



November 22, 2019

Lynn Nakashima
Department of Toxic Substances Control
700 Heinz Avenue, Suite 200C
Berkeley, California 94710

Sara Ziff
U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street
San Francisco, California 94105

**Subject: Corporation Yard, Data Gap Sampling Results
Richmond Field Station
University of California, Berkeley**

Dear Ms. Nakashima and Ms. Ziff:

On behalf of the University of California Berkeley, Tetra Tech, Inc. conducted a data gap investigation as a follow-up to the removal action conducted at the Corporation Yard in 2017-2018. The purpose of the investigation is to determine the mean concentrations of polychlorinated biphenyls (PCB) within the near surface (0-2 inches below ground surface) within the entire Corporation Yard, Building 185, and north of Building 197 (investigation areas). The investigation areas are shown on Figure 1, as well as PCB results from sampling conducted within the East Meadow in 2018.

The mean concentrations will be used to scope additional activities consistent with (1) the Toxic Substance Control Act (TSCA) Risk-Based Disposal Approval Application for the Corporation Yard, dated August 10, 2017, and (2) the Removal Action Workplan for the Corporation Yard, dated July 18, 2014. Additional sampling was required since the cleanup goal of 1 milligram per kilogram (mg/kg) identified in the Removal Action Workplan was not achieved at all excavations during the 2017-2018 removal action.

Sampling Locations and Protocols

Incremental Sampling Methodology (ISM) was used to collect soil samples from decision units identified on Figure 1. ISM was selected for this project to provide a comprehensive and thorough evaluation of chemical concentrations in a specific volume of soil, or decision unit. The result of each ISM sample is used as the mean concentration for the decision unit. ISM is an approved sampling methodology by U.S. EPA under its TSCA Program. Sampling locations and protocols were conducted in accordance with the Corporation Yard, Data Gap Sampling Approach Letter, dated August 29, 2019. There were no deviations from the sampling approach letter.

- Decision units were selected to provide lateral characterization of surface soils at areas where the PCB cleanup level of 1 mg/kg was not achieved during the 2017-2018 removal action, consisting of Excavations 3A, 3B, 4, and 8. The investigation area also includes the surface soils subject to surface flow to the storm drain southwest of Excavation 5, since the stormdrain and Excavation 5 contained PCBs above 1 mg/kg.

- DU1, DU2, and DU3 are intended to characterize the lateral areas adjacent to Excavation 8. Confirmation samples at Excavation 8 exceeded 1 mg/kg at the north and west sidewalls.
- DU4 and DU8 are intended to characterize the lateral areas adjacent to Excavation 4. Confirmation samples at Excavation 4 exceeded 1 mg/kg at the north and south sidewalls. Excavation 4 is bound to the west by the Building 120 foundation, and to the east by the property boundary.
- DU5 and DU6 are intended to characterize the lateral areas adjacent to Excavation 3B. Confirmation samples at Excavation 3B exceeded 1 mg/kg at the north and west sidewalls. The excavation is bound to the south by Excavation 3A and to the east by Building 120.
- DU7 and DU8 are intended to further characterize the lateral area adjacent to Excavation 3A. Confirmation samples at Excavation 3A exceeded 1 mg/kg at all sidewall samples and within surface samples collected following the removal action, as shown on Figure 2. The area southeast of Excavation 3A was not proposed for sampling as it covered by 3-4 inches of concrete.
- DU9 through DU17 are intended to characterize the surface soils potentially transported by stormwater runoff from the Excavation 3A area to the storm drain southwest of Excavation 5.
- PCBs were not identified as chemicals of concern at Excavations 1, 2, 6, and 7. Confirmation samples for PCBs at Excavation 9 were below 1 mg/kg.
- 75 increments were collected from within each decision unit. The corners and edges of each decision unit were marked with flags, and the spacing of increments was determined in the field based on the shape of each decision unit. The precise location of each increment is not critical, as long as they are distributed evenly throughout the decision unit.
- Increments were collected from the top 2 inches of the native surface with a disposable scoop. In some areas, the native surface is the current surface cover; however, where gravel was present, the gravel was removed prior to collecting the increment. Each increment was approximately 20 grams of soil.
- Increments from each decision unit were placed directly into a 32-ounce glass jar. Each jar was labeled and packed into an insulated cooler; the use of ice packs was not necessary for the preservation of samples analyzed for PCBs. The samples were transported under chain-of custody procedures directly to Enthalpy Laboratory in Berkeley, California.
- Field triplicates were collected from two random decision units: DU4 and DU11. A field triplicate consists of the collection of 75 increments thrice within the same decision unit from different locations. The primary purpose of the field triplicate is to evaluate the effectiveness of the ISM sample to capture any PCB contaminant variability within the decision unit. The field triplicate results will also inherently include any laboratory variability. The third field triplicate was also evaluated three times by the laboratory as a laboratory replicate. The purpose of the

laboratory replicate is to evaluate variability present from the laboratory subsampling and evaluation methods. Together, the field and laboratory replicates constitute a nested triplicate.

Analyses and Results

Soil samples were processed according to Enthalpy's internal ISM protocol. The approximate 1.5 kilogram sample was subsampled to a final analytical aliquot of 30 grams. Samples were analyzed for PCBs by EPA Method 8082 with 3540C Soxhlet extraction.

Sample results are screened with cleanup criteria of 1 mg/kg as identified in the Removal Action Workplan. Analytical results are presented below and presented on Figures 2 and 3.

	PCBs		
	Aroclor-1254	Aroclor-1260	Total Aroclors
Screening Criteria	1	1	1
Sample ID			
DU01	1.1	0.40	1.5
DU02	0.65	0.32	0.97
DU03	1.2	0.31	1.5
DU04-T1	4.2	1.4	5.6
DU04-T2	3.1	1.2	4.3
DU04-T3A	4.2	1.2	5.4
DU04-T3B	0.98	0.21	1.2
DU04-T3C	0.94	0.18	1.1
DU05	0.78	0.24	1.0
DU06	2.7	0.60	3.3
DU07	3,900	630	4,500
DU08	5.2	1.5	6.7
DU09	0.48	0.20	0.68
DU10	2.2	0.56	2.8
DU11-T1	ND	0.058	0.060
DU11-T2	ND	0.067	0.070
DU11-T3A	ND	ND	ND
DU11-T3B	0.17	0.11	0.28
DU11-T3C	0.17	0.098	0.27
DU12	0.46	0.15	0.61
DU13	ND	0.063	0.060
DU14	0.16	0.041	0.20
DU15	0.34	0.130	0.47
DU16	0.72	0.120	0.84
DU17	0.77	0.150	0.92

Notes:

- **Bold values** indicate that the result exceeds the Toxic Substances Control Act (TSCA) criteria for high occupancy areas with no cap, 40 CFR 761.61 (a).
- DU4-T1, -T2, -T3 and DU11-T1, -T2, -T3 are field triplicate sets
- DU4-T3A, -T3B, T3C and DU11-T3A, -T3B, T3C are laboratory triplicate sets
- All results presented in milligrams per kilogram (mg/kg). Total results presented with two significant figures.
- All other Aroclors were non-detect in all samples.

