ARCADIS Design & Consultancy for natural and built assets

Ms. Jessica LaClair
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ENVIRONMENT

Subject:
Former GE Parts and Repair Service Center
Tonawanda, New York 14150
NYSDEC Site ID: 915244
EPA ID: NYD067539940
Permit ID: 9-1464-00044/00001
Summary of Transportation Corridor Sampling Results

Date:
January 10, 2019

Contact:
Doug Weeks

Phone:
518.250.7378

Email:
doug.weeks@arcadis.com

Our ref:
AP013103.1000

Dear Ms. LaClair:

This letter has been prepared by Arcadis of New York, Inc. (Arcadis), on behalf of the General Electric Company (GE), to summarize the results of the additional soil investigation activities performed within the Transportation Corridor at GE's former Parts and Repair Service Center located at 175 Milens Road in Tonawanda, New York (the "Site"). In October and November 2018 GE conducted additional sampling within the Transportation Corridor and the Sub-Slab Soils Area of Concern (AOC) to supplement the existing soil data set and further characterize the horizontal and vertical extent of polychlorinated biphenyls (PCBs) in soils in these areas. This letter presents the results of sampling within the Transportation Corridor, completed October 31 through November 8, 2018. Results from the additional sampling within the Sub-slab Soils AOC will be submitted to the New York State Department of Environmental Conservation (NYSDEC) in a revised Resource Conservation and Recovery Act (RCRA) Facility Investigation Report (RFI Report) by February 1, 2019.

The Transportation Corridor investigation activities were performed in accordance with the sampling plan presented to NYSDEC in a letter dated September 26, 2018. A total of twenty-one (21) soil borings were advanced in a grid pattern to a depth of five (5) feet below the bottom of the asphalt, as shown in **Figure 1**. Three of the boring locations (TC-SB-05, TC-SB-06, and TC-SB-11) were positioned to be near existing storm and sanitary sewers in the northwest corner of the Transportation Corridor to determine whether those utilities may have been a potential source of subsurface impacts in the past. Soil samples were collected from the 0- to 12-, 12- to 24-, 24- to 36- and 36- to 60-inch depth intervals beneath the bottom of the asphalt at each location. The 0 to 12-inch depth samples from all boring locations were submitted to the laboratory for PCB analysis via USEPA Method 8082. At the three borings positioned near the storm and sanitary sewer lines in the northwest corner of the Transportation Corridor, the samples from the 12- to 24-inch, 24- to 36-inch, and 36- to 60-inch depth intervals were also submitted to the laboratory for PCB analysis. All remaining samples from the other soil borings and depths were archived at the lab (in

frozen storage) pending review of analytical data from the 0- to 12- inch depth interval at each location. Field observations made during the investigation are summarized in **Table 1**.

Laboratory analyses were performed by Test America in Amherst, NY. Results from all sample locations and depth intervals analyzed were non-detect for PCBs. A summary of the analytical results is included as **Table 2.** The data validation reports are included in **Attachment A**[1].

Based on the review of the laboratory analytical data from this investigation, none of the archived samples require analysis, and GE believes that no further investigation of the soils beneath the Transportation Corridor is warranted.

If you have any questions, please contact me at (518) 250-7378, or Mr. Lewis Streeter of GE at (518) 388-7552.

Sincerely,

Arcadis of New York, Inc.

Doug Weeks
Project Manager

Electronic copies:
Kathleen Emery, NYSDEC
Andrew Park, EPA
Lewis Streeter, GE
Angelica Todd, GE
David Cornell, Arcadis
James Nuss, PE, Arcadis
Jessica Steigerwald, Arcadis

FIGURES

Figure 1 – Soil Sampling Locations in Transportation Corridor

TABLES

Table 1 – Transportation Corridor Field Observations

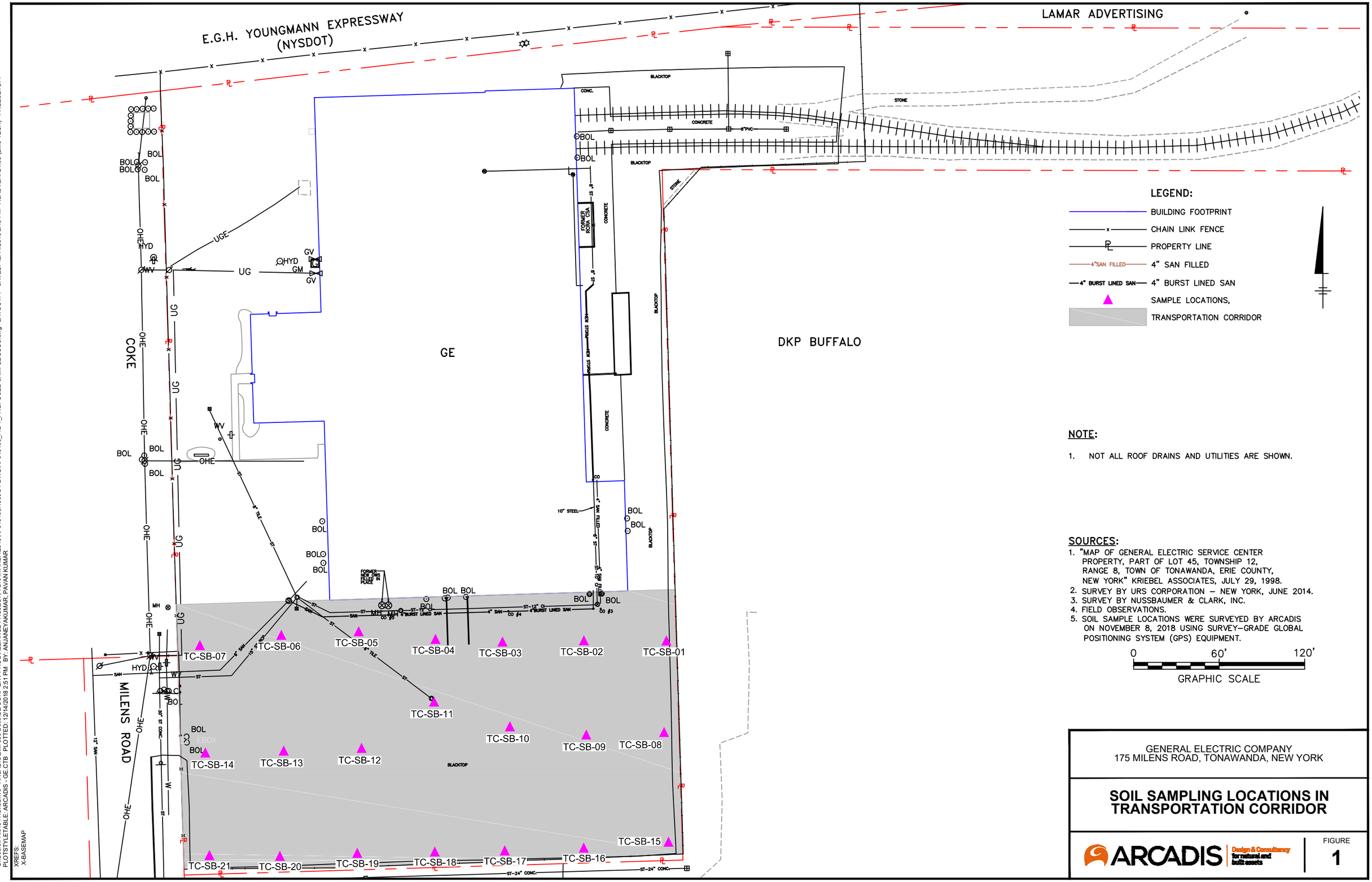
Table 2 – Transportation Corridor PCB Analytical Results

ATTACHMENTS

Attachment A – Data Validation Reports

[1] Data validation reports include data from sampling conducted in both the Transportation Corridor and the Sub-slab Soils AOC as these investigations occurred concurrently in October and November 2018. Results of the supplemental sampling performed for the Sub-slab Soils AOC will be reported to the NYSDEC separately in a revised RFI report for the Sub-slab Soils AOC.

FIGURE



GENERAL ELECTRIC COMPANY
175 MILENS ROAD, TONAWANDA, NEW YORK

SOIL SAMPLING LOCATIONS IN TRANSPORTATION CORRIDOR

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

TABLES

Table 1
Transportation Corridor Field Observations
General Electric Parts and Repair Service Center
Tonawand, New York

Transportation Corridor (Exterior) Borings					
Boring ID	Date Collected	Boring Description	Depth of Boring (ft bgs)	Observed Impacts	PID Max (ppm)
TC-SB-1	11/1/2018	0-0.7': ASPHALT 0.7-2.7': Dark brown Silty CLAY, trace Organics (Roots), trace grey fine subangular Gravel, firm, moist to wet, NP 2.7-5.7': Dark brown Silty CLAY, trace grey fine subangular Gravel, firm, moist, NP	5.7'	None	ND
TC-SB-2	11/1/2018	0-1.3': ASPHALT 1.3-2.3': Dark brown Silty CLAY, trace grey medium to fine subangular Gravel, stiff, moist, NP 2.3-6.3': Reddish brown to dark brown SILT and CLAY, trace grey fine subangular Gravel, firm, moist, NP	6.3'	None	ND
TC-SB-3	10/31/2018	0.0-1.1': ASPHALT 1.1-1.4': Grey fine to medium subangular GRAVEL 1.4-2.1': Reddish brown CLAY, little Silt,trace fine subangular Gravel, soft, wet, moderate plasticity 2.1-3.1': Brown CLAY, little Silt, trace grey fine subangular Gravel, low plasticity, soft, moist 3.1-6.1': Reddish brown SILT and CLAY, trace grey fine subangular Gravel, low plasticity, soft, moist	6.1'	None	ND
TC-SB-4	11/1/2018	0.0-1.0': ASPHALT 1.0-2.0': Dark brown SILT and CLAY, little grey fine subangular Gravel, stiff, moist, NP 2.0-6.0': Reddish brown SILT and CLAY, trace grey fine subangular Gravel, stiff, moist to dry, NP	6.0'	None	ND
TC-SB-5	11/1/2018	0.0-0.9': ASPHALT 0.9-1.9': Dark brown SILT and CLAY, little grey fine subangular Gravel, stiff, moist, NP 1.9-5.9': Reddish brown SILT and CLAY, trace grey fine subangular Gravel, stiff, moist becoming dryer with depth, NP	5.9'	None	ND
TC-SB-6	11/2/2018	0.0-0.9': ASPHALT 0.9-1.9': Dark brown Silty CLAY, trace grey fine subangular Gravel, stiff, moist, NP 1.9-2.9': Reddish brown SILT and CLAY, trace grey fine subangular Gravel, firm, moist, NP 2.9-5.9': Reddish brown SILT and CLAY, firm, moist, NP	5.9'	None	ND
TC-SB-7	11/2/2018	0.0-0.9': ASPHALT 0.9-1.1': Grey fine to medium subangular GRAVEL 1.1-1.9': Dark brown Silty CLAY, little grey fine subangular Gravel, stiff, moist, NP 1.9-2.9': Dark brown to reddish brown SILT and CLAY, trace grey fine subangular Gravel, moist, stiff, NP 2.9-5.9': Reddish brown SILT and CLAY, trace grey fine subangular Gravel, firm, moist,NP	5.9'	None	ND

Table 1
Transportation Corridor Field Observations
General Electric Parts and Repair Service Center
Tonawand, New York

Transportation Corridor (Exterior) Borings					
Boring ID	Date Collected	Boring Description	Depth of Boring (ft bgs)	Observed Impacts	PID Max (ppm)
TC-SB-8	11/5/2018	0.0-0.9': ASPHALT 0.9-1.3': Dark grey to dark brown SILT and CLAY, little grey fine to medium subangular Gravel, firm, moist, NP 1.3-1.9': Dark brown Silty CLAY, trace grey fine subangular Gravel, stiff, moist, NP 1.9-2.9': Reddish brown Silty CLAY, trace grey fine subangular Gravel, stiff, moist, NP 2.9-5.9': Reddish brown SILT and CLAY, stiff, moist to dry, NP	5.9'	None	ND
TC-SB-9	11/5/2018	0.0-0.5': ASPHALT 0.5-0.8': Grey fine to medium subangular Gravel, wet. 0.8-1.5': Grey to dark brown Silty CLAY, trace grey fine subangular Gravel, stiff, moist, NP 1.5-2.5': Reddish brown Silty CLAY, trace grey very fine subangular Gravel, stiff, moist, NP 2.5-5.5': Reddish brown SILT and CLAY, trace grey very fine subangular Gravel, firm, moist, NP	5.5'	None	ND
TC-SB-10	11/5/2018	0.0-0.6': ASPHALT 0.6-1.6': Grey medium to fine subangular GRAVEL, little grey coarse angular to subangular Gravel, little grey fine to coarse grey Sand, trace grey Silt, wet 1.6-2.6': Dark brown Silty CLAY, trace grey subangular Gravel, moist, firm, NP 2.6-5.6': Brown to reddish brown Silty CLAY trace grey subrounded Gravel, firm, moist, slightly plastic	5.6'	Very faint oil-like odor (0-1').	ND
TC-SB-11	11/6/2018	0.0-1.0': ASPHALT/ CONCRETE 1.0-2.0': Brown to reddish brown Silty CLAY, little grey fine to medium subangular Gravel, stiff, moist, NP 2.0-6.0': Reddish brown SILT and CLAY, little to trace grey fine to medium subangular Gravel, firm, moist, NP	6.0'	None	ND
TC-SB-12	11/6/2018	0.0-1.0': ASPHALT/CONCRETE 1.0-2.0': Dark brown to reddish brown Silty CLAY, little grey fine to medium subangular Gravel, stiff, moist, NP 2.0-3.0': Reddish brown SILT and CLAY, little grey fine to medium subangular Gravel, firm, moist, NP 3.0-6.0': Reddish brown SILT and CLAY, trace grey fine subangular Gravel, firm, moist to dry, NP	6.0'	None	ND

Table 1
Transportation Corridor Field Observations
General Electric Parts and Repair Service Center
Tonawand, New York

Transportation Corridor (Exterior) Borings					
Boring ID	Date Collected	Boring Description	Depth of Boring (ft bgs)	Observed Impacts	PID Max (ppm)
TC-SB-13	11/6/2018	0.0-1.0': ASPHALT/ CONCRETE 1.0-2.0': Dark brown to brown Silty CLAY, little grey fine to medium subangular Gravel, trace fine Sand, stiff, moist, NP 2.0-3.0': Brown to reddish brown SILT and CLAY, little grey fine subangular Gravel, firm, moist, NP 3.0-6.0': Reddish brown SILT and CLAY, trace grey fine subangular Gravel, firm, moist, NP	6.0'	None	ND
TC-SB-14	11/6/2018	0.0-0.4': ASPHALT 0.4-1.4': Dark brown to brown Silty CLAY, little grey fine to medium subangular Gravel, stiff, moist, NP 1.4-2.4': Brown to reddish brown SILT and CLAY, trace fine grey subangular Gravel, firm, moist, NP 2.4-5.4': Reddish brown SILT and CLAY, trace grey fine to medium subangular Gravel, firm, moist, NP	5.4'	None	ND
TC-SB-15	11/8/2018	0.0-1.0': ASPHALT/ CONCRETE 1.0-2.0': Dark grey to brown Silty CLAY, little grey fine to medium subangular Gravel, stiff, moist, NP 2.0-3.0': Brown to reddish brown Silty CLAY, little grey fine to medium subangular Gravel, firm, moist, NP 3.0-6.0': Reddish brown SILT and CLAY, trace grey fine subangular Gravel, firm, moist, NP	6.0'	None	ND
TC-SB-16	11/8/2018	0.0-1.0': ASPHALT/CONCRETE 1.0-2.0': Grey to dark grey Silty CLAY, little grey fine subangular Gravel, firm, moist, NP 2.0-3.0': Greyish brown to reddish brown Silty CLAY, trace grey fine subangular Gravel, stiff, moist, NP 3.0-6.0': Reddish brown SILT and CLAY, trace grey fine subangular Gravel, firm, moist to dry, NP	6.0'	None	ND
TC-SB-17	11/8/2018	0.0-1.0': ASPHALT/ CONCRETE 1.0-2.0': Grey to dark grey Silty CLAY, little grey fine to medium subangular Gravel, stiff, moist, NP 2.0-3.0': Greyish brown to brown Silty CLAY, little grey fine subangular Gravel, firm, moist, NP 3.0-6.0': Brown becoming reddish brown with depth SILT and CLAY, trace grey fine subangular Gravel, firm, moist to dry with depth, NP	6.0'	None	ND

