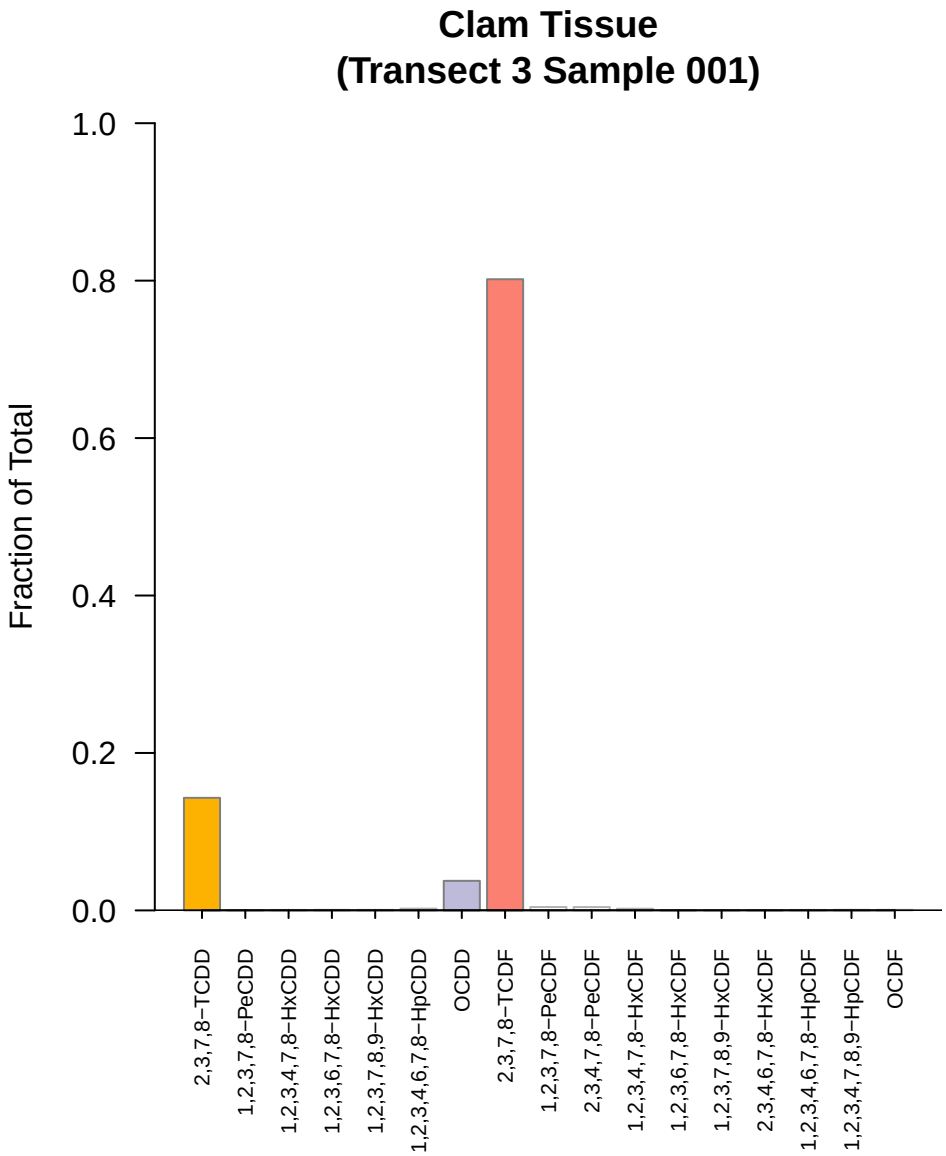

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

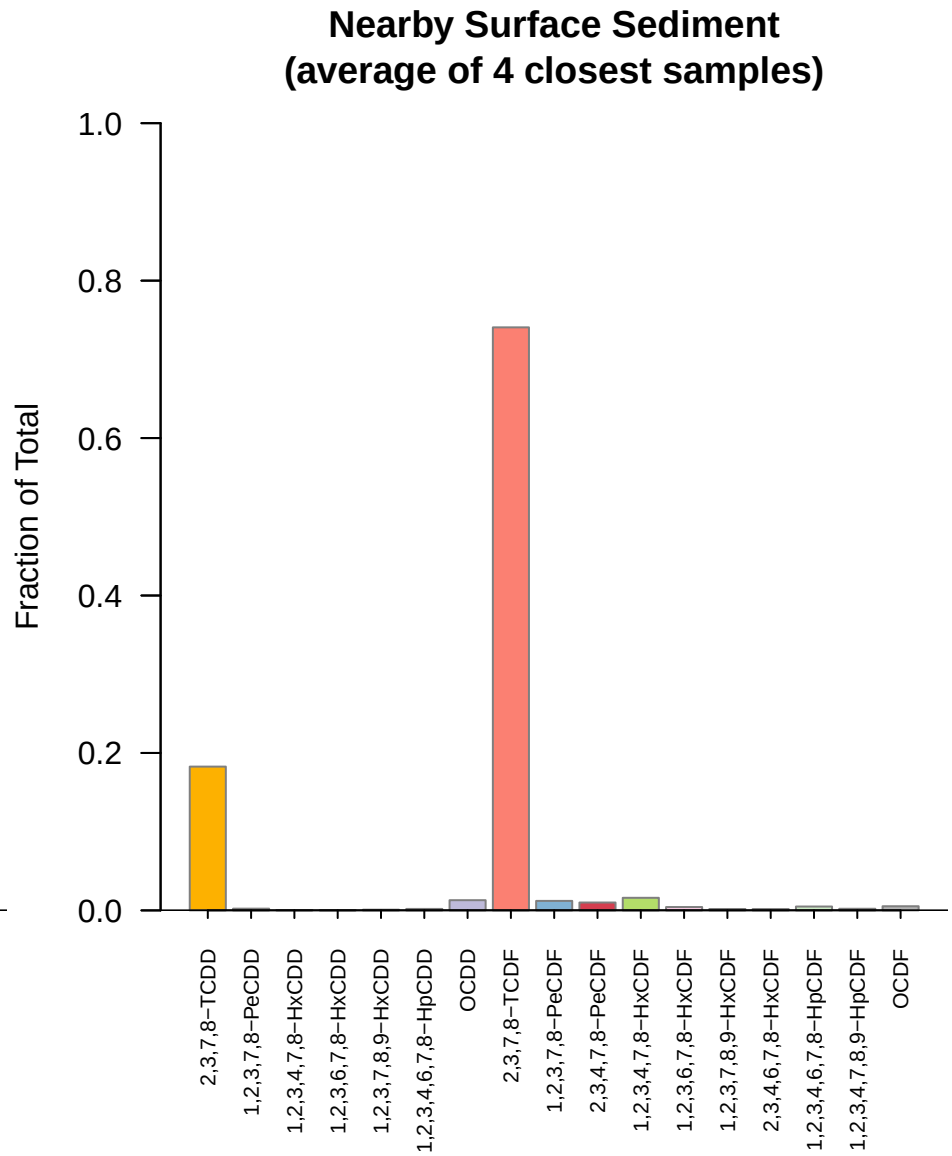

Clam Tissue
(Transect 1 Sample 004)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

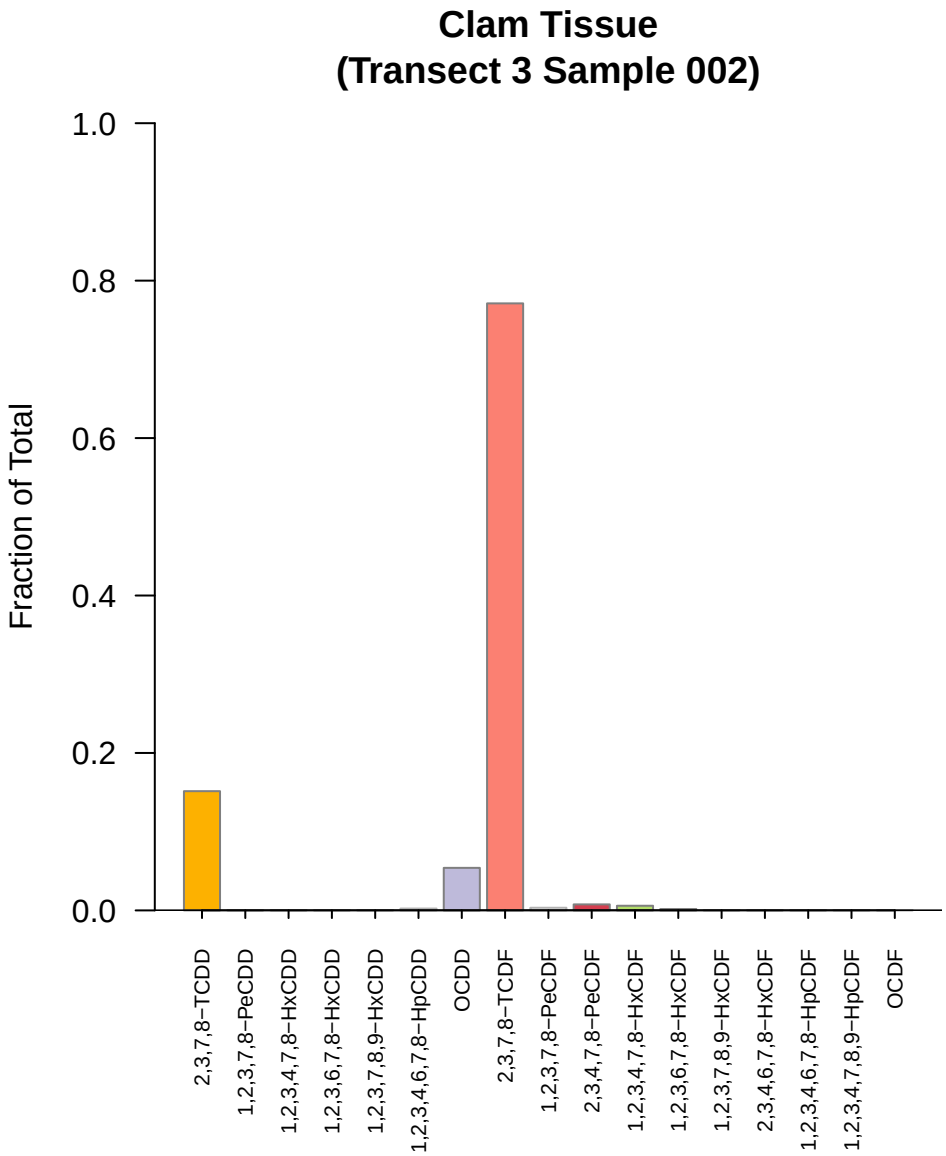

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

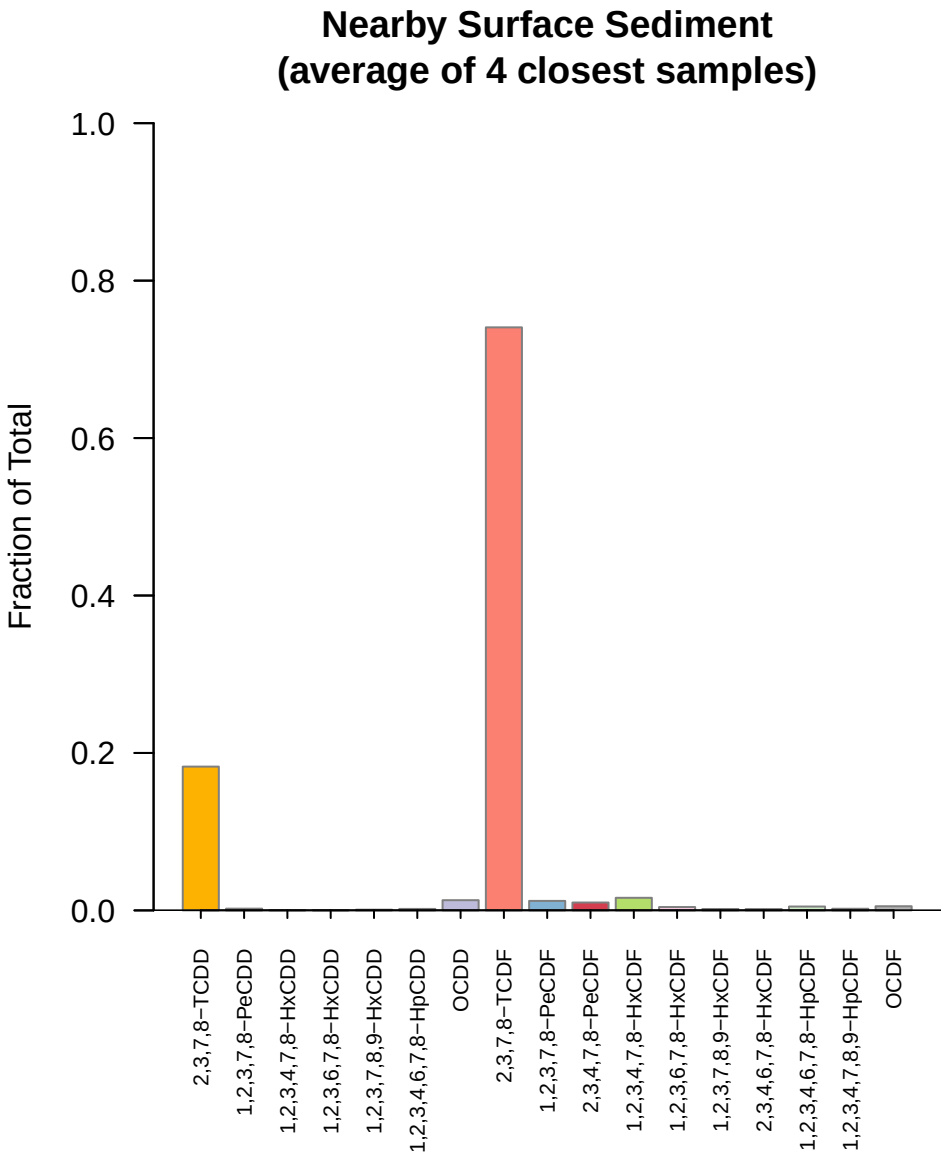

Clam Tissue
(Transect 1 Sample 005)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

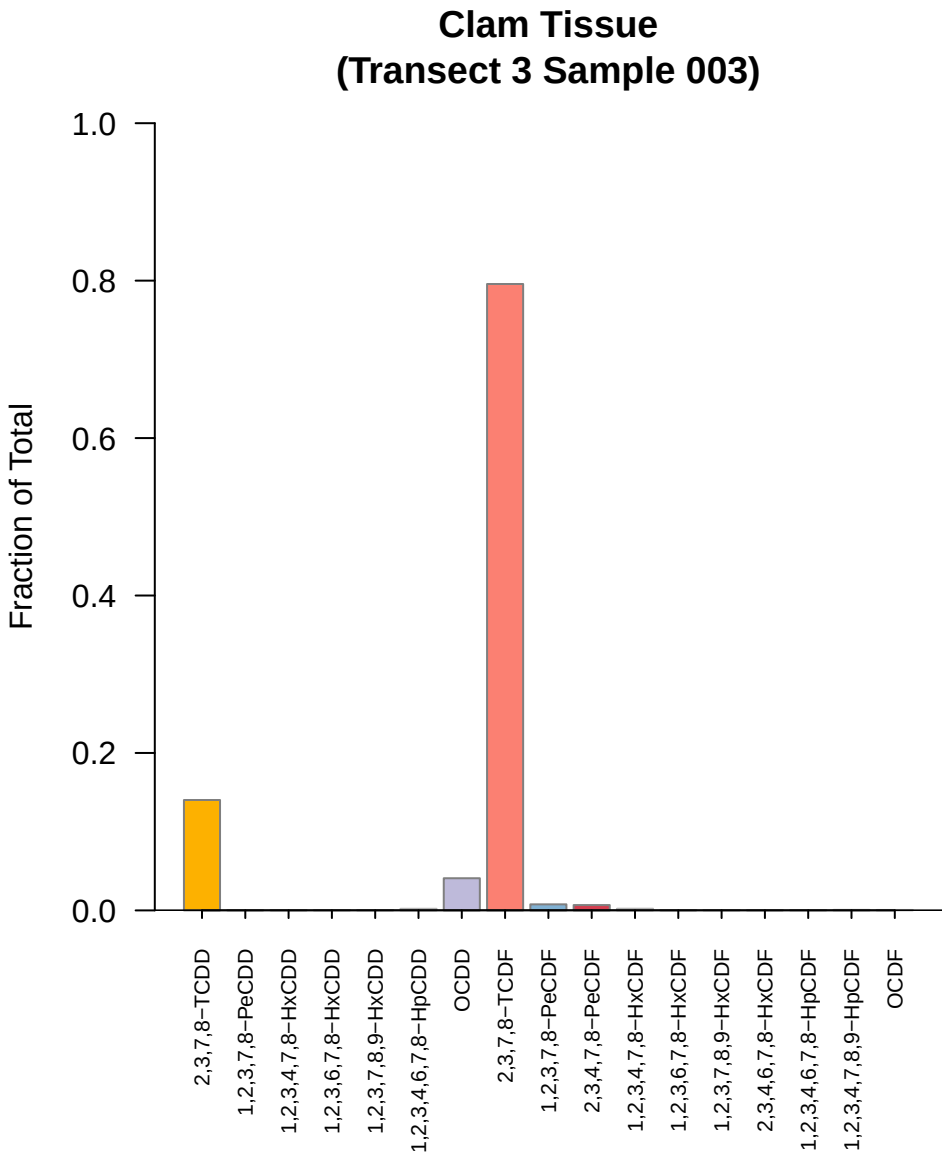

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

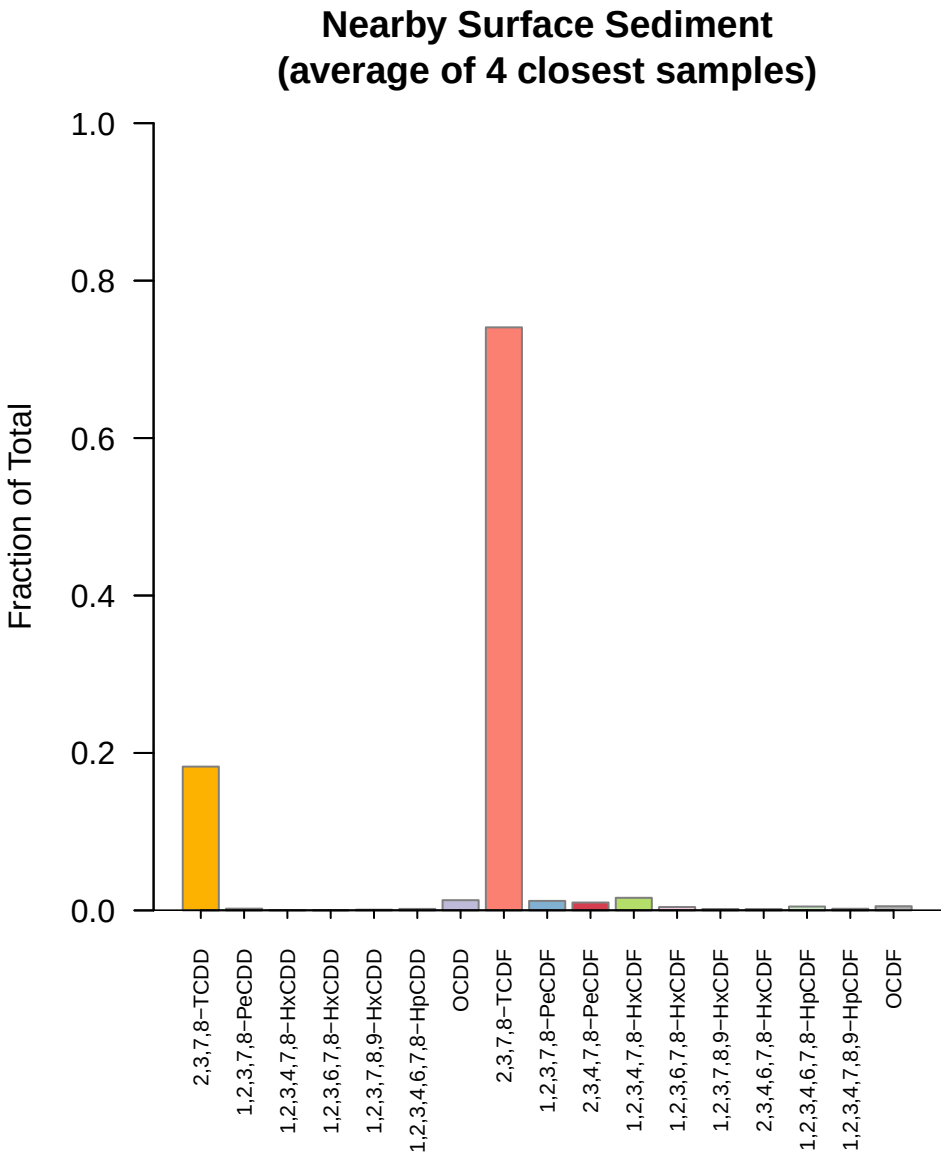

Clam Tissue
(Transect 3 Sample 001)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

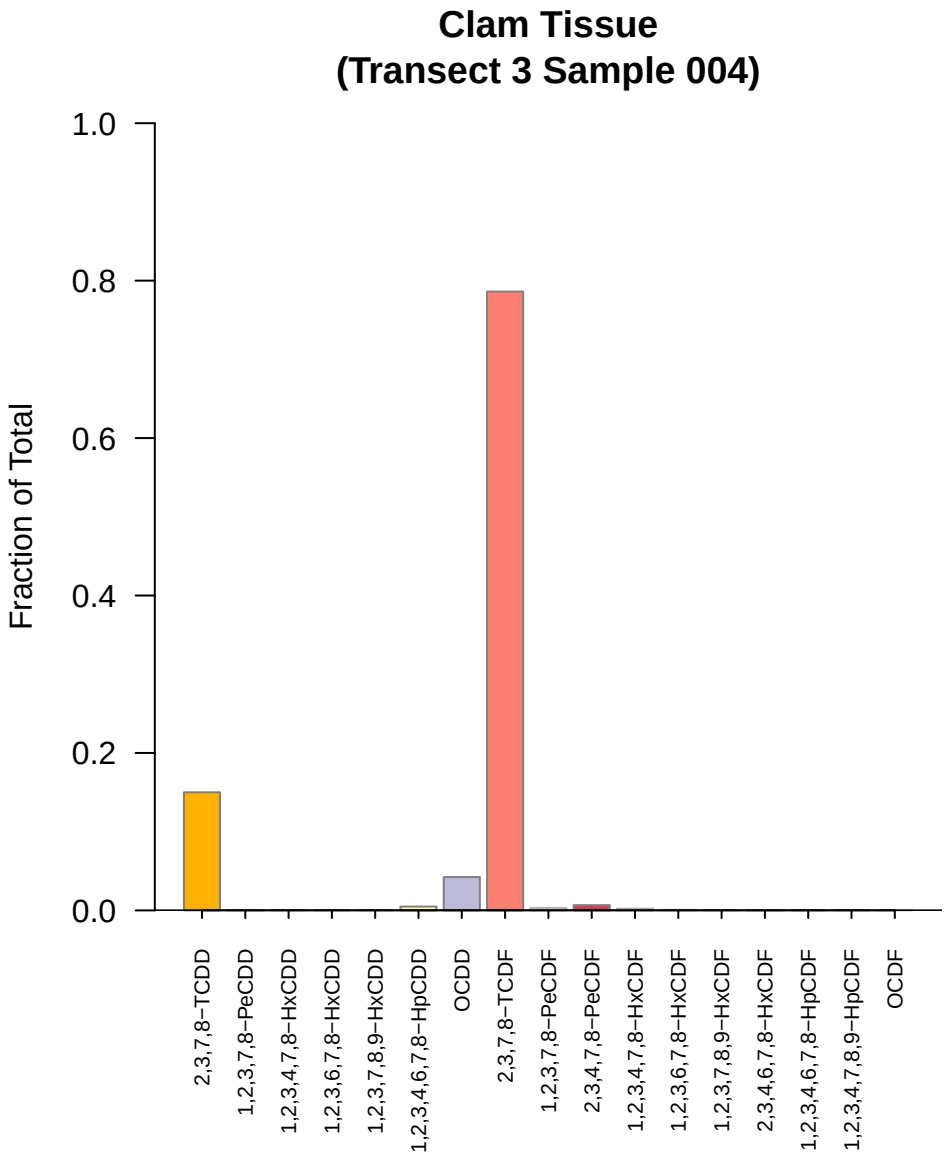

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

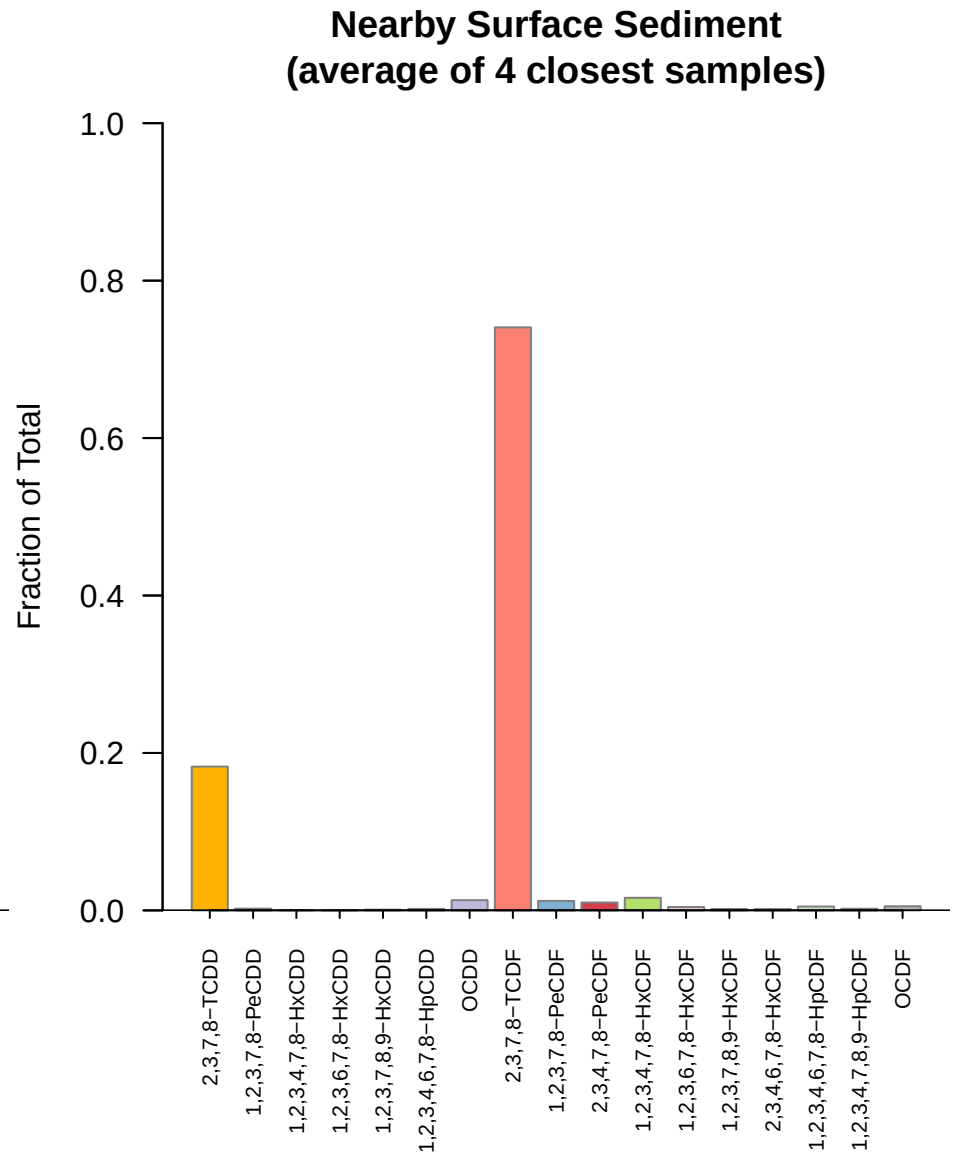

Clam Tissue
(Transect 3 Sample 002)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

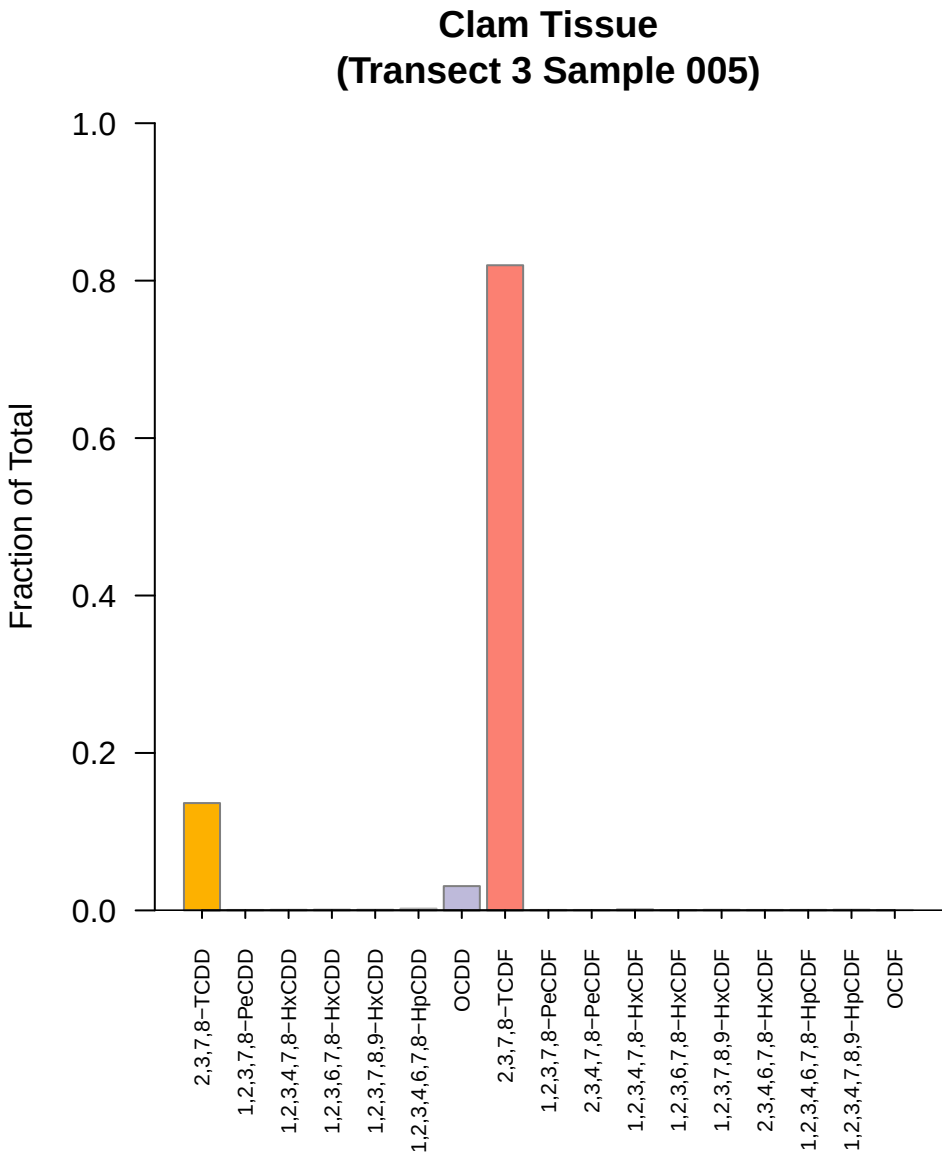

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

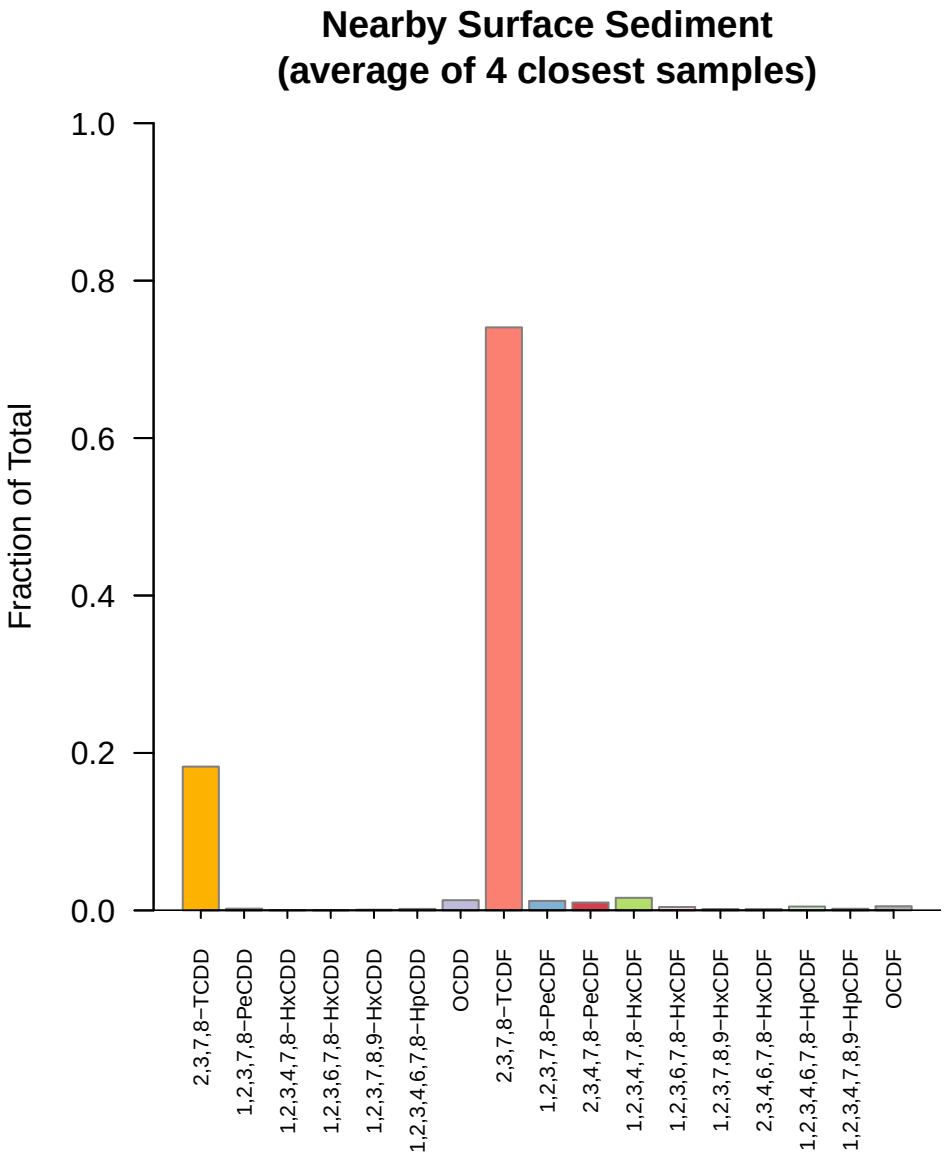

Clam Tissue
(Transect 3 Sample 003)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

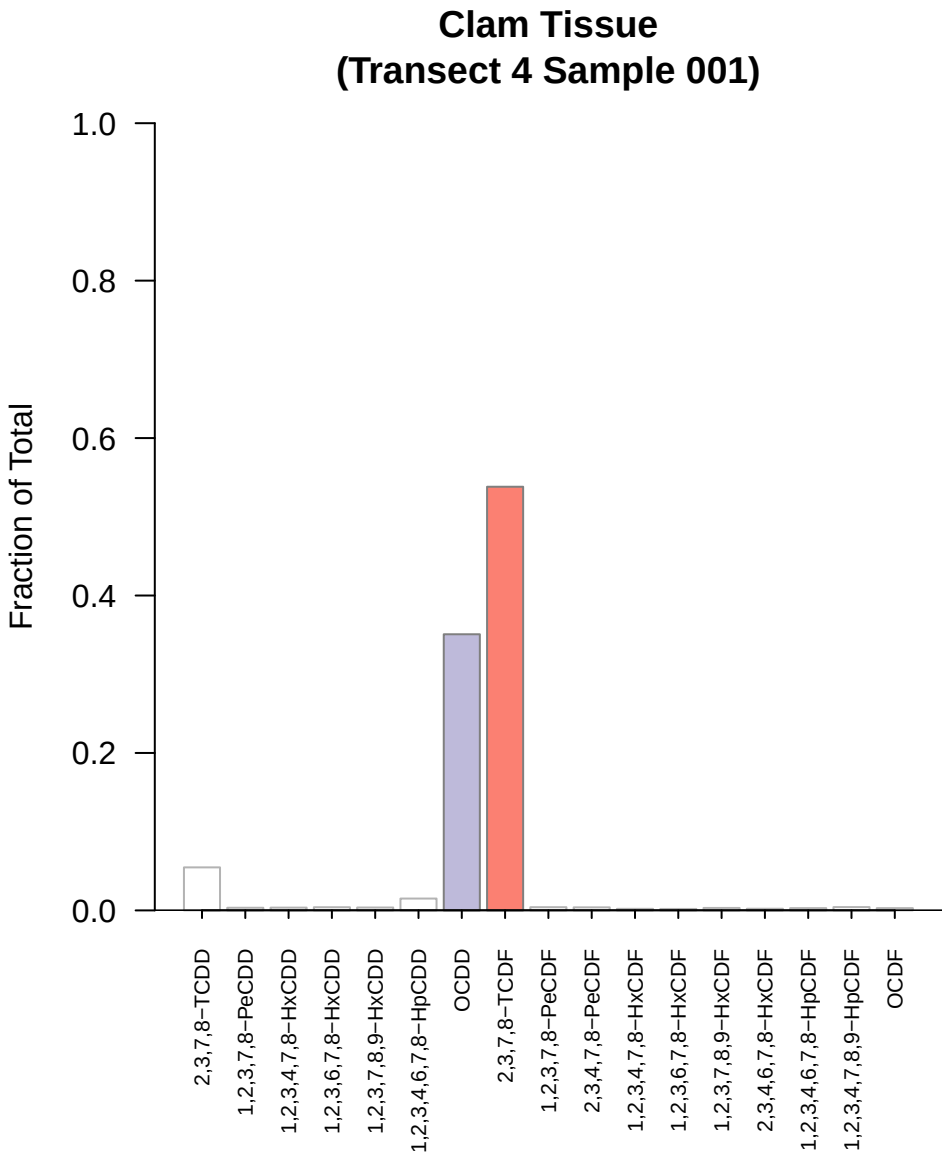

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

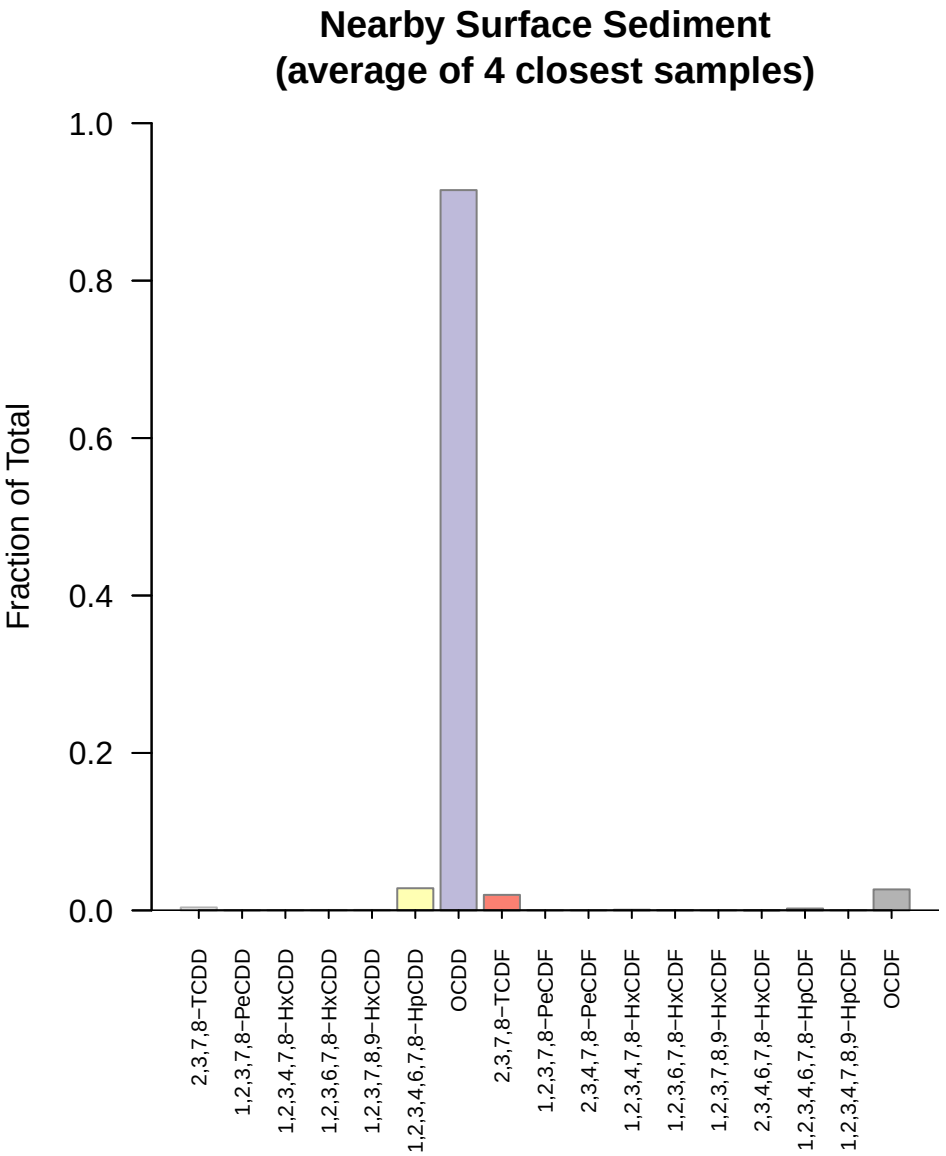

Clam Tissue
(Transect 3 Sample 004)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