Mean concentrations at DU1, DU3, DU4, DU5, DU6, DU7, DU8, and DU10 are over the screening criteria of 1 mg/kg for individual or total PCBs.

Mean concentrations at DU2, DU9, DU11, DU12, DU13, DU14, DU15, DU16, and DU17 are below the screening criteria of 1 mg/kg for individual and total PCBs.

Quality Assurance Evaluation

The collection of field and laboratory samples allows the calculation of the relative standard deviation (RSD) of the three sample results for each replicate set. The RSD can be used to help evaluate field precision, representativeness, and reproducibility. UC Berkeley recommended that an RSD of 35 be used as a benchmark for evaluation; however, other factors such as the relative difference between the measured concentrations and the action level are also considered. The benchmark is not intended to be used as a pass/fail criteria.

- The laboratory triplicate RSD provides an indication of the variability associated with the subsampling as well as analytical procedures.
- The field triplicate RSD provides an indication of the field collection variability (how well the ISM sample and increments represent the average concentration of the decision unit) as well as the laboratory variability identified in the laboratory RSD. The laboratory RSD is a subset of the field RSD.

The RSD evaluations were conducted on the total PCB concentrations, as presented below.

	Triplicate 1	Triplicate 2	Triplicate 3	Mean	Standard Deviation	RSD
Laboratory Triplicates	DU4-T3A	DU4-T3B	DU4-T3C			
	5.4 mg/kg	1.2 mg/kg	1.1 mg/kg	2.6	2.5	96%
	DU11-T3A	DU11-T3B	DU11-T3C			
	0.13 mg/kg ⁽¹⁾	0.28 mg/kg	0.27 mg/kg	0.2	0.1	37%
Field Triplicates	DU4-T1	DU4-T2	DU4-T3 ⁽²⁾			
	5.6 mg/kg	4.3 mg/kg	2.6 mg/kg	4.2	1.5	36%
	DU11-T1	DU11-T2	DU11-T3 ⁽²⁾			
	0.060 mg/kg	0.070 mg/kg	0.23 mg/kg	1.2	1.0	80%

Notes:

1. Laboratory reporting limit used as surrogate for non-detect.
2. Respective average concentrations of laboratory triplicates were used to represent DU4-T3 and DU11-T3.

The laboratory replicates from DU4 indicate an elevated RSD value, signifying significant variability within the laboratory subsampling or analytical process. The results cannot indicate which is the specific source of variability. Field techniques or sampling protocols cannot reduce or impact laboratory replicate results. The field replicates from DU4 indicate an acceptable RSD, indicating that while the laboratory variability was elevated, it did not have a significant effect on the overall variability of the sample reporting.

The laboratory replicates from DU11 are acceptable. The field replicates from DU11 indicate an elevated RSD value, but this is a statistical attribute resulting from the low sample concentrations. The elevated RSD is not associated with field sampling techniques or number of increments. The concentration difference between the highest and lowest reported concentrations is 0.17 mg/kg; therefore, the elevated RSD does not have a significant effect on the overall variability of the sample reporting.

The overall quality assurance, field and laboratory protocols, number of increments, and data usability based on the laboratory and field replicates is considered acceptable.

The data collected during this investigation will be presented with the comprehensive data from the Corporation Yard removal action.

If you have any questions or comments regarding this submittal, please call me at (415) 497-9060 or Alicia Bihler at (510) 725-2528.

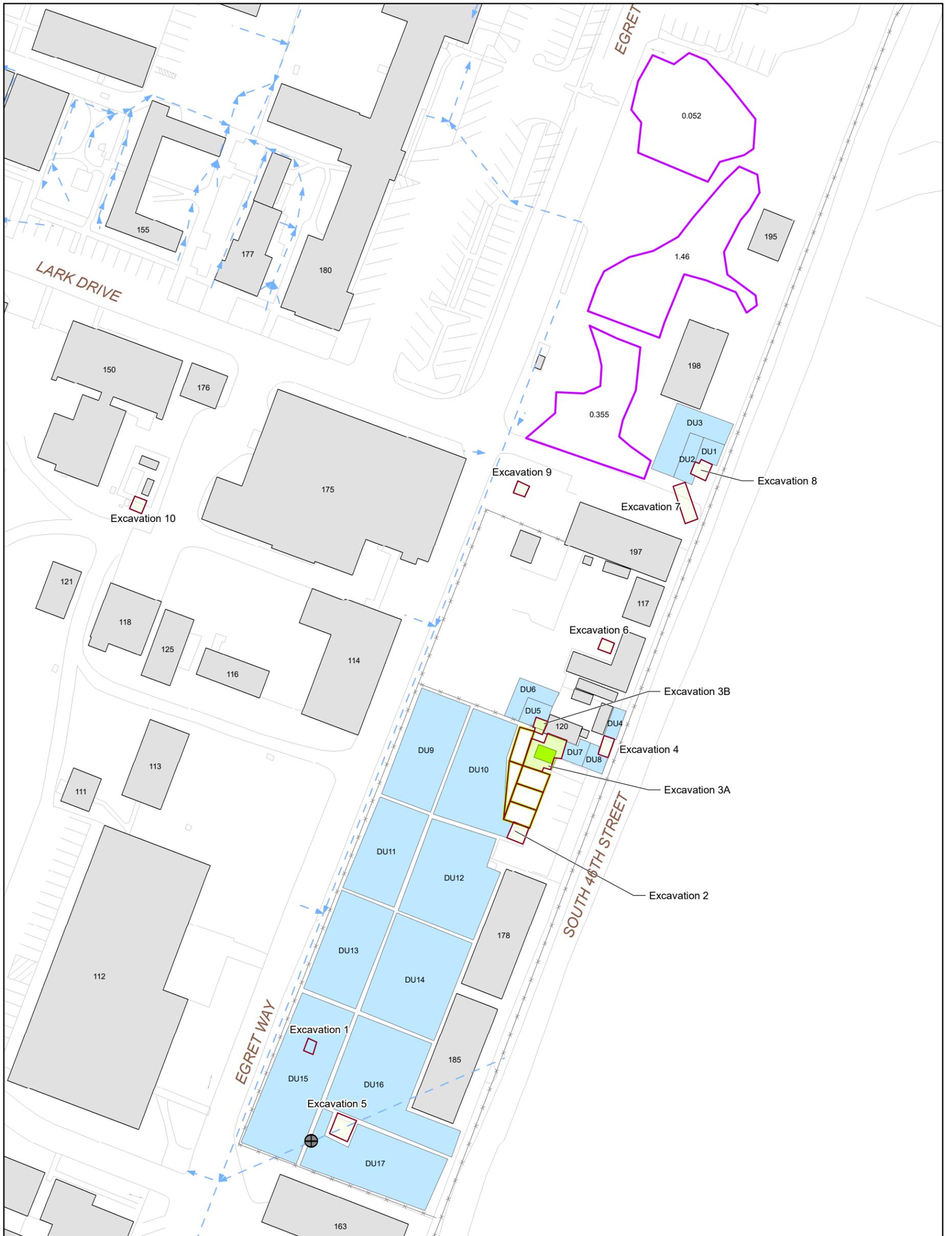
Sincerely,



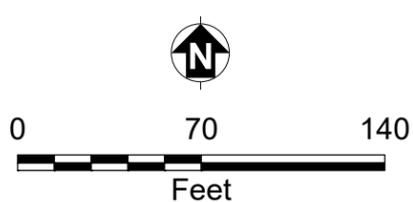
Jason Brodersen, P.G.
Project Manager

Attachments: Figure 1 Decision Unit Locations
Figure 2 Decision Units 1 Through 8
Figure 3 Decision Units 9 Through 17
Laboratory Data Package