Table 1
Transportation Corridor Field Observations
General Electric Parts and Repair Service Center
Tonawand, New York

Transportation Corridor (Exterior) Borings					
Boring ID	Date Collected	Boring Description	Depth of Boring (ft bgs)	Observed Impacts	PID Max (ppm)
TC-SB-18	11/7/2018	0.0-1.1': ASPHALT/CONCRETE 1.1-2.1': Dark grey to dark brown Silty CLAY, little grey fine to coarse subangular Gravel, stiff, moist, NP 2.1-3.1': Brown to reddish brown Silty CLAY, trace grey fine subangular Gravel, firm, moist, NP 3.1-6.1': Reddish brown SILT and CLAY, trace grey fine subangular Gravel, firm, moist, NP	6.1'	None	ND
TC-SB-19	11/7/2018	0.0-0.9': ASPHALT/CONCRETE 0.9-1.9': Dark brown to brown Silty CLAY, little grey fine to medium subangular Gravel, stiff, moist, NP 1.9-2.9': Brown to reddish brown SILT and CLAY, trace grey fine subangular Gravel, firm, moist, NP 2.9-5.9': Reddish brown SILT and CLAY, little grey fine to medium subangular Gravel, firm, moist, NP	5.9'	None	ND
TC-SB-20	11/7/2018	0.0-1.0': ASPHALT/ CONCRETE 1.0-2.0': Dark brown to brown Silty CLAY, little grey fine to coarse subangular Gravel, stiff, moist, NP 2.0-3.0': Dark brown to brown Silty CLAY, trace grey fine subangular Gravel, stiff, moist, NP 3.0-6.0':Brown to reddish brown SILT and CLAY, trace grey medium becoming fine subangular Gravel, firm, moist becoming dry, NP	6.0'	None	ND
TC-SB-21	11/7/2018	0.0-1.0': ASPHALT/ CONCRETE 1.0-2.0': Dark grey to dark brown SILT and CLAY, some fine to medium Sand, little grey fine to coarse subangular Gravel, firm, moist, NP 2.0-3.0': Brown to reddish brown SILT and CLAY, trace fine grey subangular Gravel, stiff, moist, NP 3.0-6.0': Reddish brown SILT and CLAY, trace grey fine becoming coarse subangular Gravel, firm, moist, NP	6.0'	None	ND

Notes:

ND	Contaminant was not detected.
PID	Photo-ionization Detector
'	Feet
NP	Non-plastic

Table 2
Transportation Corridor PCB Analytical Results
General Electric Parts and Repair Service Center
Tonawanda, New York

Location ID	Depth(ft)	Analyte: CAS Number: Units: Date Collected	Aroclor 1016 12674-11-2 mg/kg	Aroclor 1221 11104-28-2 mg/kg	Aroclor 1232 11141-16-5 mg/kg	Aroclor 1242 53469-21-9 mg/kg	Aroclor 1248 12672-29-6 mg/kg	Aroclor 1254 11097-69-1 mg/kg	Aroclor 1260 11096-82-5 mg/kg	Total PCBs 1336-36-3 mg/kg
TC-SB-1	0 - 1	11/1/2018	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
TC-SB-2	0 - 1	11/1/2018	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
TC-SB-3	0 - 1	10/31/2018	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TC-SB-4	0 - 1	11/1/2018	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
TC-SB-5	0 - 1	11/1/2018	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
TC-SB-5	1 - 2	11/1/2018	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
TC-SB-5	2 - 3	11/1/2018	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
TC-SB-5	3 - 5	11/1/2018	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
TC-SB-6	0 - 1	11/2/2018	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
TC-SB-7	0 - 1	11/2/2018	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
TC-SB-7	1 - 2	11/2/2018	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
TC-SB-7	2 - 3	11/2/2018	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
TC-SB-7	3 - 5	11/2/2018	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
TC-SB-8	0 - 1	11/5/2018	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
TC-SB-9	0 - 1	11/5/2018	0.29 U [0.31 U]	0.29 U [0.31 U]	0.29 U [0.31 U]	0.29 U [0.31 U]	0.29 U [0.31 U]	0.29 U [0.31 U]	0.29 U [0.31 U]	0.29 U [0.31 U]
TC-SB-10	0 - 1	11/5/2018	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
TC-SB-11	0 - 1	11/6/2018	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TC-SB-11	1 - 2	11/6/2018	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
TC-SB-11	2 - 3	11/6/2018	0.23 U [0.22 U]	0.23 U [0.22 U]	0.23 U [0.22 U]	0.23 U [0.22 U]	0.23 U [0.22 U]	0.23 U [0.22 U]	0.23 U [0.22 U]	0.23 U [0.22 U]
TC-SB-11	3 - 5	11/6/2018	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
TC-SB-12	0 - 1	11/6/2018	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
TC-SB-13	0 - 1	11/6/2018	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
TC-SB-14	0 - 1	11/6/2018	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
TC-SB-15	0 - 1	11/8/2018	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TC-SB-16	0 - 1	11/8/2018	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
TC-SB-17	0 - 1	11/8/2018	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
TC-SB-18	0 - 1	11/7/2018	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TC-SB-19	0 - 1	11/7/2018	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
TC-SB-20	0 - 1	11/7/2018	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TC-SB-21	0 - 1	11/7/2018	0.27 U [0.26 U]	0.27 U [0.26 U]	0.27 U [0.26 U]	0.27 U [0.26 U]	0.27 U [0.26 U]	0.27 U [0.26 U]	0.27 U [0.26 U]	0.27 U [0.26 U]

Notes:
U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Blind duplicate sample results are shown in [brackets].

ATTACHMENT A

Data Validation Reports

ARCADIS Design & Consultancy for natural and built assets

General Electric Company

Buffalo Service Shop

Tonawanda, New York

NYSDEC ID 915244; EPA ID NYD067539940

DATA USABILITY SUMMARY REPORT

Polychlorinated Biphenyl (PCB) Analyses

SDG #480-144580-1

Analyses Performed By:
TestAmerica Laboratories, Inc.
Amherst, New York

Report #31235R
Review Level: Tier III
Project: AP013103.1000.1000B

SUMMARY

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Groups (SDGs) #480-144580-1 for samples collected in association with The General Electric Company (GE) former Parts and Repair Service Center in Tonawanda, NY (NYSDEC ID 915244; EPA ID NYD067539940). The review was conducted as a Tier III evaluation and included review of laboratory analytical data package completeness. Field documentation was not included in this review. Included with this assessment are the post-validation annotated sample result sheets, and chain of custody (COC). Analyses were performed for polychlorinated biphenyls (PCBs) on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis
						PCB
480-144580-1	SB2-1 (0-1) 20181030	480-144580-1	Soil	10/30/2018		X
	SB2-2 (0-1) 20181030	480-144580-2	Soil	10/30/2018		X
	SB2-3 (0-1) 20181030	480-144580-3	Soil	10/30/2018		X
	SB2-4 (0-1) 20181030	480-144580-4	Soil	10/30/2018		X
	SB2-4 (1-2) 20181030	480-144580-5	Soil	10/30/2018		X
	SB2-5 (0-1) 20181031	480-144580-6	Soil	10/31/2018		X
	TC-SB-3 (0-1) 20181031	480-144580-7	Soil	10/31/2018		X
	DUP-103118	480-144580-8	Soil	10/31/2018	SB2-6 (0-1)	X
	SB2-6 (0-1) 20181031	480-144580-9	Soil	10/31/2018		X
	SB2-6 (1-2) 20181031	480-144580-10	Soil	10/31/2018		X
	SB2-7 (0-1) 20181031	480-144580-11	Soil	10/31/2018		X
	SB2-7 (1-2) 20181031	480-144580-12	Soil	10/31/2018		X
	SB2-7 (2-4) 20181031	480-144580-13	Soil	10/31/2018		X
	TC-SB-1 (0-1) 20181101	480-144580-14	Soil	11/1/2018		X
	TC-SB-2 (0-1) 20181101	480-144580-15	Soil	11/1/2018		X
	TC-SB-4 (0-1) 20181101	480-144580-16	Soil	11/1/2018		X
	TC-SB-5 (1-2) 20181101	480-144580-17	Soil	11/1/2018		X
	TC-SB-5 (0-1) 20181101	480-144580-18	Soil	11/1/2018		X
	TC-SB-5 (2-3) 20181101	480-144580-19	Soil	11/1/2018		X
	TC-SB-5 (3-5) 20181101	480-144580-20	Soil	11/1/2018		X

LABORATORY ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the laboratory analytical data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed COC form		X		X	
11. Narrative summary of quality assurance (QA) or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

ORGANIC ANALYSIS INTRODUCTION

PCB analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8082A, respectively. Data were reviewed in accordance with the USEPA Region II validation guidelines *Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A* (SOP #HW-45, October 2006); the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review* (January 2017); USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999); and the *RCRA Facility Investigation Work Plan for Sub-Slab Soils, Buffalo Service Shop* (November 2017).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
  - UB Compound considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon. It is also important to note that while strict QC serves to increase confidence in data, any value potentially contains error.

POLYCHLORINATED BIPHENYL ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8082A	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6°C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Note:
The holding times above are recommendations. PCBs are very stable in a variety of matrices, and holding times, under the conditions listed above, may be as long as a year per SW-846 8082A (February 2007).

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A Blank Action Level (BAL) of five times the concentration of a detected Aroclor in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine if qualification of the sample results is appropriate.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination and no qualification of the sample results was required.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

A maximum relative standard deviation (RSD) of 20% is allowed or a correlation coefficient greater than 0.99. Multiple-point calibrations were performed for all Aroclors.

All Aroclors associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration verification (CCV) standard must exhibit a percent difference (%D) less than the control limit (20%).

All Aroclors associated with continuing calibrations were within the specified control limits.

4. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. PCB analysis requires that the two PCB surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

Sample locations associated with surrogates exhibiting recoveries outside of the control limits presented in the following table.

	Surrogate	Recovery
SB2-1 (0-1) DUP-103118 SB2-7 (0-1)	Tetrachloro-m-xylene	D
	Decachlorobiphenyl	D

Notes:
D = Diluted

The criteria used to evaluate the surrogate recoveries are presented in the following table. In the case of a surrogate deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
One surrogate exhibiting recovery outside the control limits but > 10%	Non-detect	No Action
	Detect	
Surrogates diluted below the calibration curve due to the high concentration of a target compound.	Non-detect	UJ/J[1]
	Detect	

Note:

[1] A more concentrated analysis was not performed with surrogate compounds within the calibration range; therefore, no determination of extraction efficiency could be made.

5. Matrix Spike/Matrix Spike Duplicate Analysis

Matrix Spike/Matrix Spike Duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method. The Aroclors used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must be within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the Aroclor concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis exhibited recoveries and RPD within acceptance limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate Analysis

The Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries within the acceptance limits.

7. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. For soil matrices, a control limit of 50% is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SB2-6 (0-1)/ DUP-103118	Aroclor 1260	7.3	8.2	AC

Note:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

8. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns. When dual column analysis is performed the RPD of detected sample results must be less than 25%.

Sample locations associated with RPD analysis exhibiting recoveries outside of the control limits presented in the following table.

Sample Locations	Compound	RPD
SB2-5 (0-1)	Aroclor 1260	44.1%
DUP-103118	Aroclor 1260	29.1%
SB2-6 (1-2)	Aroclor 1260	27.1%
SB2-7 (0-1)	Aroclor 1254	35.2%
SB2-7 (1-2)	Aroclor 1254	26.6%

The criteria used to evaluate the RPD are presented in the following table. In the case of a RPD deviation, the sample results are qualified as documented in the table below.

Control Limit (%D)	Qualification
>40% to 70%	J
>70% to 100%	JN
>100% [1]	R
>100% to 200% (Interference detected)[2]	J or JN
>50% (PCB sample results less than the RL)[3]	U

Note 1: If the pattern is confirmed sample results will be qualified as estimated (J). If pattern exhibits interference or if the PCB cannot be positively determined due to weathering the sample results will be qualified as tentative identification estimate (JN).

Note 2: If interference is detected in either column the sample results will be qualified as tentative identification estimate (JN).

Note 3: When the PCB sample results are less than the RL and the RPD greater than 50% the sample result are raised to the RL and reported as non-detect.

9. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR PCBs

PCBs: SW-846 8082A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY (GC/ECD)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X	X		
Column (RPD) (If dual column is performed-not confirmation purposes only)		X	X		
Dilution Factor		X		X	
Moisture Content		X		X	
Tier III Validation					
Initial calibration %RSDs		X		X	
Continuing calibration %Ds		X		X	
System performance and column resolution		X		X	
Compound identification and quantitation					
A. Quantitation Reports		X		X	
B. RT of sample compounds within the established RT windows		X		X	
C. Pattern identification		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Percent Relative standard deviation
%R Percent recovery
%D Percent difference
RPD Relative percent difference
RT Retention time

SAMPLE COMPLIANCE REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]	Noncompliance
					PCB	
480-144580-1	10/30/2018	SW846	SB2-1 (0-1) 20181030	Soil	No	Surrogates diluted out
	10/30/2018	SW846	SB2-2 (0-1) 20181030	Soil	Yes	
	10/30/2018	SW846	SB2-3 (0-1) 20181030	Soil	Yes	
	10/30/2018	SW846	SB2-4 (0-1) 20181030	Soil	Yes	
	10/30/2018	SW846	SB2-4 (1-2) 20181030	Soil	Yes	
	10/31/2018	SW846	SB2-5 (0-1) 20181031	Soil	No	Column %D
	10/31/2018	SW846	TC-SB-3 (0-1) 20181031	Soil	Yes	
	10/31/2018	SW846	DUP-103118	Soil	No	Surrogates diluted out, Column %D
	10/31/2018	SW846	SB2-6 (0-1) 20181031	Soil	Yes	
	10/31/2018	SW846	SB2-6 (1-2) 20181031	Soil	No	Column %D
	10/31/2018	SW846	SB2-7 (0-1) 20181031	Soil	No	Surrogates diluted out, Column %D
	10/31/2018	SW846	SB2-7 (1-2) 20181031	Soil	No	Column %D
	10/31/2018	SW846	SB2-7 (2-4) 20181031	Soil	Yes	
	11/1/2018	SW846	TC-SB-1 (0-1) 20181101	Soil	Yes	
	11/1/2018	SW846	TC-SB-2 (0-1) 20181101	Soil	Yes	
	11/1/2018	SW846	TC-SB-4 (0-1) 20181101	Soil	Yes	
	11/1/2018	SW846	TC-SB-5 (1-2) 20181101	Soil	Yes	
	11/1/2018	SW846	TC-SB-5 (0-1) 20181101	Soil	Yes	
	11/1/2018	SW846	TC-SB-5 (2-3) 20181101	Soil	Yes	
	11/1/2018	SW846	TC-SB-5 (3-5) 20181101	Soil	Yes	

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE: 

DATE: December 8, 2018

PEER REVIEW: Dennis Capria

DATE: December 11, 2018

CHAIN OF CUSTODY

CORRECTED SAMPLE ANALYSIS DATA SHEETS

P1of4

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

480-144580 COC

Client Information	Sampler: Daniel Meandro	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-120747-277
Client Contact: Mr. David Cornell	Phone: 315-992-0568	E-Mail: melissa.deyo@testamericainc.com		Page: Page 4 of 14
Company: ARCADIS U.S. Inc				Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:
City: Syracuse	TAT Requested (days): Standard
State, Zip: NY, 13202	
Phone: 315-671-9379(Tel)	PO #: AP013103.1000.1000S
Email: david.cornell@arcadis-us.com	WO #:
Project Name: GE Tonawanda	Project #: 48017567
Site: Tonawanda, NY	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	8082A-PCBs * Archive	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
SB2-1 (0-1)	10/30/18	0830	C	Solid			X			
SB2-1 (1-2)	10/30/18	0900	C	Solid				X		Archive
SB2-1 (2-4)	10/30/18	0930	C	Solid				X		Archive
SB2-2 (0-1)	10/30/18	1000	C	Solid			X			
SB2-2 (1-2)	10/30/18	1030	C	Solid				X		Archive
SB2-2 (2-4)	10/30/18	1100	C	Solid				X		Archive
SB2-3 (0-1)	10/30/18	1330	C	Solid			X			
SB2-3 (1-2)	10/30/18	1400	C	Solid				X		Archive
SB2-3 (2-4)	10/30/18	1430	C	Solid				X		Archive
SB2-4 (0-1)	10/30/18	1500	C	Solid			X			
SB2-4 (1-2)	10/30/18	1530	C	Solid			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Daniel Meandro	11/1/18 15:00	Arcadis		11/1/18 15:00	TAB
2		11/1/18 15:30	TAB		11/01/18 1530	TA
3						

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.6 #1 ICE

Ver: 08/04/2016

11/15/2018

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Daniel Meandro	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-120747-27738.3
Client Contact: Mr. David Cornell	Phone: 315-992-0568	E-Mail: melissa.deyo@testamericainc.com		Page: Page 3 of 14
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202				
Phone: 315-671-9379(Tel)	PO #: AP013103.1000.1000S			
Email: david.cornell@arcadis-us.com	WO #:			
Project Name: GE Tonawanda	Project #: 48017567			
Site: Tonawanda, NY	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	8082A - PCBs *Archive*	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
SB2-4 (2-4)	10/30/18	1600	C	Solid				X		
SB2-5 (0-1)	10/31/18	0830	C	Solid			X			
SB2-5 (1-2)	10/31/18	0900	C	Solid				X		
SB2-5 (2-4)	10/31/18	0930	C	Solid				X		
QC TC-SB-3 (01)	10/31/18	1000	C	Solid		X	X			
TC-SB-3 (1-2)	10/31/18	1030	C	Solid				X		
TC-SB-3 (2-3)	10/31/18	1100	C	Solid				X		
TC-SB-3 (3-5)	10/31/18	1130	C	Solid				X		
DUP-103118	10/31/18	—	C	Solid			X			
SB2-6 (0-1)	10/31/18	13:30	C	Solid			X			
SB2-6 (1-2)	10/31/18	13:45	C	Solid			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Daniel Meandro	11/1/18 15:00	Arcadis			
2		11/1/18 15:30	TAB		11/1/18 15:00	TAB
3					11/1/18 15:30	TA

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.1 #1 ICE

Ver: 08/04/2016

11/15/2018

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Daniel Meander	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-120747-27738.7
Client Contact: Mr. David Cornell	Phone: (315) 992-0568	E-Mail: melissa.deyo@testamericainc.com		Page: Page 7 of 14
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202				
Phone: 315-671-9379(Tel)	PO #: AP013103.1000.1000S			
Email: david.cornell@arcadis-us.com	WO #:			
Project Name: GE Tonawanda	Project #: 48017567			
Site: Tonawanda, NY	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
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G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	8082A - PCBs * Archive *	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
SB2-6 (2-4)	10/31/18	14:10	C	Solid				X		
SB2-7 (0-1)	10/31/18	14:35	C	Solid			X			
SB2-7 (1-2)	10/31/18	14:50	C	Solid			X			
SB2-7 (2-4)	10/31/18	15:20	C	Solid			X			
SB2-7 (4-5)	10/31/18	15:50	C	Solid				X		
TC-SB-1 (0-1)	11/1/18	07:40	C	Solid			X			
TC-SB-1 (1-2)	11/1/18	08:10	C	Solid				X		
TC-SB-1 (2-3)	11/1/18	08:35	C	Solid				X		
TC-SB-1 (3-5)	11/1/18	09:05	C	Solid				X		
TC-SB-2 (0-1)	11/1/18	09:30	C	Solid			X			
TC-SB-2 (1-2)	11/1/18	09:50	C	Solid				X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Daniel Meander	11/1/18 15:00	Arcadis		11/1/18 15:00	TAB
2		11/1/18 15:30	TAB		11/01/18 1530	TA
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.0 #1 ICE

Ver: 08/04/2016

11/15/2018

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Dan Meardo	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-120747-27738.8
Client Contact: Mr. David Cornell	Phone: (315) 992-0568	E-Mail: melissa.deyo@testamericainc.com		Page: Page 8 of 14
Company: ARCADIS U.S. Inc				Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:
City: Syracuse	TAT Requested (days): Standard
State, Zip: NY, 13202	
Phone: 315-671-9379(Tel)	PO #: AP013103.1000.1000S
Email: david.cornell@arcadis-us.com	WO #:
Project Name: GE Tonawanda	Project #: 48017567
Site: Tonawanda, NY	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	SOSZA PCBs_Archive	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
TC-SB-2 (2-3)	11/1/18	10:15	C	Solid				X		
TC-SB-2 (3-5)	11/1/18	10:40	C	Solid				X		
TC-SB-4 (0-1)	11/1/18	11:00	C	Solid			X			
TC-SB-4 (1-2)	11/1/18	11:25	C	Solid				X		
TC-SB-4 (2-3)	11/1/18	11:50	C	Solid				X		
TC-SB-4 (0-5)	11/1/18	12:20	C	Solid				X		
DUP-110118	11/1/18	-	C	Solid				X		
TC-SB-5 (0-1)	11/1/18	13:40	C	Solid			X			
TC-SB-5 (1-2)	11/1/18	13:50	C	Solid		X	X			MS/MSD
TC-SB-5 (2-3)	11/1/18	14:10	C	Solid			X			
TC-SB-5 (3-5)	11/1/18	14:40	C	Solid			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Daniel Meardo	Date/Time: 11/1/18 / 15:00	Company: Arcadis	Received by:	Date/Time: 11/1/18 15:00	Company: TAL
Relinquished by:	Date/Time: 11/1/18 15:30	Company: TAL	Received by: How Like 16	Date/Time: 11/01/18 15:30	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0 #1 ICE

Ver: 08/04/2016

11/15/2018

Client Sample ID: SB2-1 (0-1)

Date Collected: 10/30/18 08:30
Date Received: 11/01/18 15:30

Lab Sample ID: 480-144580-1

Matrix: Solid
Percent Solids: 97.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	UJ	12	2.4	mg/Kg	☼	11/03/18 06:40	11/04/18 19:39	50
PCB-1221	ND		12	2.4	mg/Kg	☼	11/03/18 06:40	11/04/18 19:39	50
PCB-1232	ND		12	2.4	mg/Kg	☼	11/03/18 06:40	11/04/18 19:39	50
PCB-1242	ND		12	2.4	mg/Kg	☼	11/03/18 06:40	11/04/18 19:39	50
PCB-1248	ND		12	2.4	mg/Kg	☼	11/03/18 06:40	11/04/18 19:39	50
PCB-1254	ND		12	5.7	mg/Kg	☼	11/03/18 06:40	11/04/18 19:39	50
PCB-1260	**32**	J	12	5.7	mg/Kg	☼	11/03/18 06:40	11/04/18 19:39	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*60 - 154*	*11/03/18 06:40*	*11/04/18 19:39*	*50*
Tetrachloro-m-xylene	*8*	*X*	*60 - 154*	*11/03/18 06:40*	*11/04/18 19:39*	*50*
DCB Decachlorobiphenyl	*0*	*X*	*65 - 174*	*11/03/18 06:40*	*11/04/18 19:39*	*50*
DCB Decachlorobiphenyl	*0*	*X*	*65 - 174*	*11/03/18 06:40*	*11/04/18 19:39*	*50*

Client Sample ID: SB2-2 (0-1)

Date Collected: 10/30/18 10:00
Date Received: 11/01/18 15:30

Lab Sample ID: 480-144580-2

Matrix: Solid
Percent Solids: 82.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.057	mg/Kg	☼	11/03/18 06:40	11/04/18 19:55	1
PCB-1221	ND		0.29	0.057	mg/Kg	☼	11/03/18 06:40	11/04/18 19:55	1
PCB-1232	ND		0.29	0.057	mg/Kg	☼	11/03/18 06:40	11/04/18 19:55	1
PCB-1242	ND		0.29	0.057	mg/Kg	☼	11/03/18 06:40	11/04/18 19:55	1
PCB-1248	ND		0.29	0.057	mg/Kg	☼	11/03/18 06:40	11/04/18 19:55	1
PCB-1254	ND		0.29	0.14	mg/Kg	☼	11/03/18 06:40	11/04/18 19:55	1
PCB-1260	ND		0.29	0.14	mg/Kg	☼	11/03/18 06:40	11/04/18 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*125*		*60 - 154*	*11/03/18 06:40*	*11/04/18 19:55*	*1*
Tetrachloro-m-xylene	*93*		*60 - 154*	*11/03/18 06:40*	*11/04/18 19:55*	*1*
DCB Decachlorobiphenyl	*114*		*65 - 174*	*11/03/18 06:40*	*11/04/18 19:55*	*1*
DCB Decachlorobiphenyl	*145*		*65 - 174*	*11/03/18 06:40*	*11/04/18 19:55*	*1*

Client Sample ID: SB2-3 (0-1)

Date Collected: 10/30/18 13:30
Date Received: 11/01/18 15:30

Lab Sample ID: 480-144580-3

Matrix: Solid
Percent Solids: 93.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.050	mg/Kg	☼	11/03/18 06:40	11/04/18 20:11	1
PCB-1221	ND		0.26	0.050	mg/Kg	☼	11/03/18 06:40	11/04/18 20:11	1
PCB-1232	ND		0.26	0.050	mg/Kg	☼	11/03/18 06:40	11/04/18 20:11	1
PCB-1242	ND		0.26	0.050	mg/Kg	☼	11/03/18 06:40	11/04/18 20:11	1
PCB-1248	ND		0.26	0.050	mg/Kg	☼	11/03/18 06:40	11/04/18 20:11	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	11/03/18 06:40	11/04/18 20:11	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	11/03/18 06:40	11/04/18 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*116*		*60 - 154*	*11/03/18 06:40*	*11/04/18 20:11*	*1*

Client Sample ID: SB2-3 (0-1)

Lab Sample ID: 480-144580-3

Date Collected: 10/30/18 13:30
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 93.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*60 - 154*	*11/03/18 06:40*	*11/04/18 20:11*	*1*
DCB Decachlorobiphenyl	*109*		*65 - 174*	*11/03/18 06:40*	*11/04/18 20:11*	*1*
DCB Decachlorobiphenyl	*140*		*65 - 174*	*11/03/18 06:40*	*11/04/18 20:11*	*1*

Client Sample ID: SB2-4 (0-1)

Lab Sample ID: 480-144580-4

Date Collected: 10/30/18 15:00
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 85.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg	☼	11/03/18 06:40	11/04/18 20:27	1
PCB-1221	ND		0.22	0.043	mg/Kg	☼	11/03/18 06:40	11/04/18 20:27	1
PCB-1232	ND		0.22	0.043	mg/Kg	☼	11/03/18 06:40	11/04/18 20:27	1
PCB-1242	ND		0.22	0.043	mg/Kg	☼	11/03/18 06:40	11/04/18 20:27	1
PCB-1248	ND		0.22	0.043	mg/Kg	☼	11/03/18 06:40	11/04/18 20:27	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	11/03/18 06:40	11/04/18 20:27	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	11/03/18 06:40	11/04/18 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*60 - 154*	*11/03/18 06:40*	*11/04/18 20:27*	*1*
Tetrachloro-m-xylene	*90*		*60 - 154*	*11/03/18 06:40*	*11/04/18 20:27*	*1*
DCB Decachlorobiphenyl	*97*		*65 - 174*	*11/03/18 06:40*	*11/04/18 20:27*	*1*
DCB Decachlorobiphenyl	*133*		*65 - 174*	*11/03/18 06:40*	*11/04/18 20:27*	*1*

Client Sample ID: SB2-4 (1-2)

Lab Sample ID: 480-144580-5

Date Collected: 10/30/18 15:30
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 81.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg	☼	11/03/18 06:40	11/04/18 20:43	1
PCB-1221	ND		0.22	0.043	mg/Kg	☼	11/03/18 06:40	11/04/18 20:43	1
PCB-1232	ND		0.22	0.043	mg/Kg	☼	11/03/18 06:40	11/04/18 20:43	1
PCB-1242	ND		0.22	0.043	mg/Kg	☼	11/03/18 06:40	11/04/18 20:43	1
PCB-1248	ND		0.22	0.043	mg/Kg	☼	11/03/18 06:40	11/04/18 20:43	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	11/03/18 06:40	11/04/18 20:43	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	11/03/18 06:40	11/04/18 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*136*		*60 - 154*	*11/03/18 06:40*	*11/04/18 20:43*	*1*
Tetrachloro-m-xylene	*110*		*60 - 154*	*11/03/18 06:40*	*11/04/18 20:43*	*1*
DCB Decachlorobiphenyl	*122*		*65 - 174*	*11/03/18 06:40*	*11/04/18 20:43*	*1*
DCB Decachlorobiphenyl	*162*		*65 - 174*	*11/03/18 06:40*	*11/04/18 20:43*	*1*

Client Sample ID: SB2-5 (0-1)

Lab Sample ID: 480-144580-6
Date Collected: 10/31/18 08:30
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 87.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.044	mg/Kg	☼	11/03/18 06:40	11/04/18 20:59	1
PCB-1221	ND		0.23	0.044	mg/Kg	☼	11/03/18 06:40	11/04/18 20:59	1
PCB-1232	ND		0.23	0.044	mg/Kg	☼	11/03/18 06:40	11/04/18 20:59	1
PCB-1242	ND		0.23	0.044	mg/Kg	☼	11/03/18 06:40	11/04/18 20:59	1
PCB-1248	ND		0.23	0.044	mg/Kg	☼	11/03/18 06:40	11/04/18 20:59	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	11/03/18 06:40	11/04/18 20:59	1
PCB-1260	**0.11**	**J**	0.23	0.11	mg/Kg	☼	11/03/18 06:40	11/04/18 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*133*		*60 - 154*	*11/03/18 06:40*	*11/04/18 20:59*	*1*
Tetrachloro-m-xylene	*101*		*60 - 154*	*11/03/18 06:40*	*11/04/18 20:59*	*1*
DCB Decachlorobiphenyl	*119*		*65 - 174*	*11/03/18 06:40*	*11/04/18 20:59*	*1*
DCB Decachlorobiphenyl	*154*		*65 - 174*	*11/03/18 06:40*	*11/04/18 20:59*	*1*