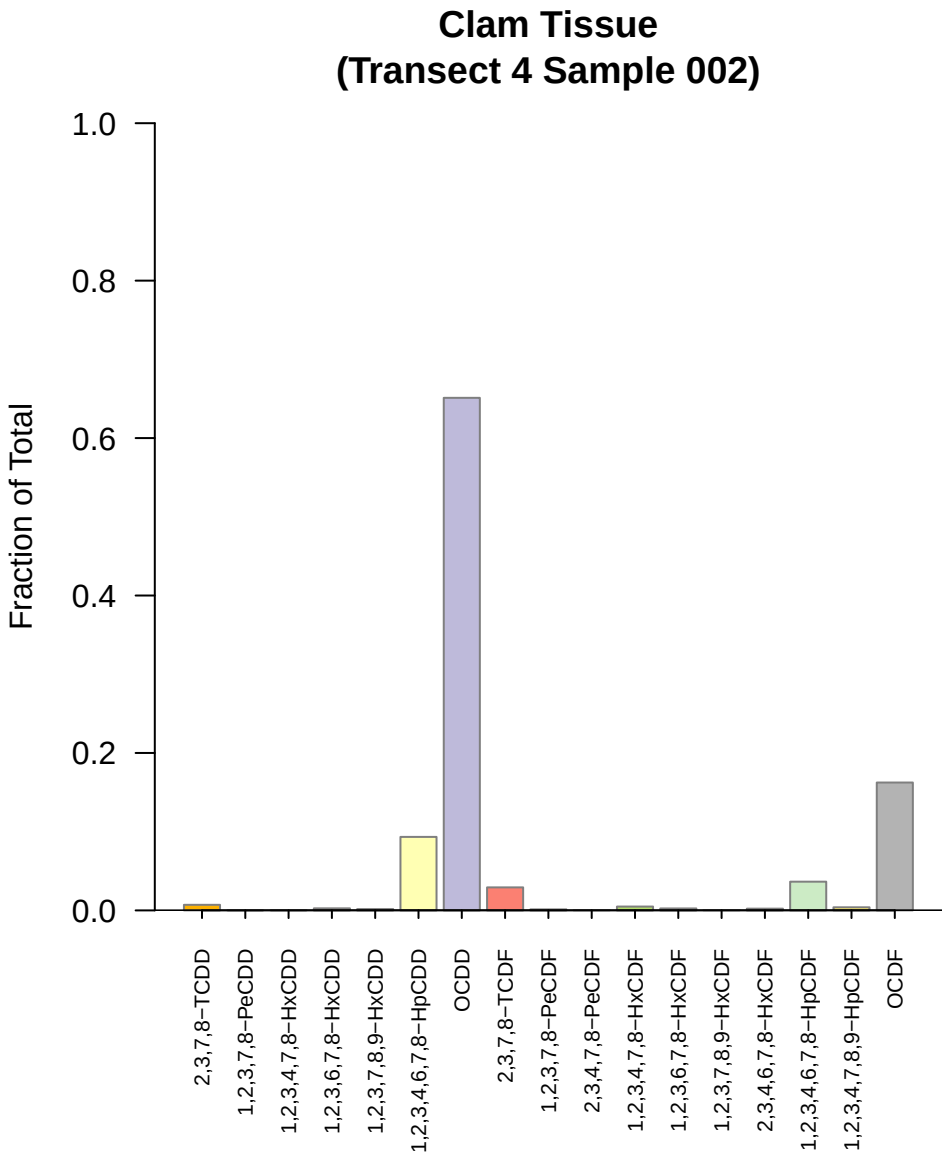

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

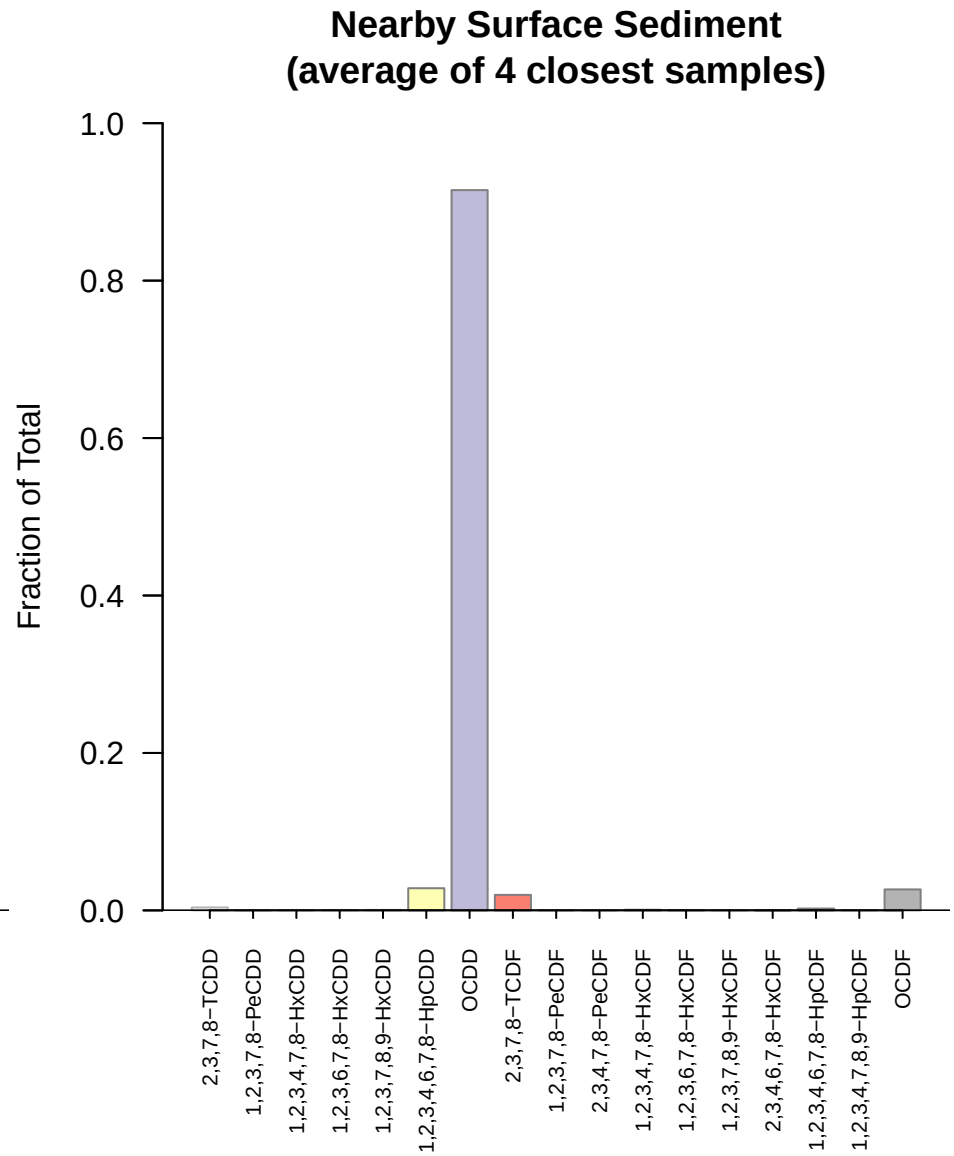

Clam Tissue
(Transect 3 Sample 005)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

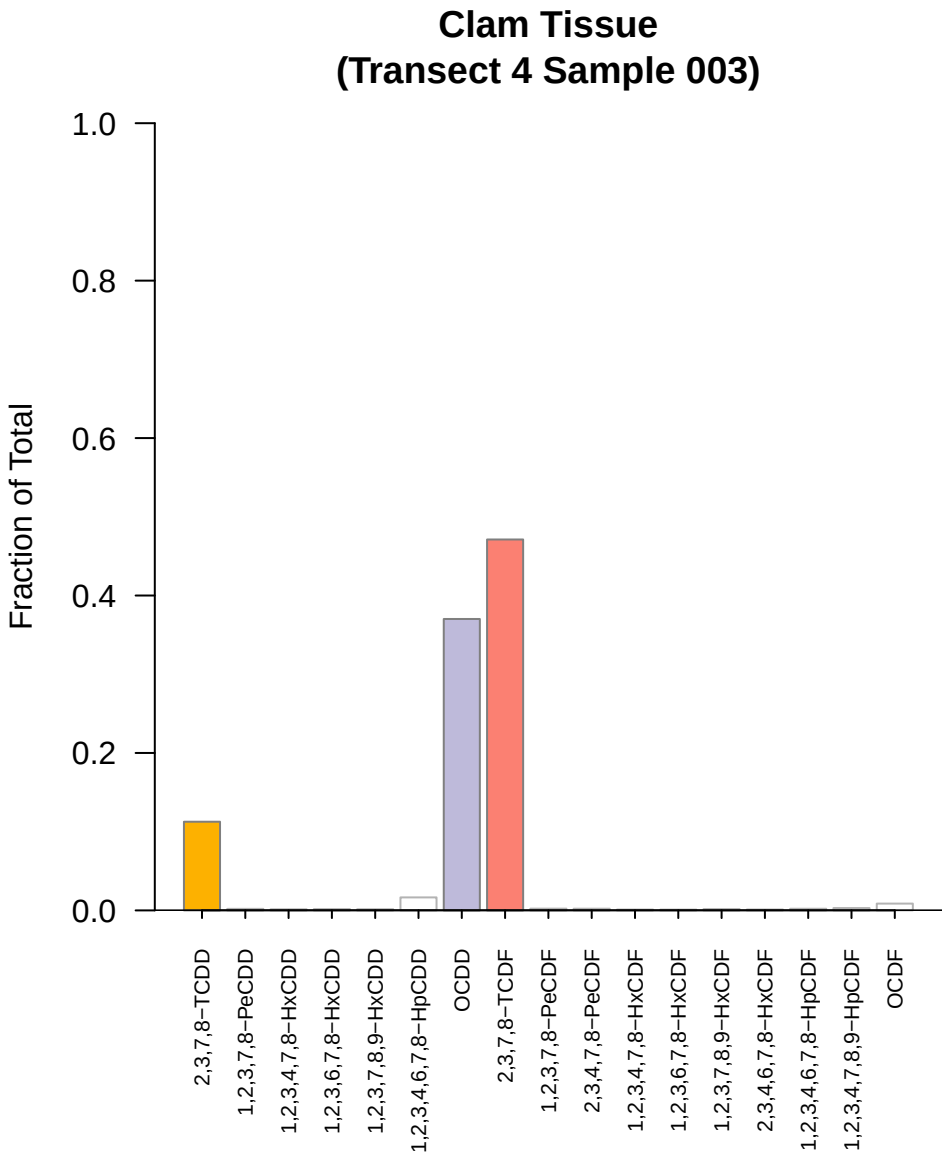

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

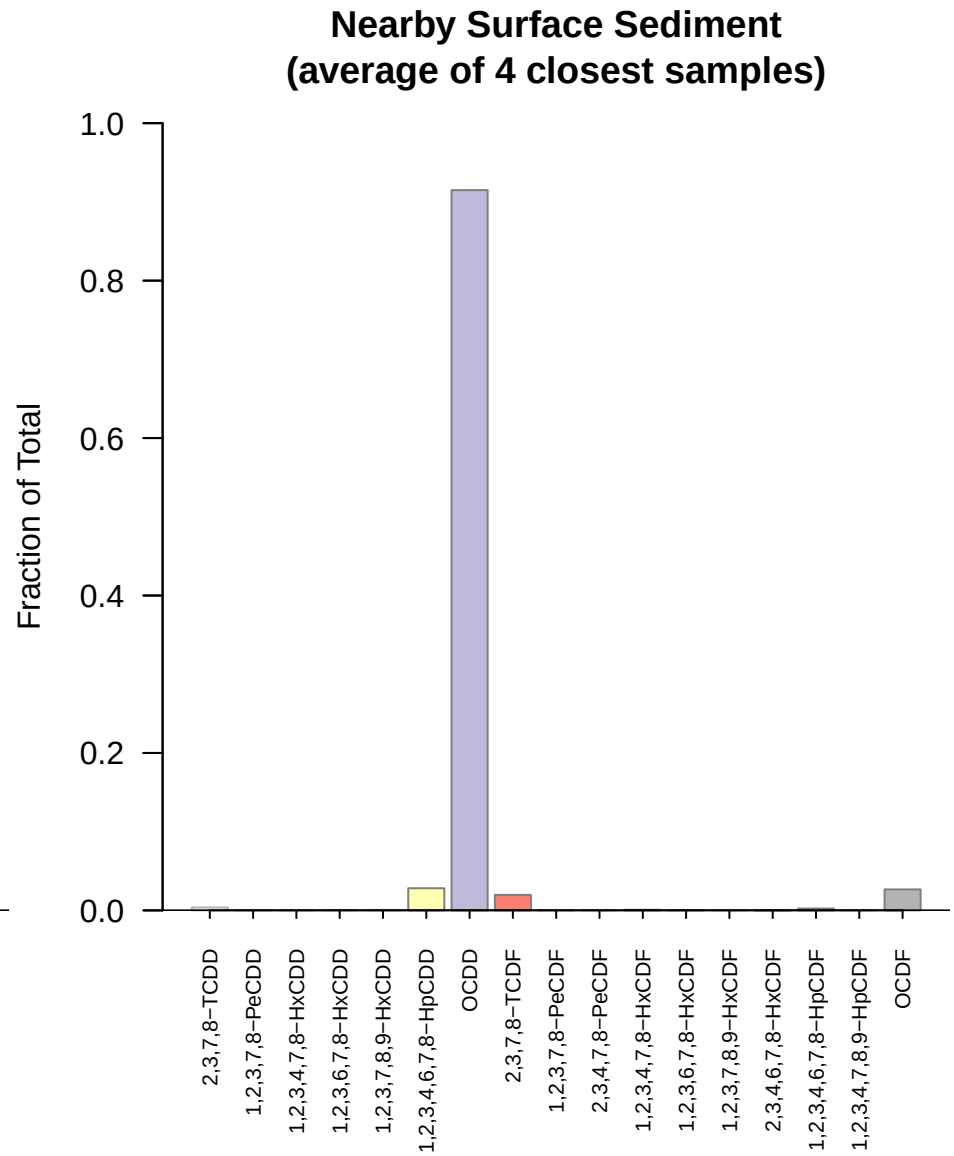

Clam Tissue
(Transect 4 Sample 001)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

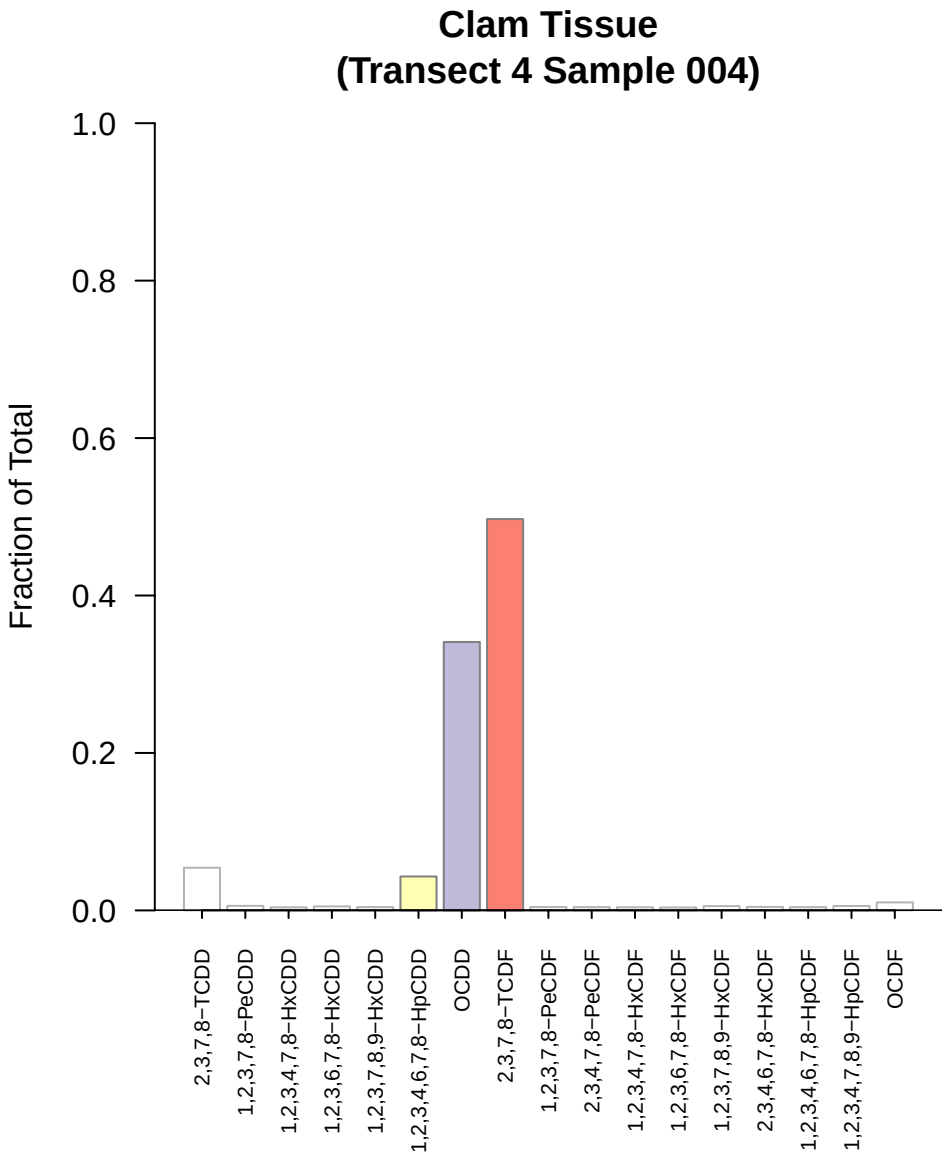

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

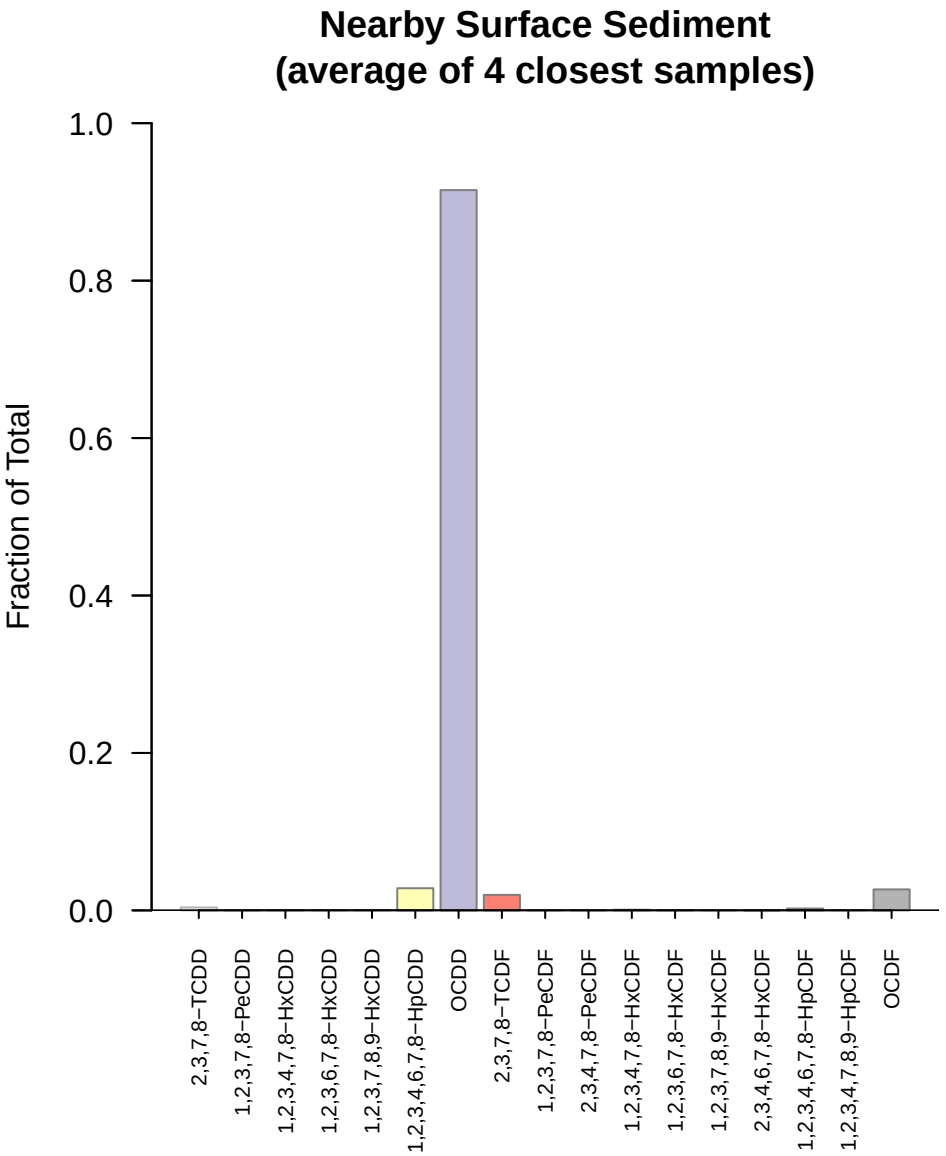

Clam Tissue
(Transect 4 Sample 002)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

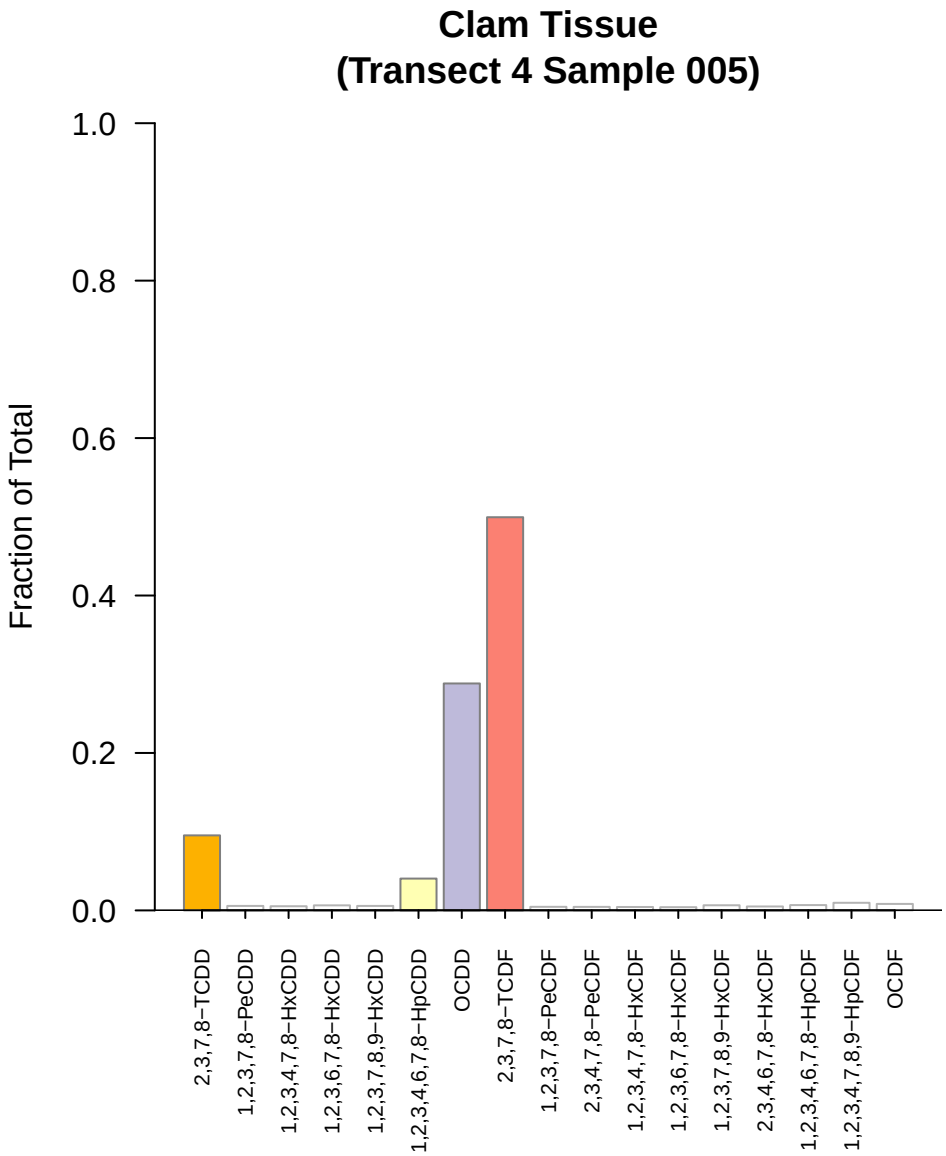

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

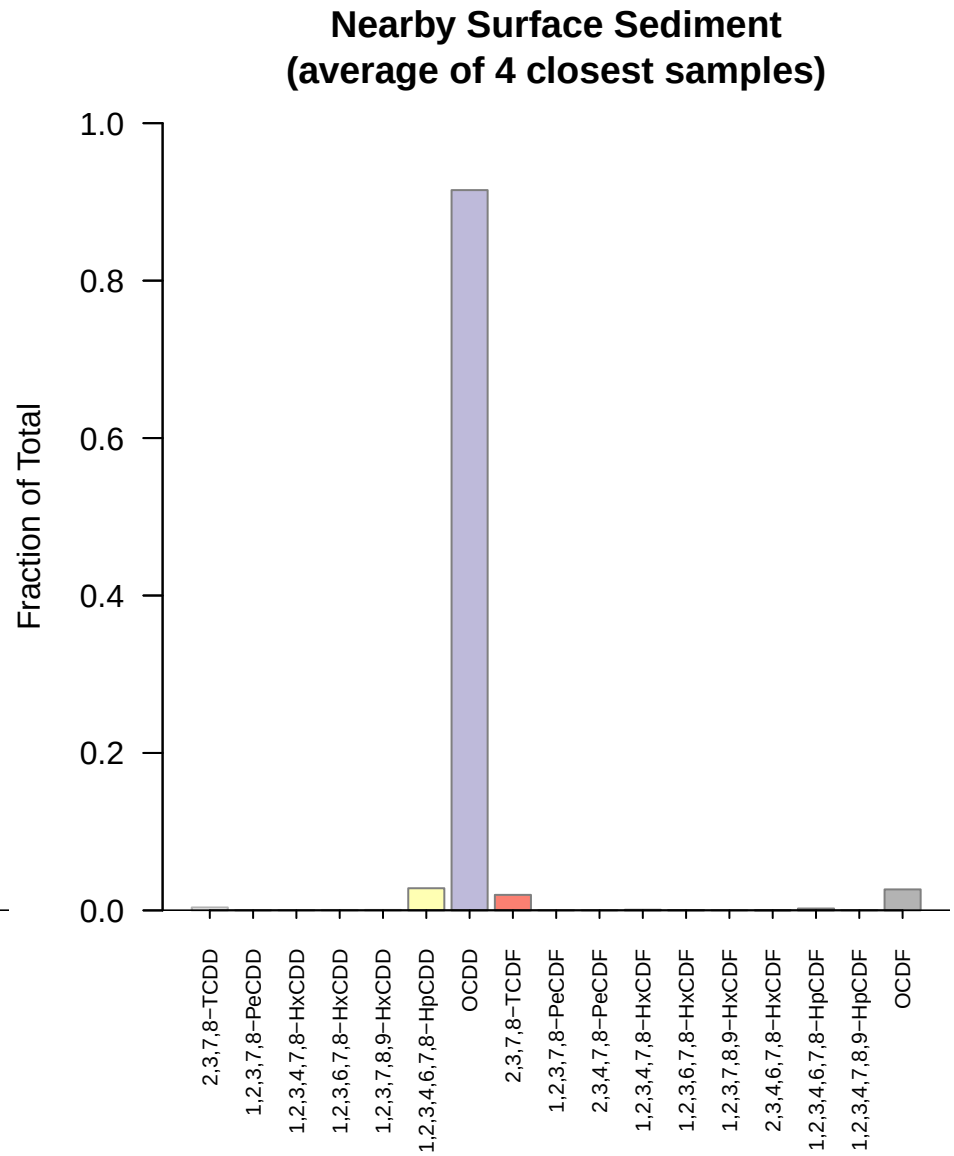

Clam Tissue
(Transect 4 Sample 003)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

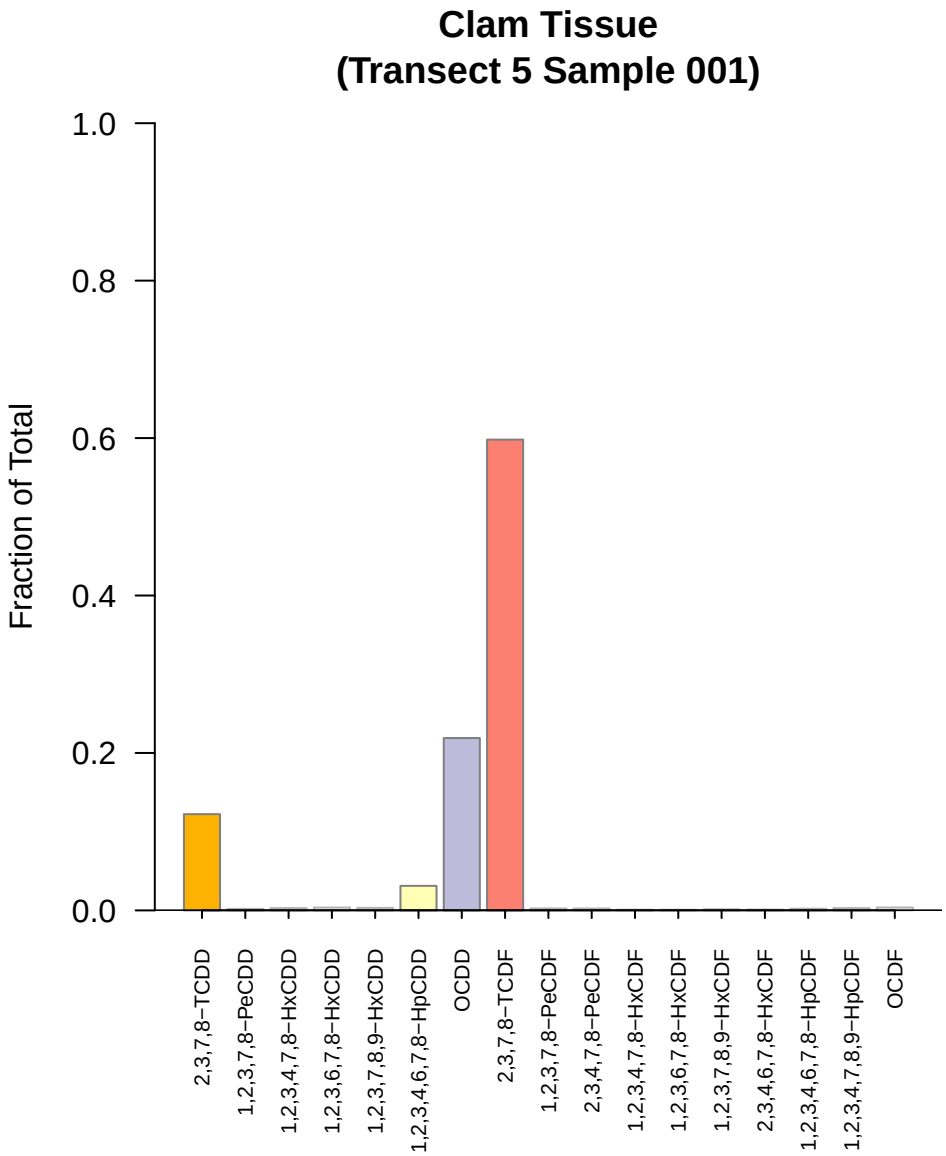

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

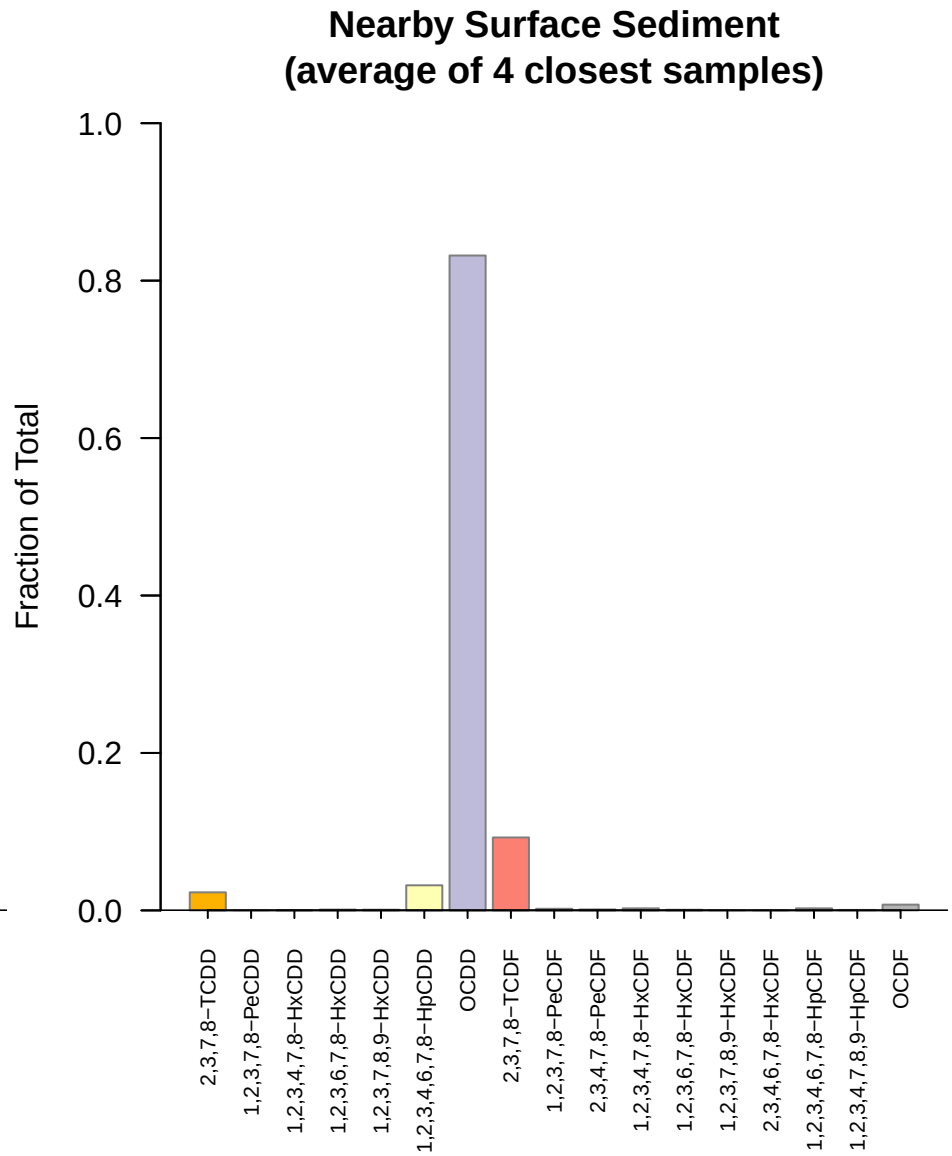

Clam Tissue
(Transect 4 Sample 004)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