cc: Alicia Bihler, UC Berkeley EH&S

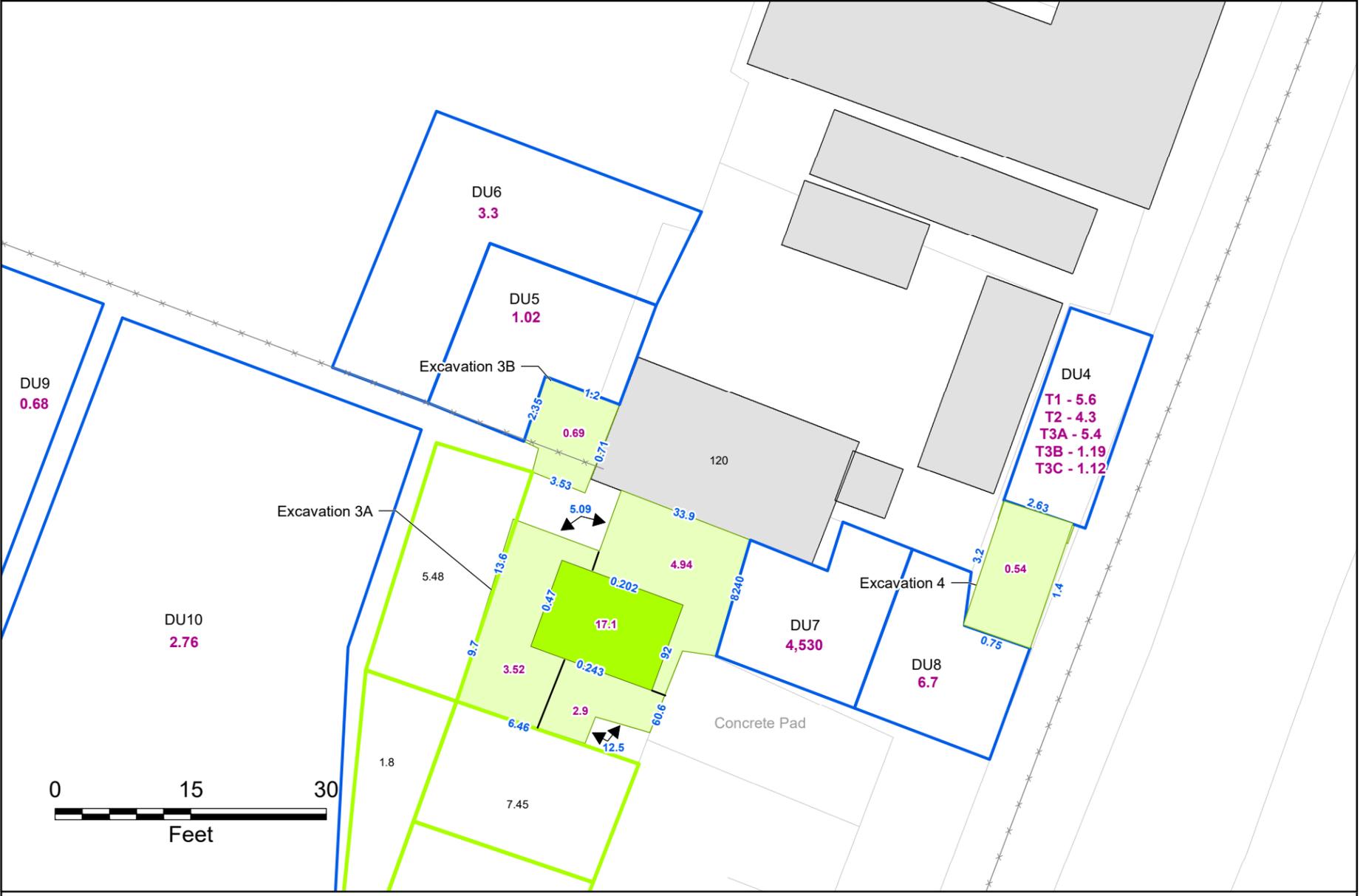


- Final Excavation Depth 1.5 feet
- Final Excavation Depth 3.5 feet
- East Meadow Decision Unit, PCB totals from incremental samples shown in mg/kg
- New Decision Unit
- Buildings
- Fenceline
- Roads and other Landscape Features
- Storm Water Lines and Direction of flow
- + Storm Water Inlet



Richmond Field Station Site
University of California, Berkeley

FIGURE 1
DECISION UNIT LOCATIONS



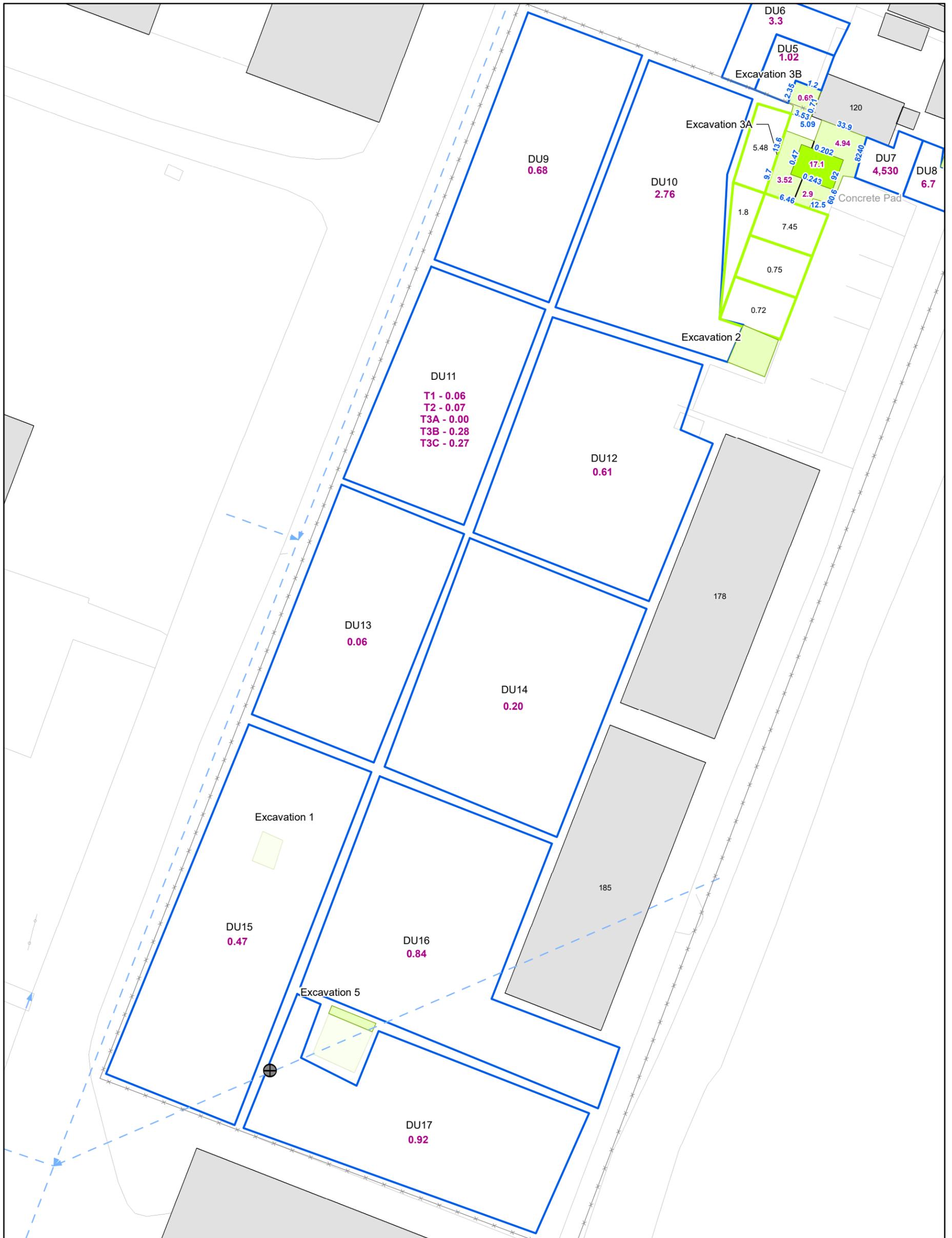
- Final Excavation Depth 1.5 feet
- Final Excavation Depth 3.5 feet
- New Decision Unit
- Buildings
- Fenceline
- Roads and other Landscape Features