Client Sample ID: TC-SB-3 (0-1)

Lab Sample ID: 480-144580-7
Date Collected: 10/31/18 10:00
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 83.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.054	mg/Kg	☼	11/03/18 06:40	11/04/18 18:20	1
PCB-1221	ND		0.28	0.054	mg/Kg	☼	11/03/18 06:40	11/04/18 18:20	1
PCB-1232	ND		0.28	0.054	mg/Kg	☼	11/03/18 06:40	11/04/18 18:20	1
PCB-1242	ND		0.28	0.054	mg/Kg	☼	11/03/18 06:40	11/04/18 18:20	1
PCB-1248	ND		0.28	0.054	mg/Kg	☼	11/03/18 06:40	11/04/18 18:20	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	11/03/18 06:40	11/04/18 18:20	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	11/03/18 06:40	11/04/18 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*119*		*60 - 154*	*11/03/18 06:40*	*11/04/18 18:20*	*1*
Tetrachloro-m-xylene	*85*		*60 - 154*	*11/03/18 06:40*	*11/04/18 18:20*	*1*
DCB Decachlorobiphenyl	*103*		*65 - 174*	*11/03/18 06:40*	*11/04/18 18:20*	*1*
DCB Decachlorobiphenyl	*133*		*65 - 174*	*11/03/18 06:40*	*11/04/18 18:20*	*1*

Client Sample ID: DUP-103118

Lab Sample ID: 480-144580-8
Date Collected: 10/31/18 00:00
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 80.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	UJ	5.4	1.1	mg/Kg	☼	11/03/18 06:40	11/04/18 21:15	20
PCB-1221	ND		5.4	1.1	mg/Kg	☼	11/03/18 06:40	11/04/18 21:15	20
PCB-1232	ND		5.4	1.1	mg/Kg	☼	11/03/18 06:40	11/04/18 21:15	20
PCB-1242	ND		5.4	1.1	mg/Kg	☼	11/03/18 06:40	11/04/18 21:15	20
PCB-1248	ND		5.4	1.1	mg/Kg	☼	11/03/18 06:40	11/04/18 21:15	20
PCB-1254	ND		5.4	2.5	mg/Kg	☼	11/03/18 06:40	11/04/18 21:15	20
PCB-1260	**8.2**	**J**	5.4	2.5	mg/Kg	☼	11/03/18 06:40	11/04/18 21:15	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*118*		*60 - 154*	*11/03/18 06:40*	*11/04/18 21:15*	*20*
Tetrachloro-m-xylene	*98*		*60 - 154*	*11/03/18 06:40*	*11/04/18 21:15*	*20*

Client Sample ID: DUP-103118

Lab Sample ID: 480-144580-8

Date Collected: 10/31/18 00:00
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 80.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*122*		*65 - 174*	*11/03/18 06:40*	*11/04/18 21:15*	*20*
DCB Decachlorobiphenyl	*84*		*65 - 174*	*11/03/18 06:40*	*11/04/18 21:15*	*20*

Client Sample ID: SB2-6 (0-1)

Lab Sample ID: 480-144580-9

Date Collected: 10/31/18 13:30
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 81.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.8	0.54	mg/Kg	☼	11/03/18 06:40	11/04/18 21:31	10
PCB-1221	ND		2.8	0.54	mg/Kg	☼	11/03/18 06:40	11/04/18 21:31	10
PCB-1232	ND		2.8	0.54	mg/Kg	☼	11/03/18 06:40	11/04/18 21:31	10
PCB-1242	ND		2.8	0.54	mg/Kg	☼	11/03/18 06:40	11/04/18 21:31	10
PCB-1248	ND		2.8	0.54	mg/Kg	☼	11/03/18 06:40	11/04/18 21:31	10
PCB-1254	ND		2.8	1.3	mg/Kg	☼	11/03/18 06:40	11/04/18 21:31	10
PCB-1260	**7.3**		2.8	1.3	mg/Kg	☼	11/03/18 06:40	11/04/18 21:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*131*		*60 - 154*	*11/03/18 06:40*	*11/04/18 21:31*	*10*
Tetrachloro-m-xylene	*105*		*60 - 154*	*11/03/18 06:40*	*11/04/18 21:31*	*10*
DCB Decachlorobiphenyl	*138*		*65 - 174*	*11/03/18 06:40*	*11/04/18 21:31*	*10*
DCB Decachlorobiphenyl	*154*		*65 - 174*	*11/03/18 06:40*	*11/04/18 21:31*	*10*

Client Sample ID: SB2-6 (1-2)

Lab Sample ID: 480-144580-10

Date Collected: 10/31/18 13:45
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 83.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	☼	11/03/18 06:40	11/04/18 21:47	1
PCB-1221	ND		0.25	0.049	mg/Kg	☼	11/03/18 06:40	11/04/18 21:47	1
PCB-1232	ND		0.25	0.049	mg/Kg	☼	11/03/18 06:40	11/04/18 21:47	1
PCB-1242	ND		0.25	0.049	mg/Kg	☼	11/03/18 06:40	11/04/18 21:47	1
PCB-1248	ND		0.25	0.049	mg/Kg	☼	11/03/18 06:40	11/04/18 21:47	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	11/03/18 06:40	11/04/18 21:47	1
PCB-1260	**0.37**	J	0.25	0.12	mg/Kg	☼	11/03/18 06:40	11/04/18 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*137*		*60 - 154*	*11/03/18 06:40*	*11/04/18 21:47*	*1*
Tetrachloro-m-xylene	*91*		*60 - 154*	*11/03/18 06:40*	*11/04/18 21:47*	*1*
DCB Decachlorobiphenyl	*125*		*65 - 174*	*11/03/18 06:40*	*11/04/18 21:47*	*1*
DCB Decachlorobiphenyl	*162*		*65 - 174*	*11/03/18 06:40*	*11/04/18 21:47*	*1*

Client Sample ID: SB2-7 (0-1)

Lab Sample ID: 480-144580-11

Date Collected: 10/31/18 14:35
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 95.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	UJ	5.2	1.0	mg/Kg	☼	11/03/18 06:40	11/04/18 22:02	20

Client Sample ID: SB2-7 (0-1)

Lab Sample ID: 480-144580-11
Date Collected: 10/31/18 14:35
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 95.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND	UJ	5.2	1.0	mg/Kg	☼	11/03/18 06:40	11/04/18 22:02	20
PCB-1232	ND		5.2	1.0	mg/Kg	☼	11/03/18 06:40	11/04/18 22:02	20
PCB-1242	ND		5.2	1.0	mg/Kg	☼	11/03/18 06:40	11/04/18 22:02	20
PCB-1248	ND		5.2	1.0	mg/Kg	☼	11/03/18 06:40	11/04/18 22:02	20
PCB-1254	**48**	J	5.2	2.4	mg/Kg	☼	11/03/18 06:40	11/04/18 22:02	20
PCB-1260	ND	UJ	5.2	2.4	mg/Kg	☼	11/03/18 06:40	11/04/18 22:02	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*		*60 - 154*	*11/03/18 06:40*	*11/04/18 22:02*	*20*
Tetrachloro-m-xylene	*85*		*60 - 154*	*11/03/18 06:40*	*11/04/18 22:02*	*20*
DCB Decachlorobiphenyl	*132*		*65 - 174*	*11/03/18 06:40*	*11/04/18 22:02*	*20*
DCB Decachlorobiphenyl	*103*		*65 - 174*	*11/03/18 06:40*	*11/04/18 22:02*	*20*

Client Sample ID: SB2-7 (1-2)

Lab Sample ID: 480-144580-12
Date Collected: 10/31/18 14:50
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 86.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	11/03/18 06:40	11/04/18 22:18	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	11/03/18 06:40	11/04/18 22:18	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	11/03/18 06:40	11/04/18 22:18	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	11/03/18 06:40	11/04/18 22:18	1
PCB-1248	ND		0.23	0.045	mg/Kg	☼	11/03/18 06:40	11/04/18 22:18	1
PCB-1254	**0.42**	J	0.23	0.11	mg/Kg	☼	11/03/18 06:40	11/04/18 22:18	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	11/03/18 06:40	11/04/18 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*125*		*60 - 154*	*11/03/18 06:40*	*11/04/18 22:18*	*1*
Tetrachloro-m-xylene	*90*		*60 - 154*	*11/03/18 06:40*	*11/04/18 22:18*	*1*
DCB Decachlorobiphenyl	*122*		*65 - 174*	*11/03/18 06:40*	*11/04/18 22:18*	*1*
DCB Decachlorobiphenyl	*156*		*65 - 174*	*11/03/18 06:40*	*11/04/18 22:18*	*1*

Client Sample ID: SB2-7 (2-4)

Lab Sample ID: 480-144580-13
Date Collected: 10/31/18 15:20
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 86.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.040	mg/Kg	☼	11/03/18 06:40	11/04/18 23:05	1
PCB-1221	ND		0.20	0.040	mg/Kg	☼	11/03/18 06:40	11/04/18 23:05	1
PCB-1232	ND		0.20	0.040	mg/Kg	☼	11/03/18 06:40	11/04/18 23:05	1
PCB-1242	ND		0.20	0.040	mg/Kg	☼	11/03/18 06:40	11/04/18 23:05	1
PCB-1248	ND		0.20	0.040	mg/Kg	☼	11/03/18 06:40	11/04/18 23:05	1
PCB-1254	**0.78**		0.20	0.095	mg/Kg	☼	11/03/18 06:40	11/04/18 23:05	1
PCB-1260	ND		0.20	0.095	mg/Kg	☼	11/03/18 06:40	11/04/18 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*137*		*60 - 154*	*11/03/18 06:40*	*11/04/18 23:05*	*1*
Tetrachloro-m-xylene	*103*		*60 - 154*	*11/03/18 06:40*	*11/04/18 23:05*	*1*
DCB Decachlorobiphenyl	*130*		*65 - 174*	*11/03/18 06:40*	*11/04/18 23:05*	*1*

Client Sample ID: SB2-7 (2-4)

Lab Sample ID: 480-144580-13
Date Collected: 10/31/18 15:20
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 86.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*170*		*65 - 174*	*11/03/18 06:40*	*11/04/18 23:05*	*1*

Client Sample ID: TC-SB-1 (0-1)

Lab Sample ID: 480-144580-14
Date Collected: 11/01/18 07:40
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 78.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	11/03/18 06:40	11/04/18 23:21	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	11/03/18 06:40	11/04/18 23:21	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	11/03/18 06:40	11/04/18 23:21	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	11/03/18 06:40	11/04/18 23:21	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	11/03/18 06:40	11/04/18 23:21	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	11/03/18 06:40	11/04/18 23:21	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	11/03/18 06:40	11/04/18 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*119*		*60 - 154*	*11/03/18 06:40*	*11/04/18 23:21*	*1*
Tetrachloro-m-xylene	*86*		*60 - 154*	*11/03/18 06:40*	*11/04/18 23:21*	*1*
DCB Decachlorobiphenyl	*107*		*65 - 174*	*11/03/18 06:40*	*11/04/18 23:21*	*1*
DCB Decachlorobiphenyl	*141*		*65 - 174*	*11/03/18 06:40*	*11/04/18 23:21*	*1*

Client Sample ID: TC-SB-2 (0-1)

Lab Sample ID: 480-144580-15
Date Collected: 11/01/18 09:30
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 79.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.052	mg/Kg	☼	11/03/18 06:40	11/04/18 23:37	1
PCB-1221	ND		0.27	0.052	mg/Kg	☼	11/03/18 06:40	11/04/18 23:37	1
PCB-1232	ND		0.27	0.052	mg/Kg	☼	11/03/18 06:40	11/04/18 23:37	1
PCB-1242	ND		0.27	0.052	mg/Kg	☼	11/03/18 06:40	11/04/18 23:37	1
PCB-1248	ND		0.27	0.052	mg/Kg	☼	11/03/18 06:40	11/04/18 23:37	1
PCB-1254	ND		0.27	0.12	mg/Kg	☼	11/03/18 06:40	11/04/18 23:37	1
PCB-1260	ND		0.27	0.12	mg/Kg	☼	11/03/18 06:40	11/04/18 23:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*121*		*60 - 154*	*11/03/18 06:40*	*11/04/18 23:37*	*1*
Tetrachloro-m-xylene	*93*		*60 - 154*	*11/03/18 06:40*	*11/04/18 23:37*	*1*
DCB Decachlorobiphenyl	*109*		*65 - 174*	*11/03/18 06:40*	*11/04/18 23:37*	*1*
DCB Decachlorobiphenyl	*141*		*65 - 174*	*11/03/18 06:40*	*11/04/18 23:37*	*1*

Client Sample ID: TC-SB-4 (0-1)

Lab Sample ID: 480-144580-16
Date Collected: 11/01/18 11:00
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 84.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.052	mg/Kg	☼	11/03/18 06:55	11/05/18 01:28	1
PCB-1221	ND		0.26	0.052	mg/Kg	☼	11/03/18 06:55	11/05/18 01:28	1

Client Sample ID: TC-SB-4 (0-1)

Lab Sample ID: 480-144580-16
Date Collected: 11/01/18 11:00
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 84.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.26	0.052	mg/Kg	☼	11/03/18 06:55	11/05/18 01:28	1
PCB-1242	ND		0.26	0.052	mg/Kg	☼	11/03/18 06:55	11/05/18 01:28	1
PCB-1248	ND		0.26	0.052	mg/Kg	☼	11/03/18 06:55	11/05/18 01:28	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	11/03/18 06:55	11/05/18 01:28	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	11/03/18 06:55	11/05/18 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*60 - 154*	*11/03/18 06:55*	*11/05/18 01:28*	*1*
Tetrachloro-m-xylene	*79*		*60 - 154*	*11/03/18 06:55*	*11/05/18 01:28*	*1*
DCB Decachlorobiphenyl	*102*		*65 - 174*	*11/03/18 06:55*	*11/05/18 01:28*	*1*
DCB Decachlorobiphenyl	*122*		*65 - 174*	*11/03/18 06:55*	*11/05/18 01:28*	*1*

Client Sample ID: TC-SB-5 (1-2)

Lab Sample ID: 480-144580-17
Date Collected: 11/01/18 13:50
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 86.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	11/03/18 06:55	11/05/18 01:12	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	11/03/18 06:55	11/05/18 01:12	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	11/03/18 06:55	11/05/18 01:12	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	11/03/18 06:55	11/05/18 01:12	1
PCB-1248	ND		0.26	0.051	mg/Kg	☼	11/03/18 06:55	11/05/18 01:12	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	11/03/18 06:55	11/05/18 01:12	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	11/03/18 06:55	11/05/18 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*106*		*60 - 154*	*11/03/18 06:55*	*11/05/18 01:12*	*1*
Tetrachloro-m-xylene	*81*		*60 - 154*	*11/03/18 06:55*	*11/05/18 01:12*	*1*
DCB Decachlorobiphenyl	*97*		*65 - 174*	*11/03/18 06:55*	*11/05/18 01:12*	*1*
DCB Decachlorobiphenyl	*125*		*65 - 174*	*11/03/18 06:55*	*11/05/18 01:12*	*1*

Client Sample ID: TC-SB-5 (0-1)