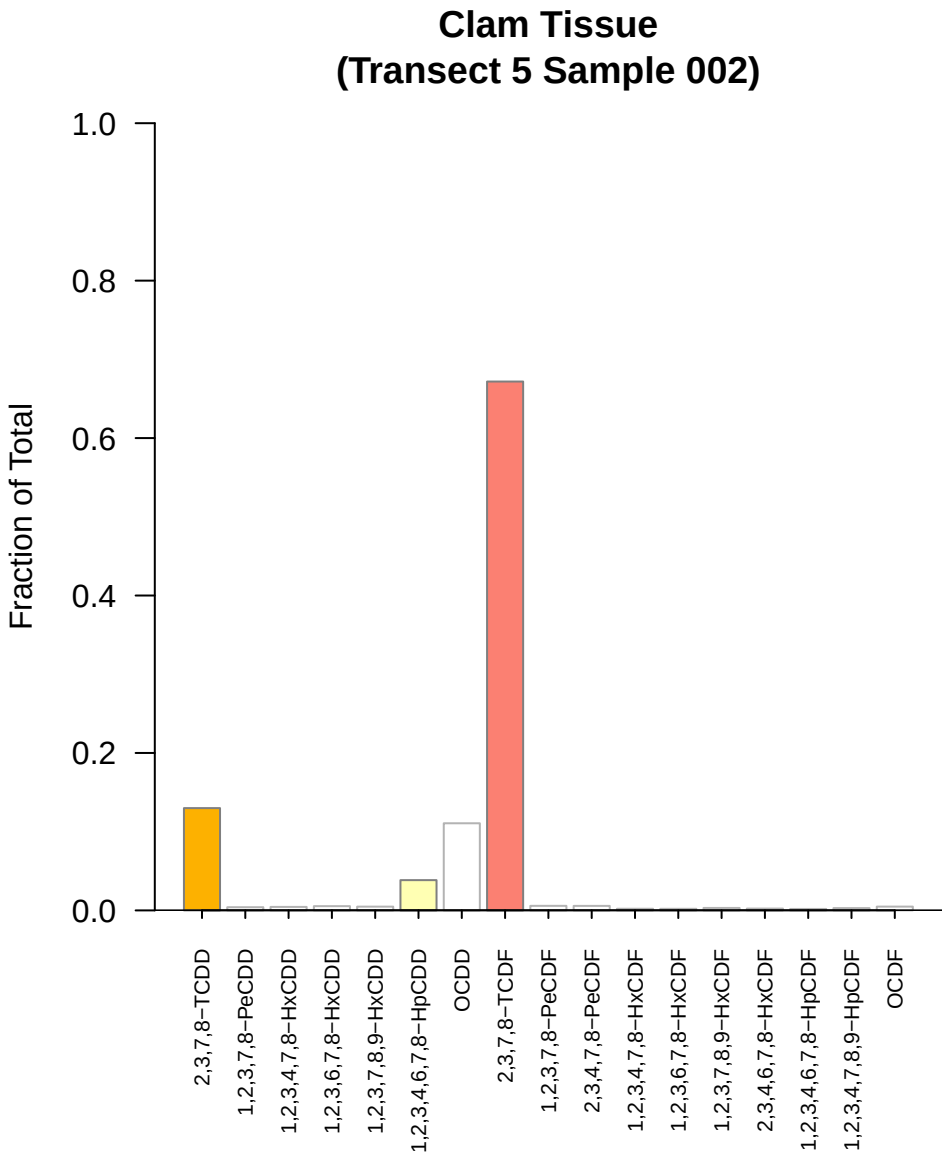

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

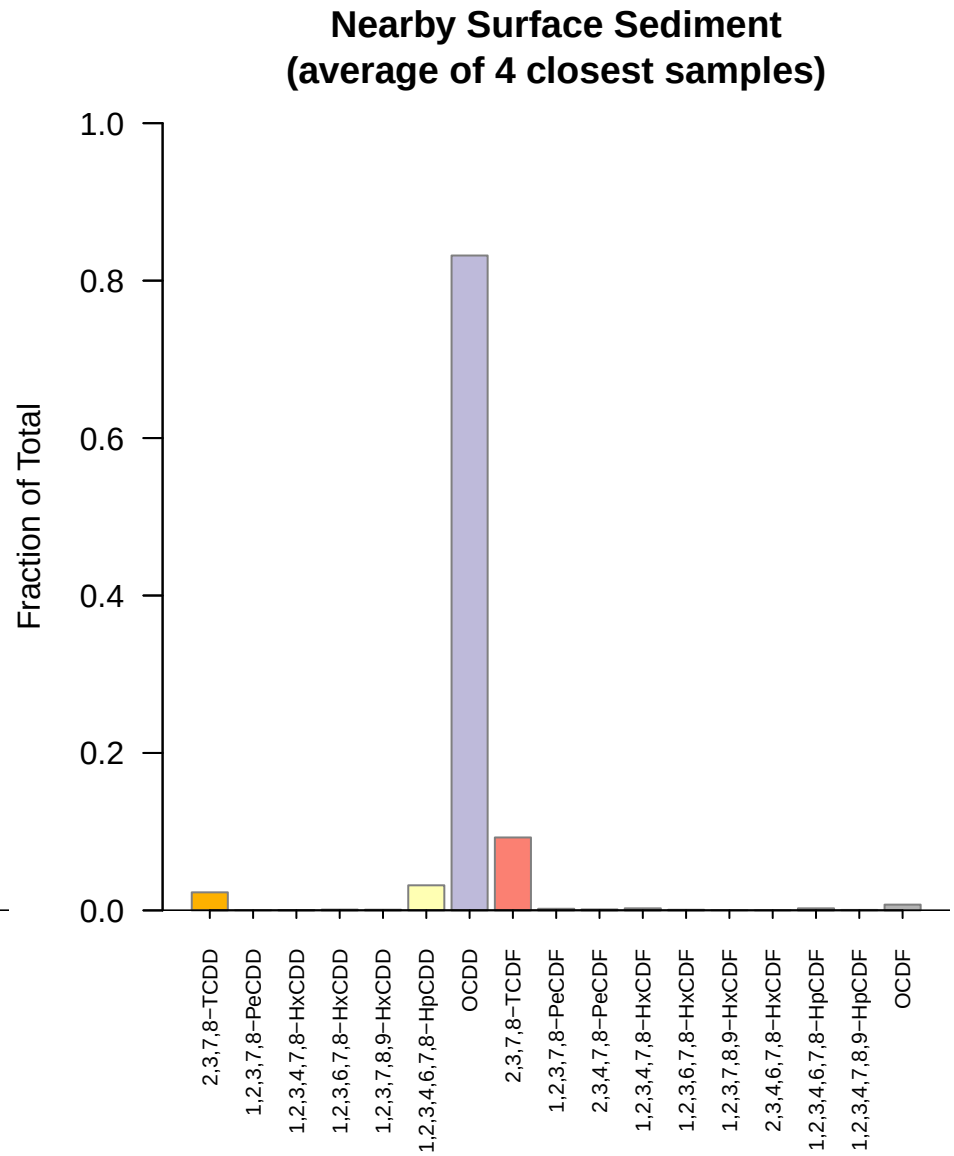

Clam Tissue
(Transect 4 Sample 005)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

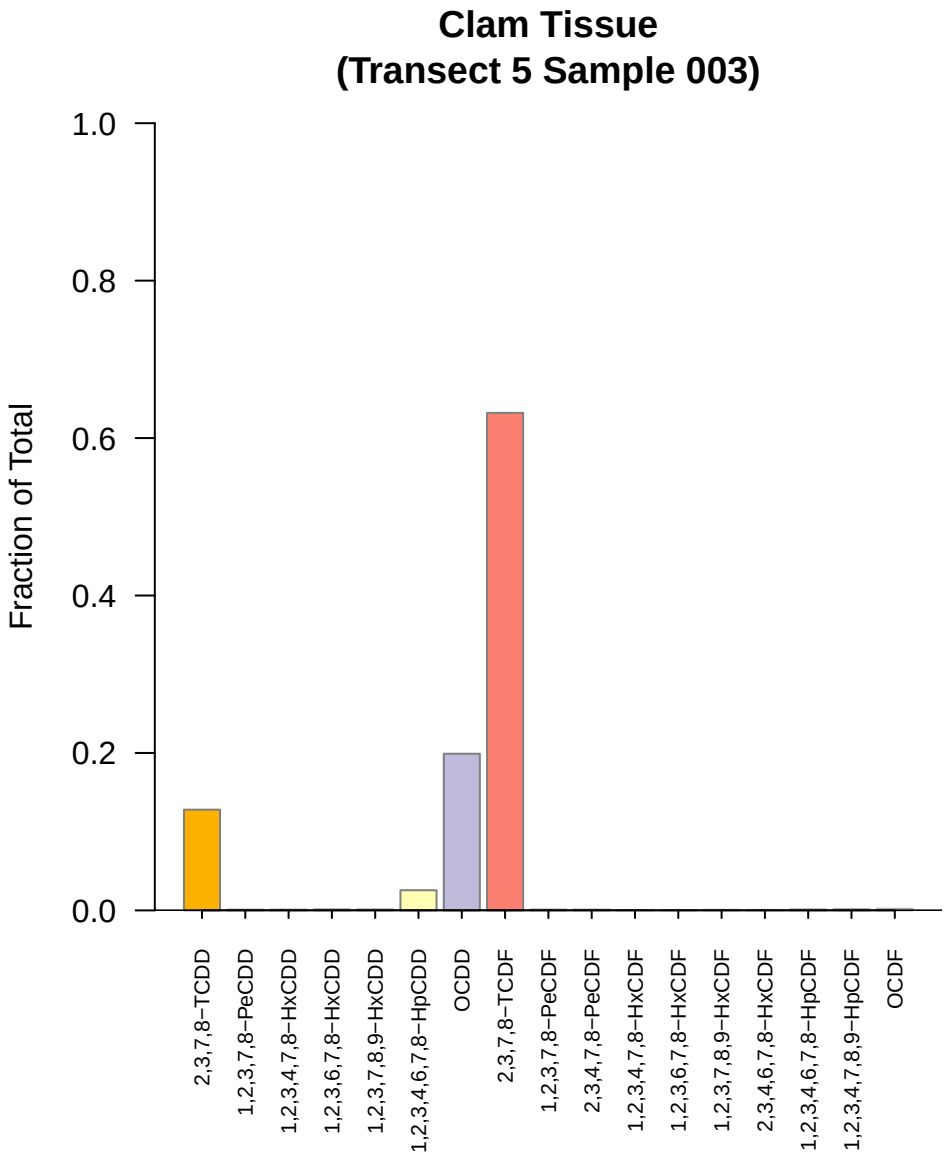

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

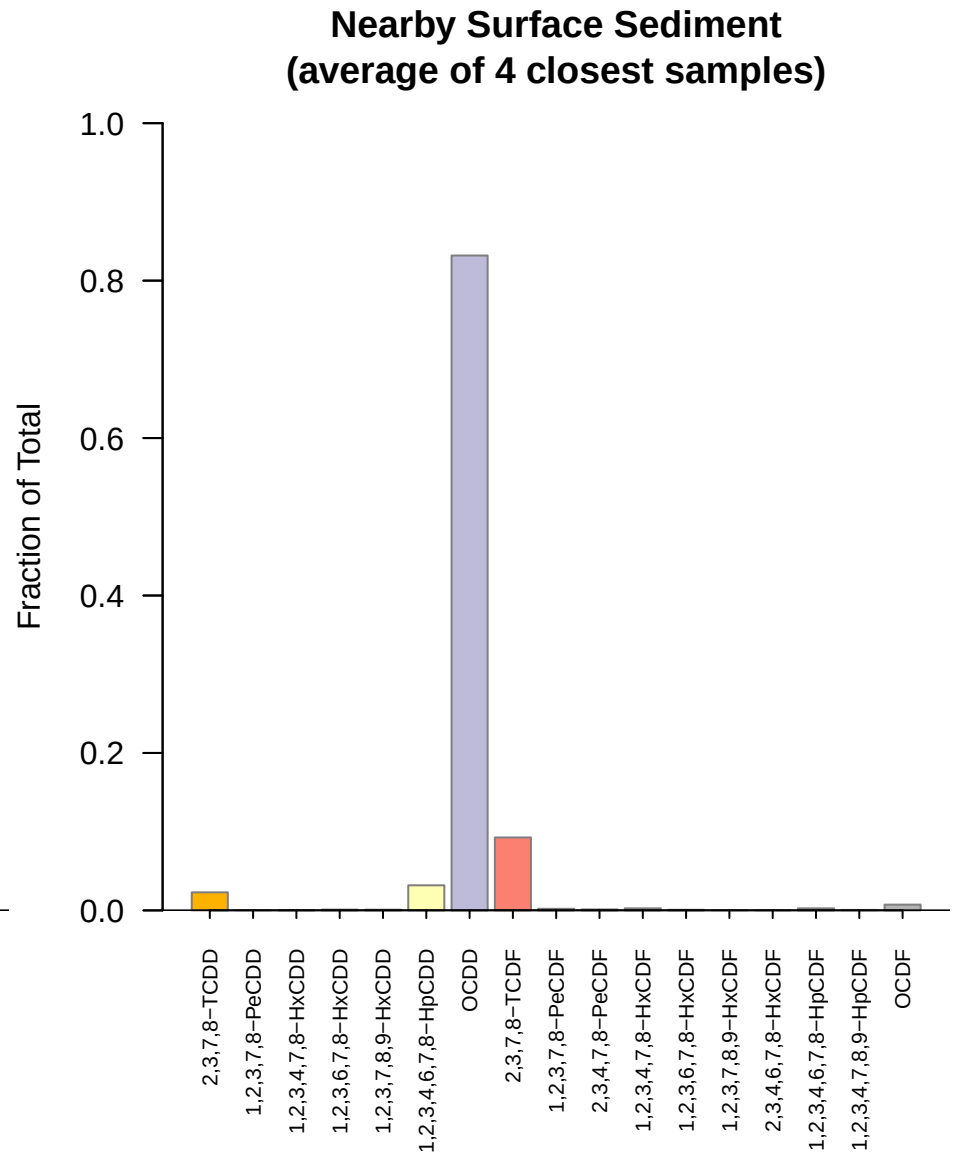

Clam Tissue
(Transect 5 Sample 001)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

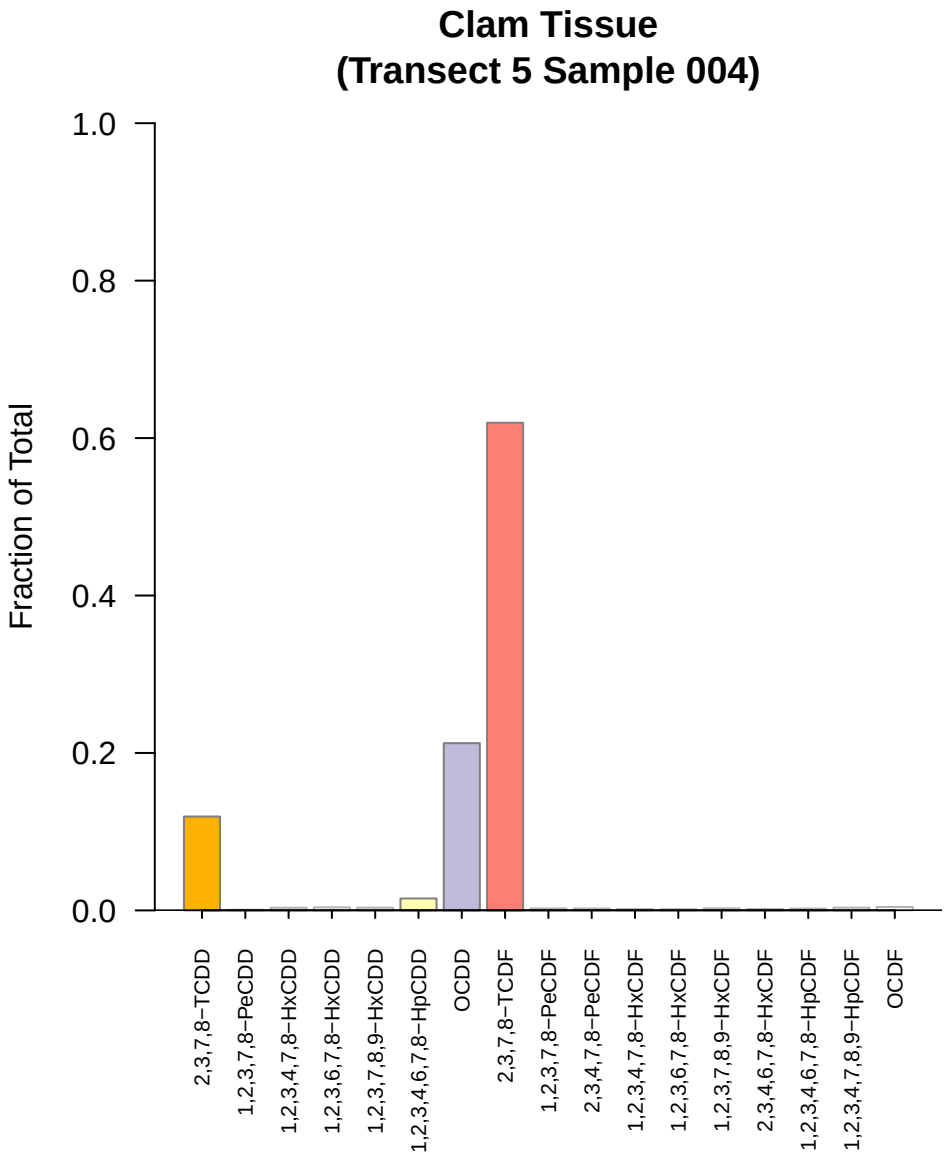

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

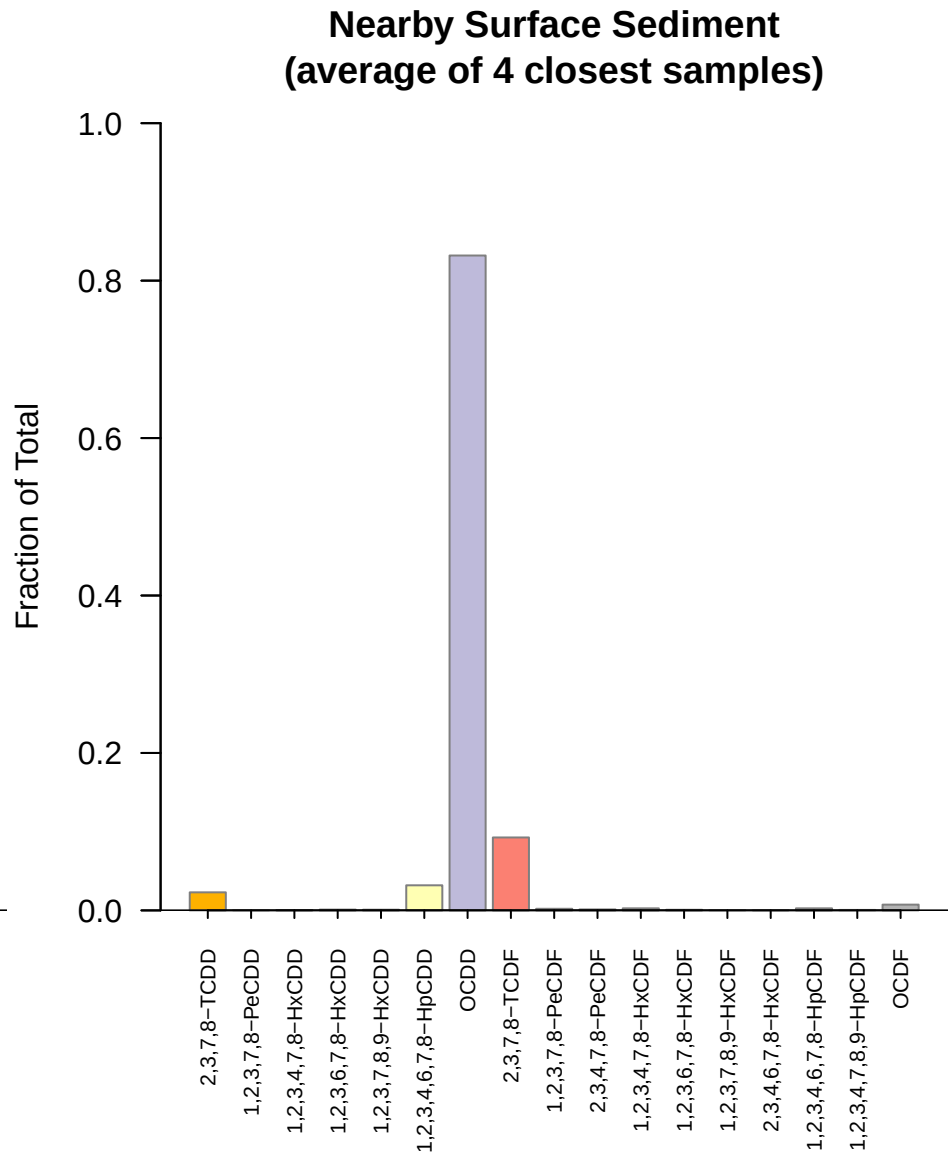

Clam Tissue
(Transect 5 Sample 002)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

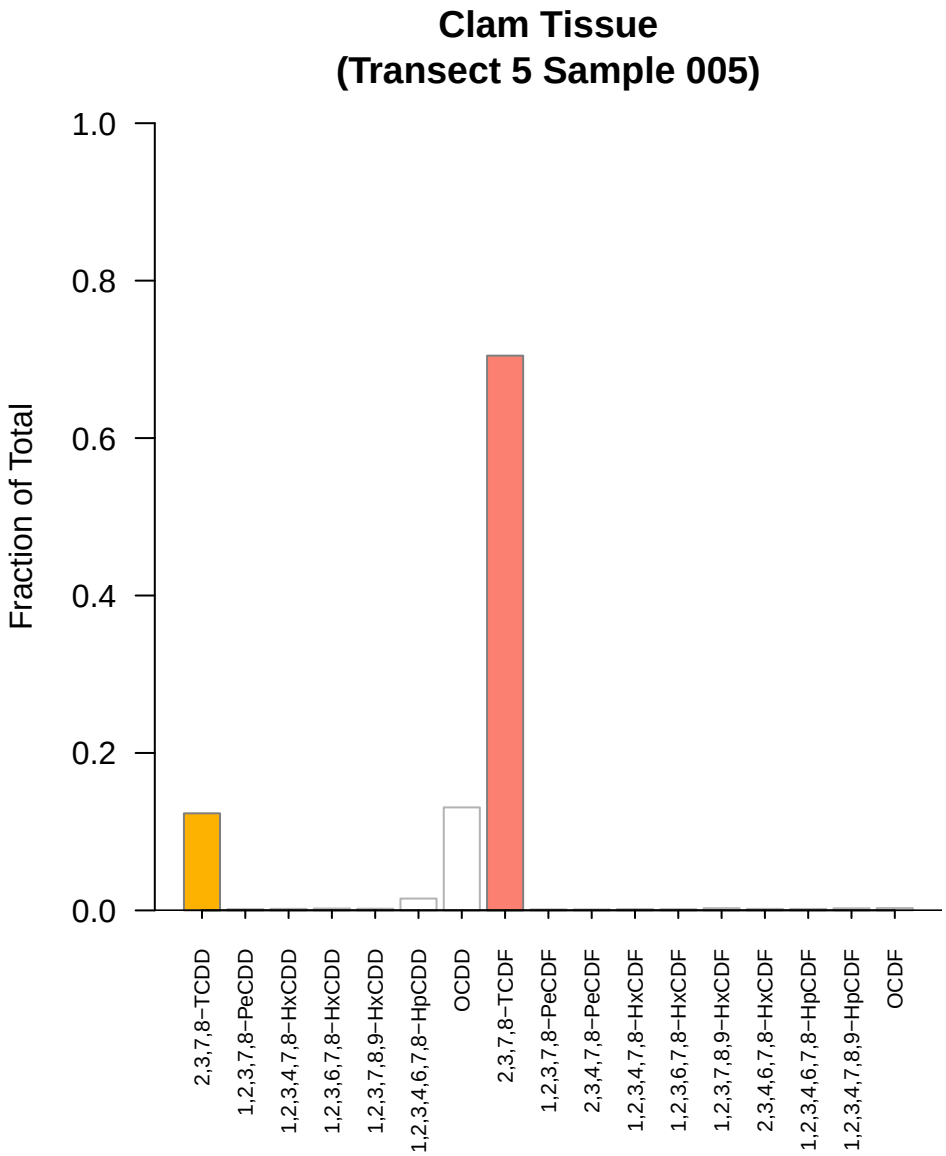

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

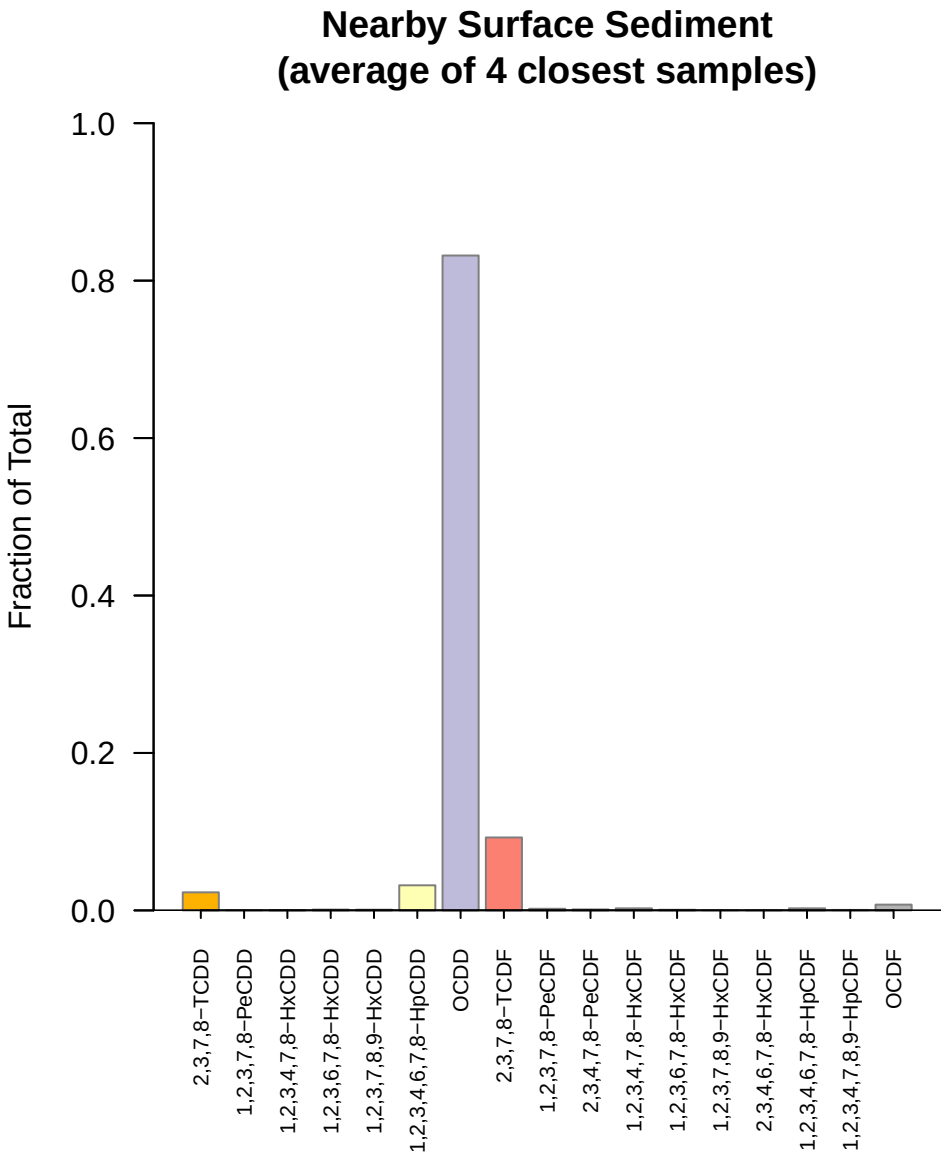

Clam Tissue
(Transect 5 Sample 003)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

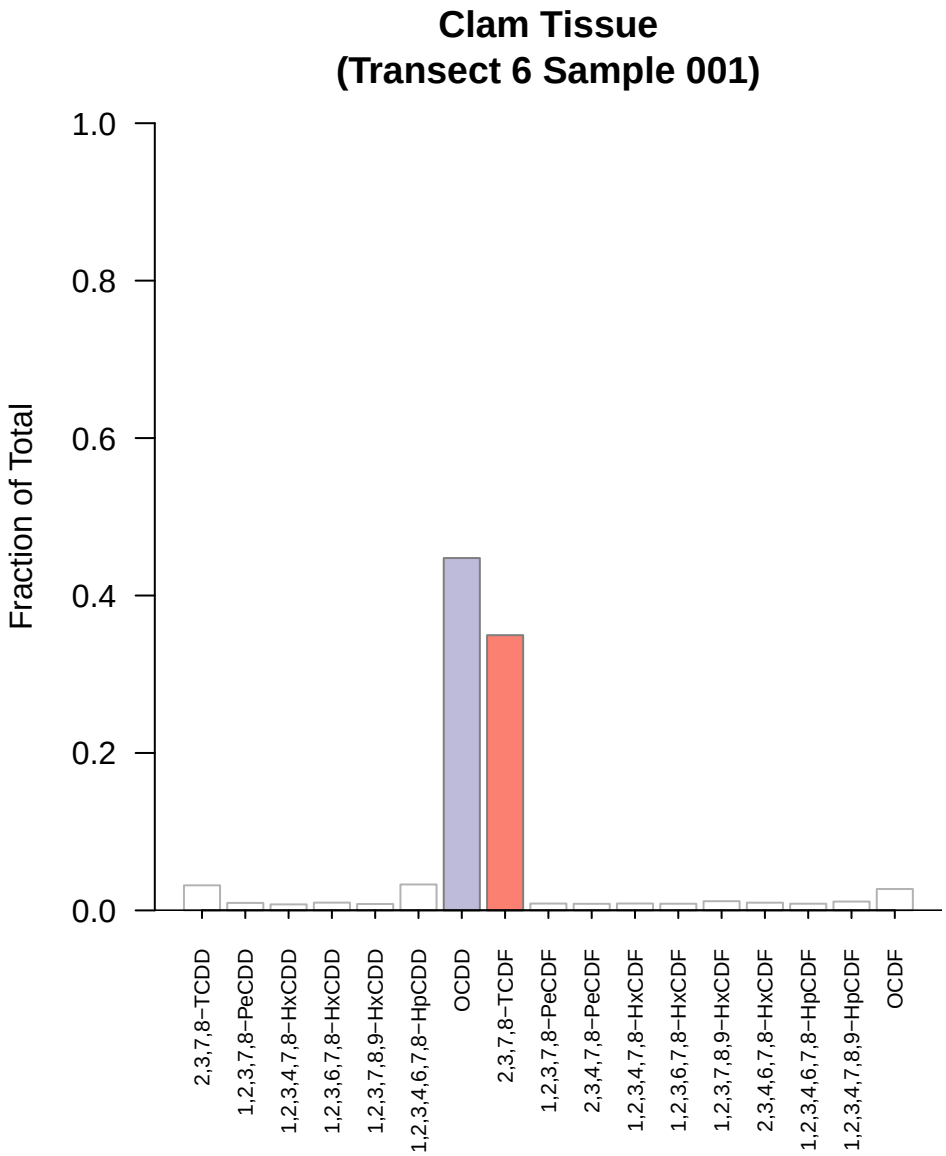

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

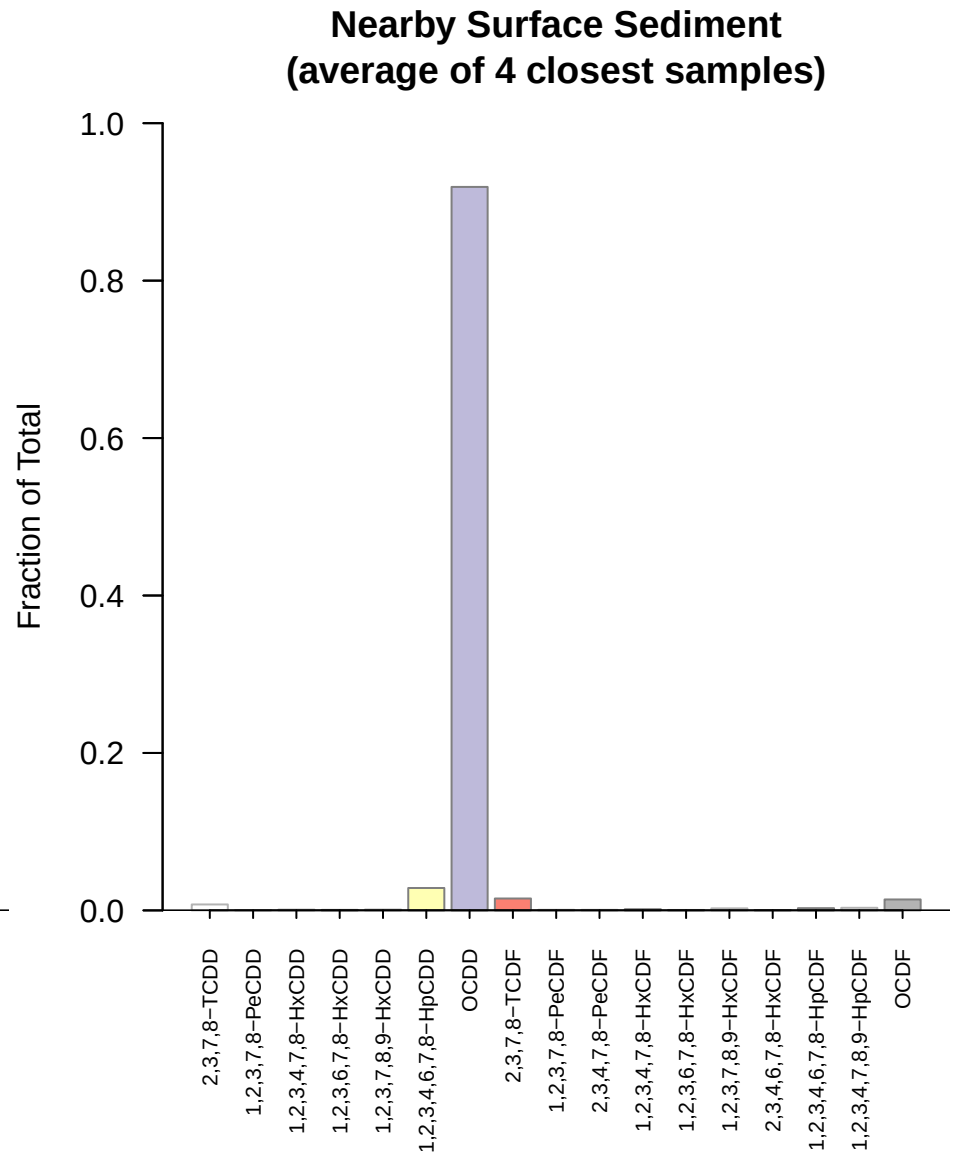

Clam Tissue
(Transect 5 Sample 004)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

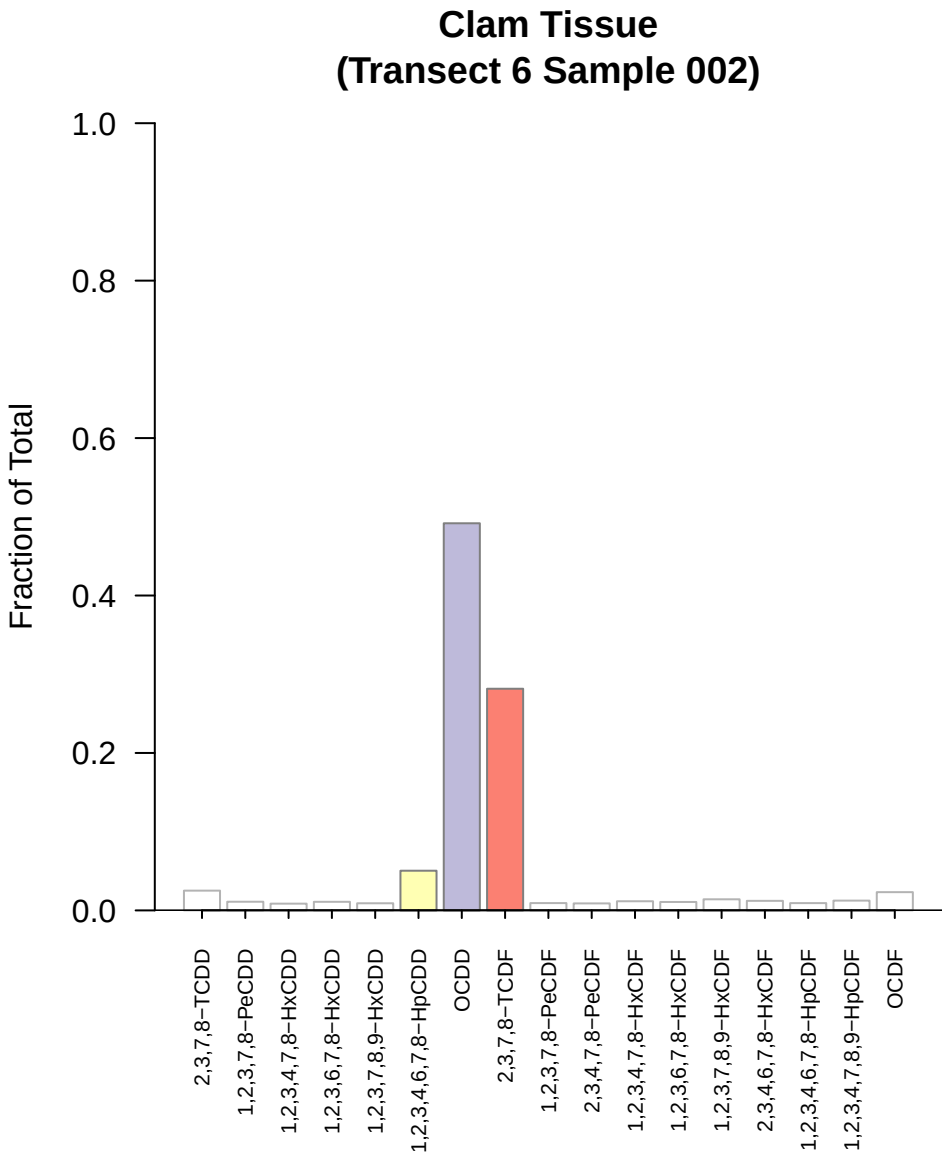

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

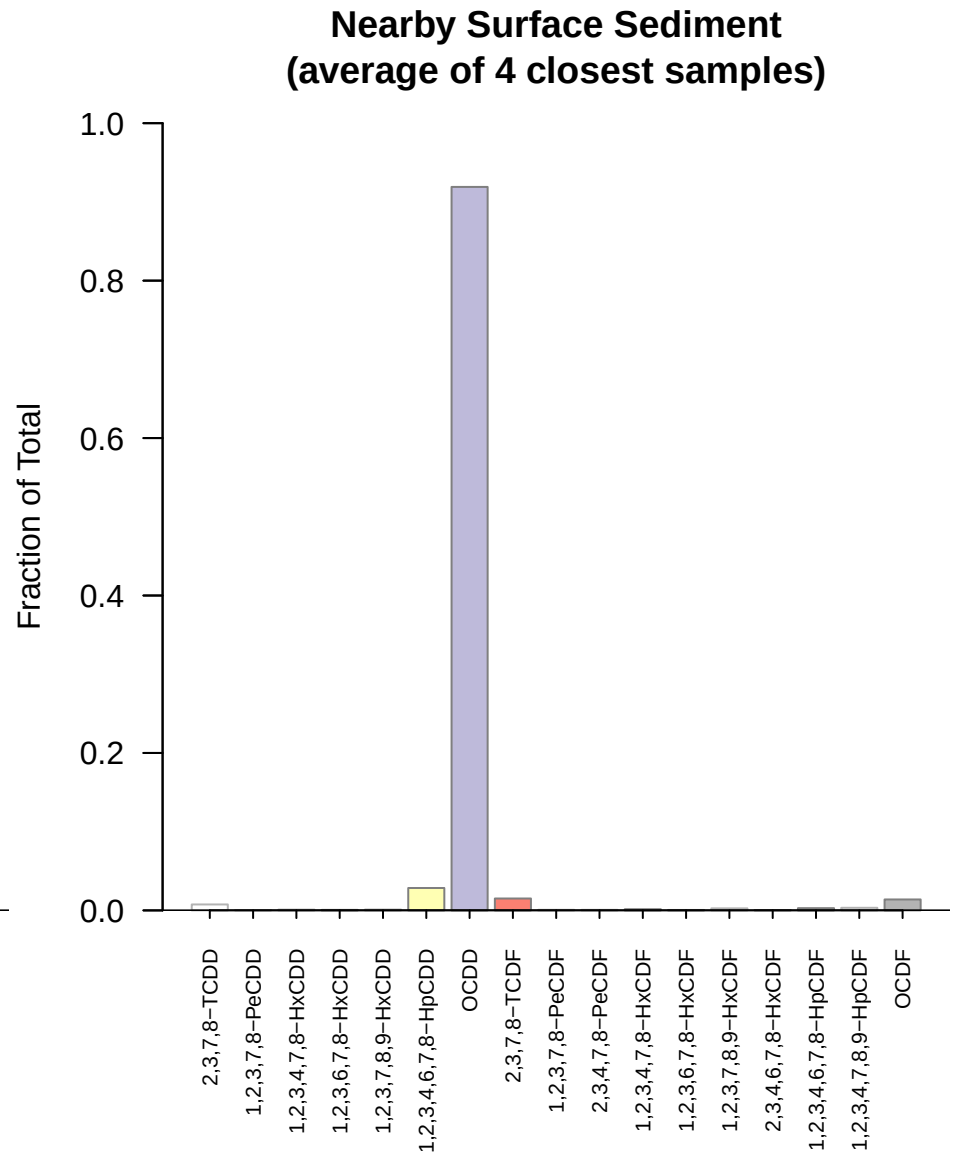

Clam Tissue
(Transect 5 Sample 005)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