Note:
 1. Results presented are total PCBs shown in mg/kg.



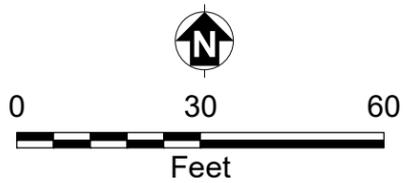
Richmond Field Station Site
 University of California, Berkeley

FIGURE 2
DECISION UNITS 1 THROUGH 8



- Final Excavation Depth 1.5 feet
- Final Excavation Depth 3.5 feet
- New Decision Unit
- Buildings
- Fenceline
- Roads and other Landscape Features

Note:
1. Results presented are total PCBs shown in mg/kg.



Richmond Field Station Site
University of California, Berkeley

FIGURE 3
DECISION UNITS 9 THROUGH 17



Enthalpy Analytical
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900

enthalpy.com

Lab Job Number: 314374
Report Level: IV
Report Date: 11/22/2019

PCBs

Analytical Report *prepared for:*

Jason Brodersen
Tetra Tech EMI
1999 Harrison Street
Suite 500
Oakland, CA 94612

Project: 103S582304.02 - Corp Yard Data Group Sampling - RFS

Authorized for release by:

John Goyette, Director, Client Services
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 2896, NELAP# 4044-001

Sample Summary

Jason Brodersen Tetra Tech EMI 1999 Harrison Street Suite 500 Oakland, CA 94612	Lab Job Number: 314374 Project No: 103S582304.02 Project Name: Corp Yard Data Group Sampling - RFS Dates Received: 09/26/19,09/27/19,09/30/19
---	--

Sample ID	Lab ID	Collected	Matrix
20190925-CORP-DU9	314374-001	09/25/19 08:40	Soil
20190926-CORP-DU10	314374-002	09/26/19 16:20	Soil
20190925-CORP-DU12	314374-003	09/25/19 17:00	Soil
20190926-CORP-DU13	314374-004	09/26/19 13:45	Soil
20190926-CORP-DU14	314374-005	09/26/19 11:30	Soil
20190926-CORP-DU15	314374-006	09/26/19 08:50	Soil
20190926-CORP-DU16	314374-007	09/26/19 10:50	Soil
20190926-CORP-DU17	314374-008	09/26/19 09:50	Soil
20190926-CORP-DU11-T1	314374-009	09/25/19 15:30	Soil
20190926-CORP-DU11-T2	314374-010	09/25/19 15:45	Soil
20190926-CORP-DU11-T3A	314374-012	09/25/19 16:00	Soil
20190926-CORP-DU11-T3B	314374-013	09/25/19 16:00	Soil
20190926-CORP-DU11-T3C	314374-014	09/25/19 16:00	Soil
20190927-CORP-DU1	314374-015	09/27/19 10:00	Soil
20190927-CORP-DU2	314374-016	09/27/19 09:40	Soil
20190927-CORP-DU3	314374-017	09/27/19 17:05	Soil
20190927-CORP-DU4-T1	314374-018	09/27/19 11:35	Soil
20190927-CORP-DU4-T2	314374-019	09/27/19 12:45	Soil
20190927-CORP-DU4-T3A	314374-021	09/27/19 13:35	Soil
20190927-CORP-DU4-T3B	314374-022	09/27/19 13:35	Soil
20190927-CORP-DU4-T3C	314374-023	09/27/19 13:35	Soil
20190927-CORP-DU7	314374-024	09/27/19 13:15	Soil
20190927-CORP-DU8	314374-025	09/27/19 14:24	Soil
20190930-CORP-DU5	314374-026	09/30/19 13:50	Soil
20190930-CORP-DU6	314374-027	09/30/19 12:45	Soil

Case Narrative

PCBS (EPA 8082)

Tetra Tech EMI
1999 Harrison Street
Suite 500
Oakland, CA 94612
Jason Brodersen

Lab Job Number: 314374
Project No: 103S582304.02
Location: Corp Yard Data Group Sampling - RFS
Dates Received: 09/26/19, 09/27/19, 09/30/19

This data package contains sample and QC results for twenty five soil samples, requested for the above referenced project on 09/30/19. See attached cooler receipt form for any sample receipt problems or discrepancies.

PCBs (EPA 8082):

All samples underwent sulfuric acid cleanup using EPA Method 3665A.

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B.

Marginally high response was observed for Aroclor-1260 in the CCV analyzed 10/23/19 04:48; affected data was qualified with "b".

Matrix spikes QC993609, QC993610 (batch 274760) were not reported because the parent sample required a dilution that would have diluted out the spikes.

The samples underwent ISM preparation.

No other analytical problems were encountered.