Lab Sample ID: 480-144580-18
Date Collected: 11/01/18 13:40
Matrix: Solid
Date Received: 11/01/18 15:30
Percent Solids: 84.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.040	mg/Kg	☼	11/05/18 14:23	11/06/18 20:14	1
PCB-1221	ND		0.21	0.040	mg/Kg	☼	11/05/18 14:23	11/06/18 20:14	1
PCB-1232	ND		0.21	0.040	mg/Kg	☼	11/05/18 14:23	11/06/18 20:14	1
PCB-1242	ND		0.21	0.040	mg/Kg	☼	11/05/18 14:23	11/06/18 20:14	1
PCB-1248	ND		0.21	0.040	mg/Kg	☼	11/05/18 14:23	11/06/18 20:14	1
PCB-1254	ND		0.21	0.096	mg/Kg	☼	11/05/18 14:23	11/06/18 20:14	1
PCB-1260	ND		0.21	0.096	mg/Kg	☼	11/05/18 14:23	11/06/18 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*121*		*60 - 154*	*11/05/18 14:23*	*11/06/18 20:14*	*1*
Tetrachloro-m-xylene	*111*		*60 - 154*	*11/05/18 14:23*	*11/06/18 20:14*	*1*
DCB Decachlorobiphenyl	*132*		*65 - 174*	*11/05/18 14:23*	*11/06/18 20:14*	*1*
DCB Decachlorobiphenyl	*110*		*65 - 174*	*11/05/18 14:23*	*11/06/18 20:14*	*1*

Client Sample ID: TC-SB-5 (2-3)

Lab Sample ID: 480-144580-19

Date Collected: 11/01/18 14:10

Matrix: Solid

Date Received: 11/01/18 15:30

Percent Solids: 84.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.056	mg/Kg	☼	11/05/18 14:23	11/06/18 20:30	1
PCB-1221	ND		0.29	0.056	mg/Kg	☼	11/05/18 14:23	11/06/18 20:30	1
PCB-1232	ND		0.29	0.056	mg/Kg	☼	11/05/18 14:23	11/06/18 20:30	1
PCB-1242	ND		0.29	0.056	mg/Kg	☼	11/05/18 14:23	11/06/18 20:30	1
PCB-1248	ND		0.29	0.056	mg/Kg	☼	11/05/18 14:23	11/06/18 20:30	1
PCB-1254	ND		0.29	0.13	mg/Kg	☼	11/05/18 14:23	11/06/18 20:30	1
PCB-1260	ND		0.29	0.13	mg/Kg	☼	11/05/18 14:23	11/06/18 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*132*		*60 - 154*	*11/05/18 14:23*	*11/06/18 20:30*	*1*
Tetrachloro-m-xylene	*118*		*60 - 154*	*11/05/18 14:23*	*11/06/18 20:30*	*1*
DCB Decachlorobiphenyl	*147*		*65 - 174*	*11/05/18 14:23*	*11/06/18 20:30*	*1*
DCB Decachlorobiphenyl	*123*		*65 - 174*	*11/05/18 14:23*	*11/06/18 20:30*	*1*

Client Sample ID: TC-SB-5 (3-5)

Lab Sample ID: 480-144580-20

Date Collected: 11/01/18 14:40

Matrix: Solid

Date Received: 11/01/18 15:30

Percent Solids: 86.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	11/05/18 14:23	11/06/18 20:46	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	11/05/18 14:23	11/06/18 20:46	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	11/05/18 14:23	11/06/18 20:46	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	11/05/18 14:23	11/06/18 20:46	1
PCB-1248	ND		0.23	0.045	mg/Kg	☼	11/05/18 14:23	11/06/18 20:46	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	11/05/18 14:23	11/06/18 20:46	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	11/05/18 14:23	11/06/18 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*136*		*60 - 154*	*11/05/18 14:23*	*11/06/18 20:46*	*1*
Tetrachloro-m-xylene	*122*		*60 - 154*	*11/05/18 14:23*	*11/06/18 20:46*	*1*
DCB Decachlorobiphenyl	*146*		*65 - 174*	*11/05/18 14:23*	*11/06/18 20:46*	*1*
DCB Decachlorobiphenyl	*120*		*65 - 174*	*11/05/18 14:23*	*11/06/18 20:46*	*1*

ARCADIS Design & Consultancy for natural and built assets

General Electric Company

Buffalo Service Shop

Tonawanda, New York

NYSDEC ID 915244; EPA ID NYD067539940

DATA USABILITY SUMMARY REPORT

Polychlorinated Biphenyl (PCB) Analysis

SDG #480-145164-1 and 480-145387-1

Analyses Performed By:
TestAmerica Laboratories, Inc.
Amherst, New York

Report #31236R
Review Level: Tier III
Project: AP013103.1000.1000B

SUMMARY

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Groups (SDGs) #480-145164-1 and 480-145387-1 for samples collected in association with The General Electric Company (GE) former Parts and Repair Service Center in Tonawanda, NY (NYSDEC ID 915244; EPA ID NYD067539940). The review was conducted as a Tier III evaluation and included review of laboratory analytical data package completeness. Field documentation was not included in this review. Included with this assessment are the post-validation annotated sample result sheets, and chain of custody (COC). Analyses were performed for polychlorinated biphenyls (PCBs) on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis
						PCB
480-145164-1	TC-SB-6 (0-1) 20181102	480-145164-1	Soil	11/2/2018		X
	TC-SB-7 (0-1) 20181102	480-145164-5	Soil	11/2/2018		X
	TC-SB-7 (1-2) 20181102	480-145164-6	Soil	11/2/2018		X
	TC-SB-7 (2-3) 20181102	480-145164-7	Soil	11/2/2018		X
	TC-SB-7 (3-5) 20181102	480-145164-8	Soil	11/2/2018		X
	TC-SB-8 (0-1) 20181105	480-145164-9	Soil	11/5/2018		X
	TC-SB-9 (0-1) 20181105	480-145164-13	Soil	11/5/2018		X
	TC-SB-10 (0-1) 20181105	480-145164-17	Soil	11/5/2018		X
	DUP-110518	480-145164-21	Soil	11/5/2018	TC-SB-9 (0-1')	X
	TC-SB-11 (0-1) 20181106	480-145164-22	Soil	11/6/2018		X
	TC-SB-11 (1-2) 20181106	480-145164-23	Soil	11/6/2018		X
	TC-SB-11 (2-3) 20181106	480-145164-24	Soil	11/6/2018		X
	TC-SB-11 (3-5) 20181106	480-145164-25	Soil	11/6/2018		X
	TC-SB-12 (0-1) 20181106	480-145164-26	Soil	11/6/2018		X
	TC-SB-13 (0-1) 20181106	480-145164-30	Soil	11/6/2018		X
	TC-SB-19 (0-1) 20181107	480-145164-36	Soil	11/7/2018		X
	TC-SB-18 (0-1) 20181107	480-145164-40	Soil	11/7/2018		X
	DUP-110718	480-145164-44	Soil	11/7/2018	TC-SB-21 (1-2')	X
	TC-SB-14 (0-1) 20181106	480-145164-45	Soil	11/6/2018		X
	DUP-110618	480-145164-49	Soil	11/6/2018	TC-SB-11 (2-3')	X
	TC-SB-21 (0-1) 20181107	480-145164-50	Soil	11/7/2018		X
	TC-SB-20 (0-1) 20181107	480-145164-54	Soil	11/7/2018		X
	TC-SB-15 (0-1) 20181108	480-145164-56	Soil	11/8/2018		X
	TC-SB-16 (0-1) 20181108	480-145164-61	Soil	11/8/2018		X

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis
						PCB
	TC-SB-17 (0-1) 20181108	480-145164-65	Soil	11/8/2018		X
	RB-110618	480-145164-69	Water	11/6/2018		X
	RB-110818	480-145164-70	Water	11/8/2018		X
480-145387-1	SB2-1 (1-2) 20181030	480-145387-1	Soil	10/30/2018		X

LABORATORY ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the laboratory analytical data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed COC form		X		X	
11. Narrative summary of quality assurance (QA) or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

ORGANIC ANALYSIS INTRODUCTION

PCB analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8082A, respectively. Data were reviewed in accordance with the USEPA Region II validation guidelines *Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A* (SOP #HW-45, October 2006); the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review* (January 2017); USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999); and the *RCRA Facility Investigation Work Plan for Sub-Slab Soils, Buffalo Service Shop* (November 2017).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
  - UB Compound considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon. It is also important to note that while strict QC serves to increase confidence in data, any value potentially contains error.

POLYCHLORINATED BIPHENYL ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8082A	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6°C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

Note:
The holding times above are recommendations. PCBs are very stable in a variety of matrices, and holding times, under the conditions listed above, may be as long as a year per SW-846 8082A (February 2007).

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A Blank Action Level (BAL) of five times the concentration of a detected Aroclor in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine if qualification of the sample results is appropriate.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination and no qualification of the sample results was required.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

A maximum relative standard deviation (RSD) of 20% is allowed or a correlation coefficient greater than 0.99. Multiple-point calibrations were performed for all Aroclors.

All Aroclors associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration verification (CCV) standard must exhibit a percent difference (%D) less than the control limit (20%).

All Aroclors associated with calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
TC-SB-12 (0-1) 20181106 TC-SB-13 (0-1) 20181106 TC-SB-19 (0-1) 20181107 TC-SB-18 (0-1) 20181107 DUP-110718 TC-SB-14 (0-1) 20181106 DUP-110618 TC-SB-21 (0-1) 20181107 TC-SB-20 (0-1) 20181107 TC-SB-15 (0-1) 20181108 TC-SB-16 (0-1) 20181108 TC-SB-17 (0-1) 20181108	CCV %D	Aroclor 1260	+41.4%
SB2-1 (1-2)	CCV %D	Aroclor 1260	+29.0%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial Calibration	%RSD > 20%or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >15% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >15% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

4. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. PCB analysis requires that the two PCB surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries reported from the primary column were within acceptance limits.

5. Matrix Spike/Matrix Spike Duplicate Analysis

Matrix Spike/Matrix Spike Duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method. The Aroclors used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must be within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the Aroclor concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis exhibited recoveries and RPD within acceptance limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate Analysis

The Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

Sample locations associated with LCS/LCSD analysis exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	LCS Recovery	LCSD Recovery
TC-SB-12 (0-1) 0181106 TC-SB-13 (0-1) 20181106 TC-SB-19 (0-1) 20181107 TC-SB-18 (0-1) 20181107 DUP-110718 TC-SB-14 (0-1) 20181106 DUP-110618 TC-SB-21 (0-1) 20181107 TC-SB-20 (0-1) 20181107 TC-SB-15 (0-1) 20181108 TC-SB-16 (0-1) 20181108 TC-SB-17 (0-1) 20181108	Aroclor 1260	>UL	--

The criteria used to evaluate the LCS/LCSD recoveries are presented in the following table. In the case of an LCS/LCSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

7. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. For soil matrices, a control limit of 50% is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
TC-SB-9 (0-1')/ DUP-110518	All Aroclors	U	U	AC
TC-SB-21 (1-2')/ DUP-110718	All Aroclors	U	U	AC
TC-SB-11 (2-3')/ DUP-110618	All Aroclors	U	U	AC

Note:

AC Acceptable

No Aroclors were detected in parent and duplicate samples listed above; hence, RPD was not calculated and the results are considered to be in agreement.

8. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns. When dual column analysis is performed the RPD of detected sample results must be less than 25%.

No Aroclors were detected in samples within this dataset.

9. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR PCBs

PCBs: SW-846 8082A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY (GC/ECD)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R	X				X
LCS/LCSD Precision (RPD)	X				X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Column (RPD) (If dual column is performed-not confirmation purposes only)		X		X	
Dilution Factor		X		X	
Moisture Content		X		X	
Tier III Validation					
Initial calibration %RSDs		X		X	
Continuing calibration %Ds		X		X	
System performance and column resolution		X		X	
Compound identification and quantitation					
A. Quantitation Reports		X		X	
B. RT of sample compounds within the established RT windows		X		X	
C. Pattern identification		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Percent Relative standard deviation
%R Percent recovery
%D Percent difference
RPD Relative percent difference
RT Retention time

SAMPLE COMPLIANCE REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]	Non-compliance
					PCB	
480-145164-1	11/2/2018	SW846	TC-SB-6 (0-1) 20181102	Soil	Yes	
	11/2/2018	SW846	TC-SB-7 (0-1) 20181102	Soil	Yes	
	11/2/2018	SW846	TC-SB-7 (1-2) 20181102	Soil	Yes	
	11/2/2018	SW846	TC-SB-7 (2-3) 20181102	Soil	Yes	
	11/2/2018	SW846	TC-SB-7 (3-5) 20181102	Soil	Yes	
	11/5/2018	SW846	TC-SB-8 (0-1) 20181105	Soil	Yes	
	11/5/2018	SW846	TC-SB-9 (0-1) 20181105	Soil	Yes	
	11/5/2018	SW846	TC-SB-10 (0-1) 20181105	Soil	Yes	
	11/5/2018	SW846	DUP-110518	Soil	Yes	
	11/6/2018	SW846	TC-SB-11 (0-1) 20181106	Soil	Yes	
	11/6/2018	SW846	TC-SB-11 (1-2) 20181106	Soil	Yes	
	11/6/2018	SW846	TC-SB-11 (2-3) 20181106	Soil	Yes	
	11/6/2018	SW846	TC-SB-11 (3-5) 20181106	Soil	Yes	
	11/6/2018	SW846	TC-SB-12 (0-1) 20181106	Soil	Yes	
	11/6/2018	SW846	TC-SB-13 (0-1) 20181106	Soil	Yes	
	11/7/2018	SW846	TC-SB-19 (0-1) 20181107	Soil	Yes	
	11/7/2018	SW846	TC-SB-18 (0-1) 20181107	Soil	Yes	
	11/7/2018	SW846	DUP-110718	Soil	Yes	
	11/6/2018	SW846	TC-SB-14 (0-1) 20181106	Soil	Yes	
	11/6/2018	SW846	DUP-110618	Soil	Yes	
	11/7/2018	SW846	TC-SB-21 (0-1) 20181107	Soil	Yes	
	11/7/2018	SW846	TC-SB-20 (0-1) 20181107	Soil	Yes	
	11/8/2018	SW846	TC-SB-15 (0-1) 20181108	Soil	Yes	

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]	Non-compliance
					PCB	
	11/8/2018	SW846	TC-SB-16 (0-1) 20181108	Soil	Yes	
	11/8/2018	SW846	TC-SB-17 (0-1) 20181108	Soil	Yes	
	11/6/2018	SW846	RB-110618	Soil	Yes	
	11/8/2018	SW846	RB-110818	Soil	Yes	
480-145387-1	10/30/2018	SW846	SB2-1 (1-2) 20181030	Soil	Yes	

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE: 

DATE: December 8, 2018

PEER REVIEW: Dennis Capria

DATE: December 11, 2018

CHAIN OF CUSTODY

CORRECTED SAMPLE ANALYSIS DATA SHEETS

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

P. 1 of 7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information			
Client Contact: Mr. David Cornell	Sampler: Dan Meandro	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):
Company: ARCADIS U.S. Inc	Phone: (315) 992-0568	E-Mail: melissa.deyo@testamericainc.com	COC No: 480-120747-27738.9
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested: –		Page: Page 9 of 14
City: Syracuse	TAT Requested (days): Standard		Job #:
State, Zip: NY, 13202	PO #: AP013103.1000.1000S		
Phone: 315-671-9379(Tel)	WO #:		
Email: david.cornell@arcadis-us.com	Project #: 48017567		
Project Name: GE Tonawanda	SSOW#:		
Site: Tonawanda, NY			