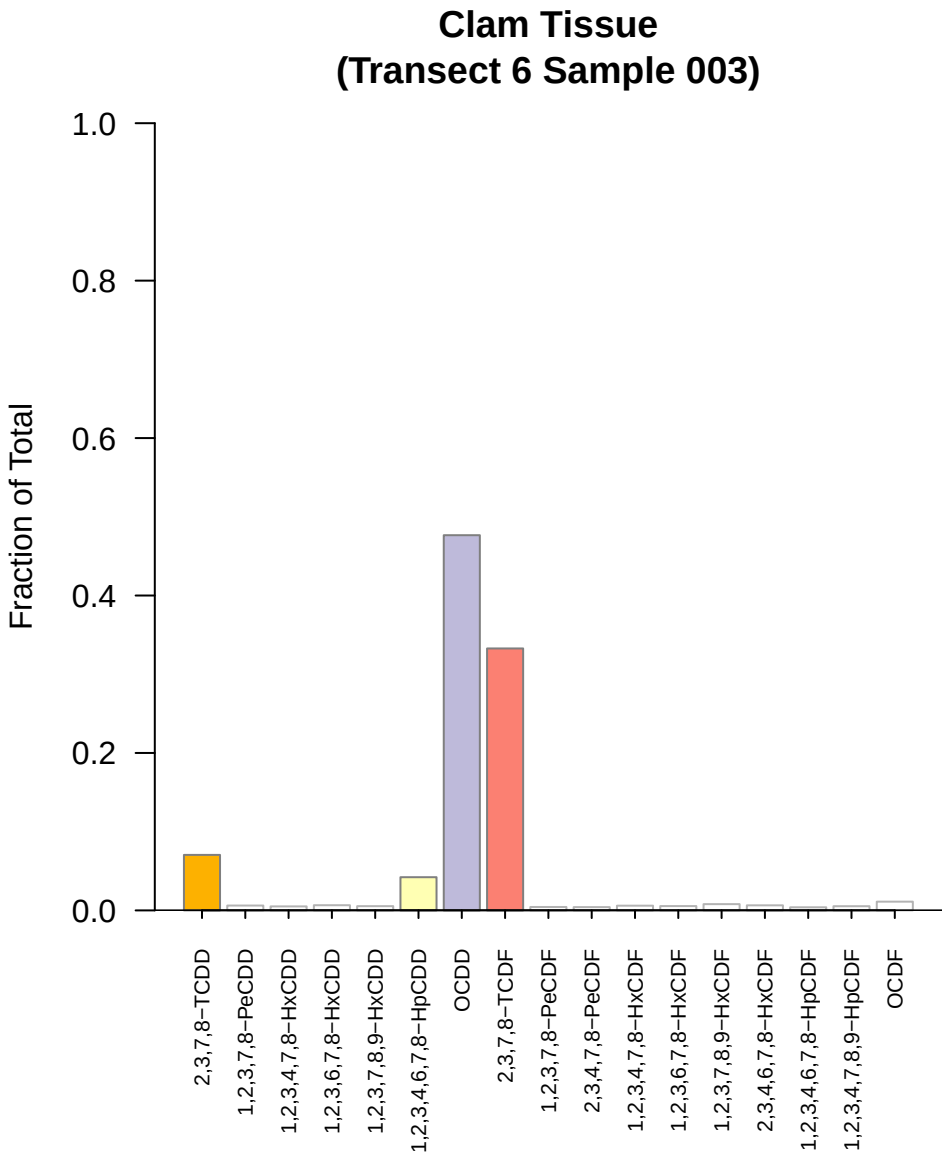

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

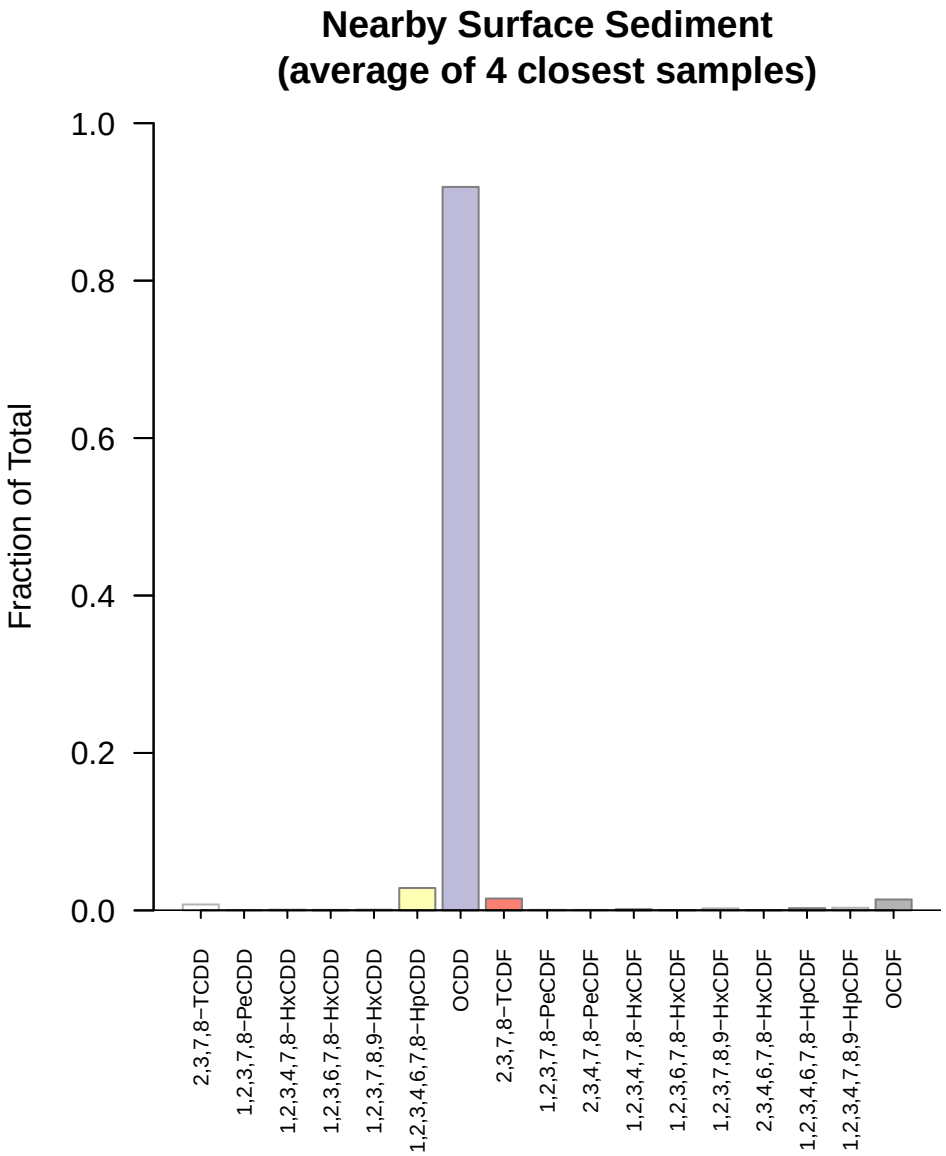

Clam Tissue
(Transect 6 Sample 001)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

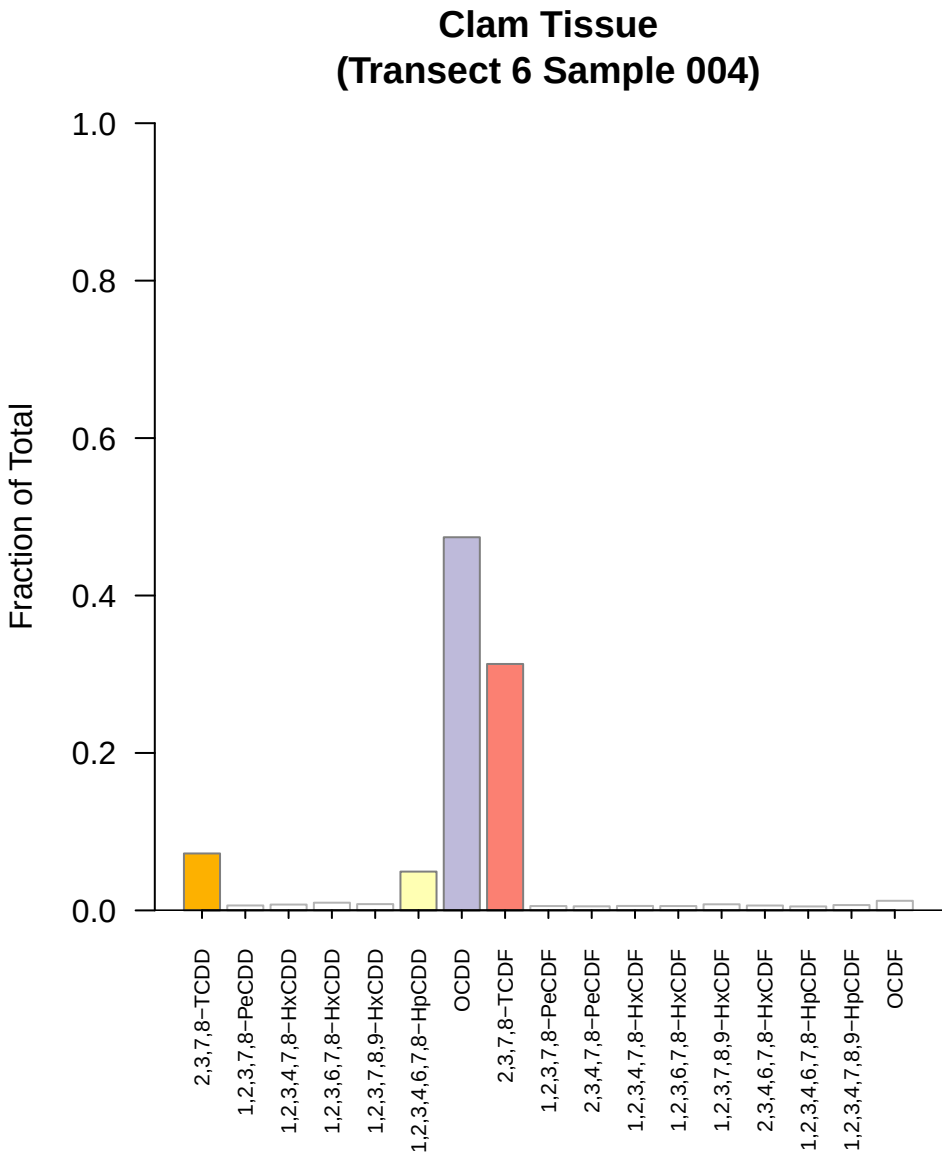

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

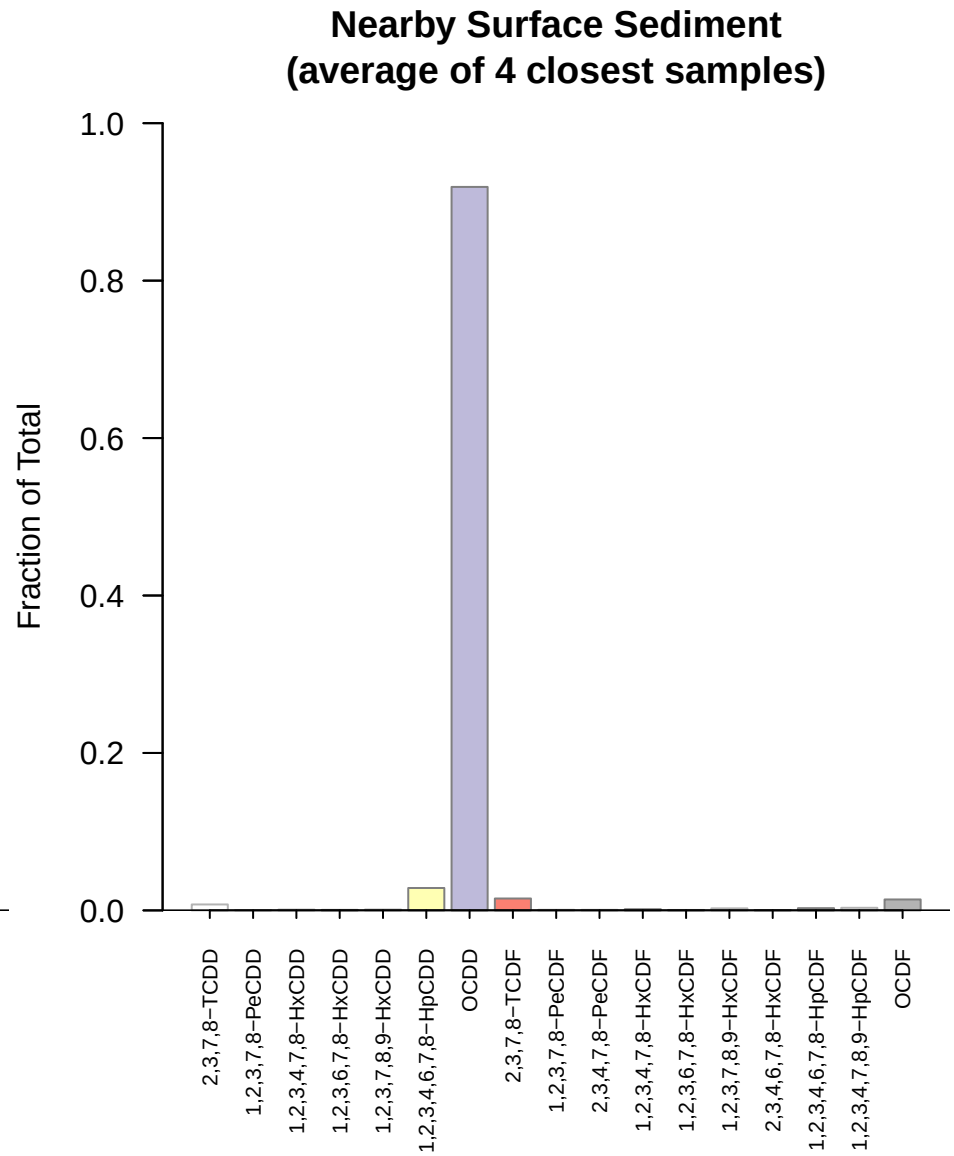

Clam Tissue
(Transect 6 Sample 002)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

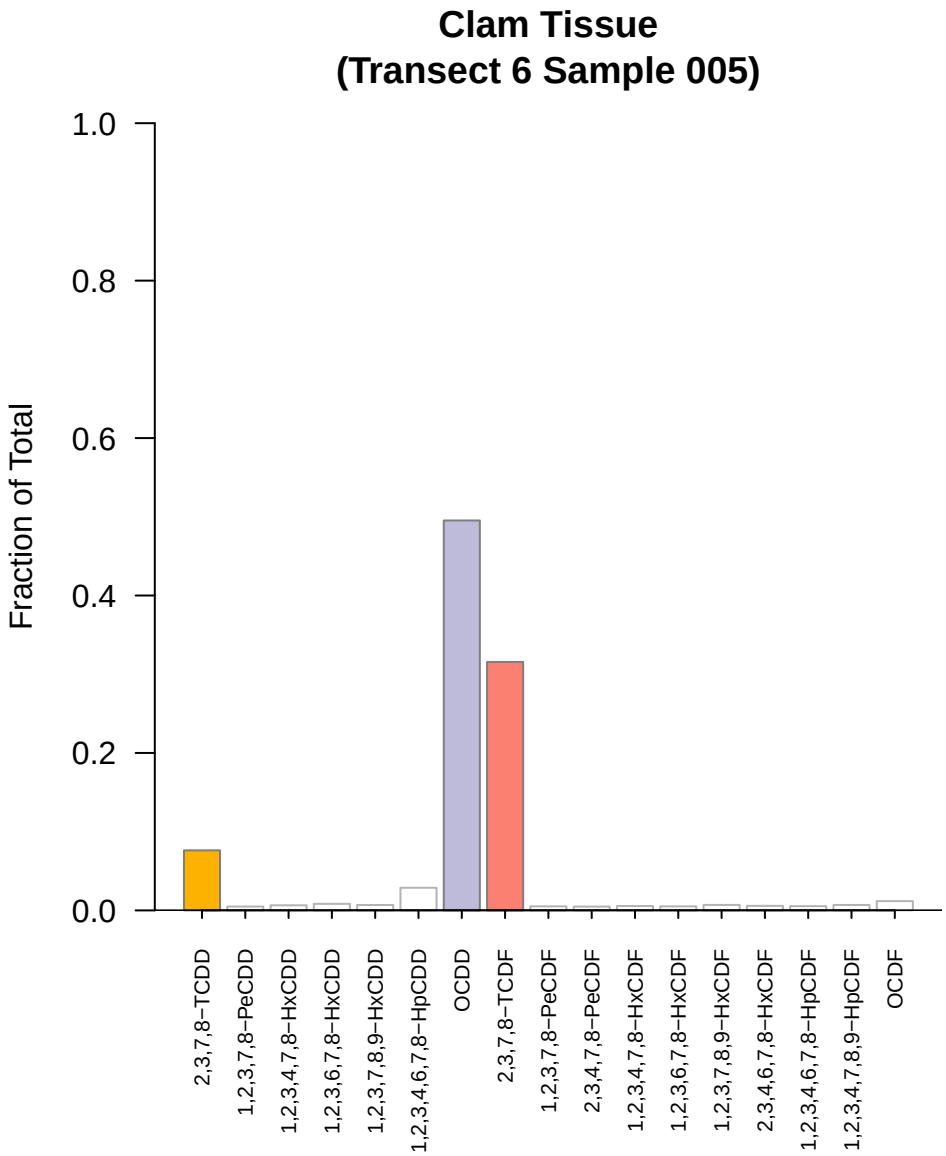

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

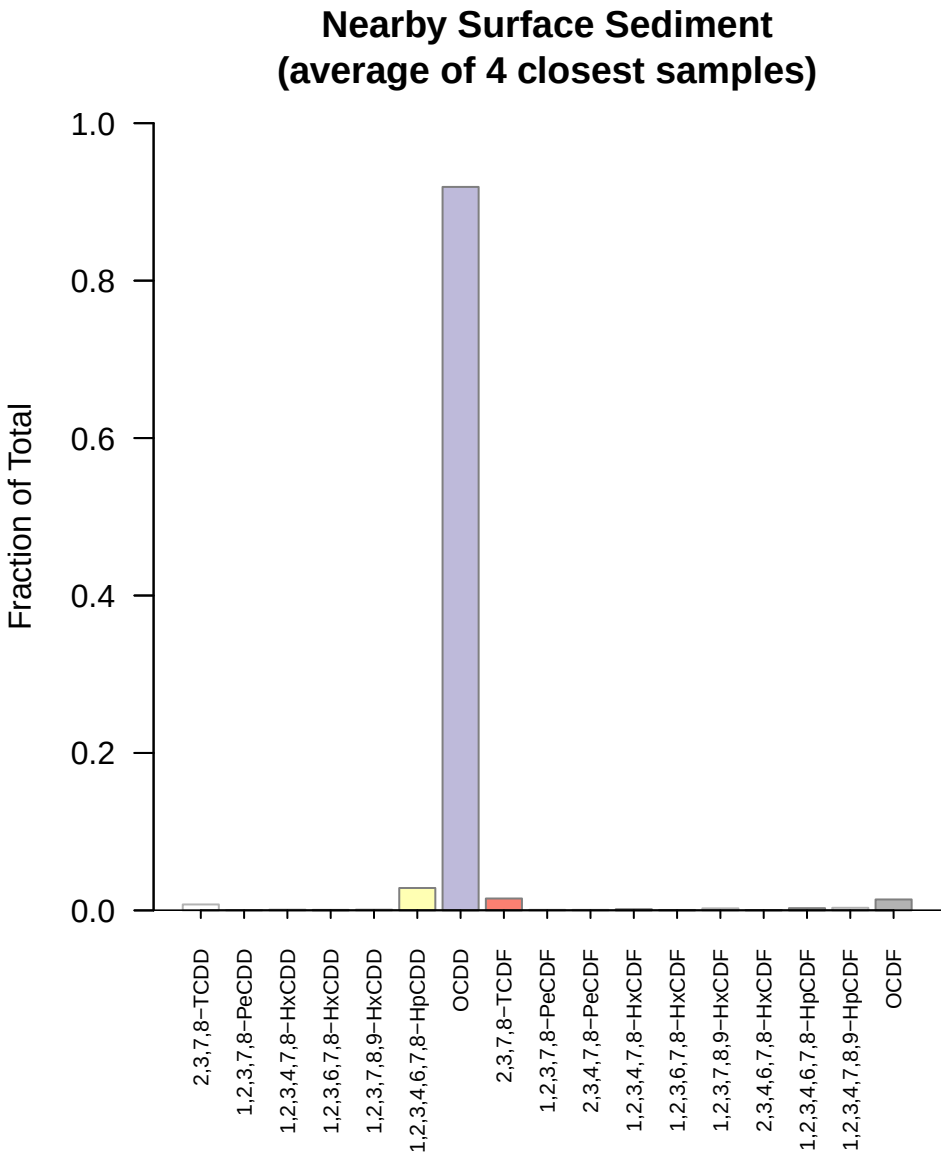

Clam Tissue
(Transect 6 Sample 003)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

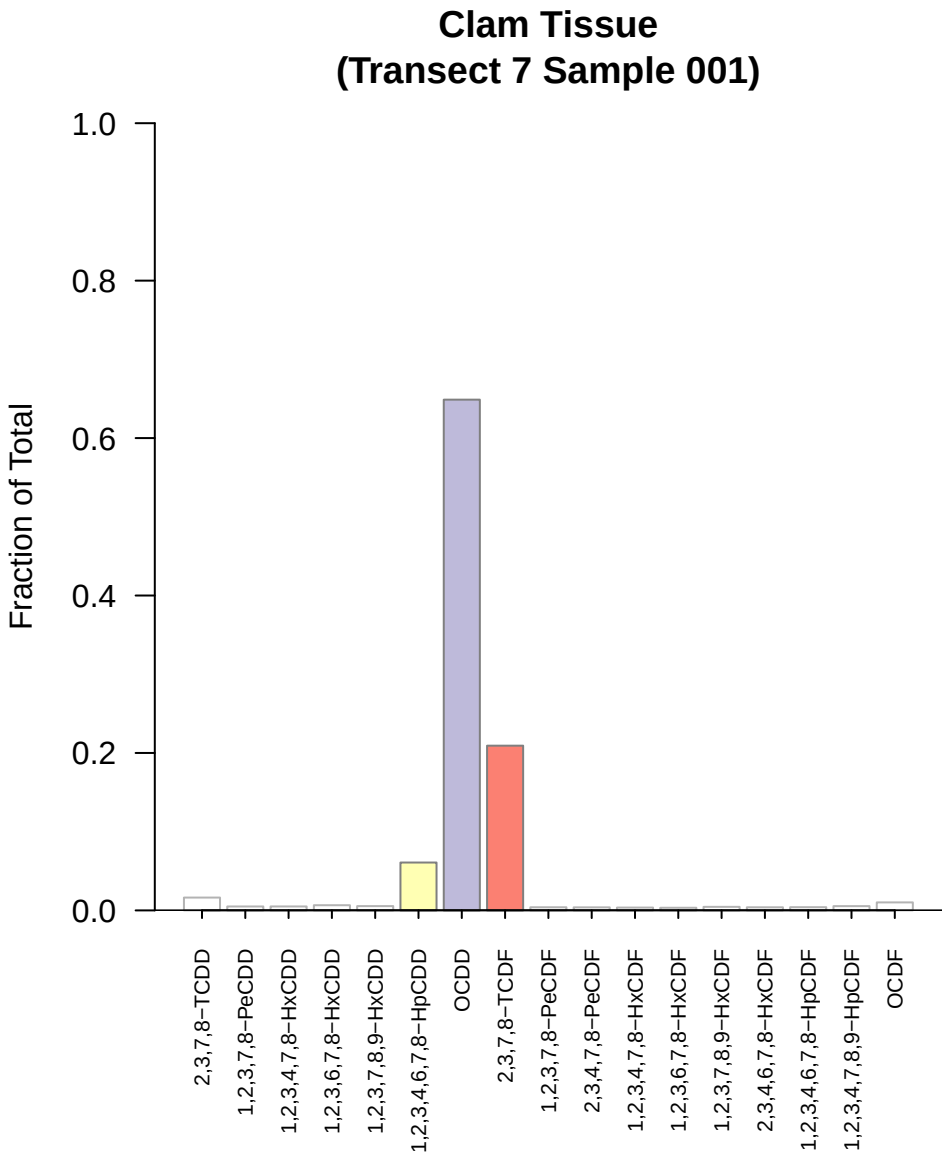

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

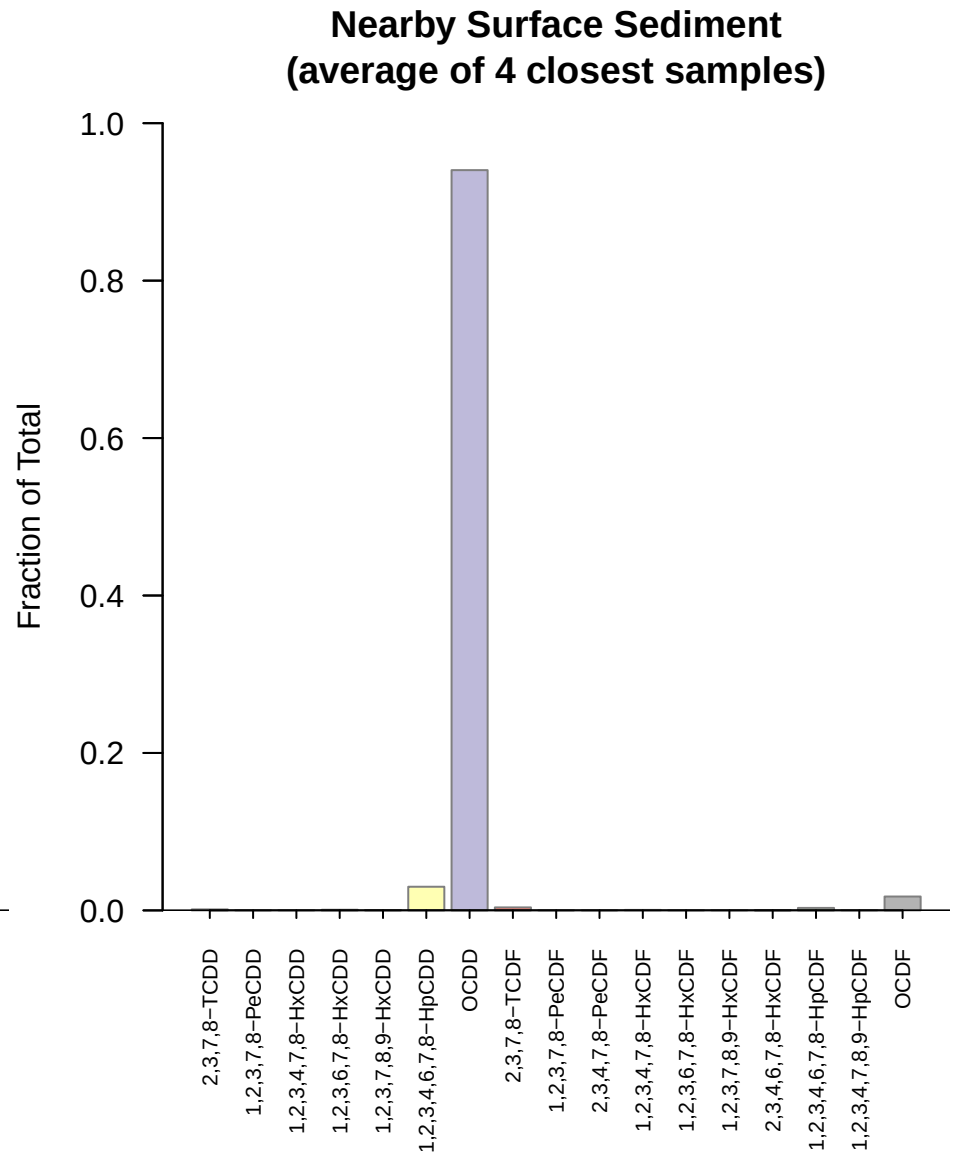

Clam Tissue
(Transect 6 Sample 004)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

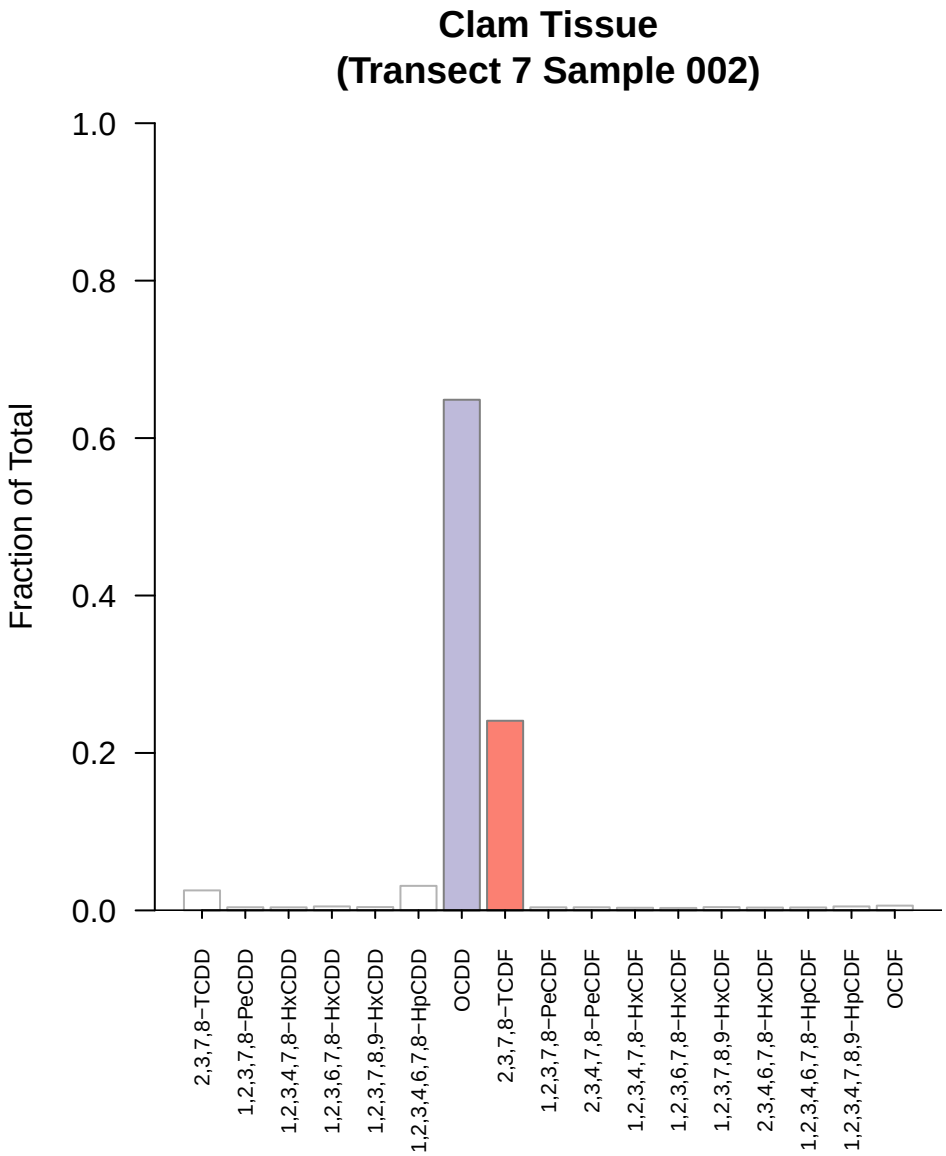

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

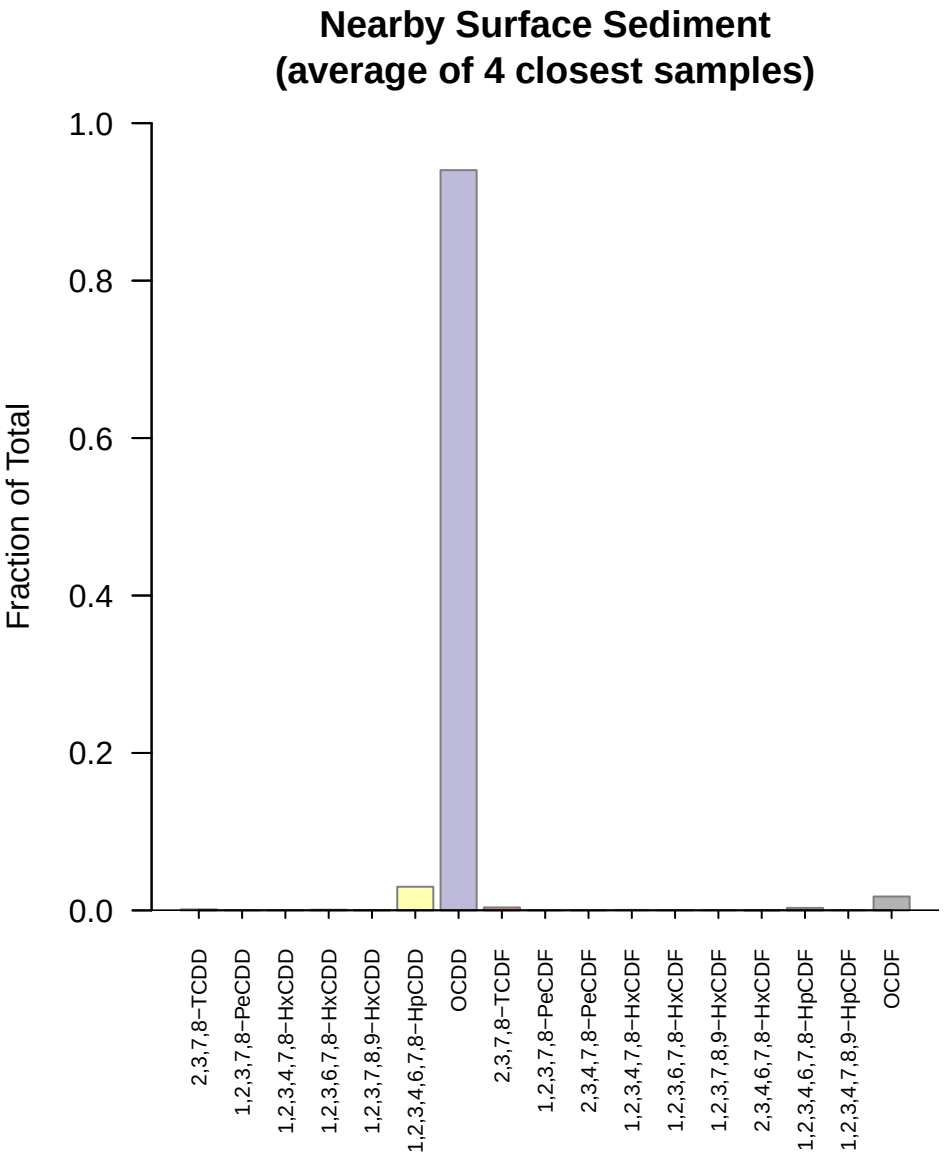

Clam Tissue
(Transect 6 Sample 005)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

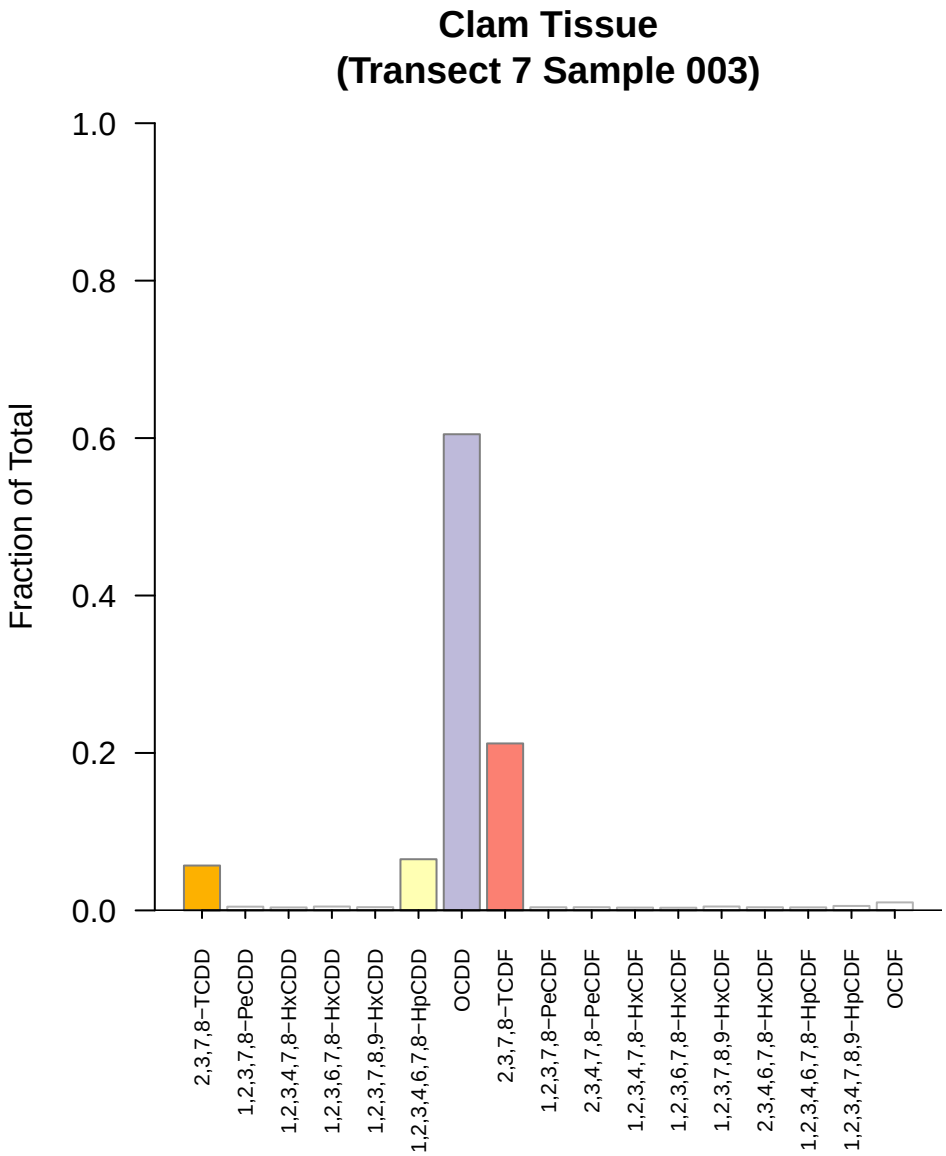

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

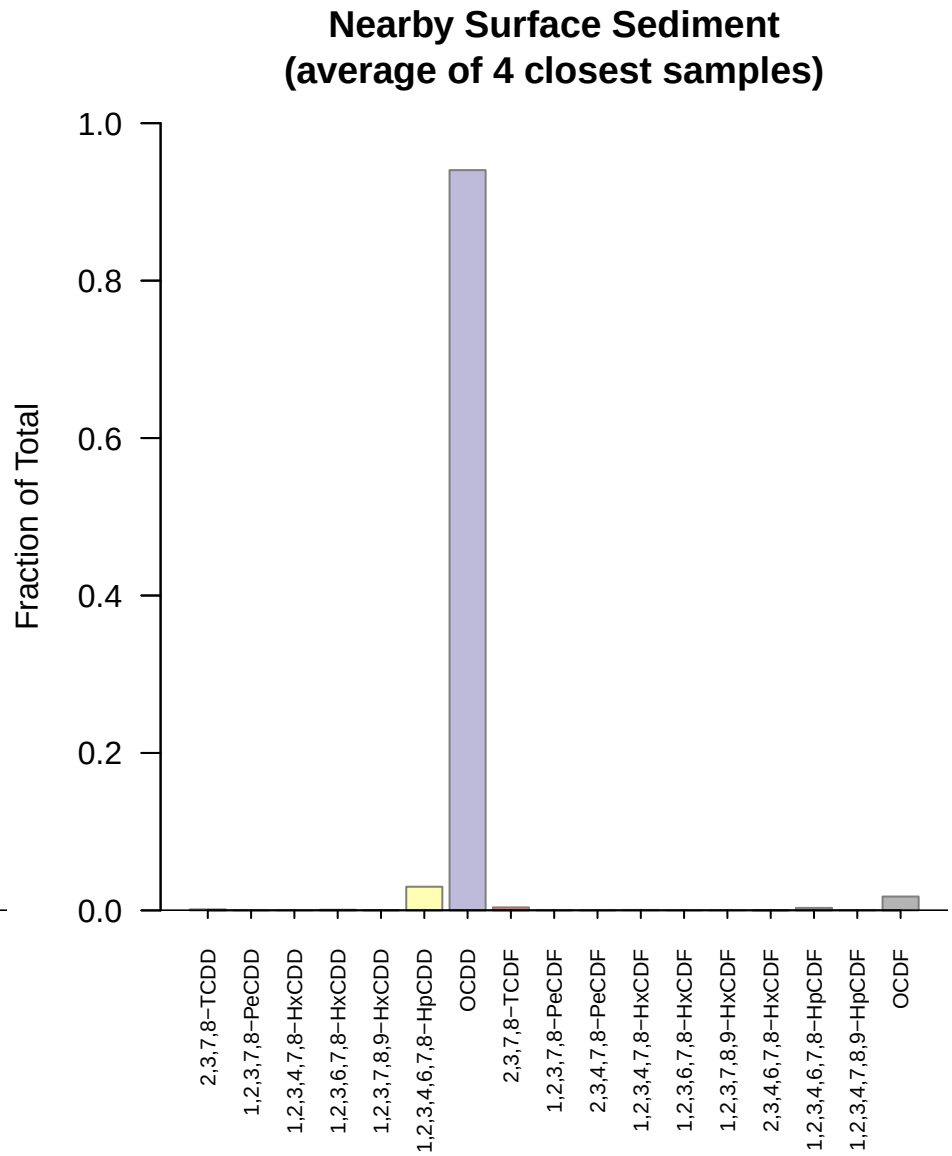

Clam Tissue
(Transect 7 Sample 001)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