Chain of Custody

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 314374 Client: TETRA TECH
 Date Received: 9/26/19 Project: _____



Section 2: Shipping info (if applicable) _____
 Are custody seals present? No, or Yes. If yes, where? on cooler, on samples, on package
 Date: _____ How many _____ Signature, Initials, None
 Were custody seals intact upon arrival? Yes No N/A
 Samples received in a cooler? Yes, how many? _____ No (skip Section 3 below)
 If no cooler Sample Temp (°C): 22.4 using IR Gun # B, or C
 Samples received on ice directly from the field. Cooling process had begun
 If in cooler: Date Opened 9/26/19 By (print) Rv (sign) Rv

Section 3: Important : Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____
 Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels
 Samples received on ice directly from the field. Cooling process had begun
 Type of ice used : Wet, Blue/Gel, None Temperature blank(s) included? Yes, No
 Temperature measured using Thermometer ID: _____, or IR Gun # B C
 Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	X		
Were Method 5035 sampling containers present?		X	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	X		
Are there any missing / extra samples?		X	
Are samples in the appropriate containers for indicated tests?	X		
Are sample labels present, in good condition and complete?	X		
Does the container count match the COC?	X		
Do the sample labels agree with custody papers?	X		
Was sufficient amount of sample sent for tests requested?	X		
Did you change the hold time in LIMS for unpreserved VOAs?			X
Did you change the hold time in LIMS for preserved terracores?			X
Are bubbles > 6mm present in VOA samples?			X
Was the client contacted concerning this sample delivery?		X	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			X
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check? pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
<input type="checkbox"/> H2SO4 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HCL lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> HNO3 lot# _____ added to samples _____ on/at _____			
<input type="checkbox"/> NaOH lot# _____ added to samples _____ on/at _____			

Section 6:
 Explanations/Comments: _____

Date Logged in 9/27/19 By (print) Rv (sign) Rv
 Date Labeled 9/27/19 By (print) MR (sign) MR



314374

1999 Harrison Street, Suite 500
Oakland, CA 94612-3599
Phone: 510-302-6302
Fax: 510-433-0830

Lab PO#:	Lab: Enthalpy
----------	----------------------

Project Name: Corp Yard Data Gap Sampling - RFS	Tt technical contact: Jason Brodersen 415-497-9060	Field samplers: Mike Ferrif, Elaina McDonald
Project number: 1035582304.02	Tt project manager: Jason Brodersen	Field samplers' signatures: <i>[Signatures]</i>

No./Container Types						Analysis Required															
40 ml VOA	1 liter Amber	500 ml Poly	Sleeve	Glass Jar		VOA	SVOA	Pest/PCBs	Metals	TPH Purgeables	TPH Extractables	ISM Pipe w/ 75 increments	PCBs (B062) w/ S04LET	EXTRACTABLES							
				2								X	X								
				2								X	X								
				2								X	X								
				2								X	X								
				2								X	X								
				2								X	X								
				2								X	X								
				2								X	X								

15
16
17
18
19
21
22
23
24
25

Sample ID	Sample Location (Pt. ID)	Date	Time	Matrix	MS / MSD
20190927-CORP-DU1		9/27/19	1000	Soil	
20190927-CORP-DU2		9/27/19	0940	Soil	
20190926-CORP-DU3		9/26/19	1705	Soil	
20190927-CORP-DU4-T1		9/27/19	1135	Soil	
20190927-CORP-DU4-T2		9/27/19	1245	Soil	
20190927-CORP-DU4-T3A		9/27/19	1335	Soil	
20190927-CORP-DU4-T3B		9/27/19	1335	Soil	
20190927-CORP-DU4-T3C		9/27/19	1335	Soil	
20190927-CORP-DU7		9/27/19	1315	Soil	
20190927-CORP-DU8		9/27/19	1424	Soil	

Relinquished by:	Name (print)	Company Name	Date	Time
<i>[Signature]</i>	Elaina McDonald	Tetra Tech	9/27/19	1543
Received by: <i>[Signature]</i>	Jessica Silberman	Enthalpy	9/27/19	1543
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Turnaround time/remarks:
 ① Subsample T3 three times for analyses ★ Please report with samples on COC# 20045
 - Standard TAT
 Fed Ex #:

314374

Chain of Custody Record No. 20047

1999 Harrison Street, Suite 500
Oakland, CA 94612-3599
Phone: 510-302-6302
Fax: 510-433-0830

Lab PO#:		Lab:			Preservative Added													
		Enthalpy			No./Container Types						Analysis Required							
Project Name:	Tt technical contact:	Field samplers:			MS / MSD	40 ml VOA	1 liter Amber	500 ml Poly	Sleeve	Glass Jar	VOA	SVOA	Pest/PCBs	Metals	TPH Purgeables	TPH Extractables	ISM Prep w/ 75 increments	PCBs (B08) w/ SORBIT EXTRACTOR
Project number:	Tt project manager:	Field samplers' signatures:																
Corp Yard Data Gap Sampling - RFS	Jason Brodersen 415-497-9060	Elaiia McDonald																
1035582304.02	Jason Brodersen																	
Sample ID	Sample Location (Pt. ID)	Date	Time	Matrix														
26 20190930-CORP-DU5		9/30/19	1350	Soil												X	X	
27 20190930-CORP-DU6		9/30/19	1245	Soil												X	X	

	Name (print)	Company Name	Date	Time
Relinquished by:	Elaiia McDonald	Tetra Tech	9/30/19	1428
Received by:	Patrick McKittrick	GAH	9/30/19	1428
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Turnaround time/remarks:
* Please report with samples on COC #20045 and COC #20046
- Standard TAT
Fed Ex #:

Results & QC Summary

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190925-CORP-DU9

DiIn Fac: 20.00

Analyzed: 10/07/19

Type: SAMPLE

Batch#: 274760

Prep: EPA 3546

Lab ID: 314374-001

Sampled: 09/25/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Basis: as received

Prepared: 10/03/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	140	74	ug/Kg
Aroclor-1221	ND	270	89	ug/Kg
Aroclor-1232	ND	140	75	ug/Kg
Aroclor-1242	ND	140	98	ug/Kg
Aroclor-1248	ND	140	100	ug/Kg
Aroclor-1254	480	140	55	ug/Kg
Aroclor-1260	200	140	71	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Field ID: 20190926-CORP-DU10

DiIn Fac: 10.00

Analyzed: 10/07/19

Type: SAMPLE

Batch#: 274760

Prep: EPA 3546

Lab ID: 314374-002

Sampled: 09/26/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Basis: as received

Prepared: 10/03/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	65	35	ug/Kg
Aroclor-1221	ND	130	43	ug/Kg
Aroclor-1232	ND	65	36	ug/Kg
Aroclor-1242	ND	65	47	ug/Kg
Aroclor-1248	ND	65	50	ug/Kg
Aroclor-1254	2,200	65	27	ug/Kg
Aroclor-1260	560	65	34	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190925-CORP-DU12

Diln Fac: 1.000

Analyzed: 10/05/19

Type: SAMPLE

Batch#: 274760

Prep: EPA 3546

Lab ID: 314374-003

Sampled: 09/25/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Basis: as received

Prepared: 10/03/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	12	3.7	ug/Kg
Aroclor-1221	ND	24	4.4	ug/Kg
Aroclor-1232	ND	12	3.7	ug/Kg
Aroclor-1242	ND	12	4.9	ug/Kg
Aroclor-1248	ND	12	5.2	ug/Kg
Aroclor-1254	460	12	2.7	ug/Kg
Aroclor-1260	150	12	4.6	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	96	44-148