Analysis Requested

Preservation Codes: A - HCL, B - NaOH, C - Zn Ac, D - Nitric, E - NaHS, F - MeOH, G - Amchl, H - Ascort, I - Ice, J - DI Wat, K - EDTA, L - EDA, ...ydrate, Z - other (specify)
Other:

480-145164 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	8082A - PCBs *Archive*	Total Number of containers	Special Instructions/Note:
				Preservation Code:	X	X	N		X	
TC-SB-6 (0-1)	11/2/18	07:45	C	Solid			X			
TC-SB-6 (1-2)	11/2/18	08:00	C	Solid				X		
TC-SB-6 (2-3)	11/2/18	08:20	C	Solid				X		
TC-SB-6 (3-5)	11/2/18	08:40	C	Solid				X		
TC-SB-7 (0-1)	11/2/18	09:00	C	Solid			X			
TC-SB-7 (1-2)	11/2/18	09:15	C	Solid			X			
TC-SB-7 (2-3)	11/2/18	09:30	C	Solid			X			
TC-SB-7 (3-5)	11/2/18	10:00	C	Solid			X			
TC-SB-8 (0-1)	11/5/18	10:35	C	Solid		X	X			MS/MSD
TC-SB-8 (1-2)	11/5/18	10:50	C	Solid				X		
TC-SB-8 (2-3)	11/5/18	11:15	C	Solid				X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ______ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: Joshua M[signature]	Date/Time: 11/09/18 / 08:00	Company: Arcadis	Received by: [signature]	Date/Time: 11/9/18 08:02	Company: TAM
Relinquished by: [signature]	Date/Time: 11/9/18 09:50	Company: TAM	Received by: [signature]/ELKOLD	Date/Time: 11/09/18 0950	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.4 2.0 #1

Ver: 08/04/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

0.2 of 7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Dan Meandro	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-120747-27738.11
Client Contact: Mr. David Cornell	Phone: (315) 992-0568	E-Mail: melissa.deyo@testamericainc.com		Page: Page 11 of 14
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested: —			
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202	PO #: AP013103.1000.1000S			
Phone: 315-671-9379(Tel)	WO #:			
Email: david.cornell@arcadis-us.com	Project #: 48017567			
Project Name: GE Tonawanda	SSOW#:			
Site: Tonawanda, NY				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	8082A - PCBs # Archive	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
TC-SB-8 (3-5)	11/5/18	11:30	C	Solid				X		
TC-SB-9 (0-1)	11/5/18	09:35	C	Solid			X			
TC-SB-9 (1-2)	11/5/18	09:50	C	Solid				X		
TC-SB-9 (2-3)	11/5/18	10:05	C	Solid				X		
TC-SB-9 (3-5)	11/5/18	10:25	C	Solid				X		
TC-SB-10 (0-1)	11/5/18	11:45	C	Solid			X			
TC-SB-10 (1-2)	11/5/18	12:05	C	Solid				X		
TC-SB-10 (2-3)	11/5/18	12:25	C	Solid				X		
TC-SB-10 (3-5)	11/5/18	13:00	C	Solid				X		
DUP-110518	11/5/18	—	C	Solid			X			
TC-SB-11 (0-1)	11/6/18	08:10	C	Solid			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Joshua Miller	11/9/18 / 08:00	Arcadis		11/5/18 08:00	
Relinquished by:	Date/Time: 11/5/18 09:50	Company TA	Received by: Christopher Cikolb	Date/Time: 11/09/18 0950	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.4 2.9 #1

Ver: 08/04/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

P. 3 of 7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Dan Meandro	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-120747-27738.13
Client Contact: Mr. David Cornell	Phone: (315) 992-0508	E-Mail: melissa.deyo@testamericainc.com		Page: Page 13 of 14
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested: –			
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202				
Phone: 315-671-9379(Tel)	PO #: AP013103.1000.1000S			
Email: david.cornell@arcadis-us.com	WO #:			
Project Name: GE Tonawanda	Project #: 48017567			
Site: Tonawanda, NY	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	8082A - PCBs + Aroclor	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
TC-SB-11 (1-2)	11/6/18	08:25	C	Solid			X			
TC-SB-11 (2-3)	11/6/18	08:40	C	Solid			X			
TC-SB-11 (3-5)	11/6/18	09:05	C	Solid			X			
TC-SB-12 (0-1)	11/6/18	09:20	C	Solid		X	X			MS/MSD
TC-SB-12 (1-2)	11/6/18	09:35	C	Solid				X		
TC-SB-12 (2-3)	11/6/18	09:45	C	Solid				X		
TC-SB-12 (3-5)	11/6/18	10:00	C	Solid				X		
TC-SB-13 (0-1)	11/6/18	16:20	C	Solid			X			
TC-SB-13 (1-2)	11/6/18	10:40	C	Solid				X		
TC-SB-13 (2-3)	11/6/18	11:00	C	Solid				X		
TC-SB-13 (3-5)	11/6/18	11:30	C	Solid				X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Joshua Miller	11/9/18 / 08:00	Arcadis		11/5/18 08:00	TAB
2		11/5/18 09:50	TAB	Christopher Cikolb	11/9/18 0950	TA
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.4 2.6 #1

Ver: 08/04/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

P.4 of 7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Dan Meandro	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-120747-27738.1
Client Contact: Mr. David Cornell	Phone: (315) 992-0568	E-Mail: melissa.deyo@testamericainc.com		Page: Page 1 of 14
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested: –			
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202				
Phone: 315-671-9379(Tel)	PO #: AP013103.1000.1000S			
Email: david.cornell@arcadis-us.com	WO #:			
Project Name: GE Tonawanda	Project #: 48017567			
Site: Tonawanda, NY	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA
M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	8082A PCBs + Archive *	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
TC-SB-20 (2-3)	11/7/18	09:45		Solid				X		
TC-SB-20 (3-5)	11/7/18	09:55		Solid				X		
TC-SB-19 (0-1)	11/7/18	10:10		Solid			X			
TC-SB-19 (1-2)	11/7/18	10:25		Solid				X		
TC-SB-19 (2-3)	11/7/18	10:45		Solid				X		
TC-SB-19 (3-5)	11/7/18	11:00		Solid				X		
TC-SB-18 (0-1)	11/7/18	11:20		Solid			X			
TC-SB-18 (1-2)	11/7/18	11:35		Solid				X		
TC-SB-18 (2-3)	11/7/18	11:50		Solid				X		
TC-SB-18 (3-5)	11/7/18	12:10		Solid				X		
DUP-110718	11/7/18	–		Solid			X			*ARCHIVE*

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ______ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	
Relinquished by: Joshua M[illegible]	Date/Time: 11/9/18 / 0800	Company: Arcadis	Received by: [signature]	Date/Time: 11/9/18 08:00	Company: TAN
Relinquished by: [signature]	Date/Time: 11/9/18 09:50	Company: TAN	Received by: [signature] Cikollo	Date/Time: 11/09/18 0950	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.4 2.6 #1

Ver: 08/04/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Dan Meandro	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-120747-27738.14
Client Contact: Mr. David Cornell	Phone: (315) 992-0568	E-Mail: melissa.deyo@testamericainc.com		Page: Page 14 of 14
Company: ARCADIS U.S. Inc		Analysis Requested		Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Syracuse	TAT Requested (days): standard			
State, Zip: NY, 13202	PO #: AP013103.1000.1000S			
Phone: 315-671-9379(Tel)	WO #:			Other:
Email: david.cornell@arcadis-us.com				
Project Name: GE Tonawanda	Project #: 48017567			
Site: Tonawanda, NY	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	8082A - PCBs + Aroclor #	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
TC-SB-14 (0-1)	11/6/18	12:00	C	Solid			X			
TC-SB-14 (1-2)	11/6/18	12:15	C	Solid				X		
TC-SB-14 (2-3)	11/6/18	12:35	C	Solid				X		
TC-SB-14 (3-5)	11/6/18	12:50	C	Solid				X		
DUP-110618	11/6/18	—	C	Solid			X			
TC-SB-21 (0-1)	11/7/18	08:10	C	Solid			X			
TC-SB-21 (1-2)	11/7/18	08:25	C	Solid				X		
TC-SB-21 (2-3)	11/7/18	08:40	C	S				X		
TC-SB-21 (3-5)	11/7/18	09:00	C	S				X		
TC-SB-20 (0-1)	11/7/18	09:10	C	S			X			
TC-SB-20 (1-2)	11/7/18	09:30	C	S		X		X		MS/MSD

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/7/18 / 08:10	Arcadis		11/5/18 08:00	
2		11/9/18 09:50	TAL		11/09/18 0950	TA
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.1 2.6 #1

Ver: 08/04/2016

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11/29/2018

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

P. 6 of 7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Dan Meandro	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-120747-27738.4
Client Contact: Mr. David Cornell	Phone: 315-992-0568	E-Mail: melissa.deyo@testamericainc.com		Page: Page 4 of 14
Company: ARCADIS U.S. Inc				Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202	PO #: AP013103.1000.1000S			
Phone: 315-671-9379(Tel)	WO #:			
Email: david.cornell@arcadis-us.com	Project #: 48017567			
Project Name: GE Tonawanda	SSOW#:			
Site: Tonawanda, NY				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	8082A PCB's Archive	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
TC-SB-15 (0-1)	11/8/18	0745	C	Solid			X			
TC-SB-15 (1-2)	11/8/18	0800	C	Solid		X		X		MS/MSD
TC-SB-15 (2-3)	11/8/18	0810	C	Solid				X		
TC-SB-15 (3-5)	11/8/18	0825	C	Solid				X		
DUP-110818	11/8/18		C	Solid				X		
TC-SB-16 (0-1)	11/8/18	0850	C	Solid			X			
TC-SB-16 (1-2)	11/8/18	0910	C	Solid				X		
TC-SB-16 (2-3)	11/8/18	0930	C	Solid				X		
TC-SB-16 (3-5)	11/8/18	0945	C	Solid				X		
TC-SB-17 (0-1)	11/8/18	1000	C	Solid			X			
TC-SB-17 (1-2)	11/8/18	1020	C	Solid				X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/9/18 / 18:00	Arcadis		11/5/18 08:a	
2		11/9/18 09:50			11/09/18 0950	
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.4 2.6 #1

Ver: 08/04/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

P. 7 of 7

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Dan Meandro	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-120747-27738.3
Client Contact: Mr. David Cornell	Phone: 315-992-0568	E-Mail: melissa.deyo@testamericainc.com		Page: Page 3 of 14
Company: ARCADIS U.S. Inc				Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:
City: Syracuse	TAT Requested (days): Standard
State, Zip: NY, 13202	PO #: AP013103.1000.1000S
Phone: 315-671-9379(Tel)	WO #:
Email: david.cornell@arcadis-us.com	Project #: 48017567
Project Name: GE Tonawanda	SSOW#:
Site: Tonawanda, NY	

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acet
D - Nitric
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Ac
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
Z - other
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	8082A PCB w Archive	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
TC-SB-17 (2-3)	11/8/18	1035	C	Solid				X		
TC-SB-17 (3-5)	11/8/18	1050	C	Solid				X		
RB-110618	11/6/18	1600	G	Solid			X			
RB-110818	11/8/18	1545	G	Solid			X			
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/9/18 1058	Arcadis		11/9/18 08:00	
Relinquished by:	Date/Time: 11/9/18 09:50	Company	Received by:	Date/Time: 11/13/18 950	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.1 2.0 IR

Ver: 08/04/2016

Client Sample ID: TC-SB-6 (0-1)

Lab Sample ID: 480-145164-1

Date Collected: 11/02/18 07:45
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 86.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	11/16/18 06:46	11/19/18 14:23	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	11/16/18 06:46	11/19/18 14:23	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	11/16/18 06:46	11/19/18 14:23	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	11/16/18 06:46	11/19/18 14:23	1
PCB-1248	ND		0.23	0.045	mg/Kg	☼	11/16/18 06:46	11/19/18 14:23	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	11/16/18 06:46	11/19/18 14:23	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	11/16/18 06:46	11/19/18 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*120*		*60 - 154*	*11/16/18 06:46*	*11/19/18 14:23*	*1*
Tetrachloro-m-xylene	*86*		*60 - 154*	*11/16/18 06:46*	*11/19/18 14:23*	*1*
DCB Decachlorobiphenyl	*106*		*65 - 174*	*11/16/18 06:46*	*11/19/18 14:23*	*1*
DCB Decachlorobiphenyl	*130*		*65 - 174*	*11/16/18 06:46*	*11/19/18 14:23*	*1*

Client Sample ID: TC-SB-7 (0-1)

Lab Sample ID: 480-145164-5

Date Collected: 11/02/18 09:00
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 84.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.046	mg/Kg	☼	11/16/18 06:46	11/19/18 14:39	1
PCB-1221	ND		0.24	0.046	mg/Kg	☼	11/16/18 06:46	11/19/18 14:39	1
PCB-1232	ND		0.24	0.046	mg/Kg	☼	11/16/18 06:46	11/19/18 14:39	1
PCB-1242	ND		0.24	0.046	mg/Kg	☼	11/16/18 06:46	11/19/18 14:39	1
PCB-1248	ND		0.24	0.046	mg/Kg	☼	11/16/18 06:46	11/19/18 14:39	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	11/16/18 06:46	11/19/18 14:39	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	11/16/18 06:46	11/19/18 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*118*		*60 - 154*	*11/16/18 06:46*	*11/19/18 14:39*	*1*
Tetrachloro-m-xylene	*84*		*60 - 154*	*11/16/18 06:46*	*11/19/18 14:39*	*1*
DCB Decachlorobiphenyl	*108*		*65 - 174*	*11/16/18 06:46*	*11/19/18 14:39*	*1*
DCB Decachlorobiphenyl	*128*		*65 - 174*	*11/16/18 06:46*	*11/19/18 14:39*	*1*

Client Sample ID: TC-SB-7 (1-2)

Lab Sample ID: 480-145164-6

Date Collected: 11/02/18 09:15
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 85.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	11/16/18 06:46	11/19/18 14:55	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	11/16/18 06:46	11/19/18 14:55	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	11/16/18 06:46	11/19/18 14:55	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	11/16/18 06:46	11/19/18 14:55	1
PCB-1248	ND		0.26	0.051	mg/Kg	☼	11/16/18 06:46	11/19/18 14:55	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	11/16/18 06:46	11/19/18 14:55	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	11/16/18 06:46	11/19/18 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*60 - 154*	*11/16/18 06:46*	*11/19/18 14:55*	*1*

Client Sample ID: TC-SB-7 (1-2)

Date Collected: 11/02/18 09:15
Date Received: 11/13/18 09:50

Lab Sample ID: 480-145164-6

Matrix: Solid
Percent Solids: 85.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*60 - 154*	*11/16/18 06:46*	*11/19/18 14:55*	*1*
DCB Decachlorobiphenyl	*98*		*65 - 174*	*11/16/18 06:46*	*11/19/18 14:55*	*1*
DCB Decachlorobiphenyl	*119*		*65 - 174*	*11/16/18 06:46*	*11/19/18 14:55*	*1*

Client Sample ID: TC-SB-7 (2-3)