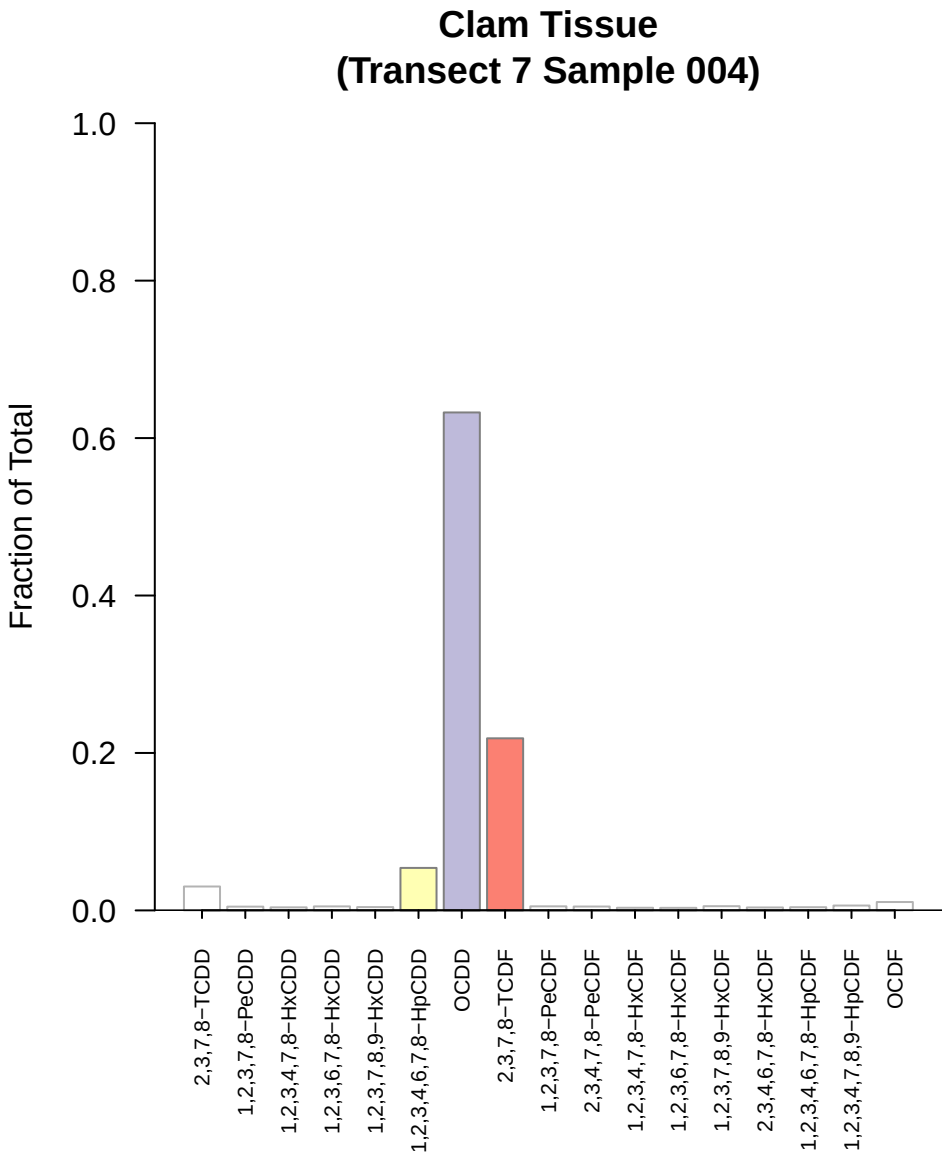

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

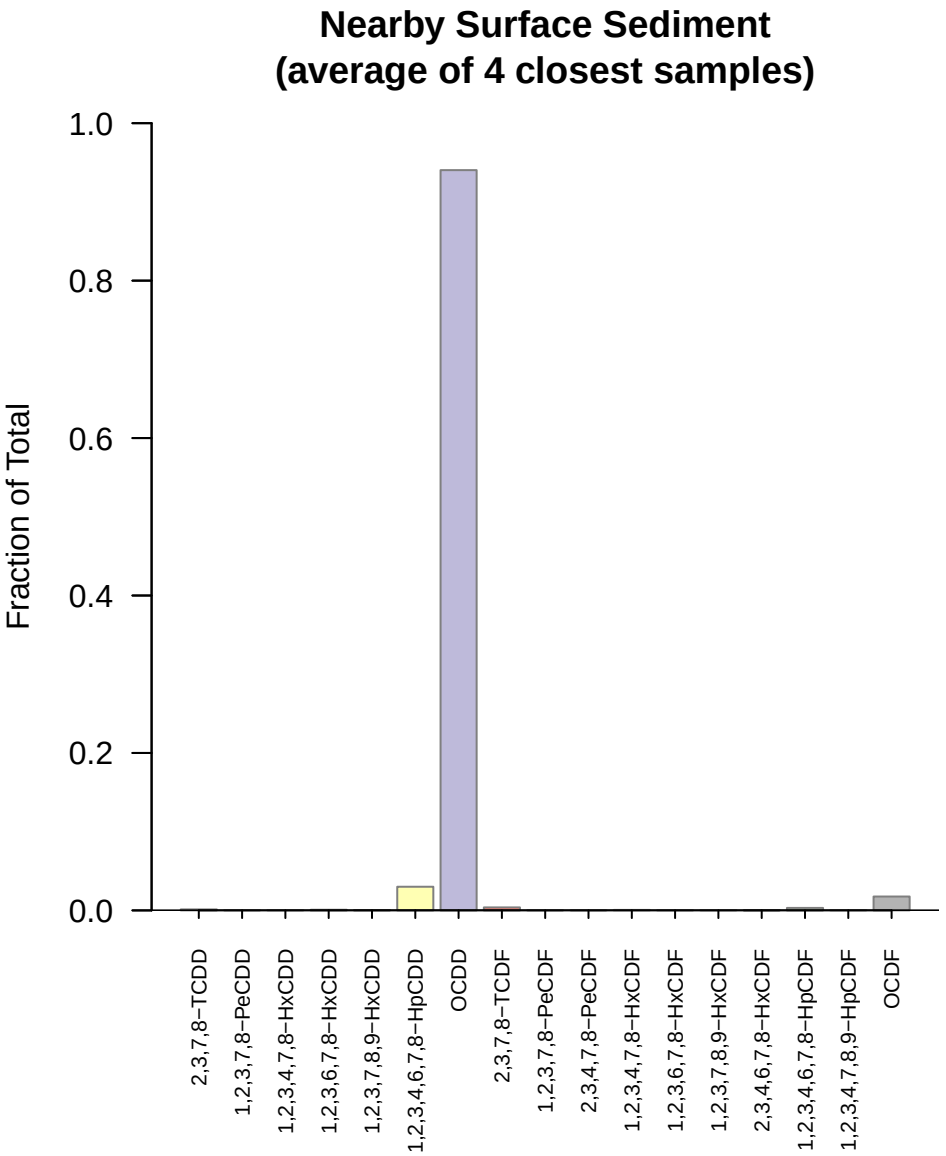

Clam Tissue
(Transect 7 Sample 002)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

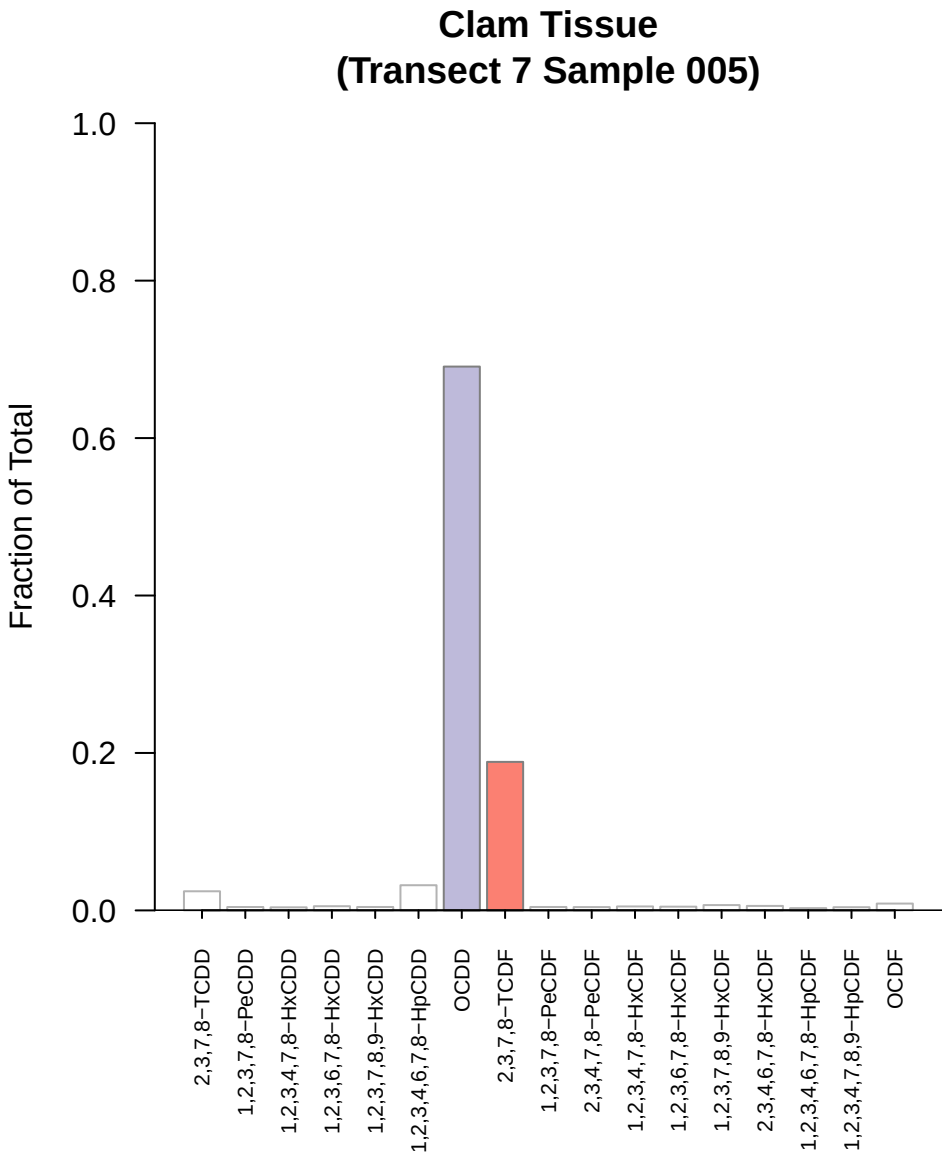

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

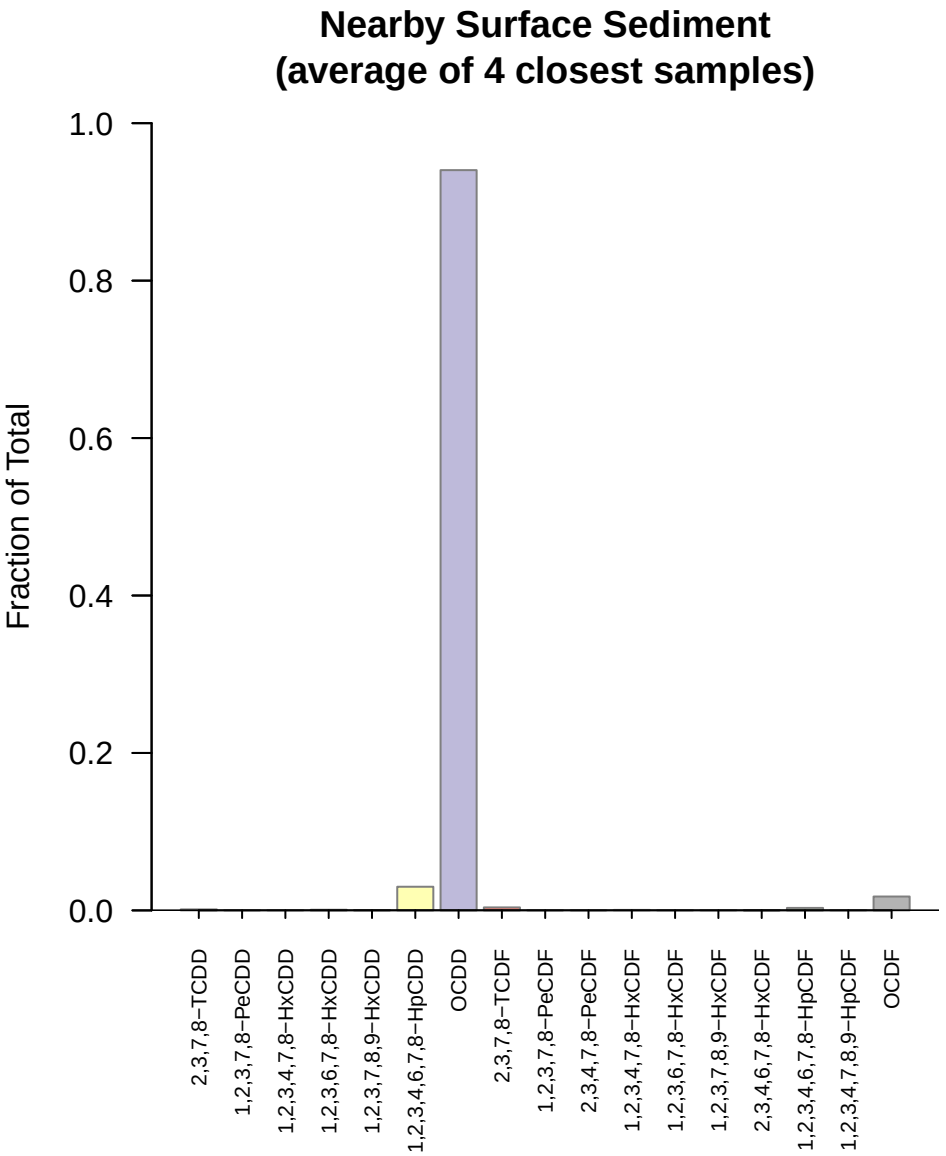

Clam Tissue
(Transect 7 Sample 003)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

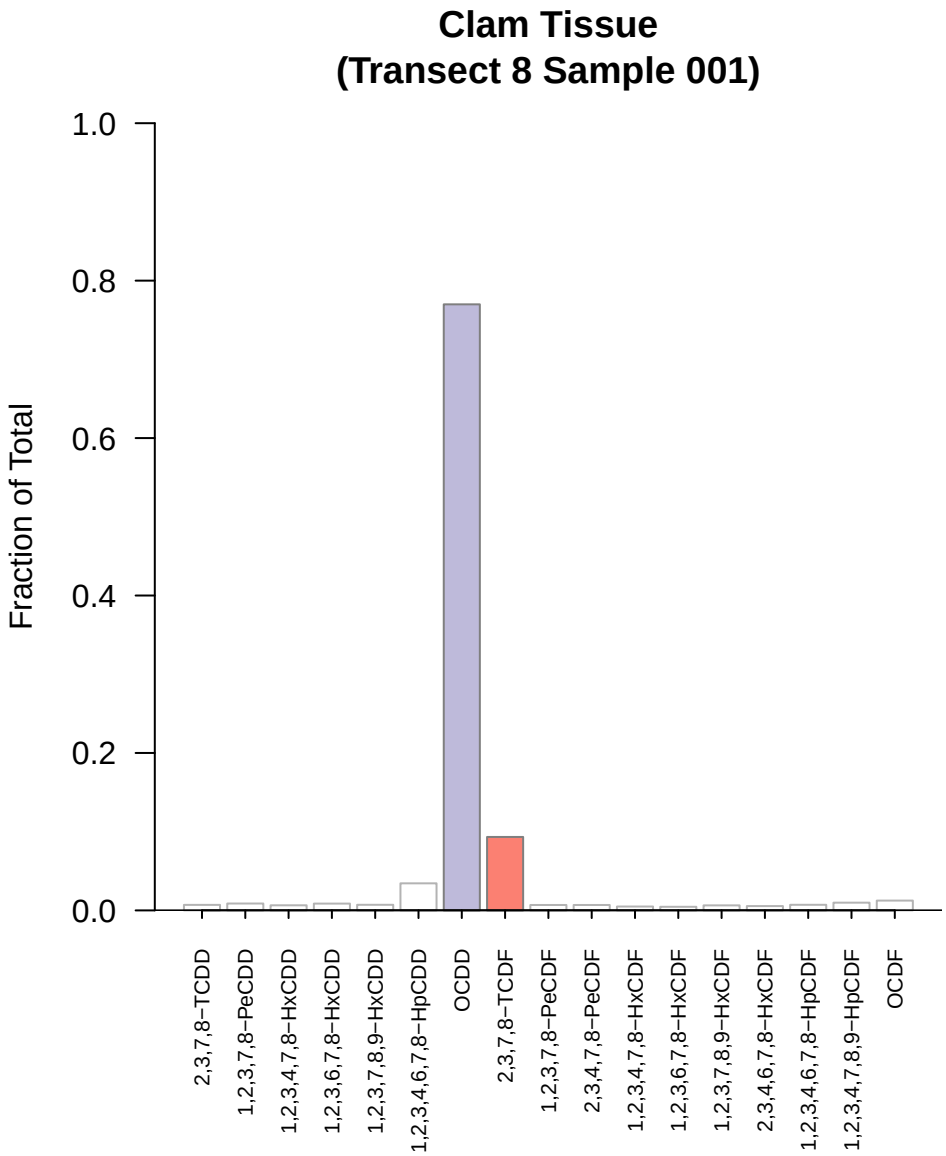

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


Clam Tissue
(Transect 7 Sample 004)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


Clam Tissue
(Transect 7 Sample 005)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


Clam Tissue
(Transect 8 Sample 001)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
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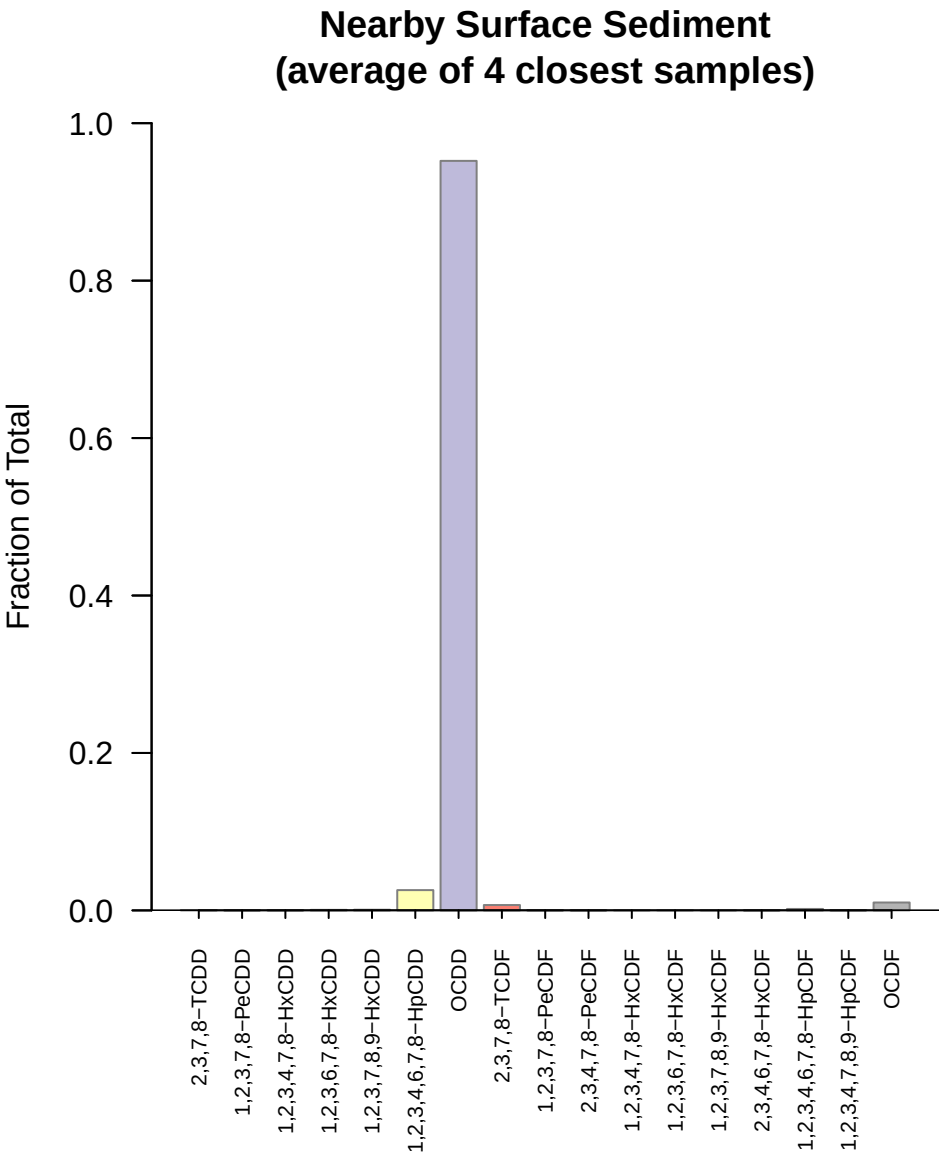
OCDF


Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
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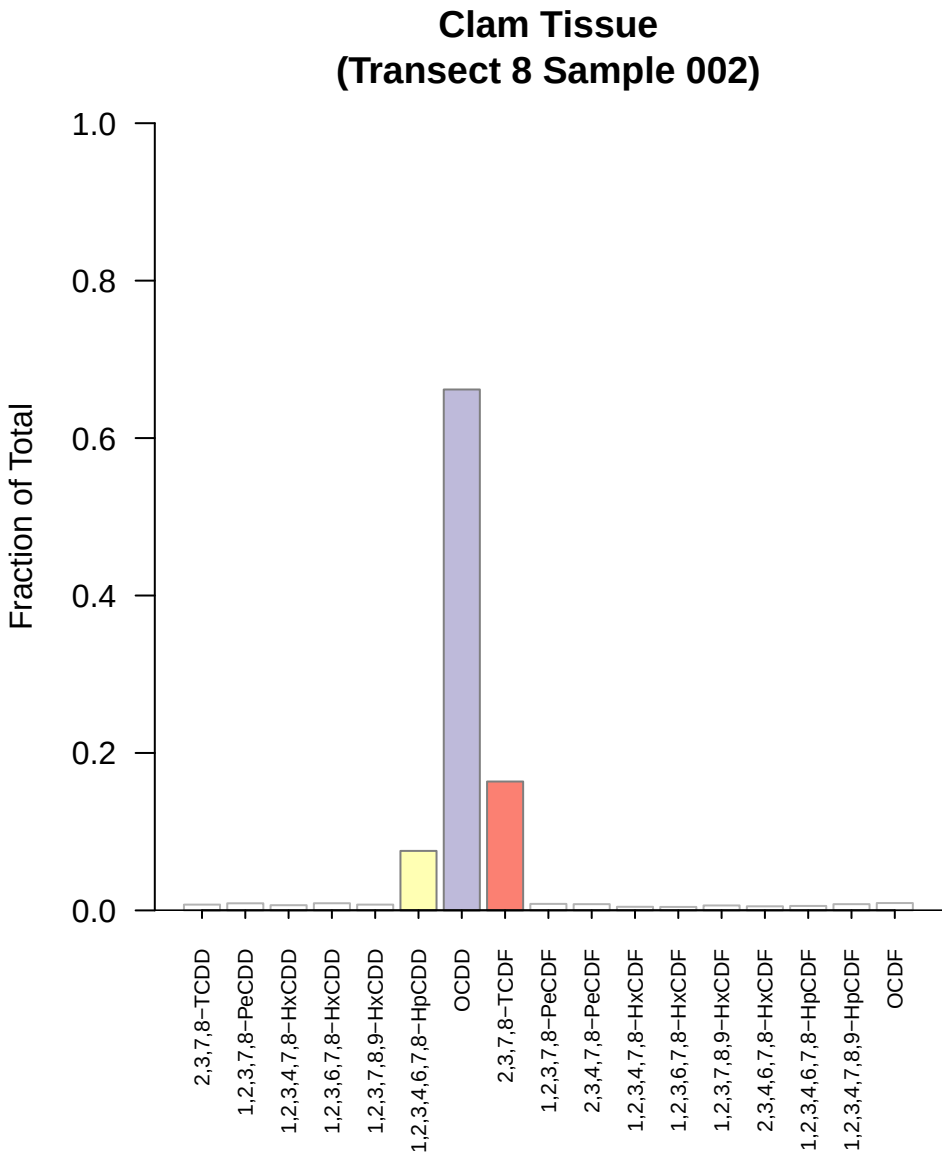
OCDF


Clam Tissue
(Transect 8 Sample 002)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
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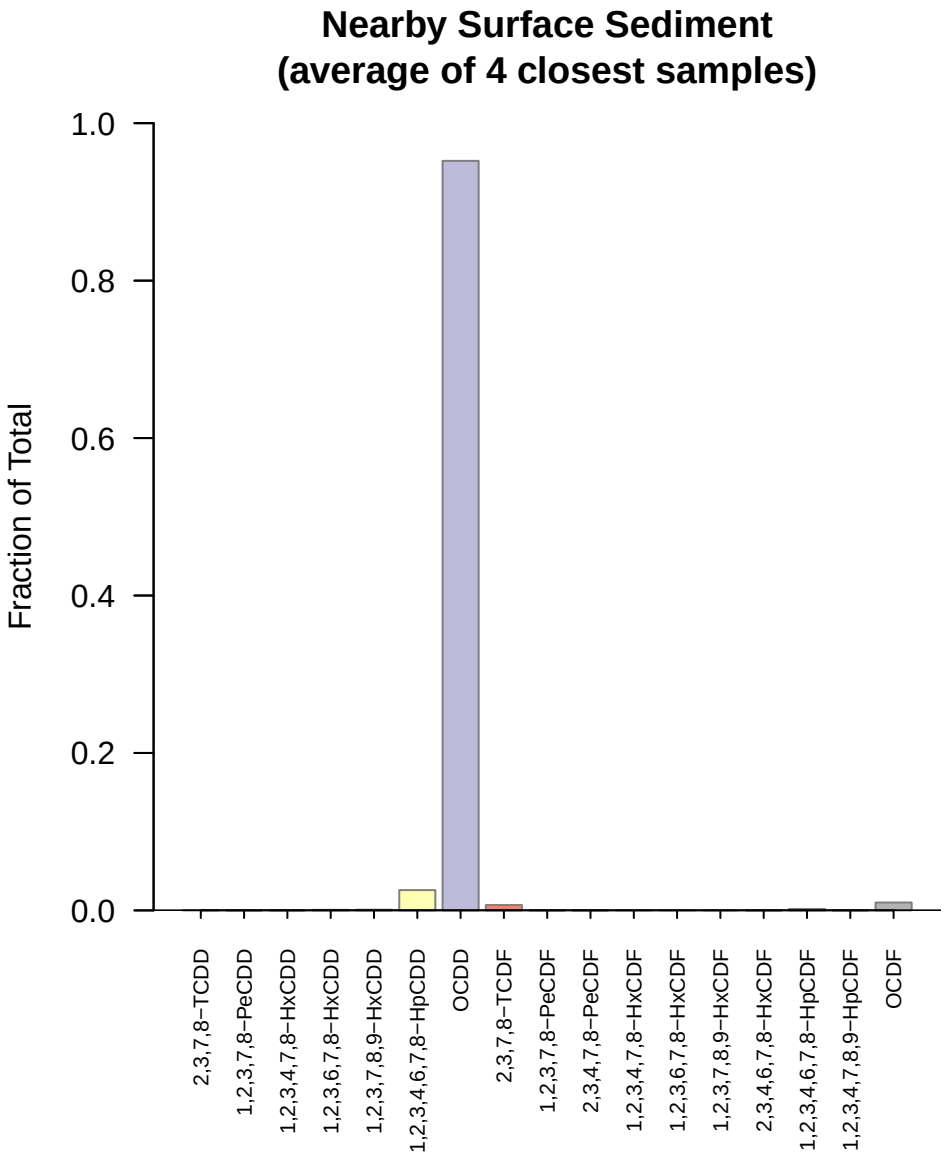
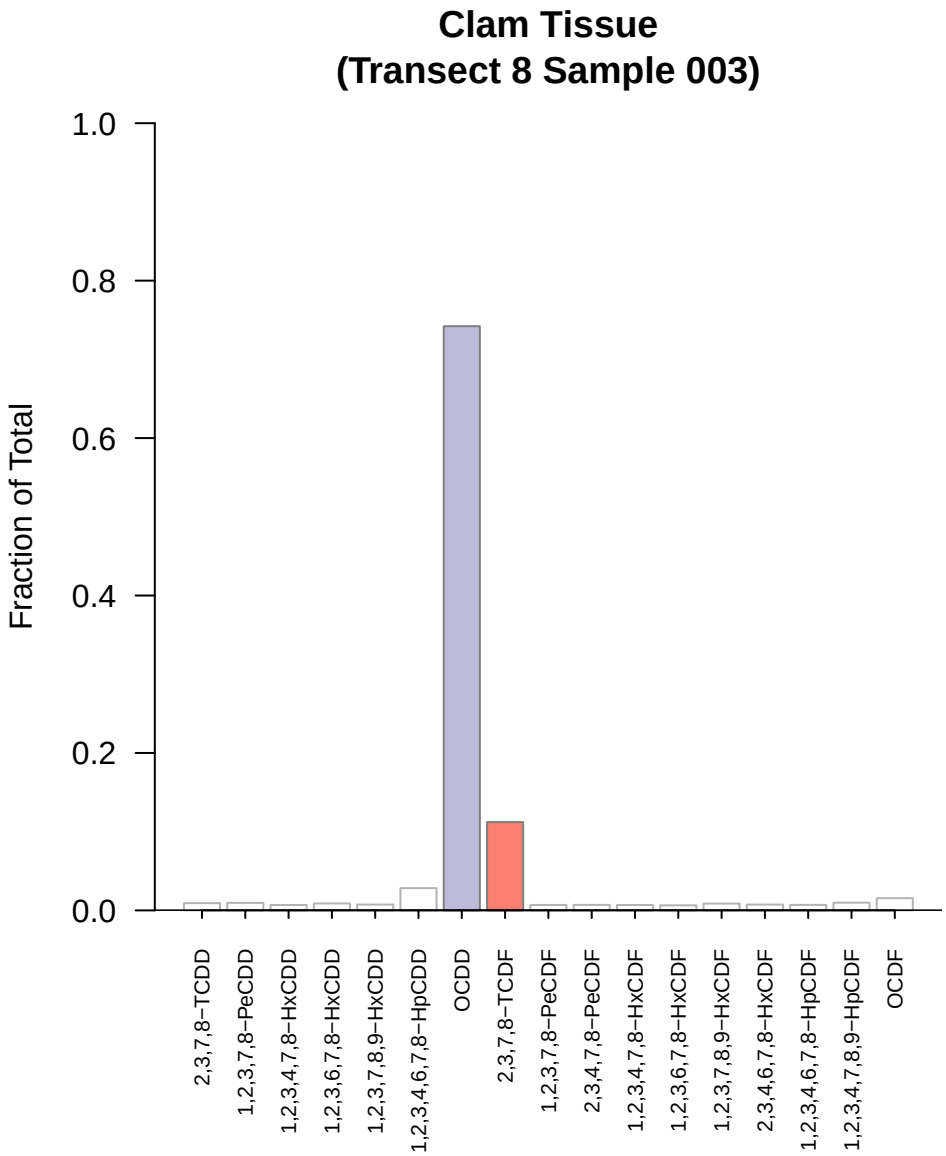
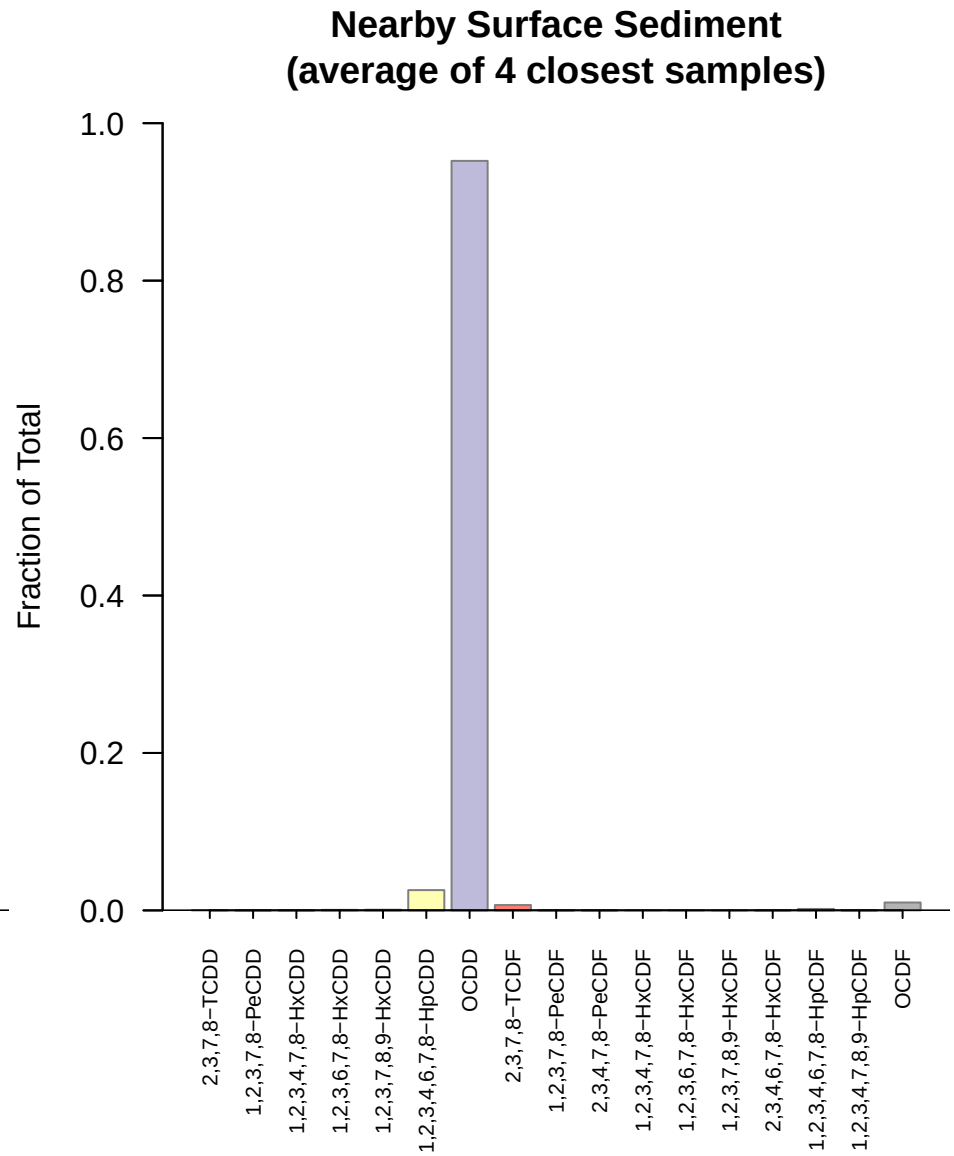
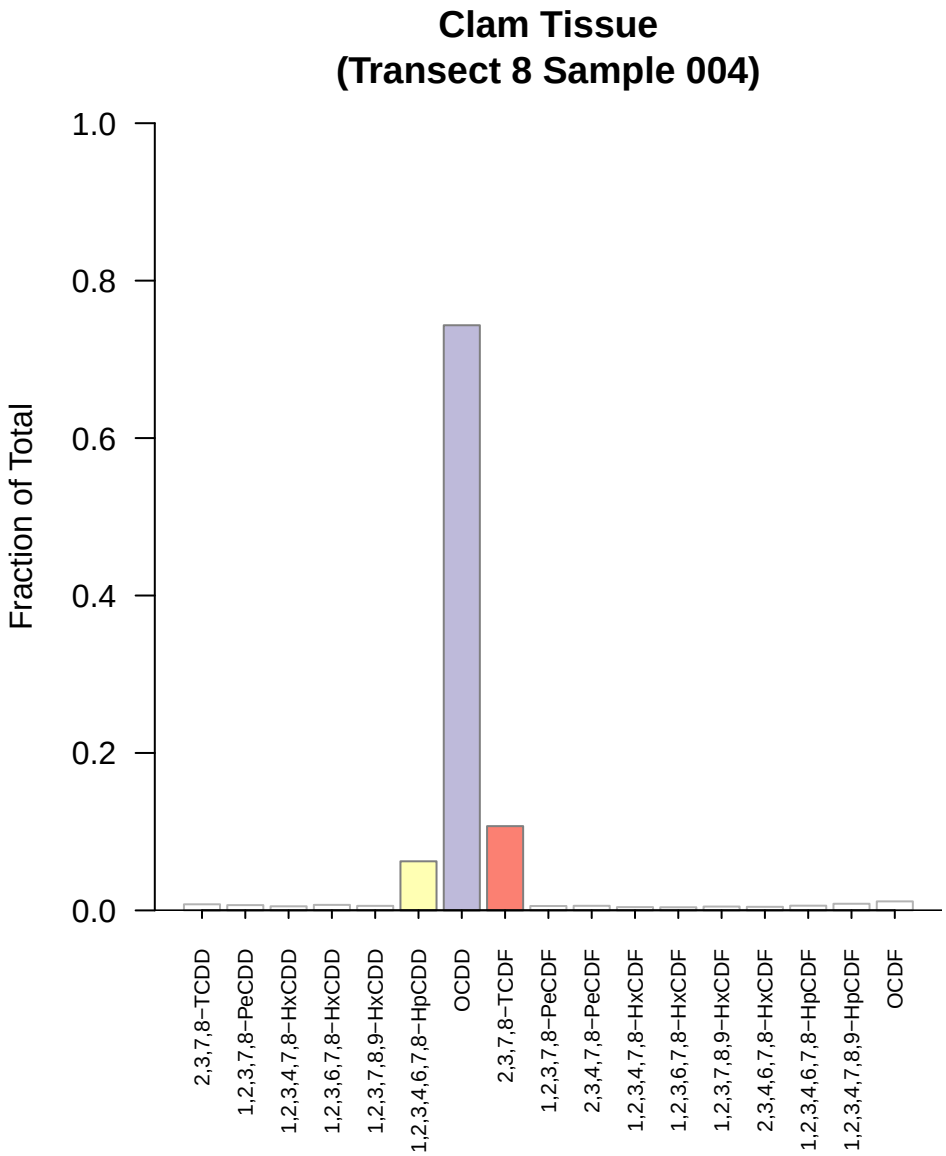
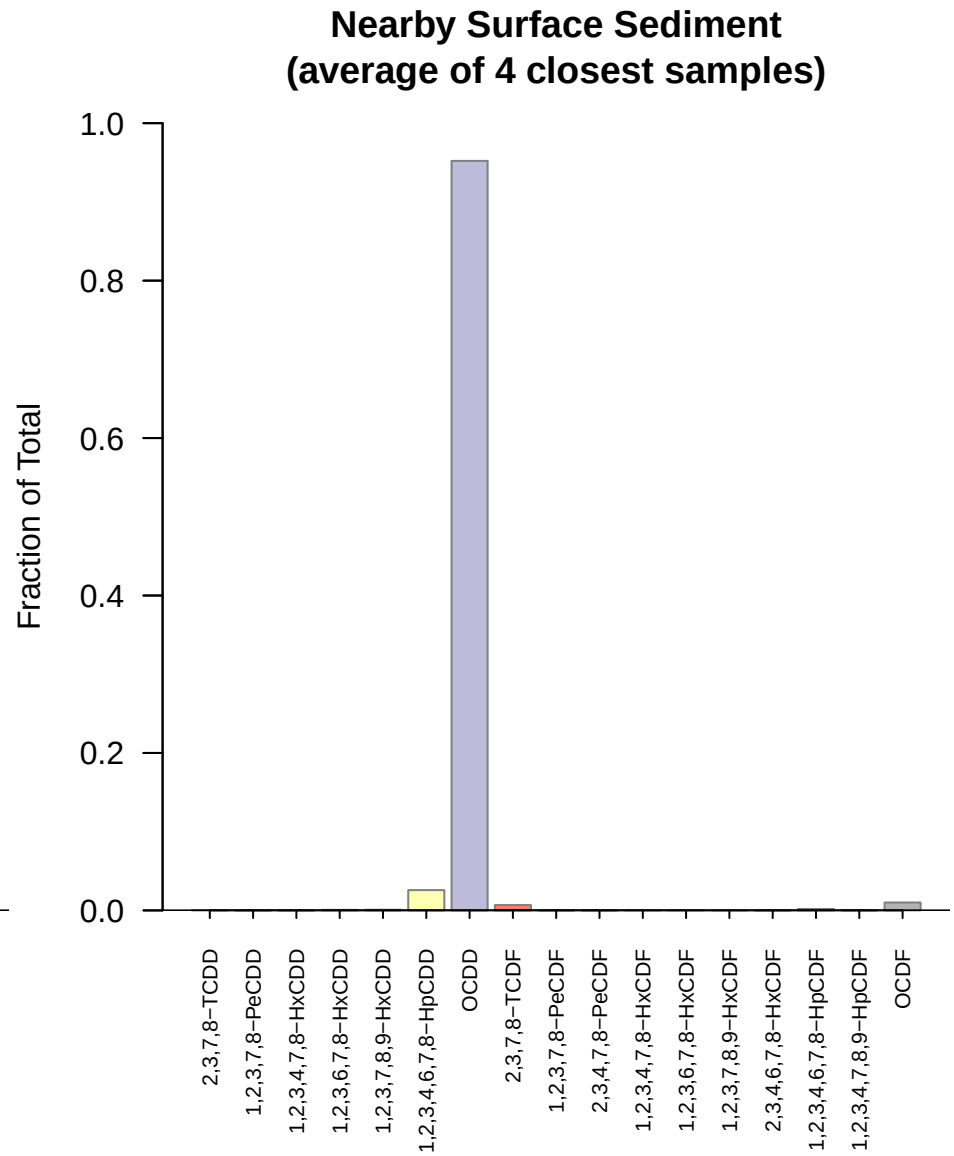
1,2,3,4,7,8,9−HpCDF
OCDF