Field ID: 20190926-CORP-DU13

Diln Fac: 1.000

Analyzed: 10/05/19

Type: SAMPLE

Batch#: 274760

Prep: EPA 3546

Lab ID: 314374-004

Sampled: 09/26/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Basis: as received

Prepared: 10/03/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	12	3.6	ug/Kg
Aroclor-1221	ND	24	4.3	ug/Kg
Aroclor-1232	ND	12	3.6	ug/Kg
Aroclor-1242	ND	12	4.8	ug/Kg
Aroclor-1248	ND	12	5.1	ug/Kg
Aroclor-1254	ND	12	2.7	ug/Kg
Aroclor-1260	63	12	3.5	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	81	44-148

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190926-CORP-DU14

Diln Fac: 1.000

Analyzed: 10/05/19

Type: SAMPLE

Batch#: 274760

Prep: EPA 3546

Lab ID: 314374-005

Sampled: 09/26/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Basis: as received

Prepared: 10/03/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	12	3.6	ug/Kg
Aroclor-1221	ND	24	4.3	ug/Kg
Aroclor-1232	ND	12	3.6	ug/Kg
Aroclor-1242	ND	12	4.8	ug/Kg
Aroclor-1248	ND	12	5.1	ug/Kg
Aroclor-1254	160	12	3.0	ug/Kg
Aroclor-1260	41	12	3.5	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	45	44-148

Field ID: 20190926-CORP-DU15

Diln Fac: 1.000

Analyzed: 10/05/19

Type: SAMPLE

Batch#: 274760

Prep: EPA 3546

Lab ID: 314374-006

Sampled: 09/26/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Basis: as received

Prepared: 10/03/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	12	3.7	ug/Kg
Aroclor-1221	ND	24	4.4	ug/Kg
Aroclor-1232	ND	12	3.7	ug/Kg
Aroclor-1242	ND	12	4.9	ug/Kg
Aroclor-1248	ND	12	5.2	ug/Kg
Aroclor-1254	340	12	2.8	ug/Kg
Aroclor-1260	130	12	4.6	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	86	44-148

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190926-CORP-DU16

Diln Fac: 10.00

Analyzed: 10/08/19

Type: SAMPLE

Batch#: 274760

Prep: EPA 3546

Lab ID: 314374-007

Sampled: 09/26/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Basis: as received

Prepared: 10/03/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	66	36	ug/Kg
Aroclor-1221	ND	130	43	ug/Kg
Aroclor-1232	ND	66	36	ug/Kg
Aroclor-1242	ND	66	48	ug/Kg
Aroclor-1248	ND	66	51	ug/Kg
Aroclor-1254	720	66	27	ug/Kg
Aroclor-1260	120	66	45	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Field ID: 20190926-CORP-DU17

Diln Fac: 10.00

Analyzed: 10/08/19

Type: SAMPLE

Batch#: 274760

Prep: EPA 3546

Lab ID: 314374-008

Sampled: 09/26/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Basis: as received

Prepared: 10/03/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	68	37	ug/Kg
Aroclor-1221	ND	140	44	ug/Kg
Aroclor-1232	ND	68	37	ug/Kg
Aroclor-1242	ND	68	49	ug/Kg
Aroclor-1248	ND	68	52	ug/Kg
Aroclor-1254	770	68	31	ug/Kg
Aroclor-1260	150	68	46	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190926-CORP-DU11-T1

Diln Fac: 1.000

Analyzed: 10/05/19

Type: SAMPLE

Batch#: 274760

Prep: EPA 3546

Lab ID: 314374-009

Sampled: 09/25/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Basis: as received

Prepared: 10/03/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	12	3.5	ug/Kg
Aroclor-1221	ND	24	4.2	ug/Kg
Aroclor-1232	ND	12	3.6	ug/Kg
Aroclor-1242	ND	12	4.7	ug/Kg
Aroclor-1248	ND	12	5.0	ug/Kg
Aroclor-1254	ND	12	2.7	ug/Kg
Aroclor-1260	58	12	4.4	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	82	44-148

Field ID: 20190926-CORP-DU11-T2

Diln Fac: 1.000

Analyzed: 10/05/19

Type: SAMPLE

Batch#: 274760

Prep: EPA 3546

Lab ID: 314374-010

Sampled: 09/25/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Basis: as received

Prepared: 10/03/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	12	3.6	ug/Kg
Aroclor-1221	ND	24	4.3	ug/Kg
Aroclor-1232	ND	12	3.6	ug/Kg
Aroclor-1242	ND	12	4.7	ug/Kg
Aroclor-1248	ND	12	5.0	ug/Kg
Aroclor-1254	ND	12	2.7	ug/Kg
Aroclor-1260	67	12	3.4	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	86	44-148

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190926-CORP-DU11-T3A

Diln Fac: 20.00

Analyzed: 10/05/19

Type: SAMPLE

Batch#: 274784

Prep: EPA 3546

Lab ID: 314374-012

Sampled: 09/25/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Basis: as received

Prepared: 10/04/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	130	72	ug/Kg
Aroclor-1221	ND	260	86	ug/Kg
Aroclor-1232	ND	130	73	ug/Kg
Aroclor-1242	ND	130	96	ug/Kg
Aroclor-1248	ND	130	100	ug/Kg
Aroclor-1254	ND	130	54	ug/Kg
Aroclor-1260	ND	130	90	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Field ID: 20190926-CORP-DU11-T3B

Diln Fac: 20.00

Analyzed: 10/05/19

Type: SAMPLE

Batch#: 274784

Prep: EPA 3546

Lab ID: 314374-013

Sampled: 09/25/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Basis: as received

Prepared: 10/04/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	140	75	ug/Kg
Aroclor-1221	ND	280	90	ug/Kg
Aroclor-1232	ND	140	76	ug/Kg
Aroclor-1242	ND	140	100	ug/Kg
Aroclor-1248	ND	140	110	ug/Kg
Aroclor-1254	170	140	63	ug/Kg
Aroclor-1260	110 J	140	94	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190926-CORP-DU11-T3C

Diln Fac: 20.00

Analyzed: 10/05/19

Type: SAMPLE

Batch#: 274784

Prep: EPA 3546

Lab ID: 314374-014

Sampled: 09/25/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Basis: as received

Prepared: 10/04/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	130	71	ug/Kg
Aroclor-1221	ND	260	84	ug/Kg
Aroclor-1232	ND	130	71	ug/Kg
Aroclor-1242	ND	130	94	ug/Kg
Aroclor-1248	ND	130	100	ug/Kg
Aroclor-1254	170	130	53	ug/Kg
Aroclor-1260	98 J	130	88	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Field ID: 20190927-CORP-DU1

Diln Fac: 2.000

Analyzed: 10/05/19

Type: SAMPLE

Batch#: 274784

Prep: EPA 3546

Lab ID: 314374-015

Sampled: 09/27/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/27/19

Basis: as received

Prepared: 10/04/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	13	7.1	ug/Kg
Aroclor-1221	ND	26	8.5	ug/Kg
Aroclor-1232	ND	13	7.1	ug/Kg
Aroclor-1242	ND	13	9.4	ug/Kg
Aroclor-1248	ND	13	10	ug/Kg
Aroclor-1254	1,100	13	5.3	ug/Kg
Aroclor-1260	400	13	8.8	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	112	44-148