Date Collected: 11/02/18 09:30
Date Received: 11/13/18 09:50

Lab Sample ID: 480-145164-7

Matrix: Solid
Percent Solids: 85.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	11/16/18 06:46	11/19/18 15:11	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	11/16/18 06:46	11/19/18 15:11	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	11/16/18 06:46	11/19/18 15:11	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	11/16/18 06:46	11/19/18 15:11	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	11/16/18 06:46	11/19/18 15:11	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	11/16/18 06:46	11/19/18 15:11	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	11/16/18 06:46	11/19/18 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*128*		*60 - 154*	*11/16/18 06:46*	*11/19/18 15:11*	*1*
Tetrachloro-m-xylene	*97*		*60 - 154*	*11/16/18 06:46*	*11/19/18 15:11*	*1*
DCB Decachlorobiphenyl	*114*		*65 - 174*	*11/16/18 06:46*	*11/19/18 15:11*	*1*
DCB Decachlorobiphenyl	*142*		*65 - 174*	*11/16/18 06:46*	*11/19/18 15:11*	*1*

Client Sample ID: TC-SB-7 (3-5)

Date Collected: 11/02/18 10:00
Date Received: 11/13/18 09:50

Lab Sample ID: 480-145164-8

Matrix: Solid
Percent Solids: 85.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.042	mg/Kg	☼	11/16/18 06:46	11/19/18 15:27	1
PCB-1221	ND		0.22	0.042	mg/Kg	☼	11/16/18 06:46	11/19/18 15:27	1
PCB-1232	ND		0.22	0.042	mg/Kg	☼	11/16/18 06:46	11/19/18 15:27	1
PCB-1242	ND		0.22	0.042	mg/Kg	☼	11/16/18 06:46	11/19/18 15:27	1
PCB-1248	ND		0.22	0.042	mg/Kg	☼	11/16/18 06:46	11/19/18 15:27	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	11/16/18 06:46	11/19/18 15:27	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	11/16/18 06:46	11/19/18 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*123*		*60 - 154*	*11/16/18 06:46*	*11/19/18 15:27*	*1*
Tetrachloro-m-xylene	*89*		*60 - 154*	*11/16/18 06:46*	*11/19/18 15:27*	*1*
DCB Decachlorobiphenyl	*109*		*65 - 174*	*11/16/18 06:46*	*11/19/18 15:27*	*1*
DCB Decachlorobiphenyl	*134*		*65 - 174*	*11/16/18 06:46*	*11/19/18 15:27*	*1*

Client Sample ID: TC-SB-8 (0-1)

Lab Sample ID: 480-145164-9
Date Collected: 11/05/18 10:35
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 77.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.31	0.060	mg/Kg	☼	11/16/18 06:46	11/19/18 14:07	1
PCB-1221	ND		0.31	0.060	mg/Kg	☼	11/16/18 06:46	11/19/18 14:07	1
PCB-1232	ND		0.31	0.060	mg/Kg	☼	11/16/18 06:46	11/19/18 14:07	1
PCB-1242	ND		0.31	0.060	mg/Kg	☼	11/16/18 06:46	11/19/18 14:07	1
PCB-1248	ND		0.31	0.060	mg/Kg	☼	11/16/18 06:46	11/19/18 14:07	1
PCB-1254	ND		0.31	0.14	mg/Kg	☼	11/16/18 06:46	11/19/18 14:07	1
PCB-1260	ND		0.31	0.14	mg/Kg	☼	11/16/18 06:46	11/19/18 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*122*		*60 - 154*	*11/16/18 06:46*	*11/19/18 14:07*	*1*
Tetrachloro-m-xylene	*86*		*60 - 154*	*11/16/18 06:46*	*11/19/18 14:07*	*1*
DCB Decachlorobiphenyl	*107*		*65 - 174*	*11/16/18 06:46*	*11/19/18 14:07*	*1*
DCB Decachlorobiphenyl	*131*		*65 - 174*	*11/16/18 06:46*	*11/19/18 14:07*	*1*

Client Sample ID: TC-SB-9 (0-1)

Lab Sample ID: 480-145164-13
Date Collected: 11/05/18 09:35
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 81.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.057	mg/Kg	☼	11/16/18 06:46	11/19/18 15:43	1
PCB-1221	ND		0.29	0.057	mg/Kg	☼	11/16/18 06:46	11/19/18 15:43	1
PCB-1232	ND		0.29	0.057	mg/Kg	☼	11/16/18 06:46	11/19/18 15:43	1
PCB-1242	ND		0.29	0.057	mg/Kg	☼	11/16/18 06:46	11/19/18 15:43	1
PCB-1248	ND		0.29	0.057	mg/Kg	☼	11/16/18 06:46	11/19/18 15:43	1
PCB-1254	ND		0.29	0.14	mg/Kg	☼	11/16/18 06:46	11/19/18 15:43	1
PCB-1260	ND		0.29	0.14	mg/Kg	☼	11/16/18 06:46	11/19/18 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*108*		*60 - 154*	*11/16/18 06:46*	*11/19/18 15:43*	*1*
Tetrachloro-m-xylene	*83*		*60 - 154*	*11/16/18 06:46*	*11/19/18 15:43*	*1*
DCB Decachlorobiphenyl	*98*		*65 - 174*	*11/16/18 06:46*	*11/19/18 15:43*	*1*
DCB Decachlorobiphenyl	*120*		*65 - 174*	*11/16/18 06:46*	*11/19/18 15:43*	*1*

Client Sample ID: TC-SB-10 (0-1)

Lab Sample ID: 480-145164-17
Date Collected: 11/05/18 11:45
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 91.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21	0.040	mg/Kg	☼	11/16/18 06:46	11/19/18 15:59	1
PCB-1221	ND		0.21	0.040	mg/Kg	☼	11/16/18 06:46	11/19/18 15:59	1
PCB-1232	ND		0.21	0.040	mg/Kg	☼	11/16/18 06:46	11/19/18 15:59	1
PCB-1242	ND		0.21	0.040	mg/Kg	☼	11/16/18 06:46	11/19/18 15:59	1
PCB-1248	ND		0.21	0.040	mg/Kg	☼	11/16/18 06:46	11/19/18 15:59	1
PCB-1254	ND		0.21	0.096	mg/Kg	☼	11/16/18 06:46	11/19/18 15:59	1
PCB-1260	ND		0.21	0.096	mg/Kg	☼	11/16/18 06:46	11/19/18 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*122*		*60 - 154*	*11/16/18 06:46*	*11/19/18 15:59*	*1*
Tetrachloro-m-xylene	*87*		*60 - 154*	*11/16/18 06:46*	*11/19/18 15:59*	*1*

Client Sample ID: TC-SB-10 (0-1)

Lab Sample ID: 480-145164-17
Date Collected: 11/05/18 11:45
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 91.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*111*		*65 - 174*	*11/16/18 06:46*	*11/19/18 15:59*	*1*
DCB Decachlorobiphenyl	*125*		*65 - 174*	*11/16/18 06:46*	*11/19/18 15:59*	*1*

Client Sample ID: DUP-110518

Lab Sample ID: 480-145164-21
Date Collected: 11/05/18 00:00
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 76.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.31	0.061	mg/Kg	☼	11/16/18 06:46	11/19/18 16:15	1
PCB-1221	ND		0.31	0.061	mg/Kg	☼	11/16/18 06:46	11/19/18 16:15	1
PCB-1232	ND		0.31	0.061	mg/Kg	☼	11/16/18 06:46	11/19/18 16:15	1
PCB-1242	ND		0.31	0.061	mg/Kg	☼	11/16/18 06:46	11/19/18 16:15	1
PCB-1248	ND		0.31	0.061	mg/Kg	☼	11/16/18 06:46	11/19/18 16:15	1
PCB-1254	ND		0.31	0.15	mg/Kg	☼	11/16/18 06:46	11/19/18 16:15	1
PCB-1260	ND		0.31	0.15	mg/Kg	☼	11/16/18 06:46	11/19/18 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*134*		*60 - 154*	*11/16/18 06:46*	*11/19/18 16:15*	*1*
Tetrachloro-m-xylene	*99*		*60 - 154*	*11/16/18 06:46*	*11/19/18 16:15*	*1*
DCB Decachlorobiphenyl	*120*		*65 - 174*	*11/16/18 06:46*	*11/19/18 16:15*	*1*
DCB Decachlorobiphenyl	*136*		*65 - 174*	*11/16/18 06:46*	*11/19/18 16:15*	*1*

Client Sample ID: TC-SB-11 (0-1)

Lab Sample ID: 480-145164-22
Date Collected: 11/06/18 08:10
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 84.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.054	mg/Kg	☼	11/16/18 06:46	11/19/18 16:31	1
PCB-1221	ND		0.28	0.054	mg/Kg	☼	11/16/18 06:46	11/19/18 16:31	1
PCB-1232	ND		0.28	0.054	mg/Kg	☼	11/16/18 06:46	11/19/18 16:31	1
PCB-1242	ND		0.28	0.054	mg/Kg	☼	11/16/18 06:46	11/19/18 16:31	1
PCB-1248	ND		0.28	0.054	mg/Kg	☼	11/16/18 06:46	11/19/18 16:31	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	11/16/18 06:46	11/19/18 16:31	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	11/16/18 06:46	11/19/18 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*133*		*60 - 154*	*11/16/18 06:46*	*11/19/18 16:31*	*1*
Tetrachloro-m-xylene	*96*		*60 - 154*	*11/16/18 06:46*	*11/19/18 16:31*	*1*
DCB Decachlorobiphenyl	*114*		*65 - 174*	*11/16/18 06:46*	*11/19/18 16:31*	*1*
DCB Decachlorobiphenyl	*133*		*65 - 174*	*11/16/18 06:46*	*11/19/18 16:31*	*1*

Client Sample ID: TC-SB-11 (1-2)

Lab Sample ID: 480-145164-23
Date Collected: 11/06/18 08:25
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 86.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.046	mg/Kg	☼	11/16/18 06:46	11/19/18 16:47	1

Client Sample ID: TC-SB-11 (1-2)

Lab Sample ID: 480-145164-23

Date Collected: 11/06/18 08:25
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 86.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		0.23	0.046	mg/Kg	☼	11/16/18 06:46	11/19/18 16:47	1
PCB-1232	ND		0.23	0.046	mg/Kg	☼	11/16/18 06:46	11/19/18 16:47	1
PCB-1242	ND		0.23	0.046	mg/Kg	☼	11/16/18 06:46	11/19/18 16:47	1
PCB-1248	ND		0.23	0.046	mg/Kg	☼	11/16/18 06:46	11/19/18 16:47	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	11/16/18 06:46	11/19/18 16:47	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	11/16/18 06:46	11/19/18 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*147*		*60 - 154*	*11/16/18 06:46*	*11/19/18 16:47*	*1*
Tetrachloro-m-xylene	*113*		*60 - 154*	*11/16/18 06:46*	*11/19/18 16:47*	*1*
DCB Decachlorobiphenyl	*128*		*65 - 174*	*11/16/18 06:46*	*11/19/18 16:47*	*1*
DCB Decachlorobiphenyl	*154*		*65 - 174*	*11/16/18 06:46*	*11/19/18 16:47*	*1*

Client Sample ID: TC-SB-11 (2-3)

Lab Sample ID: 480-145164-24

Date Collected: 11/06/18 08:40
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 86.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	11/16/18 06:46	11/19/18 17:03	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	11/16/18 06:46	11/19/18 17:03	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	11/16/18 06:46	11/19/18 17:03	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	11/16/18 06:46	11/19/18 17:03	1
PCB-1248	ND		0.23	0.045	mg/Kg	☼	11/16/18 06:46	11/19/18 17:03	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	11/16/18 06:46	11/19/18 17:03	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	11/16/18 06:46	11/19/18 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*135*		*60 - 154*	*11/16/18 06:46*	*11/19/18 17:03*	*1*
Tetrachloro-m-xylene	*98*		*60 - 154*	*11/16/18 06:46*	*11/19/18 17:03*	*1*
DCB Decachlorobiphenyl	*119*		*65 - 174*	*11/16/18 06:46*	*11/19/18 17:03*	*1*
DCB Decachlorobiphenyl	*143*		*65 - 174*	*11/16/18 06:46*	*11/19/18 17:03*	*1*

Client Sample ID: TC-SB-11 (3-5)

Lab Sample ID: 480-145164-25

Date Collected: 11/06/18 09:05
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 86.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg	☼	11/16/18 06:46	11/19/18 17:19	1
PCB-1221	ND		0.22	0.043	mg/Kg	☼	11/16/18 06:46	11/19/18 17:19	1
PCB-1232	ND		0.22	0.043	mg/Kg	☼	11/16/18 06:46	11/19/18 17:19	1
PCB-1242	ND		0.22	0.043	mg/Kg	☼	11/16/18 06:46	11/19/18 17:19	1
PCB-1248	ND		0.22	0.043	mg/Kg	☼	11/16/18 06:46	11/19/18 17:19	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	11/16/18 06:46	11/19/18 17:19	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	11/16/18 06:46	11/19/18 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*141*		*60 - 154*	*11/16/18 06:46*	*11/19/18 17:19*	*1*
Tetrachloro-m-xylene	*102*		*60 - 154*	*11/16/18 06:46*	*11/19/18 17:19*	*1*
DCB Decachlorobiphenyl	*122*		*65 - 174*	*11/16/18 06:46*	*11/19/18 17:19*	*1*

Client Sample ID: TC-SB-11 (3-5)

Lab Sample ID: 480-145164-25
Date Collected: 11/06/18 09:05
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 86.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*150*		*65 - 174*	*11/16/18 06:46*	*11/19/18 17:19*	*1*

Client Sample ID: TC-SB-12 (0-1)

Lab Sample ID: 480-145164-26
Date Collected: 11/06/18 09:20
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 89.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.038	mg/Kg	☼	11/16/18 14:19	11/19/18 22:19	1
PCB-1221	ND		0.20	0.038	mg/Kg	☼	11/16/18 14:19	11/19/18 22:19	1
PCB-1232	ND		0.20	0.038	mg/Kg	☼	11/16/18 14:19	11/19/18 22:19	1
PCB-1242	ND		0.20	0.038	mg/Kg	☼	11/16/18 14:19	11/19/18 22:19	1
PCB-1248	ND		0.20	0.038	mg/Kg	☼	11/16/18 14:19	11/19/18 22:19	1
PCB-1254	ND		0.20	0.092	mg/Kg	☼	11/16/18 14:19	11/19/18 22:19	1
PCB-1260	ND		0.20	0.092	mg/Kg	☼	11/16/18 14:19	11/19/18 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*60 - 154*	*11/16/18 14:19*	*11/19/18 22:19*	*1*
Tetrachloro-m-xylene	*96*		*60 - 154*	*11/16/18 14:19*	*11/19/18 22:19*	*1*
DCB Decachlorobiphenyl	*127*		*65 - 174*	*11/16/18 14:19*	*11/19/18 22:19*	*1*
DCB Decachlorobiphenyl	*104*		*65 - 174*	*11/16/18 14:19*	*11/19/18 22:19*	*1*

Client Sample ID: TC-SB-13 (0-1)