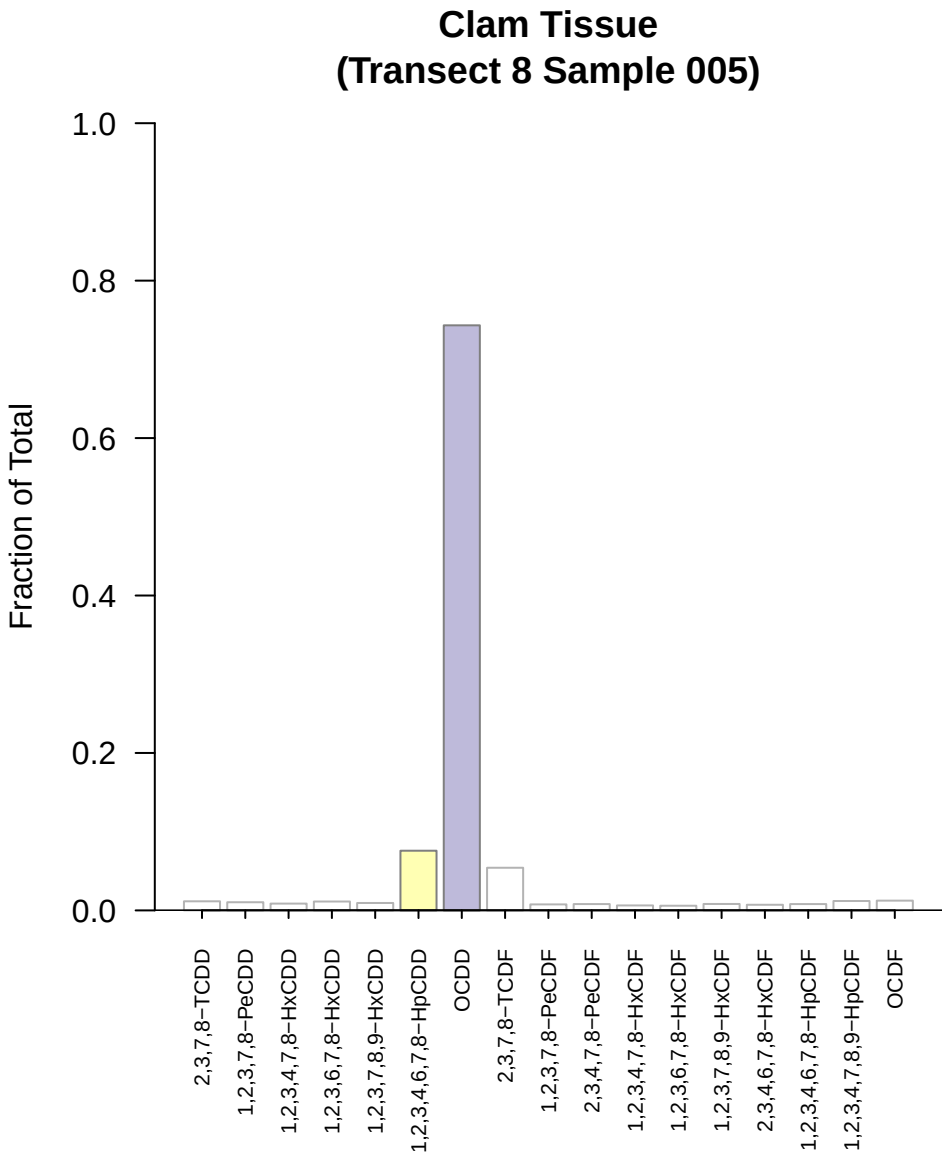

Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

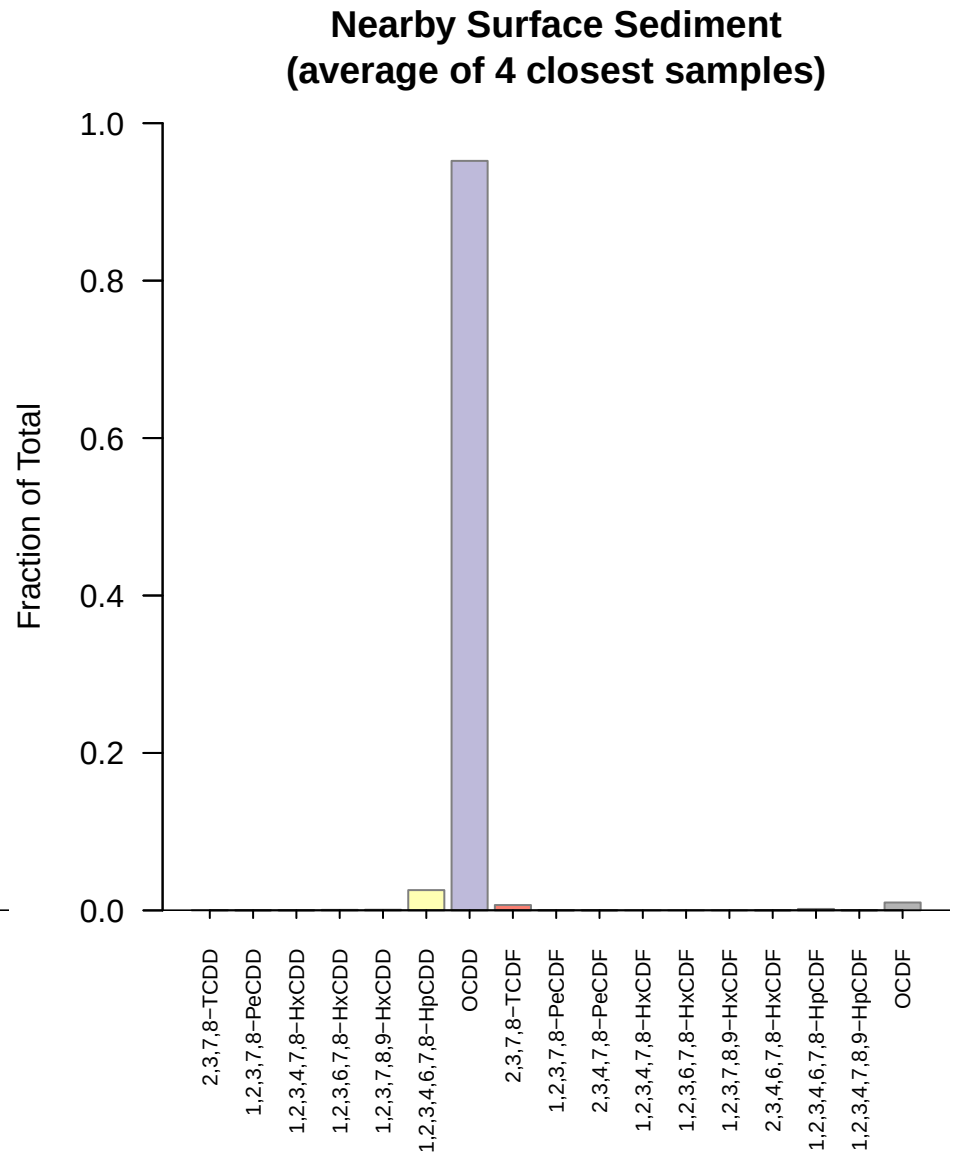

Clam Tissue
(Transect 8 Sample 003)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


Clam Tissue
(Transect 8 Sample 004)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


Clam Tissue
(Transect 8 Sample 005)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF


Nearby Surface Sediment
(average of 4 closest samples)
Fraction of Total
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

APPENDIX F
QUANTITATIVE ANALYSIS OF UNCERTAINTY IN UNMIXING RESULTS

INTRODUCTION

Unmixing analysis is a numerical tool that can be used to evaluate chemical mixtures in environmental samples, identifying and describing source types within samples of soil and sediment that are affected by more than one chemical source. This mathematical technique generates robust quantitative lines of evidence for characterizing source types within a mixture, and for estimating the relative contribution of each source type to samples collected from a site. As described in Section 6.1.5 of the RI/FS Work Plan, San Jacinto River Waste Pits Superfund Site (Anchor and Integral 2010), in Section 1.8.1.3 of the Soil Sampling and Analysis Plan (SAP) (Integral 2011), and in Section 1.10.1.2 of the Sediment (SAP) (Integral and Anchor QEA 2010), unmixing analysis was used to evaluate the proportional contribution of the paper mill wastes from the impoundments north of I-10 to the surrounding sediments. Similarly and for the same purpose, unmixing methods were also applied to the analysis of soil data. A description of the general principles underlying unmixing analysis and the documented use of this multivariate tool for the analysis of environmental samples, including its application at Superfund sites, were provided as Appendix C in the Soil SAP (Integral and Anchor QEA 2010). This appendix provides additional detail on the means of quantifying and describing uncertainty in the outputs of the selected unmixing model.

THEORETICAL FRAMEWORK OF UNCERTAINTY IN UNMIXING

One advantage of unmixing analysis is that it provides a robust means of quantifying the uncertainty of the model results because it is amenable to Monte Carlo-type methods. Unmixing analysis is built around an iterative procedure that uses a stochastic optimizer to find a local-minimum solution. This is a computational technique widely used to find an optimal, stable result from a set of possible results using random variables. In the most basic sense, the Monte Carlo method is used to provide the random starting points to the optimizer, perform the deterministic mathematical computations, and aggregate the results (Berg 2004; Rubinstein and Kroese 2008). By selecting a large enough domain of random inputs, the behavior of the metaheuristic optimizer can be studied over a large area of the solution space. Thus, the variance of the solution space is mapped using this Monte Carlo approach, which can then be used to quantify the uncertainty of the unmixing model results.

UNCERTAINTY ANALYSIS IN PRACTICE

Due to the random initial conditions and the iterative optimization algorithm driving unmixing, each time the model is run (on the same data with the same parameters), a slightly different result will be obtained. By repeating this process a large number of times, many different solutions can be observed, each slightly different from the others (creating the solution space). The distribution of solutions that is defined in this way becomes the basis for calculating exact confidence intervals around the unmixing model results in terms of standard probabilistic statistics. The best model is chosen out of this distribution based on its accuracy in predicting the observed data (as determined by the minimum residual), and the range of possible results is characterized by calculating tolerance limits on the entire distribution of simulated solutions. This is conceptually, though not mathematically, analogous to the confidence intervals around a classical regression line.

INTERPRETATION OF RESULTS FOR THE SJRWP SOIL AND SEDIMENT DATA

The two end members (EMs) produced by the best fit model for the analysis presented in the Preliminary Site Characterization Report (PSCR) are shown in Figure 1. As detailed in the main text, EM1 shows a pattern dominated by OCDD; this pattern is consistent with patterns in a variety of "urban background" type sources, such as diesel exhaust, wastewater treatment plan effluents, and stormwater runoff. EM1 is therefore interpreted to represent the dioxin and furan pattern of urban background. The pattern of EM2 is dominated by the tetra congeners, consistent with characteristics of the samples collected directly from the wastes within the 1966 perimeter of the northern impoundments. The unmixing uncertainty analysis presented here establishes the 95 percent tolerance limits with 95 percent coverage (95/95UTL and 95/95LTL, the upper and lower tolerance limits, respectively) for the estimated fractional contribution of each of the two EMs for each soil and sediment sample (PSCR, 6-7). These limits represent the 95 percent probability range within which unmixing analysis results will fall 95 percent of the time (an $\alpha = 0.05$ confidence level). The results in Table 6-7 of the PSCR show the proportion of each sample attributable to each EM, as well as the proportion which could not be explained by the unmixing model (i.e., residual). For each sample, the range of uncertainty is also shown using the range of solutions observed in the uncertainty analysis and quantified as the 95/95LTL and 95/95UTL.

The interpretation of these results and their relationships to the raw data are illustrated through the use of several representative stations are presented (Figures 2 through 4). Each of these figures shows:

- A dioxin and furan fingerprint for each sample
- The associated congener concentrations in each sample
- The full range of possible fractional contributions from each of the two EMs from the uncertainty analysis (i.e., 100 percent of the range of results is shown on the graphics)
- Statistical tolerance limits for the range of possible contributions from each of the two EMs to the sample
- Statistical tolerance limits for the full range of model residuals for the sample
- The estimated proportional contribution of each EM from the best-fit model.

Together, these uncertainty metrics describe the entire possible range of unmixing solutions for the data set used. They provide a quantitative basis for selection of the model with the best fit to the data.

From the range of possible contributions of each EM (or source type) to each sample, one can derive the worst-case situation for any given sample (i.e., find the maximum possible proportion for each sample consisting of EM2, or the waste originating in the impoundments), as well as the best case (the lowest possible contribution from EM2). However, the one model which had the best fit to the measured data out of all the models evaluated during the uncertainty analysis (shown as the red line in Figure 4) represents the best estimate of the actual fraction contributed by each of the end members to each sample.

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Rubinstein, R.Y. and D.P. Kroese, 2008. *Simulation and the Monte Carlo Method* 2nd ed. Hoboken, NJ: Wiley & Sons. 345pp.

FIGURES

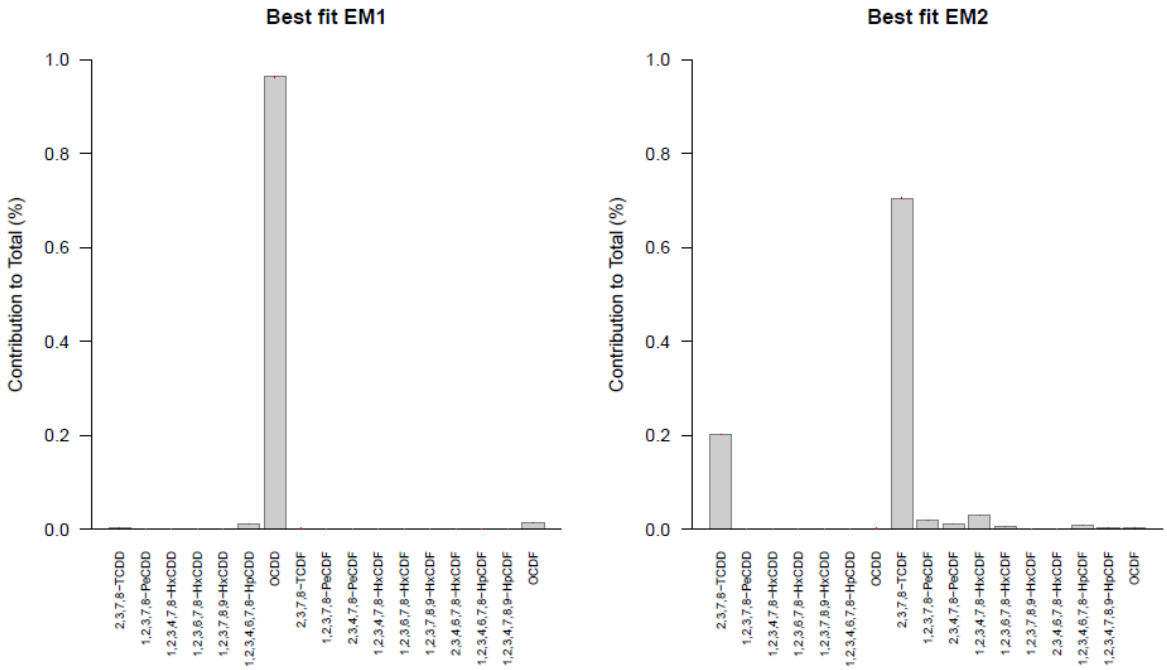
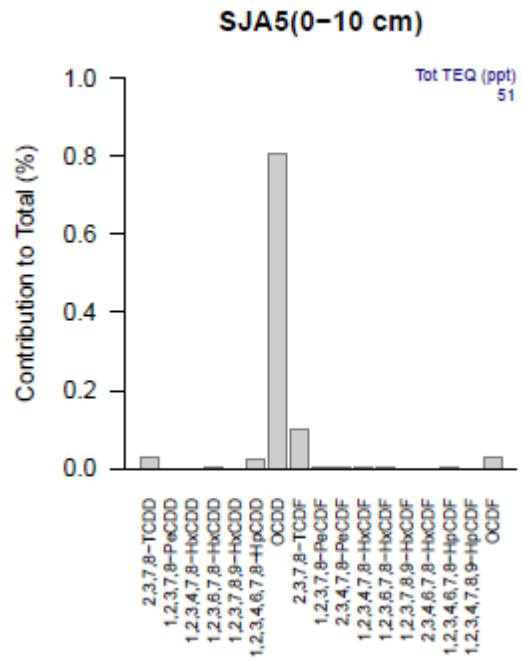
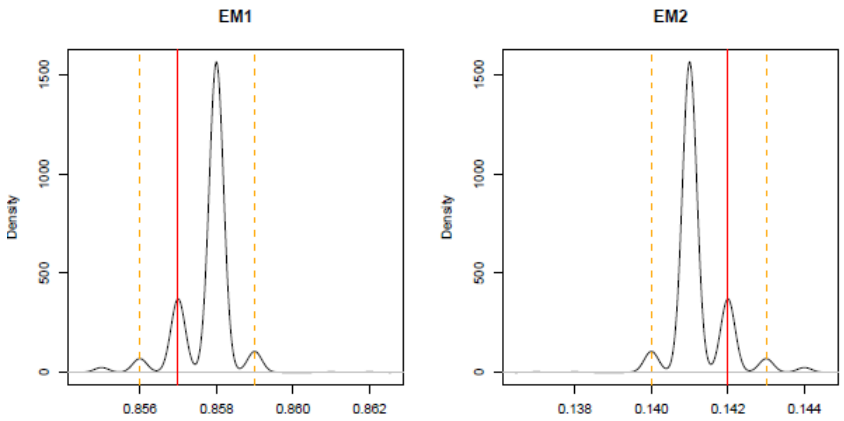

Best fit EM1
Contribution to Total (%)
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF
Best fit EM2
Contribution to Total (%)
1.0
0.8
0.6
0.4
0.2
0.0
2,3,7,8−TCDD
1,2,3,7,8−PeCDD
1,2,3,4,7,8−HxCDD
1,2,3,6,7,8−HxCDD
1,2,3,7,8,9−HxCDD
1,2,3,4,6,7,8−HpCDD
OCDD
2,3,7,8−TCDF
1,2,3,7,8−PeCDF
2,3,4,7,8−PeCDF
1,2,3,4,7,8−HxCDF
1,2,3,6,7,8−HxCDF
1,2,3,7,8,9−HxCDF
2,3,4,6,7,8−HxCDF
1,2,3,4,6,7,8−HpCDF
1,2,3,4,7,8,9−HpCDF
OCDF

Figure 1

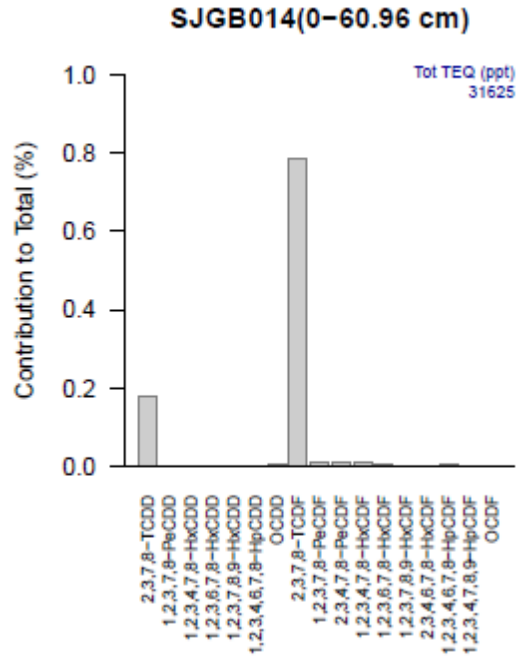


Analyte	Concentration (ng/kg dw)	
1234678HepDioxin	29.1	
1234678HepFuran	3.98	J
1234789HepFuran	0.805	J
123478HexDioxin	0.31	J
123478HexFuran	4.52	J
123678HexDioxin	0.966	J
123678HexFuran	1.34	J
123789HexDioxin	0.3625	U
123789HexFuran	0.06	U
12378PenDioxin	0.473	J
12378PenFuran	2.64	J
234678HexFuran	0.4	J
23478PenFuran	2.2	J
2378TetDioxin	36.5	
2378TetFuran	119	
OctClDiBzDioxin	972	
OctClDiBzFuran	32.2	J

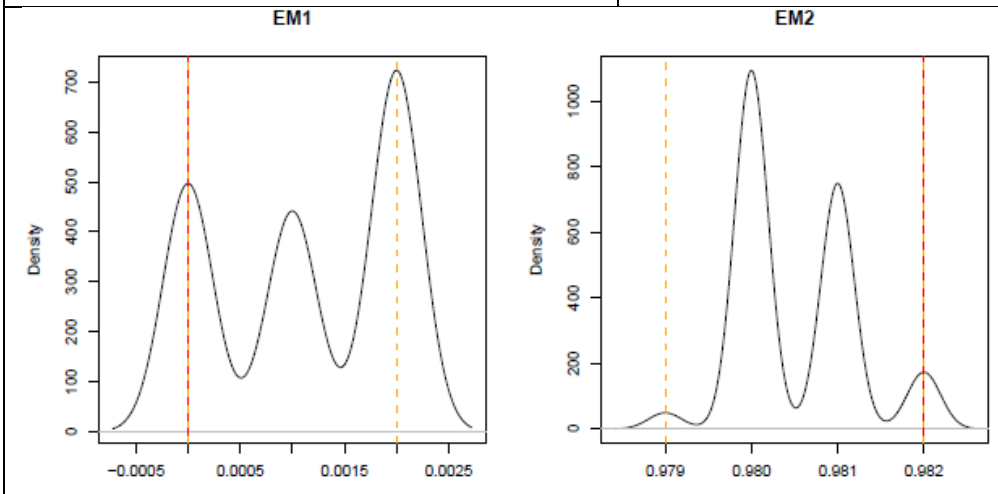


EM	95%/95%LTL	95%/95%UTL	Best Model Estimate
EM1	0.856	0.859	0.857
EM2	0.140	0.143	0.142
res	0.001	0.001	0.001

Figure 2

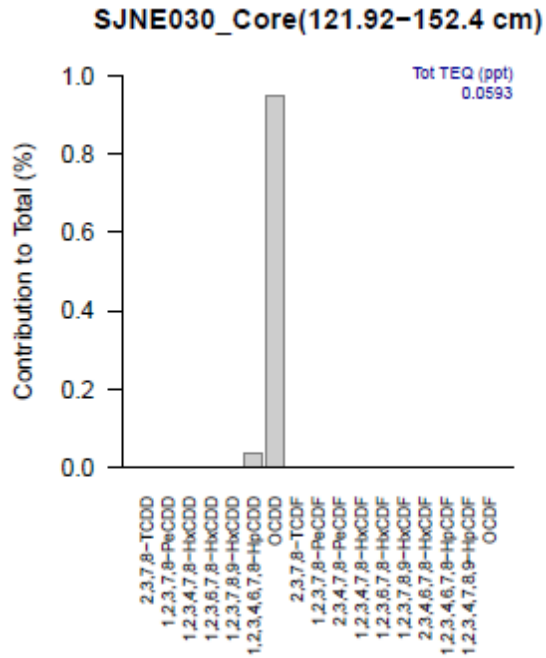


Analyte	Concentration (ng/kg dw)	
1234678HepDioxin	26.1	
1234678HepFuran	297	J
1234789HepFuran	126	
123478HexDioxin	1.51	J
123478HexFuran	1080	
123678HexDioxin	3.03	J
123678HexFuran	250	J
123789HexDioxin	2.4	J
123789HexFuran	18.7	
12378PenDioxin	175	
12378PenFuran	1060	
234678HexFuran	32.7	
23478PenFuran	916	
2378TetDioxin	21500	
2378TetFuran	95000	
OctClDiBzDioxin	236	
OctClDiBzFuran	171	

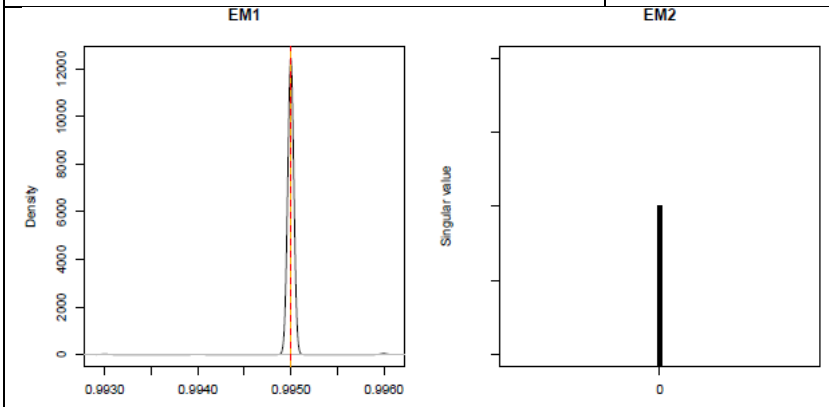


EM	95%/95%LTL	95%/95%UTL	Best Model Estimate
EM1	0	0.002	0
EM2	0.979	0.982	0.982
res	0.018	0.021	0.018

Figure 3



Analyte	Concentration (ng/kg dw)	
1234678HepDioxin	0.494	J
1234678HepFuran	0.01315	UJ
1234789HepFuran	0.0216	U
123478HexDioxin	0.014	U
123478HexFuran	0.00815	U
123678HexDioxin	0.0135	U
123678HexFuran	0.00755	UJ
123789HexDioxin	0.01365	U
123789HexFuran	0.01735	U
12378PenDioxin	0.01245	U
12378PenFuran	0.015	U
234678HexFuran	0.00935	U
23478PenFuran	0.0133	U
2378TetDioxin	0.0231	U
2378TetFuran	0.0178	U
OctClDiBzDioxin	13	
OctClDiBzFuran	0.0214	U



EM	95%/95%LTL	95%/95%UTL	Best Model Estimate
EM1	0.995	0.995	0.995
EM2	0	0	0
res	0.005	0.005	0.005

Figure 4

APPENDIX G

EXCERPTS FROM THE RI/FS WORK PLAN AND SOIL SAP ADDENDUM 1 DESCRIBING CONCEPTUAL SITE MODELS

APPENDIX G1

CONCEPTUAL SITE MODEL DISCUSSION FROM RI/FS WORK PLAN

CONCEPTUAL SITE MODEL
SAN JACINTO RIVER WASTE PITS SUPERFUND SITE

Prepared for

McGinnes Industrial Maintenance Corporation
International Paper Company
U.S. Environmental Protection Agency, Region 6

Prepared by

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February 2012

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LIST OF ACRONYMS AND ABBREVIATIONS

Abbreviation	Definition
2,3,7,8-TCDD	2,3,7,8-tetrachlorodibenzo-*p*-dioxin
BERA	baseline ecological risk assessment
BHHRA	baseline human health risk assessment
COPC	chemical of potential concern
CMS	conceptual site model
Koc	partition coefficient of a chemical in the organic matter of soil/sediment
Kow	octanol-water partition coefficient
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
RI/FS	Remedial Investigation and Feasibility Study
site	San Jacinto River Waste Pits Superfund Site
SLERA	screening level ecological risk assessment
TCRA	time critical removal action
TEF	toxicity equivalency factor
TEQ	toxicity equivalent
TOC	total organic carbon
USEPA	U.S. Environmental Protection Agency

1 INTRODUCTION

Understanding the major physical and chemical processes that control the distribution and concentrations of chemicals of potential concern (COPCs) at the San Jacinto River Waste Pits Superfund site (Site) is gained through the development and refinement (based on the iterative evaluation of Site-specific information) of a conceptual site model (CSM). A CSM for a contaminated Site provides a succinct depiction of the sources of contaminants, the physical-chemical processes that control chemical transport and fate over time and space, and the exposure pathways that potentially lead to exposure and adverse effects to ecological and human receptors. CSMs are a key component of the RI/FS process because they illustrate the links between Site investigation data and the assessment of risk (ASTM 1995). CSMs also establish a context for evaluating potential Site-associated sources and risk versus non Site-associated sources and risk.

Figure 1 is a general CSM pathway diagram for the Site showing the major sources, release mechanisms/transport pathways, exposure media, and potential human and ecological receptors of concern. This CSM is focused on the characteristics of the primary COPCs and indicator chemical group at the Site; dioxins and furans. General chemical characteristics of the other primary COPCs identified for the Site (several metals and bis-2(ethylhexyl) phthalate) are presented in Appendix E of the Work Plan (Anchor and Integral 2010).[1]

The remainder of this appendix consists of the following sections. The physical and chemical elements of the CSM are described in Section 2, which is divided into four parts. Section 2.1 provides an overview of dioxin and furan chemical properties and behavior in the environment. Section 2.2 describes how the cumulative toxicity of exposure to combinations of several dioxin and furan congeners together is addressed for birds, mammals and fish. Section 2.3 details the dioxin and furan sources, release mechanisms, and transport processes associated with the Site, and Section 2.4 discusses regional and global dioxin and furan sources, release mechanisms, and transport processes. Sections 3 and 4 then discuss potential receptors of concern and exposure pathways for human an ecological receptors, respectively. References cited are presented in Section 5.

[1] Secondary COPCs will be addressed in revised project CSM descriptions if it is determined that they need to be evaluated in the baseline risk assessments.

2 DIOXIN AND FURAN CHEMISTRY, SOURCES, RELEASE MECHANISMS, AND TRANSPORT PATHWAYS

Following an overview of general dioxin and furan chemical behavior in the environment and the means to evaluate dioxin and furan exposure and toxicity, this section details the current understanding of the sources, release mechanisms, and transport and fate processes at the Site. Figure 2 illustrates some of the major physical and chemical fate and transport processes discussed below.

2.1 Dioxin and Furan Chemical Properties and Behavior in the Environment

Dioxins and furans are a family of polychlorinated organic chemicals with similar chemical structures. They are characterized by extremely low vapor pressures, high octanol-water and organic carbon partitioning coefficients (Kow and Koc, respectively), and extremely low water solubilities. These factors indicate a strong affinity for sediments, particularly sediments with high organic content, and for lipids within biological tissue. Although some dioxins deposited on or near the water surface will be broken down by sunlight, and a very small portion will evaporate to air, the vast majority will sorb strongly to particulate matter, including organic matter, and eventually settle to the sediment bed, where they will be subject to sediment transport processes. After they are sorbed to particulate matter or bound in the sediment organic phase, they exhibit little potential for leaching or volatilization. They are highly stable in abiotic environmental media, with persistence typically measured in decades. An environmentally significant transformation process for dioxin congeners is believed to be photodegradation of chemicals not bound to particles in the gaseous phase or at the soil-air or water-air interface (USEPA 1994).

Chemical degradation of dioxins and furans through reductive chlorination can also occur. Recent research in the San Jacinto estuary found widespread occurrence of known dioxin-degrading bacteria, *Dehalococcoides* spp., in sediments throughout the Houston Ship Channel and Galveston Bay (Louchouarn and Brinkmeyer 2009). These bacteria use polychlorinated compounds as electron acceptors in the anaerobic process of de-halorespiration (Bunge et al. 2003; Holliger et al. 1999; Adrian et al. 2000). Anaerobic, sulfate-reducing conditions and relatively high bulk organic carbon levels appear to be needed for enhanced microbial dioxin degradation (Fu et al. 2001). Louchouarn and

Brinkmeyer (2009) reported that anaerobic, sulfate-reducing conditions are present at and below 10 cm in all Houston Ship Channel and Galveston Bay sediments sampled.

Nationally, sediments are considered to be a sink for dioxins (USEPA 2000). Dioxins entering surface waters partition rapidly to particulates, and preferentially to the organic carbon fractions in suspended solids, and are then transported and/or deposited with bedded sediments. Black carbon (carbon-rich soots and soot-like material) is believed to offer more binding Sites for organic materials but its relative abundance and composition is highly variable; it generally comprises less than 10 percent of the TOC pool in aquatic sediments (Koelmans et al. 2006). The presence of strong sorbing phases such as black carbon and other carbon matrices limit mobility and bioavailability of dioxins and furans and other organic compounds (e.g., PAHs). Koelmans et al. (2006) report that black carbon reduced uptake in organisms by up to two orders of magnitude.

The concentrations of freely dissolved concentrations of contaminants in surface waters and in the sediment biologically active zone, rather than bulk sediment concentrations, determine ecological effects and biological uptake. Contaminants in the near-surface, biologically active and/or physically mixed zone of the sediments, including sediments containing large proportions of pulp mill wastes, may move between solid and aqueous phases and be remobilized from the sediment bed by sediment resuspension and porewater - surface water exchange. Once in the water column, upstream or downstream contaminant transport can occur. Direct biological uptake can also occur from surface and suspended sediments, porewater and surface water. Partitioning between suspended solids and surface and porewater depends on the relative chemical concentrations, organic carbon levels and composition, and the dissolved surface water fraction, as well as reaction kinetics and the partitioning behavior of individual dioxin congeners. These factors are Site- and often sample-specific in the environment. For samples collected from the waste impoundments and the Houston Ship Channel, Louchouarn and Brinkmeyer (2009) modeled porewater concentrations considering both TOC (two-phase model) and amorphous organic carbon and black carbon as separate sorbents (three-phase model). They found that the two-phase model was more conservative in predicting porewater concentrations (i.e., suggesting the two-phase model overestimates porewater concentrations). This effect was greatest at lower dioxin levels. They also note that for samples with very high dioxin levels (e.g., those from

the waste impoundments), the sorption capacity of the sediments is exceeded, resulting in very high estimates of dissolved dioxins and furans (greater than 1 pg/L), whereas in most areas, the sediment sorption capacity is estimated to result in dissolved fractions less than 0.1 pg/L.

Tetrachlorinated dioxin and furan congeners may bioaccumulate in aquatic food webs and associated bird and mammal species (ATSDR 1998); more recent literature confirms that other congeners have limited potential to bioaccumulate (USEPA 2008). The principal route of exposure is through the ingestion of contaminated food, as opposed to respiration across gill surfaces for fish or aquatic invertebrates. However, dioxins have been detected in waters, making them potentially available for biological uptake, even at very low concentrations. Certain benthic organisms accumulate dioxins from water at the water–sediment interface and through intake of phytoplankton, zooplankton, and suspended particulate materials that may contain higher concentrations of these chemicals than the surrounding water. Additional discussion of exposure routes and pathways for human and ecological receptors is provided in Section 4.2 and 4.3.

Finally, the bioavailability of dioxins may also be dependent on rates of sediment resuspension and remobilization (Wenning et al. 2004), which will be evaluated as part of the fate and transport evaluation noted below (Section 6.1.5).

2.2 Dioxin and Furan Toxicity

Dioxins and furans (polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans) are two groups of structurally similar, tricyclic, almost planar, organic compounds that exhibit similar physical and chemical properties. There are 75 dioxins and 135 furans called *congeners,* which are differentiated by the number and position of chlorine atoms in each congener. Many animal studies have established that there is a distinct difference in the toxic effects among dioxin and furan congeners and that 2,3,7,8-TCDD is the most toxic of the congeners to mammals (USEPA 2000) and is considered the most toxic to birds and fish as well. Seventeen of the dioxin and furan congeners (seven dioxins, ten furans) exhibit what is termed "dioxin-like" toxicity. These 17 congeners have chlorine atoms present in the 2, 3, 7, and 8 positions on the ring structure of the molecule and are more toxic than other

congeners with fewer chlorine atoms or with chlorine atoms in different positions on the ring structure.

The magnitude of toxicity of each of the 17 dioxin and furan congeners with dioxin-like toxicity are related to the toxicity of 2,3,7,8-TCDD by TEFs. The magnitude of toxicity of each of these 17 dioxin and furan congeners can be related to the toxicity of 2,3,7,8-TCDD using a congener-specific TEF. The concentration of each congener is converted to equivalent concentrations of 2,3,7,8-TCDD by multiplication with its TEF, and all the TEQs for individual congeners (the product of each congener and its TEF) are added to compute the total toxic equivalency of the mixture to 2,3,7,8-TCDD. The resulting total TEQ concentration provides the metric of exposure to "dioxin-like" compounds. Certain PCB congeners exhibit an ability to bind to the same biochemical receptors as the most toxic of the dioxin and furan congeners, and their toxicity is considered to be additive with dioxin and furan toxicity. These "dioxin-like" PCBs also have TEF values for birds, mammals and fish. TEFs for mammals developed by the World Health Organization (Van den Berg et al. 2006) and for fish and birds (Van den Berg et al. 1998) will be used in this risk assessment to estimate the cumulative toxicity of the PCB congeners exhibiting dioxin-like toxicity (Table 1).[2]

The mammalian TEFs in Table 4-1 have been recommended for use in human health risk assessments by USEPA (2009). Dioxin and furan congeners without chlorine atoms in the 2,3,7, and 8 positions are assigned a TEF of zero and cannot be evaluated using TEQ methodology because they lack a common mechanism of toxicity.