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190927-CORP-DU2

DiIn Fac: 5.000

Analyzed: 10/05/19

Type: SAMPLE

Batch#: 274784

Prep: EPA 3546

Lab ID: 314374-016

Sampled: 09/27/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/27/19

Basis: as received

Prepared: 10/04/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	32	18	ug/Kg
Aroclor-1221	ND	65	21	ug/Kg
Aroclor-1232	ND	32	18	ug/Kg
Aroclor-1242	ND	32	24	ug/Kg
Aroclor-1248	ND	32	25	ug/Kg
Aroclor-1254	650	32	13	ug/Kg
Aroclor-1260	320	32	22	ug/Kg
Surrogate			%REC	Limits
Decachlorobiphenyl			139	44-148

Field ID: 20190927-CORP-DU3

DiIn Fac: 10.00

Analyzed: 10/08/19

Type: SAMPLE

Batch#: 274784

Prep: EPA 3546

Lab ID: 314374-017

Sampled: 09/27/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/27/19

Basis: as received

Prepared: 10/04/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	66	36	ug/Kg
Aroclor-1221	ND	130	43	ug/Kg
Aroclor-1232	ND	66	36	ug/Kg
Aroclor-1242	ND	66	48	ug/Kg
Aroclor-1248	ND	66	51	ug/Kg
Aroclor-1254	1,200	66	27	ug/Kg
Aroclor-1260	310	66	45	ug/Kg
Surrogate			%REC	Limits
Decachlorobiphenyl			DO	44-148

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190927-CORP-DU4-T1

Diln Fac: 50.00

Analyzed: 10/08/19

Type: SAMPLE

Batch#: 274784

Prep: EPA 3546

Lab ID: 314374-018

Sampled: 09/27/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/27/19

Basis: as received

Prepared: 10/04/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	330	180	ug/Kg
Aroclor-1221	ND	650	210	ug/Kg
Aroclor-1232	ND	330	180	ug/Kg
Aroclor-1242	ND	330	240	ug/Kg
Aroclor-1248	ND	330	250	ug/Kg
Aroclor-1254	4,200	330	130	ug/Kg
Aroclor-1260	1,400	330	170	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Field ID: 20190927-CORP-DU4-T2

Diln Fac: 20.00

Analyzed: 10/08/19

Type: SAMPLE

Batch#: 274784

Prep: EPA 3546

Lab ID: 314374-019

Sampled: 09/27/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/27/19

Basis: as received

Prepared: 10/04/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	130	72	ug/Kg
Aroclor-1221	ND	270	87	ug/Kg
Aroclor-1232	ND	130	73	ug/Kg
Aroclor-1242	ND	130	96	ug/Kg
Aroclor-1248	ND	130	100	ug/Kg
Aroclor-1254	3,100	130	54	ug/Kg
Aroclor-1260	1,200	130	91	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190927-CORP-DU4-T3A

Diln Fac: 10.00

Analyzed: 10/23/19

Type: SAMPLE

Batch#: 274832

Prep: EPA 3546

Lab ID: 314374-021

Sampled: 09/27/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/27/19

Basis: as received

Prepared: 10/07/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	68	37	ug/Kg
Aroclor-1221	ND	140	44	ug/Kg
Aroclor-1232	ND	68	37	ug/Kg
Aroclor-1242	ND	68	49	ug/Kg
Aroclor-1248	ND	68	52	ug/Kg
Aroclor-1254	5,800	68	28	ug/Kg
Aroclor-1260	1,900 b	68	46	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Field ID: 20190927-CORP-DU4-T3B

Diln Fac: 10.00

Analyzed: 10/23/19

Type: SAMPLE

Batch#: 274832

Prep: EPA 3546

Lab ID: 314374-022

Sampled: 09/27/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/27/19

Basis: as received

Prepared: 10/07/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	68	37	ug/Kg
Aroclor-1221	ND	140	45	ug/Kg
Aroclor-1232	ND	68	38	ug/Kg
Aroclor-1242	ND	68	50	ug/Kg
Aroclor-1248	ND	68	53	ug/Kg
Aroclor-1254	ND	68	28	ug/Kg
Aroclor-1260	ND	68	47	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190927-CORP-DU4-T3C

Diln Fac: 10.00

Analyzed: 10/23/19

Type: SAMPLE

Batch#: 274832

Prep: EPA 3546

Lab ID: 314374-023

Sampled: 09/27/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/27/19

Basis: as received

Prepared: 10/07/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	66	36	ug/Kg
Aroclor-1221	ND	130	43	ug/Kg
Aroclor-1232	ND	66	36	ug/Kg
Aroclor-1242	ND	66	48	ug/Kg
Aroclor-1248	ND	66	51	ug/Kg
Aroclor-1254	ND	66	27	ug/Kg
Aroclor-1260	ND	66	45	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Field ID: 20190927-CORP-DU7

Diln Fac: 50,000

Analyzed: 10/23/19

Type: SAMPLE

Batch#: 274784

Prep: EPA 3546

Lab ID: 314374-024

Sampled: 09/27/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/27/19

Basis: as received

Prepared: 10/04/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	330,000	180,000	ug/Kg
Aroclor-1221	ND	660,000	220,000	ug/Kg
Aroclor-1232	ND	330,000	180,000	ug/Kg
Aroclor-1242	ND	330,000	240,000	ug/Kg
Aroclor-1248	ND	330,000	250,000	ug/Kg
Aroclor-1254	4,400,000	330,000	130,000	ug/Kg
Aroclor-1260	770,000 b	330,000	170,000	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190927-CORP-DU8

DiIn Fac: 50.00

Analyzed: 10/08/19

Type: SAMPLE

Batch#: 274784

Prep: EPA 3546

Lab ID: 314374-025

Sampled: 09/27/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/27/19

Basis: as received

Prepared: 10/04/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	330	180	ug/Kg
Aroclor-1221	ND	660	210	ug/Kg
Aroclor-1232	ND	330	180	ug/Kg
Aroclor-1242	ND	330	240	ug/Kg
Aroclor-1248	ND	330	250	ug/Kg
Aroclor-1254	5,200	330	130	ug/Kg
Aroclor-1260	1,500	330	220	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Field ID: 20190930-CORP-DU5

DiIn Fac: 2.000

Analyzed: 10/05/19

Type: SAMPLE

Batch#: 274784

Prep: EPA 3546

Lab ID: 314374-026

Sampled: 09/30/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/30/19

Basis: as received

Prepared: 10/04/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	13	7.1	ug/Kg
Aroclor-1221	ND	26	8.5	ug/Kg
Aroclor-1232	ND	13	7.1	ug/Kg
Aroclor-1242	ND	13	9.4	ug/Kg
Aroclor-1248	ND	13	10	ug/Kg
Aroclor-1254	780	13	5.3	ug/Kg
Aroclor-1260	240	13	6.8	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	117	44-148