2.3 Site-Related Dioxin and Furan Sources

The impoundments at the Site received pulp mill wastes in the mid-1960s and are presumed to be the major source of COPCs at the Site. Major physical changes that resulted in the exposure of the wastes deposited within the impoundments to surface waters and the distribution of contaminated material into nearby surface sediments. Land subsidence

[2] PCB congeners will be evaluated in initial sediment samples, including those collected from within the impoundments, and will be analyzed in all sediment samples and tissue, if appropriate, according to the decision process described in Section 1.7.2 of the final Sediment SAP (Integral and Anchor QEA 2010) and Section 1.5 of the draft Tissue SAP (Integral 2010).

resulting from regional groundwater withdrawal in the 1960s and 1970s contributed to the sinking of the impoundments. As a result of this event, contaminated material was distributed and became distributed and potentially accessible to ecological receptors and to people at the Site. Material from the berm and from within the impoundment was subject to mobilization and redistributed by erosion resulting from tidal and river currents. Dredging activities in the area may have affected the Site. Mobilization of materials by dredging may have released sediment-associated contaminants to the water column that would have settled to the bottom. Determining the spatial extent of sediment contaminants from the impoundments is one issue that will be addressed in the RI/FS.

Human and ecological receptor contact with source material currently exposed within the boundary of the impoundments is also potentially ongoing. A TCRA designed to stabilize the waste material in the impoundments, restrict public access, and minimize the continuing release of wastes to the Site will take place in 2010. The physical/chemical elements of this CSM presume the successful implementation of the TCRA and CSM focuses on the fate and transport of contaminants released to the Site from the impoundments prior to the TCRA. In addition, the CSM will also focus on the permanent cessation of human and ecological receptor contact with the source material."

Given the hydrophobic nature of dioxins and furans and their affinity to be associated with sediment particles, qualitative and quantitative descriptions of hydrodynamics and sediment transport are very important because these physical processes provide the foundation for understanding chemical fate and transport processes in the Site. A Technical Memorandum on Chemical Fate and Transport is being developed that will address the physical modeling and data requirements (Sections 6 and 8). The results of this effort will greatly inform the refinement of the physical CSM for the Site.

At present, the existing sediment dioxin and furan from the area of the Site as well the physical setting of the impoundments within the San Jacinto River can be used to describe a preliminary physical CSM. First, the impoundments were constructed on the inside bend of a natural river oxbow, in an area historically consisting of marshlands. This area was likely a zone of sediment accretion rather than erosion with hydrodynamic energy being directed through the main river channel in the far eastern portion of the Site (i.e., along the outside

bend of the oxbow). Second, although there are significant spatial nature and extent data gaps to be filled as part of the RI/FS, analysis of existing data shows a decrease in sediment dioxin concentrations moving away from the waste impoundments (Figure 3). Finally, Louchouarn and Brinkmeyer (2009) reported the results of a fingerprinting analysis of dioxins and furans located in the impoundments, their immediate vicinity, and further afield in the San Jacinto River and the Houston Ship Channel. They graphically presented ratios of TCDD/OCDD versus TCDF/OCDF for each sample to show differences in the characteristics of dioxin mixtures among sediment samples, and thereby to address source inputs to the Houston Ship Channel and vicinity. This particular dioxin compositional analysis shows a decrease in sediment dioxin concentrations from the waste impoundments as well.

2.4 Global and Regional Dioxin and Furan Sources, Release Mechanisms, and Transport Pathways

Dioxins have never been purposely manufactured. They are anthropogenically and naturally produced through combustion, bleached paper production, polyvinyl chloride (PVC) production, ink/dye production, metal smelting, or as trace impurities or incidental by-products in chlorophenols, chlorinated herbicides, and commercial Aroclor (PCB) mixtures (ATSDR 1998). Examples of combustion and incineration that may lead to the formation of dioxins include waste (hazardous, medical) incinerators, cement kilns, boilers and industrial furnaces, vehicle emissions, fossil fuel power plants (e.g., coal), and backyard burning (e.g., refuse piles, burn barrels). Dioxins are naturally produced from forest fires, volcanic eruptions, and sedimentary deposits. Currently the largest source of dioxins to the environment is from combustion (USEPA 2006a). Absent a local source (such as the Site waste impoundments), the global source of dioxins and furans in environmental media is generally atmospheric deposition, which has been shown to be a factor in this Region (Section 2.3.5). When released into the air, some dioxins may be transported long distances, even around the globe. In the atmosphere, it has been estimated that 20 to 60 percent of 2,3,7,8-TCDD in the air is in the vapor phase. Sunlight and atmospheric chemicals break down a very small portion of the dioxins, but most will be deposited on land or water (ATSDR 1998) and ultimately be transported downgradient.

Given the long-term generation of dioxins as manufacturing by-products around the world, atmospheric transport, and the general recalcitrance of the molecules, it is expected that

some inputs of dioxins to the San Jacinto River system other than from the waste impoundments have occurred. Historically deposited dioxins still present in the river are expected to be predominantly sorbed to sediments.

Figure 4 includes a general representation of the regional sources, release mechanisms/transport pathways of dioxins and furans that are additional to the atmospheric inputs. These include industrial effluents, publicly owned treatment works, stormwater from the full range of upland land uses, direct runoff, and surface water and sediment transport into the Site from both upstream and downstream in the San Jacinto River as a function of both river and tidal flows, including infrequent storm surges which may be important in moving large amounts of sediment. It is documented that the nearby Houston Ship Channel is contaminated with dioxins and furans from local industrial and municipal effluents and runoff, as well as atmospheric deposition (University of Houston and Parsons 2006).

3 HUMAN HEALTH SITE CONCEPTUAL MODEL

For exposure to occur, a complete exposure pathway must exist. A complete pathway requires the following elements (USEPA 1989):

- Source and mechanism for release of constituents
- Transport or retention medium
- Point of potential human contact (exposure point) with the affected medium
- Exposure route at the exposure point

If any one of these elements is missing, the pathway is not considered complete. For example, if human activity patterns relative to the location of an affected exposure medium prevent human contact, then that exposure pathway is not complete. A simple CSM of the release and exposure pathways at this Site is illustrated in Figure 4. Figure 5 presents a CSM exposure diagram for human receptors based on our current understanding of exposure media, routes of exposure, and potential human receptors for the Site. Further description of the CSM for human exposures is provided below.

3.1 Human Health Receptors

Four potential human receptors have been identified for evaluation in the BHHRA to be conducted for the Site as part of the RI/FS process: a recreational fisher, a subsistence fisher, a recreational visitor, and a trespasser. Fishers include children or adults who gather fish from within the Site boundaries either by boat, fishing from along the riverbanks, or wading into the river to fish; fishers are assumed to eat the captured aquatic species. Recreational visitors include people interacting with Site media while swimming, picnicking, or playing along the shoreline, but not consuming fish. Both fishers and recreational visitors are assumed to be residents living in the vicinity of the Site and accessing the Site regularly throughout the year over the duration of their residency. Although recreational visitors may consume fish from the Site that were caught by someone else, exposures by the recreational visitor to contaminants consumed in fish will not be considered directly, but will be considered in the BHHRA in the context of total risks for the fisher receptors.

Signs of trespassers have also been reported along some portions of the Site, particularly under the I-10 Bridge. These individuals may come in contact with Site media in ways similar to the fishers and recreational visitor, but the frequency of their visits and total exposure duration is expected to be much less than the residential-based fishers and recreational visitor. Fishers and recreational visitors are expected to encounter higher exposures than trespassers would encounter. Consequently, if remediation is necessary and the Site is remediated to levels that are safe for fishers and recreational visitors, it will also be safe for trespassers.

3.2 Human Health Exposure Pathways

Exposure pathways are defined as the physical ways in which chemicals present in exposure media may come in contact with human receptors. The following potential exposure routes for human receptors are considered in the CSM exposure diagram for human receptors (Figure 4):

- Ingestion or dermal contact with chemicals in sediments
- Ingestion of fish and shellfish[3]

[3] Several fish and shellfish potentially consumed by people at the Site are included among the species for which consumption advisories are in place (Section 2.3.7.5).

- Ingestion or dermal contact with chemicals in surface water
- Ingestion or dermal contact with chemicals in soils
- Inhalation of chemicals in air (i.e., gases or particulates)

The frequency and duration of exposures to chemicals in each exposure medium will vary depending on the types of activities associated with each receptor group. Exposure pathways are considered potentially complete and significant if the exposure occurs frequently over an extended duration and the exposure medium represents a significant potential source of Site-related contaminants. Exposure pathways are considered potentially complete, but minor, if the exposure occurs infrequently, over a short duration, or if the exposure medium represents a minor potential source of Site-related contaminants. In Figure 5, consumption of fish by recreational visitors is the only incomplete exposure pathway identified. As noted above, this pathway may occur, but will be evaluated separately for the fisher receptor groups.

For the fishers and recreational visitor, potentially complete and significant exposures to Site media are expected to occur primarily via direct contact with sediments or soil (ingestion and dermal) and, for the fishers, also through consumption of aquatic organisms (i.e., fish and shellfish) that are exposed to Site-related contaminants in the sediments. Exposures to these media by trespassers are expected to be minor. Exposures to contaminants in surface water and air are expected to be minor for all groups of potential Site visitors.

4 ECOLOGICAL SITE CONCEPTUAL MODEL

The ecological CSM is described in detail in the SLERA (Appendix B) and summarized in this section. The ecological CSM connects the sources and transport pathways described above in Section 4.1 to ecological receptors that may be expected at the Site. The CSM facilitates evaluation of the completeness and significance of exposure to contaminants of concern in each potentially affected environmental medium (Figure 6). A more detailed description of specific exposure routes considered to be the most important to each receptor is provided in Figure 6. Below is a synopsis of the receptors selected for evaluation in the BERA, followed by a discussion of the details conveyed by Figure 6.

4.1 Ecological Receptors

Fish and wildlife may be expected to use the habitats present in the vicinity of the Site, including open waters, riparian shorelines, and estuarine and marine wetlands (Section 2.5). From the lists of species that may be present at the Site seasonally or year-round, receptor surrogates were selected to represent the potential exposures to Site-related chemicals. Ecological receptor surrogates are considered to be representative of the trophic and ecological relationships for several other species, as described in Appendix B. In selecting receptor surrogates for the Site, the following criteria were considered:

- Receptor is or could potentially be present at the Site
- Receptor is representative of one or more feeding guilds
- Receptor is known to be either sensitive or potentially highly exposed to COPCs at the Site
- Life history information is available in the literature or is available for a similar species that can be used to inform life history parameters for the receptor.

Given the identification of sediments and surface water as primary environmental media of concern for the fate and transport of Site-related chemicals, receptors were chosen that are aquatic-dependent or use aquatic resources to a substantial extent, because these are expected to be the types of organisms with the most potential to be exposed to chemicals associated with the impoundments.

The following surrogate receptors were chosen from each of the major fish and wildlife taxa expected to be present at the Site. Ecological and life history information is provided for each of these receptors in the SLERA accompanying this Work Plan (Appendix B):

- Benthic macroinvertebrate community
- Bivalve molluscs
- Fish
  - Gulf killifish (*Fundulus grandis*): benthic omnivore
  - Black drum (*Pogonias cromis*): benthic omnivore
  - Southern flounder (*Paralichthys lethostigma*): benthic piscivore
- Reptiles

  - Alligator snapping turtle (*Macrochelys temminckii)*: omnivore

- Birds
  - Neotropic cormorant (*Phalacrocorax brasilianus*): piscivorous diving waterbird
  - Great blue heron (*Ardea herodias*): wading bird
  - Spotted sandpiper (*Actitis macularius*): invertivorous, sediment-probing bird
  - Killdeer (*Charadrius vociferous*): terrestrial invertivore
- Mammals
  - Raccoon (*Procyon lotor*): omnivore, uses riparian and terrestrial habitats
  - Marsh rice rat (*Oryzomys palustris*): omnivorous, seasonally variable diet, uses riparian, aquatic, and wetland habitats

4.2 Ecological Exposure Pathways

The complete exposure pathways and relevant exposure routes for fish, invertebrates and aquatic-dependent wildlife include direct contact with contaminated water, sediments or soils; ingestion of contaminated water, sediments, soils or prey that have been exposed to contaminated media, and respiration (for aquatic species) see Figure 6.

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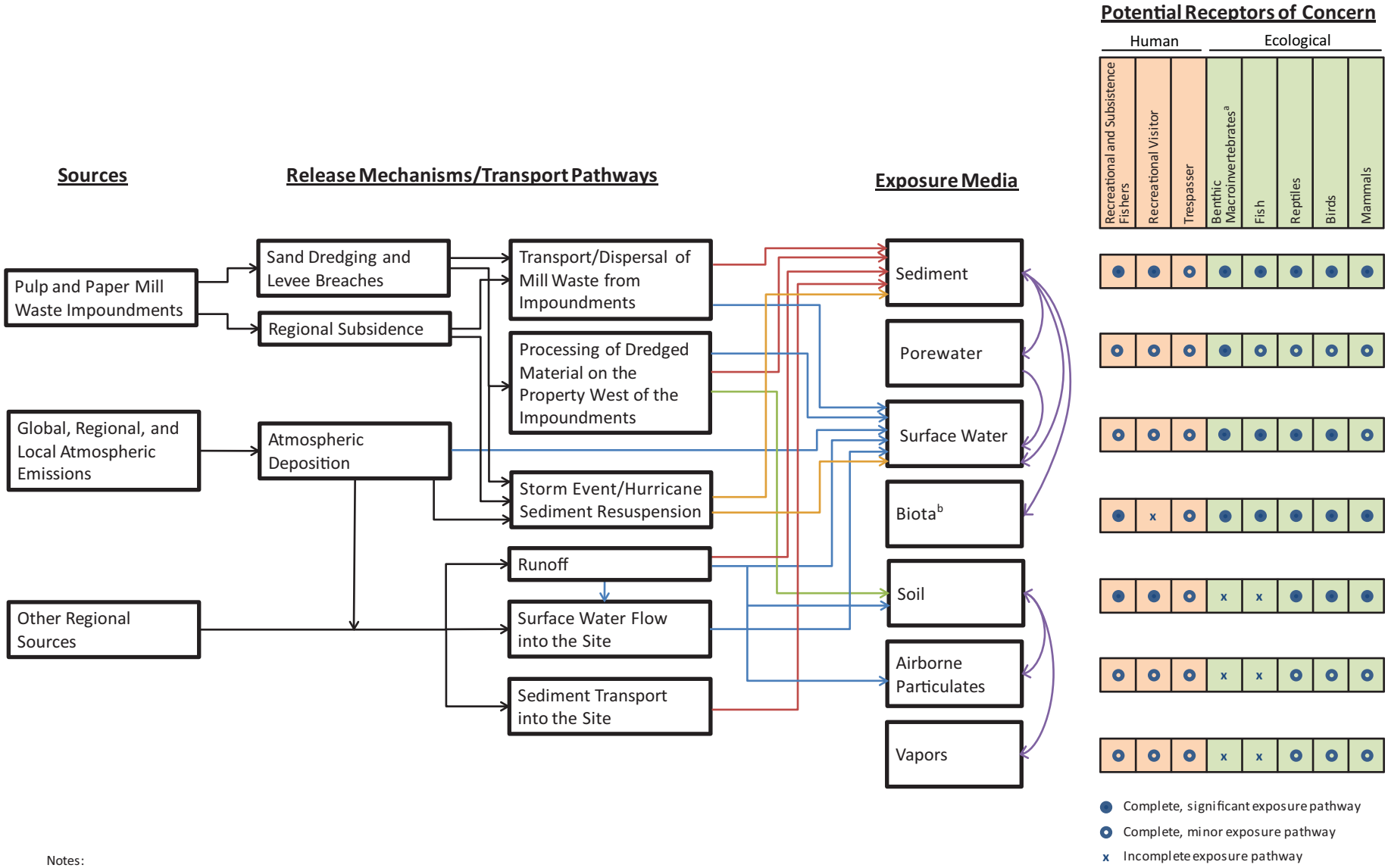
Table 1
Toxicity Equivalency Factors for Dioxins/Furans

Compound	Mammalian TEFs	Avian TEFs	Fish TEFs
Chlorinated Dibenzo-*p*-dioxins			
2,3,7,8-TCDD	1	1	1
1,2,3,7,8-PeCDD	1	1	1
1,2,3,4,7,8-HxCDD	0.1	0.05	0.5
1,2,3,6,7,8-HxCDD	0.1	0.01	0.01
1,2,3,7,8,9-HxCDD	0.1	0.1	0.01
1,2,3,4,6,7,8-HpCDD	0.01	<0.001	0.001
OCDD	0.0003	0.0001	<0.0001
Chlorinated Dibenzofurans			
2,3,7,8-TCDF	0.1	1	0.05
1,2,3,7,8-PeCDF	0.03	0.1	0.05
2,3,4,7,8-PeCDF	0.3	1	0.5
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.01	0.01
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.01
OCDF	0.0003	0.0001	<0.0001

Source: Van den Berg et al. (2006); USEPA (2008)

Notes:

TEF = toxicity equivalency factor



Notes:

Other regional sources may include industrial effluents, publicly owned treatment works, and stormwater.
Curved lines indicate potential transport pathways for chemicals of potential concern among exposure media.

[a]Benthic invertebrates include crabs and other crustaceans and shellfish consumed by all receptors, as well as polychaetes and other infauna consumed by fish, other marine life, birds and mammals.

[b]Biota consumed by human receptors are expected to be fish and shellfish.

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Figure 1
CSM Pathway Diagram
SJRWP Preliminary Site Characterization Report
SJRWP Superfund/MIMC and IPC

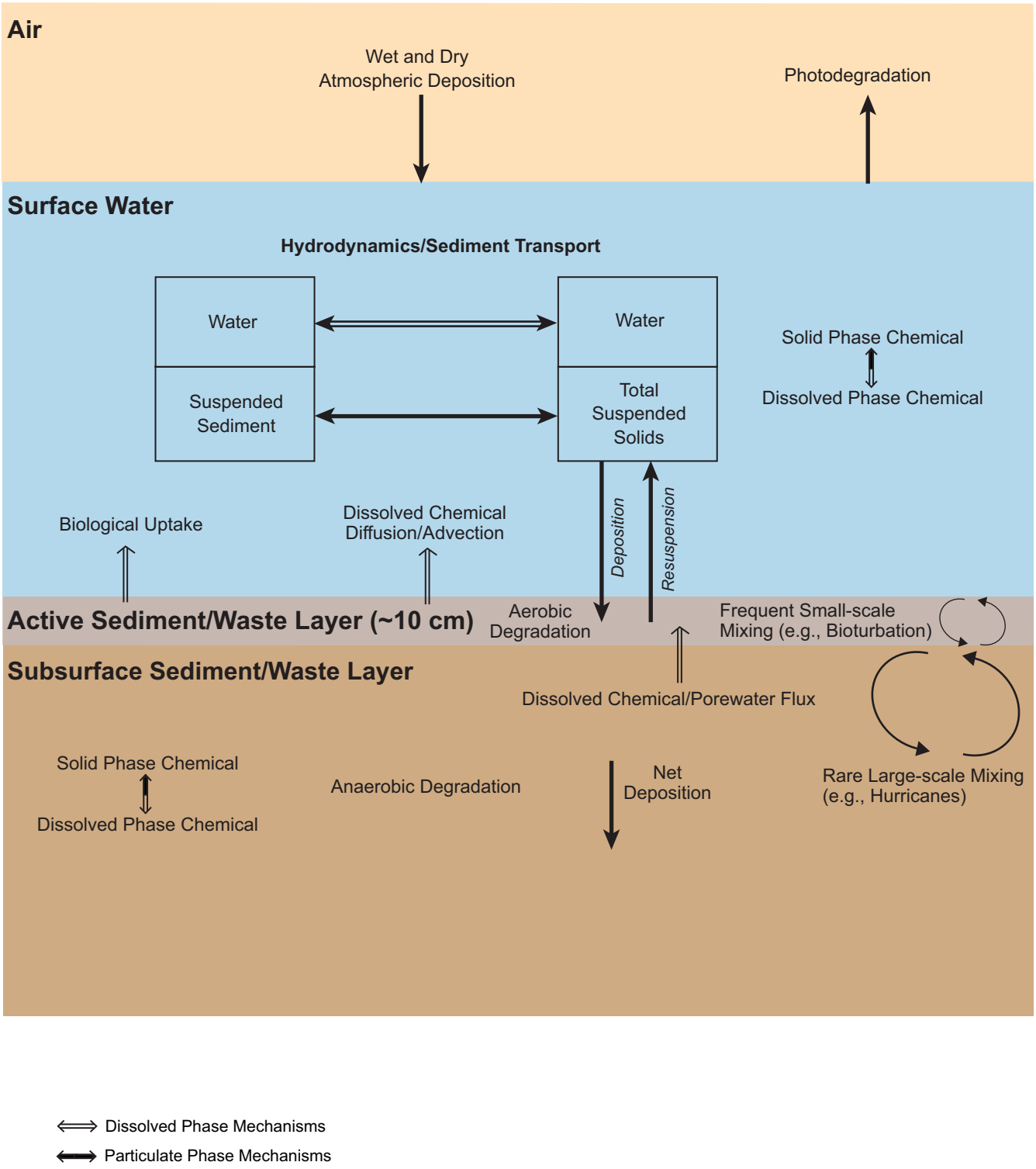
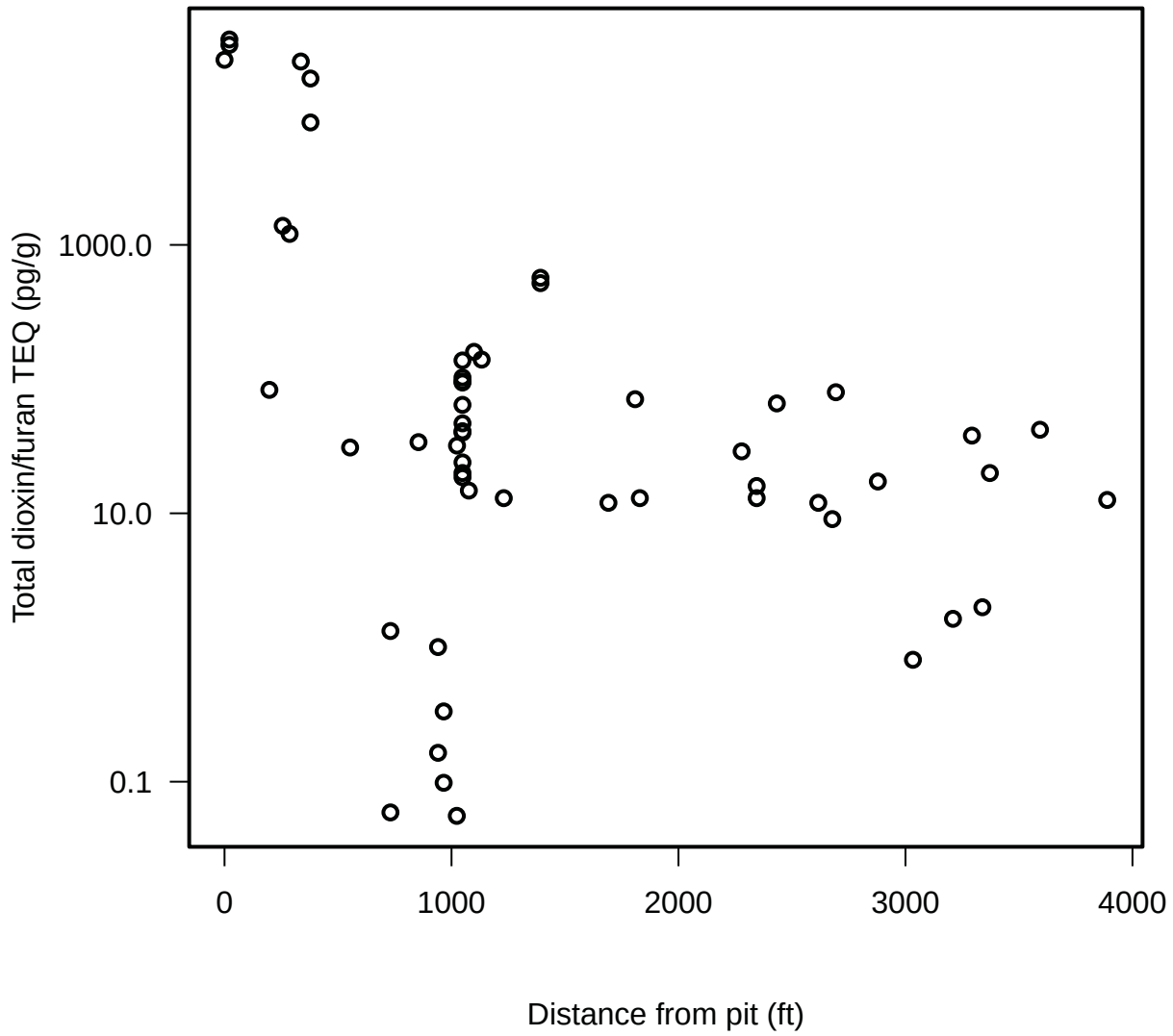


Figure 2
Physical/Chemical Fate and Transport Processes
SJRWP Preliminary Site Characterization Report
SJRWP Superfund/MIMC and IPC



TEQ – toxicity equivalent

Figure 3
Change in Toxicity Equivalent Concentration with Distance from the San Jacinto Impoundment
SJRWP Preliminary Site Characterization Report
SJRWP Superfund/MIMC and IPC

Exposure Media	Exposure Route	Potential Human Receptors of Concern: Recreational and Subsistence Fishers	Recreational Visitor	Trespasser
Sediment	Ingestion	●	●	○
	Dermal Contact	●	●	○
Porewater	Dermal Contact	○	○	○
Surface Water	Ingestion	○	○	○
	Dermal Contact	○	○	○
Fish and Shellfish	Ingestion	●	x	○
Soil	Ingestion	●	●	○
	Dermal Contact	●	●	○
Airborne Particulates	Inhalation	○	○	○
Vapors	Inhalation	○	○	○

● Potentially complete and significant exposure pathway

○ Potentially complete but minor exposure pathway

x Incomplete exposure pathway

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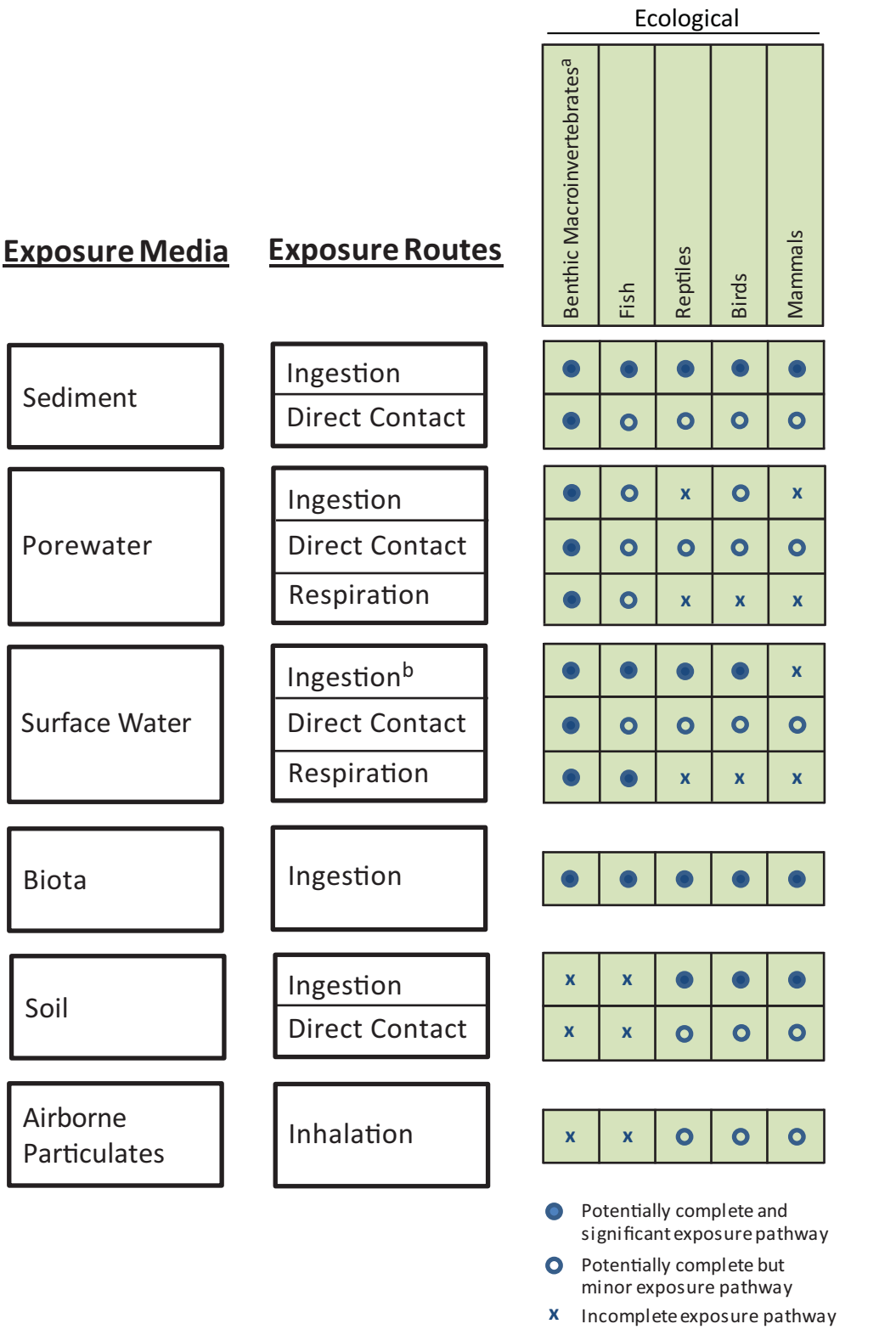
Figure 4

Conceptual Site Model for Human Health

SJRWP Preliminary Site Characterization Report

SJRWP Superfund/MIMC and IPC



Notes:

[a]Benthic invertebrates include crabs and other crustaceans and shellfish consumed by all receptors, as well as polychaetes and other infauna consumed by fish, other marine life, birds, and mammals.

[b]Mammals and terrestrial birds are assumed not to ingest surface water for drinking, as surface water is estuarine.

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Figure 5
Conceptual Site Model for Ecological Exposures
SJRWP Preliminary Site Characterization Report
SJRWP Superfund/MIMC and IPC

Exposure Media	Exposure Routes	Benthic Macro-invertebrates	Fish		Reptiles	Aquatic Birds		Terrestrial Birds	Mammals
			Omnivores	Benthic Piscivores		Piscivore	Wading Invertivores/ Omnivores	Invertivore	
Sediment	Ingestion	●	○	●	●	●	●	x	●
	Direct Contact	●	○	○	○	○	●	x	○
Porewater	Ingestion	●	○	○	x	○	○	○	x
	Direct Contact	●	○	○	○	○	○	○	○
	Respiration	●	○	○	x	x	x	x	x
Surface Water	Ingestion[a]	●	●	●	●	●	●	x	x
	Direct Contact	●	○	○	○	○	○	○	○
	Respiration	●	●	●	x	x	x	x	x
Biota	Ingestion	●	●	●	●	●	●	●	●
Soils	Ingestion	x	x	x	●	x	x	●	●
	Direct Contact	x	x	x	○	○	○	○	○
Airborne Particulates	Inhalation[b]	x	x	x	○	○	○	○	○

Notes:

● Potentially complete and significant exposure pathway

○ Potentially complete but minor exposure pathway

x Incomplete exposure pathway

[a] Mammals and terrestrial birds are assumed not to ingest surface water for drinking, as surface water is estuarine.

[b] Inhalation of contaminated vapor or particles is a minor exposure route for reptiles, birds, and mammals.

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Figure 6

Conceptual Site Model for Ecological Exposures:
Exposure Details for Receptor Feeding Guilds and Habitat Associations
SJRWP Preliminary Site Characterization Report
SJRWP Superfund/MIMC and IPC

APPENDIX G2

CONCEPTUAL SITE MODEL DISCUSSION FROM SOIL SAP ADDENDUM 1

CONCEPTUAL SITE MODEL ADDENDUM DISCUSSION FROM SOIL SAP ADDENDUM 1

SAN JACINTO RIVER WASTE PITS SUPERFUND SITE

Prepared for

International Paper Company

U.S. Environmental Protection Agency, Region 6

Prepared by

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February 2012

This Addendum to the Soil SAP specifically addresses potential transport and exposure pathways for the impoundment south of I-10. The overall conceptual site model (CSM) (Figure 1), and exposure CSMs for human and ecological receptors relating to the impoundments south of I-10, are illustrated in Figures 2 and 3, and discussed below.

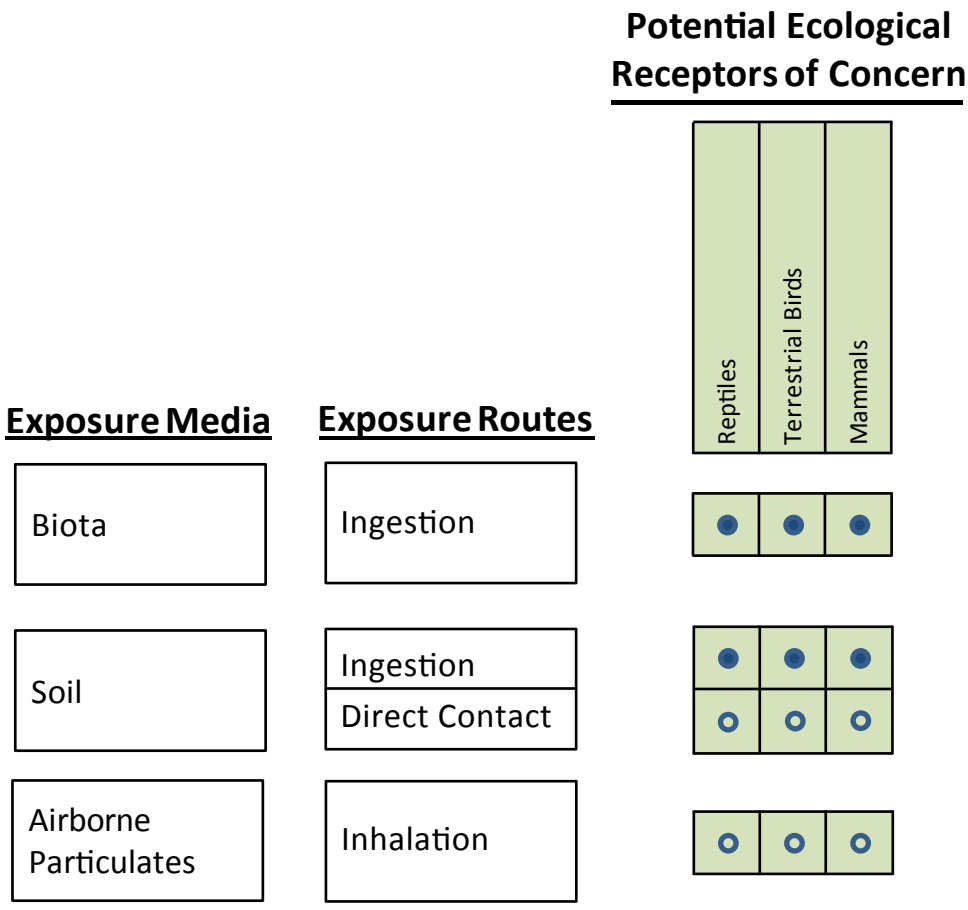
An impoundment was constructed south of I-10 between 1962 and 1964 and received pulp mill wastes in the mid-1960s. The potentially affected soil is the subject of the investigation in Area 4. Major physical changes in the area since the impoundment was constructed include land subsidence due to groundwater withdrawal in the 1960s and 1970s, as well as industrial and commercial activities involving shipping, track and road development, building construction, shoreline filling and excavation, and soil grading. Historical aerial photography suggests that the area affected by the waste impoundment is likely limited to an area that appears to have been flooded in 1966. The impoundment south of I-10 was not exposed to surface waters as a result of subsidence, and sediments to the west of the impoundments are not contaminated with dioxins and furans to levels above background, indicating that contamination from the former impoundment has not been released to the aquatic environment. Extensive tracking across the area could have mixed surface contamination, and grading of soils to build today's parking lots could have mixed historical waste deposits into surface soils, particularly at the northwest end of the peninsula south of I-10.

Contact with potentially contaminated soil in the area south of I-10 creates the possibility for exposure of ecological receptors and people using the Site to chemicals of interest (COIs). Ecological receptors and people using Area 4 of the Site also may be exposed to COIs from global, regional, and local sources that are unrelated to the paper mill waste deposited on the Site. Because the area along the perimeter of the impoundment south of I-10 has been the location of various industrial, shipping, and other commercial activities since the 1960s, people working in the area south of I-10 may be exposed to COIs in soil that are present, but not as a result of the disposal of paper mill wastes in the 1960s. Area 4 is occupied by active industrial and commercial properties, many of which are fenced and gated. For this reason, potential exposure to contaminated soil in Area 4 may be limited for people and ecological receptors. The low concentrations of dioxins and furans in sediments adjacent to and downstream of the south impoundment indicate limited potential for transport of surface

soils or soil contaminants from this area into the aquatic environment. Thus, current information suggests that processes of release of hazardous substances, transport mechanisms, and pathways leading to exposure likely do not include significant pathways to the aquatic and sediment environments, and that paper mill waste related contamination of soil in the area south of I-10 is limited to Area 4. Moreover, given that the volume of waste deposited in the area may be very low, the importance of the transfer of COIs to groundwater as a transport pathway is unknown. Transport pathways to the aquatic environment are also unknown. The results of the evaluation of historical information and recent sediment data can be summarized in the overall CSM for the impoundment south of I–10, presented in Figure 1.

The overarching issue to be addressed by the study described in this Addendum is whether COIs associated with paper mill wastes generated in the 1960s occur in the surface and subsurface soils of Area 4 and, if so, the nature and extent of their distribution in affected soils. Resulting data will be used to evaluate both the nature and extent of contamination, and exposures and risks to ecological and human receptors. Both the exposure and risk assessment, and characterization of background conditions in soil will inform the development of Preliminary Remediation Goals, if evaluation of remedial actions for soils is determined to be necessary. Where groundwater wells may be installed for evaluation of groundwater quality beneath Area 4 (Groundwater SAP[1]), the chemistry, grain size, and lithology of soils from the well cores may be needed to facilitate interpretation of groundwater data, if it is collected.

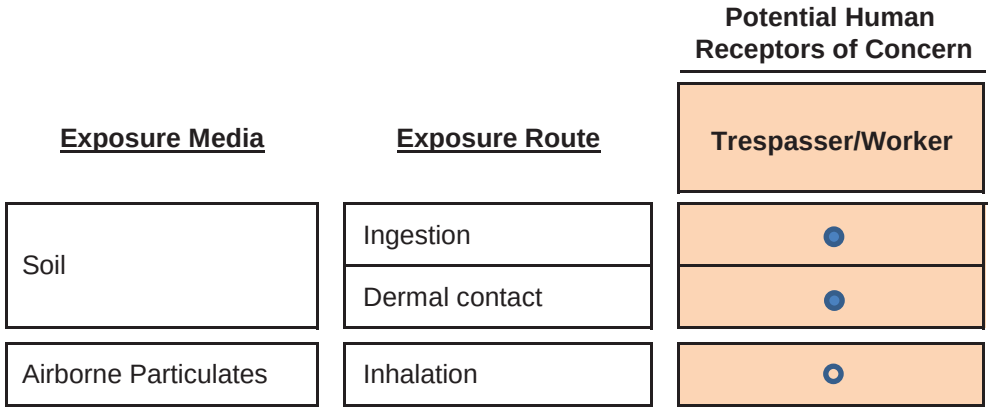
[1] Anchor QEA, 2010. Groundwater Study Sampling and Analysis Plan, San Jacinto Waste Pits Superfund Site. Prepared for McGinnes Industrial Maintenance Corporation, International Paper Company, and U.S. Environmental Protection Agency, Region 6. Anchor QEA, Ocean Springs, MS.