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190930-CORP-DU6

DiIn Fac: 20.00

Analyzed: 10/08/19

Type: SAMPLE

Batch#: 274784

Prep: EPA 3546

Lab ID: 314374-027

Sampled: 09/30/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/30/19

Basis: as received

Prepared: 10/04/19

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	130	71	ug/Kg
Aroclor-1221	ND	260	84	ug/Kg
Aroclor-1232	ND	130	71	ug/Kg
Aroclor-1242	ND	130	94	ug/Kg
Aroclor-1248	ND	130	100	ug/Kg
Aroclor-1254	2,700	130	53	ug/Kg
Aroclor-1260	600	130	68	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Type: BLANK

DiIn Fac: 1.000

Analyzed: 10/05/19

Lab ID: QC993604

Batch#: 274760

Prep: EPA 3546

Matrix: Soil

Prepared: 10/03/19

Analysis: EPA 8082

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	12	3.6	ug/Kg
Aroclor-1221	ND	24	4.4	ug/Kg
Aroclor-1232	ND	12	3.7	ug/Kg
Aroclor-1242	ND	12	4.8	ug/Kg
Aroclor-1248	ND	12	5.1	ug/Kg
Aroclor-1254	ND	12	2.7	ug/Kg
Aroclor-1260	ND	12	4.6	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	136	44-148

Type: BLANK

DiIn Fac: 1.000

Analyzed: 10/05/19

Lab ID: QC993685

Batch#: 274784

Prep: EPA 3546

Matrix: Soil

Prepared: 10/04/19

Analysis: EPA 8082

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	12	3.6	ug/Kg
Aroclor-1221	ND	24	4.4	ug/Kg
Aroclor-1232	ND	12	3.7	ug/Kg
Aroclor-1242	ND	12	4.8	ug/Kg
Aroclor-1248	ND	12	5.1	ug/Kg
Aroclor-1254	ND	12	2.7	ug/Kg
Aroclor-1260	ND	12	4.6	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	109	44-148

Polychlorinated Biphenyls (PCBs)

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Type: BLANK

Diln Fac: 1.000

Analyzed: 11/05/19

Lab ID: QC993893

Batch#: 274832

Prep: EPA 3546

Matrix: Soil

Prepared: 10/07/19

Analysis: EPA 8082

Analyte	Result	RL	MDL	Units
Aroclor-1016	ND	12	3.6	ug/Kg
Aroclor-1221	ND	24	4.4	ug/Kg
Aroclor-1232	ND	12	3.7	ug/Kg
Aroclor-1242	ND	12	4.8	ug/Kg
Aroclor-1248	ND	12	5.1	ug/Kg
Aroclor-1254	ND	12	2.7	ug/Kg
Aroclor-1260	ND	12	4.6	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	126	44-148

Legend

- DO:** Diluted Out
- J:** Estimated value
- MDL:** Method Detection Limit
- ND:** Not Detected at or above MDL
- RL:** Reporting Limit
- b:** See narrative

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 314374		Project#: 103S582304.02			
Client: Tetra Tech EMI		Location: Corp Yard Data Group Sampling - RFS			
Type: LCS		Diln Fac: 1.000		Analyzed: 10/05/19	
Lab ID: QC993605		Batch#: 274760		Prep: EPA 3546	
Matrix: Soil		Prepared: 10/03/19		Analysis: EPA 8082	
Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	166.7	145.0	87	64-146	ug/Kg
Aroclor-1260	166.7	127.6	77	60-156	ug/Kg
Surrogate			%REC	Limits	
Decachlorobiphenyl			100	44-148	

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190926-CORP-DU10

Basis: as received

Prepared: 10/03/19

Type: MS

Diln Fac: 10.00

Analyzed: 10/07/19

MSS Lab ID: 314374-002

Batch#: 274760

Prep: EPA 3546

Lab ID: QC993606

Sampled: 09/26/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Aroclor-1016	<35.48	164.9	161.8	98	59-158	ug/Kg
Aroclor-1260	557.5	164.9	686.1	78	50-171	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Field ID: 20190926-CORP-DU10

Basis: as received

Prepared: 10/03/19

Type: MSD

Diln Fac: 10.00

Analyzed: 10/07/19

MSS Lab ID: 314374-002

Batch#: 274760

Prep: EPA 3546

Lab ID: QC993607

Sampled: 09/26/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/26/19

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	163.8	175.8	107	59-158	ug/Kg	9	43
Aroclor-1260	163.8	799.7	148	50-171	ug/Kg	15	49

Surrogate	%REC	Limits
Decachlorobiphenyl	DO	44-148

Legend

DO: Diluted Out

RPD: Relative Percent Difference

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 314374		Project#: 103S582304.02			
Client: Tetra Tech EMI		Location: Corp Yard Data Group Sampling - RFS			
Type: LCS		Diln Fac: 1.000		Analyzed: 10/05/19	
Lab ID: QC993686		Batch#: 274784		Prep: EPA 3546	
Matrix: Soil		Prepared: 10/04/19		Analysis: EPA 8082	
Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	166.7	117.1	70	64-146	ug/Kg
Aroclor-1260	166.7	104.6	63	60-156	ug/Kg
Surrogate			%REC	Limits	
Decachlorobiphenyl			105	44-148	

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 314374

Project#: 103S582304.02

Client: Tetra Tech EMI

Location: Corp Yard Data Group Sampling - RFS

Field ID: 20190927-CORP-DU2

Basis: as received

Prepared: 10/04/19

Type: MS

Diln Fac: 5.000

Analyzed: 10/05/19

MSS Lab ID: 314374-016

Batch#: 274784

Prep: EPA 3546

Lab ID: QC993687

Sampled: 09/27/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/27/19

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Aroclor-1016	<17.70	164.5	148.7	90	59-158	ug/Kg
Aroclor-1260	315.4	164.5	433.2	72	50-171	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl	112	44-148

Field ID: 20190927-CORP-DU2

Basis: as received

Prepared: 10/04/19

Type: MSD

Diln Fac: 5.000

Analyzed: 10/05/19

MSS Lab ID: 314374-016

Batch#: 274784

Prep: EPA 3546

Lab ID: QC993688

Sampled: 09/27/19

Analysis: EPA 8082

Matrix: Soil

Received: 09/27/19

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	162.2	152.1	94	59-158	ug/Kg	4	43
Aroclor-1260	162.2	406.8	56	50-171	ug/Kg	6	49

Surrogate	%REC	Limits
Decachlorobiphenyl	131	44-148

Legend

RPD: Relative Percent Difference

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 314374		Project#: 103S582304.02			
Client: Tetra Tech EMI		Location: Corp Yard Data Group Sampling - RFS			
Type: LCS		Diln Fac: 1.000		Analyzed: 10/14/19	
Lab ID: QC993894		Batch#: 274832		Prep: EPA 3546	
Matrix: Soil		Prepared: 10/07/19		Analysis: EPA 8082	
Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	166.7	146.0	88	64-146	ug/Kg
Aroclor-1260	166.7	178.2	107	60-156	ug/Kg
Surrogate			%REC	Limits	
Decachlorobiphenyl			115	44-148	