Notes:

- Potentially complete and significant exposure pathway
- Potentially complete but minor exposure pathway

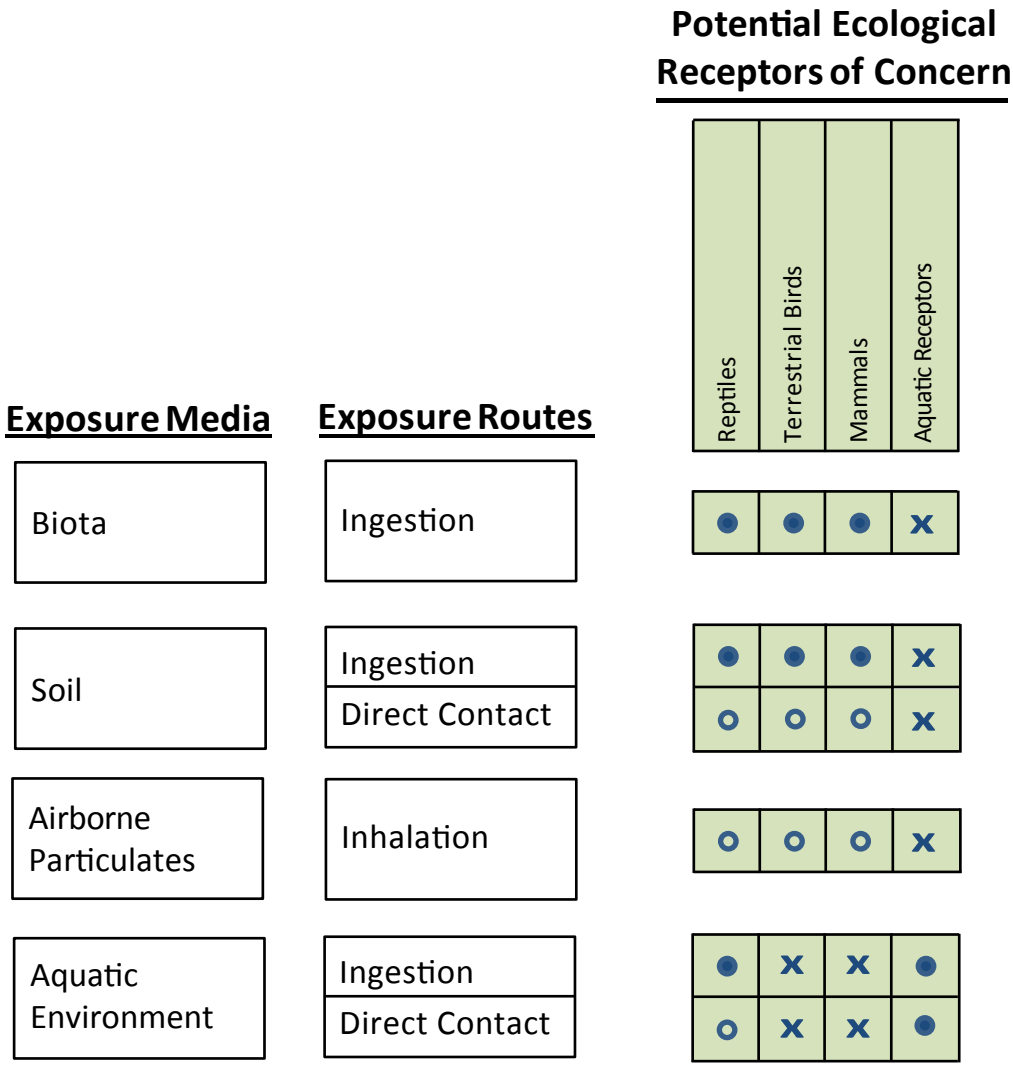
Figure 1
Conceptual Site Model for Ecological Exposures
SJRWP Preliminary Site Characterization Report
SJRWP Superfund/IPC



Notes:

- Potentially complete and significant exposure pathway
- Potentially complete but minor exposure pathway

Figure 2
Conceptual Site Model for Human Health
SJRWP Preliminary Site Characterization Report
SJRWP Superfund/IPC



Notes:

- ● Potentially complete and significant exposure pathway
- ○ Potentially complete but minor exposure pathway
- x Incomplete exposure pathway

Figure 3
Conceptual Site Model for Ecological Exposures
SJRWP Preliminary Site Characterization Report
SJRWP Superfund/IPC

APPENDIX H

EXCERPTS FROM THE RI/FS WORK PLAN DESCRIBING POTENTIAL REMEDIAL TECHNOLOGIES

EXCERPTS FROM THE RI/FS WORK PLAN DESCRIBING POTENTIAL REMEDIAL TECHNOLOGIES

Prepared for

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U.S. Environmental Protection Agency, Region 6

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February 2012

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6 REFERENCES H-8

LIST OF ACRONYMS AND ABBREVIATIONS

Abbreviation	Definition
ARAR	applicable or relevant and appropriate requirement
BMP	best management practice
RAO	remedial action objective
MNR	monitored natural recovery
USEPA	U.S. Environmental Protection Agency

1 INTRODUCTION

The materials in the waste pits are "source materials" that contain "hazardous substances, pollutants or contaminants that act as a reservoir for migration of contamination to ground water, to surface water, to air or acts as a source for direct exposure." (USEPA 1991 "*A Guide to Principal Threat and Low Level Threat Wastes*"). The purpose of identification and screening of remedial technologies is to evaluate cleanup alternatives for all principal threat and low level threat wastes associated with the site source materials and nature and extent areas.

The U.S. Environmental Protection Agency (USEPA) expects to:

- "Use treatment to address the principal threats posed by a site, wherever practicable.
- Use engineering controls, such as containment, for wastes that pose a relatively low long-term threat or where treatment is impracticable.
- Use a combination of methods, as appropriate, to achieve protection of human health and the environment. In appropriate site situations, treatment of principal threats posed by a site, with priority placed on treating waste that is liquid, highly toxic or highly mobile, will be combined with engineering controls (such as containment) and institutional controls, as appropriate, for treatment residuals and untreated waste.
- Use institutional controls such as water use and deed restrictions to supplement engineering controls as appropriate for short- and long-term management to prevent or limit exposure to hazardous substances."

USEPA guidance for contaminated sediment remediation identifies "three major approaches: Monitored Natural Recovery (MNR), in-situ capping, and sediment removal by dredging or excavation" for addressing sediment sites (USEPA 2005). The technologies considered in the Feasibility Study will therefore focus on the following (or a combination of the following):

- MNR or Enhanced MNR
- In situ capping
- Dredging or excavation combined with the following auxiliary technologies:
  - Transport
  - Materials handling (i.e., treatment)
  - Disposal.

Each technology is discussed in more detail below. In addition, during the Feasibility Study, each technology will be evaluated on USEPA's Threshold Criteria (overall protection of human health and the environment; compliance with ARARs), Primary Balancing Criteria (long-term effectiveness and permanence; reduction of toxicity, mobility, or volume through treatment; short-term effectiveness; implementability; cost) and Modifying Criteria (state/support agency acceptance; community acceptance).

2 MONITORED NATURAL RECOVERY

Per USEPA's sediment remediation guidance (USEPA 2005), MNR is a remedy for contaminated sediment that typically uses ongoing, naturally occurring processes to contain, destroy, or reduce the bioavailability or toxicity of contaminants in sediment. MNR may rely on a wide range of naturally occurring processes to reduce risk to human and/or ecological receptors. These processes may include physical, biological, and chemical mechanisms that act together to reduce the risk posed by the contaminants. Depending on the contaminants and the environment, this risk reduction may occur in a number of different ways including destruction (degradation or transformation) of chemicals, reduced mobility or toxicity, burial, and/or dispersion. A variation of MNR is enhanced MNR where one of the driving mechanisms (usually burial) is accelerated. A common method of enhanced MNR is the placement of a thin layer of sediment over the affected area.

The Feasibility Study will assess the degree and spatial extent to which MNR or enhanced MNR can be expected to be a suitable remedy that meets the remedial action objectives (RAOs). This will involve modeling of chemical fate and transport within and around the Site to determine how quickly and to what level chemical concentrations in surface sediments where organisms and people are exposed can be expected to decrease over time. The chemical fate and transport model being developed will be used to assist with MNR modeling. To the extent that this model is not available, other models or estimation methods may be employed. This modeling will be supported by a thorough evaluation of empirical information to determine whether MNR has occurred historically. This information may include (but is not limited to) evaluations of sediment samples taken over time and

evaluations of concentration profiles in cores. The timeframes for acceptable MNR or enhanced MNR will be set to be consistent with appropriate guidance.

3 CAPPING TECHNOLOGIES

In situ caps isolate contaminated sediments from the environment by use of natural or constructed products. Caps consist of two main components:

1. Chemical isolation component. This portion of the cap reduces the flux of the solids and dissolved contaminants to the overlying water column to acceptable levels. The chemical isolation component is typically made of naturally occurring sands or gravels. Additives such as organoclay or other products have been used to help sequester more mobile dissolved contaminants.
2. Erosion protection component. This portion of the cap protects the chemical isolation component from erosion. The gradation and thickness of this layer is such to resist potential erosive forces such as currents, waves, or propeller wash. The erosion protection layer can be constructed from either be naturally occurring gravels or boulders or manufactured products (e.g., cement).

The Feasibility Study will review various capping technologies and present the advantages and disadvantages of each. The Feasibility Study will also focus on likely placement techniques for each component. Screening will be used to focus the probable cap technologies and account for the following factors:

- Sediment strength and stability
- Site constraints for a cap, such as slopes, water depths, and currents
- Presence of structures, such as piers, piling, and outfalls, as well as debris
- Navigational constraints
- Short-term water quality impacts during construction
- Erosive environment
- Equipment availability
- Capping production rates.

4 DREDGING OR EXCAVATION TECHNOLOGIES

Dredging or excavation technologies are used to dislodge and remove contaminated sediments from the waterbody for subsequent transport and disposal. Dredging or excavation can be accomplished either using mechanical or hydraulic means. The Feasibility Study will review the dredging or excavation technologies commonly used for contaminated sediment remediation projects in the Gulf Coast. Screening will be used to focus the probable dredge or excavation technologies and account for the following factors:

- Sediment strength and grain size
- Depth of contamination
- Dredge or excavate area constraints such as slopes, water depths, and currents
- Presence of structures, such as piers, piling, and outfalls, as well as debris
- Navigational constraints
- Short-term water quality impacts during construction
- Equipment availability
- Support equipment and materials required
- Dredging or excavation production rates
- Volume of excess water produced that will need to be managed.

Dredging or excavation will be coupled with a number of auxiliary water quality controls and technologies including transportation, treatment, and disposal. Each of those controls and technologies is discussed in more detail below.

4.1 Water Quality Controls

As dredging or excavation occurs, measures will likely be required to minimize and/or contain potential water quality impacts. These potential controls include implementation of dredging or excavation best management practices (BMPs), permeable and/or low permeability silt curtains, a barge de-water treatment system(s), use of geotubes, and/or use of settling basins. In addition, a system for sheen and spill prevention and response will be developed. BMPs could include adjustments to dredging or excavation techniques and/or equipment, operation times, and production rates.

Screening of water quality controls will focus on the following factors:

- Sediment physical properties, such as grain size, water content, and plasticity
- Geotechnical properties of the sediment subgrade
- Dredging or excavation technology used
- Dewatering technology and location (i.e., upland or on barge)
- Predicted water quality impacts associated with dredging or excavation
- Volume of excess water produced that will need to be managed
- River hydrodynamic conditions
- Water depth
- Navigational constraints
- Potential secondary impacts associated with implementation of proposed controls (e.g., adverse water quality impacts cause by installation or operation of the control)
- Timeline for implementing the control(s)
- Permitting requirements.

4.2 Dredge or Excavation Material Handling (Transportation and Treatment) Technologies

4.2.1 Transportation Technologies

After the material is dredged or excavated, the sediment will need to be handled and transported before disposal. Transport technologies include pipelines, barges, trucks, rail cars, and combinations of the above. An offloading facility may also be required in some combinations where the sediment has to be transferred from the water to upland. Screening of transportation technologies will focus on the following factors:

- Sediment physical properties, such as grain size, water content, and plasticity
- Volume of excess water produced
- Sediment bulking potential
- Removal technology used
- Site access
- Production rates
- Equipment availability
- Short-term water quality impacts during construction
- Navigational constraints
- Size and configuration of offloading facility

- Disposal Site location
- Disposal Site material requirements
- Disposal Site permits.

Transportation technologies that are sustainable will be promoted to the extent practicable, including those that:

- Minimization of air toxics emissions and greenhouse gas production
- Conserve natural resources and energy.

4.2.2 Treatment Technologies

The Feasibility Study will identify treatment technologies for screening and inclusion in the alternatives. Per USEPA guidance (USEPA 2005) "in-situ treatment, is currently under development and may become a viable alternative in the future." Based on previous contaminated sediment experience nationally and in Region 6 sediment treatment considered in the Feasibility Study will be limited to ex-situ technologies:

1. Physical treatment: physical force is applied to the sediment or water. Examples of physical treatment include separation technologies such as geotubes, hydrocyclones, gravity separation, or filtration.
2. Chemical treatment: chemical reactions bring about changes to the sediment or water. Chemical treatment is commonly used in conjunction with physical treatment to enhance contaminant removal or immobilization.

On the basis of past experience, treatment technologies are anticipated to consist only of dewatering or stabilization/solidification. Dewatering removes excess water from the dredged or excavated material. Stabilization/solidification immobilizes contaminants in sediment using chemical treatment. The reaction occurs with the use of such materials as cement, fly ash, or other similar materials. A beneficial side effect of the reaction is the improved handling characteristics of the sediment. Screening of treatment technologies will focus on the following factors:

- Sediment physical properties, such as grain size, water content, and plasticity
- Volume of excess water produced
- Removal and transport technology used
- Production rates
- Equipment availability
- Short-term water quality impacts during construction
- Disposal Site location
- Disposal Site material requirements.

5 DISPOSAL TECHNOLOGIES

Disposal could be on-site within a potential containment system or off-Site. Off-site disposal of the sediment dredged or excavated from the Site would need to be at a permitted Subtitle C or Subtitle D landfill, as appropriate.

Disposal at an on-site potential confined disposal facility will require dewatering and capping. Sediment would be placed within the potential confined disposal facility either mechanically or hydraulically. The sediment would be allowed to settle. The carriage water would be discharged back to the San Jacinto River after the appropriate settling time necessary to meet discharge requirements. Geotubes may be a remedial option used to facilitate settling.

Disposal at an off-site landfill will likely require dewatering, offloading, and transport by truck or rail to the landfill. The offloading could occur at the Site, but may also be at an off-site location.

Screening of on-site and off-site disposal technologies will focus on the following factors:

- Sediment physical properties, such as grain size, water content, and plasticity
- Removal, dewatering, and transport technology used
- Availability of potential waste handling areas
- Equipment availability
- Disposal site characteristics (area and depth)
- Disposal site location

- Disposal site material requirements
- Risk associated with off-site transport.

6 REFERENCE

USEPA, 2005. Contaminated Sediment Remediation Guidance for Hazardous Waste Sites. EPA-540-R-05-012. OSWER 9355.0-85. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, DC.

APPENDIX I
EPA COMMENTS RELATING TO PRELIMINARY SITE CHARACTERIZATION REPORT, AND RESPONSES

EPA Comments Relating to the Preliminary Site Characterization Report, and Responses

Comment No.	**Section**	**Page**	**Comment**	**Response to Comment - Proposed Revision**
1	1.3.2	1-4	When comparing Table 1-1 COIs to Table 1-2 COPCs, VOCs are eliminated from the list. Appendix C of the work plan explains the selection of COPC's. According to Appendix C, no VOCs were collected during 2006, but VOCs were eliminated. The rationale for eliminations of VOCs from the COPCs shall be included in the report.	Clarification will be provided in the final PSCR.
2	5.2.2	5-3	The report shall clarify why the existing surface water datasets are adequate.	Clarification will be provided in the final PSCR.
3	5.3	5-5	"One such dataset has undergone the required QA review (See Appendix A to COPC Technical Memorandum), and its classification was changed from Category 2 to Category 1. It is unclear which of the data sets listed was changed; the report shall be revised to clarify which dataset was changed to Category 1.	Clarification will be provided in the final PSCR.
4	5.4	5-8	This section indicates that none of the analyses or summaries in this document use TEQs calculated with bird or fish TEFs, but that Table 5-10 presents the bird and fish TEFs to be used in future analyses. The report shall be revised to clarify this. For human health risk assessment the WHO 2005 TEFs shall be utilized, not bird and fish TEFs.	Comment noted. Clarification will be added to the text of the final PSCR.
5	5.4	5-8	It is important to make sure that the TEQ screening level selected will be protective of both fish and aquatic dependent wildlife receptors. Appropriate TEFs shall be utilized when the risks are analyzed.	Comment noted.
6	6.1.1.3.2	6-9	Analyses performed on the waste samples using ASTM D 5084 is for hydraulic conductivity not permeability. References to permeability shall be corrected here and all other appropriate places in the. report. Also, the text "Falling Head, Rising Tail Hydraulic Conductivity..." shall be corrected to "...Rising Tailwater. .."	Clarification will be provided in the final PSCR.
7	6.1.1.5 (and other sections)	6-12	GWBU-A and GWBU-B were determined to be Class 3 groundwaters based on estimated TDS values calculated from conductivity measurements. The TDS values were estimated using a conversion factor of 0.75. The relationship between conductivity and salinity is dependent on the chemical makeup of the water and may vary. One reference (Water Monitoring and Assessment, EPA; http://water.epa.gov/type/rsl/monitoring/vms59.cfm) states that the factor may vary between 0.55 and 0.90. Further, according to the TCEQ Regulatory Guidance, TRRP-8, Section 2.6.1, "estimation of groundwater TDS based on measurement of specific conductance is not acceptable for the purpose of groundwater resource classification." The statements regarding the classifications of the groundwater bearing units shall be deleted.	Clarification will be provided in the final PSCR.
8	6.1.1.6	6-12 through 6-15	The report does not include interpretations of the stream flow. The report shall include a discussion of whether tidal flow has any stratification, whether there is a net flow landward at the bottom of the channel, and the tidal excursion length transportation of contaminants upstream.	Clarification will be provided in the final PSCR.
9	6.1.1.6.2	6-13	There is another USGS gage located on Peach Creek which shall be added to the other 6 tributaries. Peach Creek is a small watershed, but data is available and shall be used	Clarification will be provided in the final PSCR. Uncertainties associated with this data set will be discussed.

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			for any mass balance calculations.	
10	6.1.1.6.2	6-13	In-stream flows: This section describes how flow rates were determined and used for flood frequency analysis. However, this section shall state that the actual flow at the site has a lot of uncertainty due to tidal influence and potential overland flow from rain events downstream of Lake Houston Dam.	Clarification will be provided in the final PSCR.
11	6.1.1.6.2	6-14	The 16 yr-period shall be changed to 15 years; and the 24-yr period shall be changed to 25 years. The flood frequency analysis shall be provided in the report.	Clarification will be provided in the final PSCR.
12	6.1.1.6.5	6-14 and 6-15	The report shall provide reference to a map showing the location of the velocity collection (Figure 6-10) point. The report shall also clarify how stage was obtained. The text describes data in cubic feet per second units, but Figure 6-10 shows velocity in centimeter per second units. Consistent units shall be used in figures and the relevant discussion in the text.	Clarification will be provided in the final PSCR.
13	6.1.3	6-27	In the discussion of clams, the text regarding Cedar Bayou (as background), shall be replaced with the upstream background. No clams were collected in Cedar Bayou.	Clarification will be provided in the final PSCR.
14	6.2	6-28	The list of over-arching objectives shall also include evaluation of groundwater quality and fish tissue concentrations relative to state and federal water quality standards.	USEPA Guidance (USEPA 1988) indicates that risk-related analyses should not be included in a PSCR. Evaluation of chemical concentrations in tissue and environmental media relative to risk-based environmental quality standards will be addressed by the Remedial Investigation (RI) Report.
15	6.2.1.1	6-29	The discussion indicates that the upper tolerance limit (UTL) on background data is called the reference envelope value, or REV, and its derivation and use is discussed in the Data Interpretation Methods for the San Jacinto River Waste Pits RI/FS Memorandum (Integral 2010b). The referenced memo clearly lays out the UTL as the statistical representation for the REV. This seems to conflict with page 25 of the Final Tissue SAP, which states that an upper prediction limit (UPL) for the background data will be calculated to represent the reference envelope of background concentrations for each chemical in tissue. This conflict shall be resolved. Further, an appropriate test for data outliers shall be included with the background calculations.	The UPL values will be provided for COPC in tissue in the final PSCR.
16	6.2.1.1.1	6-30	The report shall clarify why there is no sub-surface samples collected for the reference (upstream) data set.	Clarification will be provided in the final PSCR.
17	6.2.1.2.1	6-32	The report shall include the rationale for the statistical methods used. A Kruskal-Wallis nonparametric AOV by ranks followed by an a posteriori test (Tukey Test) should be considered given the sample sizes available in the three Site locations and two background areas.	Clarification will be provided in the final PSCR.
18	6.2.1.3.2	6-37	Cedar Bayou tissue REVs were compared with historical tissue data (1969 through	Clarification will be provided in the final PSCR.

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			2008) collected within the San Jacinto River Estuary, with the conclusion that crab and fish tissue TEQ_{DF} values are decidedly greater within the historical data set. This discussion closes with a statement that "these results highlight a potential data gap in our understanding of offsite conditions with respect to evaluation of incremental risks resulting from contamination of tissues collected from on the Site and that additional information on the concentrations of dioxins and furans in edible crab and catfish tissues from background areas may be needed to effectively characterize off-Site risks…" The analysis shall also consider the possibility that this is an "apples and oranges" comparison from a temporal aspect since historical concentrations of dioxins and furans in the system are generally higher than present day concentrations.	
19	6.2.2	6-38	In Table 6-55, the Tau and p values for lipid-normalized tissue vs. OC-normalized sediment are the same for edible and whole body crab tissue. The report shall discuss the why this is the case and whether it is expected or not.	Clarification will be provided in the final PSCR.
20	6.2.2.1	6-39	This section indicates that a regression analysis was the method used to investigate sediment-tissue relationships. However, the calculation of site-specific BSAFs is important in order to be able to determine the acceptable sediment concentration to be protective of the human consumption of edible fish and shellfish. The report shall be revised to also include BSAFs in determining acceptable sediment concentrations for a comparison to the proposed method. For example, the TCEQ Regulatory Guidance RG-366/TRRP-24 suggests the determination of the acceptable sediment concentration (SedSedFish PCL) by dividing the acceptable fish tissue concentration (RBELFish) by the appropriate site-specific or literature-derived BSAF [SedSedFish PCL (mg/kg) = (RBELFish/BSAF)].	The Technical Memorandum on Bioaccumulation Modeling (Integral 2010a) describes the circumstances under which BSAFs may be used to derive concentrations in sediment that are associated with specific tissue concentrations. The Tissue SAP (Integral 2010b) includes calculation of BSAFs among DQOs, in response to a request by USEPA comments on that document. Because the potential use of regressions or BSAFs is to identify acceptable sediment concentrations (as noted by the comment), the presentation of BSAFs should be in the RI Report, which will address preliminary sediment remediation goals in depth. Presentation of BSAFs requires this broader context. This topic will be addressed in the RI Report.
21	6.2.2.1	6-39	The report shall provide the correlation results (i.e., R or R^2 as appropriate) between tissue and sediment TEQ for each of the various tissues.	The approved Technical Memorandum on Bioaccumulation Modeling describes several reasons that regression models should not be used for aggregate variables, such as TEQ. The requested statistic will be provided in the final PSCR, with the appropriate caveats.
22	6.2.2.1	6-39	The report shall subdivide the crab and catfish tissue data within the individual fish collection areas (FCAs) to possibly improve the correlation analysis. This may particularly improve the analysis if the subareas are subdivided into the areas closer and more distal to the waste pits.	The structure of the data set is such that the finest spatial resolution possible for any composite tissue sample is the level of the entire FCA; it is not possible to pair tissue samples within FCAs to specific sediment stations. The requested analysis cannot be performed.
23	6.2.2.1	6-39	The following presentations of data shall be included in the report to provide more transparency to this analysis: • Include a summary of dioxin and furan concentrations in surface sediment for each of the FCAs (similar to Table 6-17 for soil). • Summarize the paired sediment information that was used to compare with the clam and killifish tissue data (as presented in Tables 6-56 and 6-57). • Provide the data from the sediment averaging method to support the choice of the nearest four sediment samples for clams and killifish.	The requested additions will be provided in the final PSCR.

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24	6.2.2.3	6-41	Dioxin/furan patterns in clam tissue and associated sediments were plotted pair-wise in the series of figures presented in Appendix E. The fingerprint comparisons in Appendix E seem to indicate more of a correlation with distance from the pits than with the fingerprints of sediments associated with each transect. For instance, Transect 7 clam tissues appear to be enriched in site contaminants compared with those for Transect 8, even though both are in the area designated as "background." The report shall provide tables and maps that display the paired summary statistics for tissue and sediment data for each transect. The maps shall show the clam tissue concentration data and sample locations, and the sediment concentration data and sample locations. These would show the sediment data that was paired with the tissue data in the fingerprint displays in Appendix E. The table shall show all clam data (all congeners and TEQs) summarized by transect. The summary shall include the number of samples and minimum, maximum, median, and mean for each transect.	As described in the Technical Memorandum on Bioaccumulation Modeling (Integral 2010a), TCDD and TCDF are more readily absorbed and less readily eliminated by both fish and crabs than the other toxic dioxin and furan congeners. The uptake rates are controlled partly by the pore size of gill and gut membranes: the smaller tetrachlorinated congeners are more readily absorbed than the more chlorinated congeners, which are relatively large. This differential in uptake rates on the basis of molecular size is the reason for the relatively high proportion of TCDD and TCDF in clams, and is expected on the basis of findings of the Technical Memorandum on Bioaccumulation Modeling. The fingerprint in clam tissue does not imply that clams were exposed to Site contaminants. The requested map and tables will be developed and included in the final PSCR.
25	6.2.3.1	6-47	The description of the non-negative matrix factorization (NMF) method for un-mixing analysis shall note that the assumptions of the method are that individual congeners and contaminants are conserved (not degraded), and not differentially adsorbed or desorbed from sediment or soils. The report shall demonstrate the validity of these and any other inherent assumptions for this application.	Clarification will be provided in the final PSCR.
26	6.2.3.2.2	6-50	The report shall specifically relate the discussion in the last paragraph of this section to Table 6-59 for clarity.	Clarification will be provided in the final PSCR.
27	6.2.3.2.2	6-50	The unmixing analysis described here does identify the same two end members found in the TCEQ/U.S. EPA graphical evaluation (Turner and Broach, 2011) of the sediment data. The report's unmixing analysis does not address the drastically different TEQ values found in samples at either end of this spectrum. Samples that are almost entirely reflective of the EM1 signature generally have very low TEQ concentrations whereas samples that are closest to EM2 in their fingerprints have very high TEQ concentrations. The analysis shall be modified to include a characterization of this aspect of samples from the two ends of the spectrum. A table shall be included to summarize the range of the dioxin TEQ values for the 176 samples that had no detectable fraction of EM2, and another table summarizing the TEQ values for the samples with the highest percentage attributed to EM2. Looking at Table 6-59, it appears that about 10 sediment samples were estimated to contain more than 95% EM2. The table shall include one row that summarizes TEQs where the EM2 best estimate is zero. The columns would include number of values, TEQ maximum, minimum, and mean. A second row would be a TEQ summary for the sample locations where the EM2 best estimate value is 95% or more with the same column designations. The first row should include samples that are mostly EM1 (EM2 is zero), and the second row mostly EM2 (>95% EM2). The difference in the relative concentrations of TEQ_{DF} associated with the two end members is an important distinction to make, because a sample could have only 1% pit waste and still have a TEQDF concentration of around 300 ppt, which could still be	Clarification will be provided with additional text and one or more tables in the final PSCR. The related conclusions about the spatial distribution of wastes from within the impoundments will be appropriately qualified in this context.

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			significant. The discussion about the distance waste may have traveled from the pit or which samples contain "significant" amounts of site contaminants, shall take into account the relative toxicity associated with the different end members.	
28	6.2.3.2.3	6-50	The last sentence in the first paragraph shall be revised to state that the EM2 pattern source material is not confined within the perimeter of the 1966 impoundments, but that the largest part is within the impoundment.	Clarification will be provided as requested in the final PSCR.
29	6.2.3.3	6-53	Summary statements are made about the Site although it appears that only data from north of I-10 were used. The report shall clarify the basis for the summary statements in this section.	Clarification will be provided in the final PSCR.
30	6.2.3.3	6-53	The last two bullets shall be revised to reflect the information regarding the relative contribution of EM1 versus EM2 end members to the overall TEQ_{DF} for sediments in the waste pits and those outside the pits but within the U.S. EPA's preliminary site perimeter.	Clarification will be provided as requested in the final PSCR.
31	6.2.4.1	6-54	The discussion indicated that groundwater concentrations from all six monitoring wells and that at well SJMWS04 (identified as "perched") were below the TRRP GW $Class_3$ PCL applicable to dioxins and furans as 2,3,7,8-TCDD TEQ (3,000 pg/L). The groundwater ingestion pathway may not be the only relevant pathway for comparison. Groundwater shall also meet other relevant ecological and human health PCLs as dictated by the final conceptual site model. These include groundwater-to-surface water/sediment PCLs protective of wildlife and benthos, and groundwater-to-surface water/sediment PCLs protective of human health (for fish and shellfish consumption).	Because additional studies addressing groundwater and effectiveness of the time critical removal action (TCRA) cap will occur in 2012, interpretation of groundwater data and discussion of the transport pathways from perched water within the wastes will be presented in the RI Report.
32	6.2.4.4.3	6-56	The transport of dioxins and furans through groundwater is highly unlikely due to the. nature of the contaminant and the geology of the site. The perched zone does have a potential for lateral movement towards surface water bodies and thus is a potential pathway to receptors and shall be considered in the conceptual site model. The report states that well SJMWS04 had the only detection of 2,3,7,8-TCDD in any well. However, other dioxins were detected, and the PSCR shall be revised to reflect this. The "perched" subsurface zone of saturation in soils of the north impoundment waste pit is considered to be groundwater (Fetter, 1988; Todd, 1980; TCEQ, 2010; Sec 6.2.4.4.3, Subject Report) in which leachate forms and from which leachate migrates. Analytical results indicate groundwater in the waste impoundment soils is affected (Sec 6.2.4.4.3, Subject Report). As such, the groundwater-to-surface water exposure pathway and the groundwater-to-sediment exposure pathway are potentially open until they can be closed by evaluation. The report shall be revised to reflect this. Appendix G (Subject Report) shall also reflect those exposure pathways.	The CSM will be revised to show transport and dispersal from mill wastes in the impoundments to sediment porewater. The correction will be included in the final PSCR. Please see the response to comment 31. Appendix G is included to provide direct excerpts from prior documents and therefore should not be edited. The main text can be revised to reflect uncertainties in transport pathways, as noted above.
33	6.3.1.2	6-65	The sentences regarding the conclusion that dioxins and furans have not been significantly released from the southern impoundments shall be deleted. Previous sampling did not include the entire southern impoundment area or all media (groundwater was not sampled), and additional sampling is being planned to determine the extent of contamination there. The groundwater-to- surface water/sediment	Clarification that uncertainties exist and that additional studies will take place will be provided in the final PSCR.

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			exposure pathways are considered to be open in lieu of information to the contrary and the south impoundment CSM shall reflect this.	
34	6.3.2.3.2	6-70	This section fails to address the groundwater in the soils inside the north waste impoundment and the associated groundwater-to-surface water/sediment pathways. The report shall be revised to include these pathways.	Please see responses to comments 31 and 32.
35	6.4.3	6-70	This section fails to address the groundwater in the soils inside the south waste impoundment and the associated groundwater-to-surface water/sediment pathways. The report shall be revised to include these pathways.	Please see responses to comment 33.
36	7.2.2	7-11	The report mentions the groundwater study for the Site. It is not clear which study is being referenced, and the report shall include a reference for this groundwater study.	Clarification will be provided in the final PSCR.
37	7.2.3.2.1	7-13	The characterization that sediment concentrations southwest of the peninsula do not show dioxin and furans contamination above background is not accurate. Surface sediment samples in this area contained 52.6 and 49.3 ng/kg TEQ_{DF} concentrations. The report shall be revised to correct this.	Clarification will be provided in the final PSCR.
38	7.2.3.2.2	7-14	This section states that there is enough evidence to exclude groundwater from the south impoundment. The discussion of groundwater in this section is similar to that for the north impoundment. That is, the contention that "groundwater" does not exist in the impoundment, only beneath isolating non-transmissive units. Such contentions are not valid and the report section shall be amended to reflect the objectives of the future south impoundment groundwater study and the sampling of groundwater within the soils of the waste impoundment. Groundwater shall not be eliminated as a potential pathway until proven otherwise at the south impoundment.	Clarification will be provided, including mention of additional studies to occur in 2012, in the final PSCR.
39	7.3.3	7-16	Statements regarding groundwater studies and COPC transport in groundwater for the south impoundment area (last two sentences in section) are not valid and shall be removed. No groundwater investigation of the soils within the south waste impoundment has yet been performed.	Clarification will be provided and uncertainties will be discussed in the final PSCR.
40	8.1.3.2	8-6	Concentrations of most COPCs in tissues are reportedly not well correlated with concentrations in nearby sediments. The report shall discuss potential explanations for this, which may include selective uptake of biota and/or sediment and biota movement.	Text will be added to the final PSCR as requested.
41	8.1.3.4 and 8.1.4	8-7	These sections shall be amended to reflect the changes that will be made based on the above comments. Such changes shall include deleting statements that omit discussion of, or otherwise mischaracterize the occurrence of groundwater in the soils of the north waste impoundment and transport of COPCs within that groundwater.	Clarification will be provided in the final PSCR.
42	8.2.3	8-11	The discussion states that because sediments in the Old River to the west of the southern impoundment area demonstrate a very small potential contribution of dioxin and furan mixture representing the paper mill wastes (5 percent) in these samples, this indicates that there is no significant pathway from soil contamination to the aquatic	Clarification will be provided in the final PSCR.

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			environment in this area and those pathways have been modified in the corresponding conceptual site model as "incomplete or minor." However, this designation is deemed premature until additional sediment data is available to reflect sediment concentrations along the perimeter of this area; this discussion shall be deleted until further sampling of the Southern Impoundment are(l has been completed, and the pathway modification in Figure 6-33 showing these pathways as "incomplete or minor" shall be removed.	
43	8.2.3 and 8.2.4	8-10	These sections shall be amended to reflect the changes that will be made based on the above comments. Such changes will include deleting statements that omit discussion of, or otherwise mischaracterize the occurrence of groundwater in the soils of the south waste impoundment and transport of COPCs within that groundwater.	Clarification will be provided in the final PSCR.
44	Table 3-1		This table presents potential ARARs (applicable or relevant and appropriate requirements) for the Site. Regarding the Texas Surface Water Quality Standards (TSWQS), the table states that "surface water quality standards are potentially relevant to the determination of risks, but should not override any site-specific toxicity values or risks determined through the risk assessment process." The PSCR shall be revised to state that the Texas Surface Water Quality Standards are ARARs. The TSWQS do specify human health fish only criteria for dioxins/furans.	Clarification will be provided in the final PSCR.
45	Table 5-5		This table lists tissue analysis for many other fish species; this dioxin and furan data shall be compared in the Exposure Assessment to the tissue analysis developed for the report, to confirm that the contemporary tissue data are representative of edible tissue and ecological exposure.	A table presenting the requested data is in preparation and will be presented as Appendix B in the draft Exposure Assessment Memorandum.
46	Tables 5-6 and 5-7		Table 5-6 for sediment collected for the RI includes VOCs, but table 5-7 does not include VOCs for groundwater. The report shall clarify why VOCs are not included for groundwater.	Clarification will be provided in the final PSCR.
47	Tables 6-3 through 6-30		The summary tables include a column called all data mean. It is unclear what this mean represents. For instance, Table 6-5 shows thallium with two detections with a minimum of 3.42 and maximum of 3.5, but the mean is 1.34. There are no detections for Aroclor 1016 in Table 6-6, but yet the mean is 545. The report shall be clarified regarding what the reported means represent, and how multiple detection limits were used for statistical analysis. The report shall include the raw data sets.	The arithmetic mean was calculated using all of the data, including non detects substituted at one-half the detection limit. The range shows only detected values. Clarification will be provided in the final PSCR.
48	Tables 6-45 through 6-53		The REV for most COPCs/media exceeds the maximum concentration in the background data set. This aspect of the REV calculation shall be documented and be considered in the future, in the context of any comparisons of site data to background.	Clarification will be provided in the final PSCR.
49	Figure 6-7		The shallow monitoring well symbol is different on the map than on the legend; the figure shall be corrected to provide consistent symbols. In addition, the figure shall include an explanation of the light grey line that starts just northwest of SJMWS04 and runs towards SJMWS03.	Clarification will be provided in the final PSCR.

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50	Figure 6-32		This figure shows exposure pathways in terms of complete significant, complete minor, and incomplete. If a pathway is considered to be complete, then regardless of whether it is considered minor or significant it shall be evaluated.	The figure will be modified as requested.
51	References		The reference list shall be updated with the final University of Houston and Parsons, 2009 TMDL. The reference is a draft final.	The reference list will be modified as requested. *[Feb. 16, 2012: The reference listed is in fact the one that was used to support the statement; it remains unchanged in the refererence list.]*
52	References		The Van den Berg reference on page 5-8 (1998) shall be added to the references.	The reference list will be modified as requested. *[Feb. 16, 2012: The reference listed was incorrectly dated 1997; it has been corrected.]*
53	References		The TCEQ 2010 reference (page 6-11) for classification of groundwater shall be added to the reference list.	The reference list will be modified as requested if the reference is used in the final PSCR. *[Feb. 16, 2012: The reference appears on p. 9-5]*
54	References		Abdi 2007 is listed as a reference, but the citation in the text was not found. This reference citation shall be added to the text.	Clarification will be provided in the final PSCR. *[Feb. 16, 2012: The reference was inadvertently included in the list; it is not cited and has been removed from the list.]*
55	References		There are two Howell references for 2011, but it is not clear which Howell reference belongs to the selected text. These citations shall be clarified.	Clarification will be provided in the final PSCR. *[Feb. 16, 2012: The two references have been differentiated and clarified in text and the list.]*
56	References		TCEQ and USEPA 2006 is listed as a reference, but the citation in the text was not found. This reference citation shall be added to the text.	Clarification will be provided in the final PSCR. *[Feb. 16, 2012: The reference is cited in Table 5-3.]*
57	References		TSDH 1966 is listed as a reference, but the citation in the text was not found. This reference citation shall be added to the text.	The reference will be deleted from the reference list. It was not used.
58	References		USEPA 1991 is listed as a reference, but the citation in the text was not found. This reference citation shall be added to the text.	Clarification will be provided in the final PSCR. *[Feb. 16, 2012: The reference has been removed the list.]*
59	References		USEPA 2010C is listed as a reference, but the citation in the text was not found. This reference citation shall be added to the text.	Clarification will be provided in the final PSCR. *[Feb. 16, 2012: The reference is cited in Table 5-10.]*
60	Appendix G1, Section 4.1		The report shall clarify the basis for the selected surrogate receptors.	Clarification will be provided in the final PSCR.

References

Integral, 2010a. Technical Memorandum on Bioaccumulation Modeling, San Jacinto River Waste Pits Superfund Site. Prepared for McGinnes Industrial Maintenance Corporation, International Paper Company, and U.S. Environmental Protection Agency, Region 6. Integral Consulting Inc., Seattle, WA. September 2010.

Integral, 2010b. Sampling and Analysis Plan: Tissue Study, San Jacinto River Waste Pits Superfund Site. Prepared for McGinnes Industrial Maintenance Corporation, International Paper Company, and U.S. Environmental Protection Agency, Region 6. Integral Consulting Inc., Seattle, WA. September 2010.

USEPA, 1988. Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Washington, DC.