Lab Sample ID: 480-145164-30
Date Collected: 11/06/18 10:20
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 82.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg	☼	11/16/18 14:19	11/19/18 22:35	1
PCB-1221	ND		0.22	0.043	mg/Kg	☼	11/16/18 14:19	11/19/18 22:35	1
PCB-1232	ND		0.22	0.043	mg/Kg	☼	11/16/18 14:19	11/19/18 22:35	1
PCB-1242	ND		0.22	0.043	mg/Kg	☼	11/16/18 14:19	11/19/18 22:35	1
PCB-1248	ND		0.22	0.043	mg/Kg	☼	11/16/18 14:19	11/19/18 22:35	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	11/16/18 14:19	11/19/18 22:35	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	11/16/18 14:19	11/19/18 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*108*		*60 - 154*	*11/16/18 14:19*	*11/19/18 22:35*	*1*
Tetrachloro-m-xylene	*109*		*60 - 154*	*11/16/18 14:19*	*11/19/18 22:35*	*1*
DCB Decachlorobiphenyl	*139*		*65 - 174*	*11/16/18 14:19*	*11/19/18 22:35*	*1*
DCB Decachlorobiphenyl	*124*		*65 - 174*	*11/16/18 14:19*	*11/19/18 22:35*	*1*

Client Sample ID: TC-SB-19 (0-1)

Lab Sample ID: 480-145164-36
Date Collected: 11/07/18 10:10
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 85.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.057	mg/Kg	☼	11/16/18 14:19	11/19/18 22:51	1
PCB-1221	ND		0.29	0.057	mg/Kg	☼	11/16/18 14:19	11/19/18 22:51	1

Client Sample ID: TC-SB-19 (0-1)

Lab Sample ID: 480-145164-36
Date Collected: 11/07/18 10:10
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 85.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.29	0.057	mg/Kg	☼	11/16/18 14:19	11/19/18 22:51	1
PCB-1242	ND		0.29	0.057	mg/Kg	☼	11/16/18 14:19	11/19/18 22:51	1
PCB-1248	ND		0.29	0.057	mg/Kg	☼	11/16/18 14:19	11/19/18 22:51	1
PCB-1254	ND		0.29	0.14	mg/Kg	☼	11/16/18 14:19	11/19/18 22:51	1
PCB-1260	ND		0.29	0.14	mg/Kg	☼	11/16/18 14:19	11/19/18 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*112*		*60 - 154*	*11/16/18 14:19*	*11/19/18 22:51*	*1*
Tetrachloro-m-xylene	*110*		*60 - 154*	*11/16/18 14:19*	*11/19/18 22:51*	*1*
DCB Decachlorobiphenyl	*155*		*65 - 174*	*11/16/18 14:19*	*11/19/18 22:51*	*1*
DCB Decachlorobiphenyl	*128*		*65 - 174*	*11/16/18 14:19*	*11/19/18 22:51*	*1*

Client Sample ID: TC-SB-18 (0-1)

Lab Sample ID: 480-145164-40
Date Collected: 11/07/18 11:20
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 85.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.054	mg/Kg	☼	11/16/18 14:19	11/19/18 23:07	1
PCB-1221	ND		0.28	0.054	mg/Kg	☼	11/16/18 14:19	11/19/18 23:07	1
PCB-1232	ND		0.28	0.054	mg/Kg	☼	11/16/18 14:19	11/19/18 23:07	1
PCB-1242	ND		0.28	0.054	mg/Kg	☼	11/16/18 14:19	11/19/18 23:07	1
PCB-1248	ND		0.28	0.054	mg/Kg	☼	11/16/18 14:19	11/19/18 23:07	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	11/16/18 14:19	11/19/18 23:07	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	11/16/18 14:19	11/19/18 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*107*		*60 - 154*	*11/16/18 14:19*	*11/19/18 23:07*	*1*
Tetrachloro-m-xylene	*105*		*60 - 154*	*11/16/18 14:19*	*11/19/18 23:07*	*1*
DCB Decachlorobiphenyl	*142*		*65 - 174*	*11/16/18 14:19*	*11/19/18 23:07*	*1*
DCB Decachlorobiphenyl	*113*		*65 - 174*	*11/16/18 14:19*	*11/19/18 23:07*	*1*

Client Sample ID: DUP-110718

Lab Sample ID: 480-145164-44
Date Collected: 11/07/18 00:00
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 86.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.050	mg/Kg	☼	11/16/18 14:19	11/19/18 23:23	1
PCB-1221	ND		0.26	0.050	mg/Kg	☼	11/16/18 14:19	11/19/18 23:23	1
PCB-1232	ND		0.26	0.050	mg/Kg	☼	11/16/18 14:19	11/19/18 23:23	1
PCB-1242	ND		0.26	0.050	mg/Kg	☼	11/16/18 14:19	11/19/18 23:23	1
PCB-1248	ND		0.26	0.050	mg/Kg	☼	11/16/18 14:19	11/19/18 23:23	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	11/16/18 14:19	11/19/18 23:23	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	11/16/18 14:19	11/19/18 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*60 - 154*	*11/16/18 14:19*	*11/19/18 23:23*	*1*
Tetrachloro-m-xylene	*104*		*60 - 154*	*11/16/18 14:19*	*11/19/18 23:23*	*1*
DCB Decachlorobiphenyl	*135*		*65 - 174*	*11/16/18 14:19*	*11/19/18 23:23*	*1*
DCB Decachlorobiphenyl	*119*		*65 - 174*	*11/16/18 14:19*	*11/19/18 23:23*	*1*

Client Sample ID: TC-SB-14 (0-1)

Lab Sample ID: 480-145164-45

Date Collected: 11/06/18 12:00
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 82.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.056	mg/Kg	☼	11/16/18 14:19	11/19/18 23:38	1
PCB-1221	ND		0.29	0.056	mg/Kg	☼	11/16/18 14:19	11/19/18 23:38	1
PCB-1232	ND		0.29	0.056	mg/Kg	☼	11/16/18 14:19	11/19/18 23:38	1
PCB-1242	ND		0.29	0.056	mg/Kg	☼	11/16/18 14:19	11/19/18 23:38	1
PCB-1248	ND		0.29	0.056	mg/Kg	☼	11/16/18 14:19	11/19/18 23:38	1
PCB-1254	ND		0.29	0.13	mg/Kg	☼	11/16/18 14:19	11/19/18 23:38	1
PCB-1260	ND		0.29	0.13	mg/Kg	☼	11/16/18 14:19	11/19/18 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*124*		*60 - 154*	*11/16/18 14:19*	*11/19/18 23:38*	*1*
Tetrachloro-m-xylene	*122*		*60 - 154*	*11/16/18 14:19*	*11/19/18 23:38*	*1*
DCB Decachlorobiphenyl	*158*		*65 - 174*	*11/16/18 14:19*	*11/19/18 23:38*	*1*
DCB Decachlorobiphenyl	*141*		*65 - 174*	*11/16/18 14:19*	*11/19/18 23:38*	*1*

Client Sample ID: DUP-110618

Lab Sample ID: 480-145164-49

Date Collected: 11/06/18 00:00
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 87.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg	☼	11/16/18 14:19	11/19/18 23:54	1
PCB-1221	ND		0.22	0.043	mg/Kg	☼	11/16/18 14:19	11/19/18 23:54	1
PCB-1232	ND		0.22	0.043	mg/Kg	☼	11/16/18 14:19	11/19/18 23:54	1
PCB-1242	ND		0.22	0.043	mg/Kg	☼	11/16/18 14:19	11/19/18 23:54	1
PCB-1248	ND		0.22	0.043	mg/Kg	☼	11/16/18 14:19	11/19/18 23:54	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	11/16/18 14:19	11/19/18 23:54	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	11/16/18 14:19	11/19/18 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*60 - 154*	*11/16/18 14:19*	*11/19/18 23:54*	*1*
Tetrachloro-m-xylene	*95*		*60 - 154*	*11/16/18 14:19*	*11/19/18 23:54*	*1*
DCB Decachlorobiphenyl	*130*		*65 - 174*	*11/16/18 14:19*	*11/19/18 23:54*	*1*
DCB Decachlorobiphenyl	*108*		*65 - 174*	*11/16/18 14:19*	*11/19/18 23:54*	*1*

Client Sample ID: TC-SB-21 (0-1)

Lab Sample ID: 480-145164-50

Date Collected: 11/07/18 08:10
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 79.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.054	mg/Kg	☼	11/16/18 14:19	11/20/18 00:10	1
PCB-1221	ND		0.27	0.054	mg/Kg	☼	11/16/18 14:19	11/20/18 00:10	1
PCB-1232	ND		0.27	0.054	mg/Kg	☼	11/16/18 14:19	11/20/18 00:10	1
PCB-1242	ND		0.27	0.054	mg/Kg	☼	11/16/18 14:19	11/20/18 00:10	1
PCB-1248	ND		0.27	0.054	mg/Kg	☼	11/16/18 14:19	11/20/18 00:10	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	11/16/18 14:19	11/20/18 00:10	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	11/16/18 14:19	11/20/18 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*111*		*60 - 154*	*11/16/18 14:19*	*11/20/18 00:10*	*1*

Client Sample ID: TC-SB-21 (0-1)

Lab Sample ID: 480-145164-50
Date Collected: 11/07/18 08:10
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 79.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*60 - 154*	*11/16/18 14:19*	*11/20/18 00:10*	*1*
DCB Decachlorobiphenyl	*145*		*65 - 174*	*11/16/18 14:19*	*11/20/18 00:10*	*1*
DCB Decachlorobiphenyl	*127*		*65 - 174*	*11/16/18 14:19*	*11/20/18 00:10*	*1*

Client Sample ID: TC-SB-20 (0-1)

Lab Sample ID: 480-145164-54
Date Collected: 11/07/18 09:10
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 85.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.054	mg/Kg	☼	11/16/18 14:19	11/20/18 00:26	1
PCB-1221	ND		0.28	0.054	mg/Kg	☼	11/16/18 14:19	11/20/18 00:26	1
PCB-1232	ND		0.28	0.054	mg/Kg	☼	11/16/18 14:19	11/20/18 00:26	1
PCB-1242	ND		0.28	0.054	mg/Kg	☼	11/16/18 14:19	11/20/18 00:26	1
PCB-1248	ND		0.28	0.054	mg/Kg	☼	11/16/18 14:19	11/20/18 00:26	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	11/16/18 14:19	11/20/18 00:26	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	11/16/18 14:19	11/20/18 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*123*		*60 - 154*	*11/16/18 14:19*	*11/20/18 00:26*	*1*
Tetrachloro-m-xylene	*108*		*60 - 154*	*11/16/18 14:19*	*11/20/18 00:26*	*1*
DCB Decachlorobiphenyl	*145*		*65 - 174*	*11/16/18 14:19*	*11/20/18 00:26*	*1*
DCB Decachlorobiphenyl	*131*		*65 - 174*	*11/16/18 14:19*	*11/20/18 00:26*	*1*

Client Sample ID: TC-SB-15 (0-1)

Lab Sample ID: 480-145164-56
Date Collected: 11/08/18 07:45
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 77.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.055	mg/Kg	☼	11/16/18 14:19	11/20/18 00:42	1
PCB-1221	ND		0.28	0.055	mg/Kg	☼	11/16/18 14:19	11/20/18 00:42	1
PCB-1232	ND		0.28	0.055	mg/Kg	☼	11/16/18 14:19	11/20/18 00:42	1
PCB-1242	ND		0.28	0.055	mg/Kg	☼	11/16/18 14:19	11/20/18 00:42	1
PCB-1248	ND		0.28	0.055	mg/Kg	☼	11/16/18 14:19	11/20/18 00:42	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	11/16/18 14:19	11/20/18 00:42	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	11/16/18 14:19	11/20/18 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*60 - 154*	*11/16/18 14:19*	*11/20/18 00:42*	*1*
Tetrachloro-m-xylene	*102*		*60 - 154*	*11/16/18 14:19*	*11/20/18 00:42*	*1*
DCB Decachlorobiphenyl	*133*		*65 - 174*	*11/16/18 14:19*	*11/20/18 00:42*	*1*
DCB Decachlorobiphenyl	*111*		*65 - 174*	*11/16/18 14:19*	*11/20/18 00:42*	*1*

Client Sample ID: TC-SB-16 (0-1)

Lab Sample ID: 480-145164-61

Date Collected: 11/08/18 08:50
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 80.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	☼	11/16/18 14:19	11/20/18 00:58	1
PCB-1221	ND		0.27	0.053	mg/Kg	☼	11/16/18 14:19	11/20/18 00:58	1
PCB-1232	ND		0.27	0.053	mg/Kg	☼	11/16/18 14:19	11/20/18 00:58	1
PCB-1242	ND		0.27	0.053	mg/Kg	☼	11/16/18 14:19	11/20/18 00:58	1
PCB-1248	ND		0.27	0.053	mg/Kg	☼	11/16/18 14:19	11/20/18 00:58	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	11/16/18 14:19	11/20/18 00:58	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	11/16/18 14:19	11/20/18 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*60 - 154*	*11/16/18 14:19*	*11/20/18 00:58*	*1*
Tetrachloro-m-xylene	*105*		*60 - 154*	*11/16/18 14:19*	*11/20/18 00:58*	*1*
DCB Decachlorobiphenyl	*138*		*65 - 174*	*11/16/18 14:19*	*11/20/18 00:58*	*1*
DCB Decachlorobiphenyl	*117*		*65 - 174*	*11/16/18 14:19*	*11/20/18 00:58*	*1*

Client Sample ID: TC-SB-17 (0-1)

Lab Sample ID: 480-145164-65

Date Collected: 11/08/18 10:00
Matrix: Solid
Date Received: 11/13/18 09:50
Percent Solids: 81.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	☼	11/16/18 14:19	11/20/18 01:14	1
PCB-1221	ND		0.27	0.053	mg/Kg	☼	11/16/18 14:19	11/20/18 01:14	1
PCB-1232	ND		0.27	0.053	mg/Kg	☼	11/16/18 14:19	11/20/18 01:14	1
PCB-1242	ND		0.27	0.053	mg/Kg	☼	11/16/18 14:19	11/20/18 01:14	1
PCB-1248	ND		0.27	0.053	mg/Kg	☼	11/16/18 14:19	11/20/18 01:14	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	11/16/18 14:19	11/20/18 01:14	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	11/16/18 14:19	11/20/18 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*121*		*60 - 154*	*11/16/18 14:19*	*11/20/18 01:14*	*1*
Tetrachloro-m-xylene	*114*		*60 - 154*	*11/16/18 14:19*	*11/20/18 01:14*	*1*
DCB Decachlorobiphenyl	*149*		*65 - 174*	*11/16/18 14:19*	*11/20/18 01:14*	*1*
DCB Decachlorobiphenyl	*128*		*65 - 174*	*11/16/18 14:19*	*11/20/18 01:14*	*1*

Client Sample ID: RB-110618

Lab Sample ID: 480-145164-69

Date Collected: 11/06/18 16:00
Matrix: Water
Date Received: 11/13/18 09:50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		11/16/18 11:14	11/18/18 17:51	1
PCB-1221	ND		0.50	0.18	ug/L		11/16/18 11:14	11/18/18 17:51	1
PCB-1232	ND		0.50	0.18	ug/L		11/16/18 11:14	11/18/18 17:51	1
PCB-1242	ND		0.50	0.18	ug/L		11/16/18 11:14	11/18/18 17:51	1
PCB-1248	ND		0.50	0.18	ug/L		11/16/18 11:14	11/18/18 17:51	1
PCB-1254	ND		0.50	0.25	ug/L		11/16/18 11:14	11/18/18 17:51	1
PCB-1260	ND		0.50	0.25	ug/L		11/16/18 11:14	11/18/18 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*111*		*39 - 121*	*11/16/18 11:14*	*11/18/18 17:51*	*1*
Tetrachloro-m-xylene	*108*		*39 - 121*	*11/16/18 11:14*	*11/18/18 17:51*	*1*

Client Sample ID: RB-110618

Lab Sample ID: 480-145164-69

Date Collected: 11/06/18 16:00

Matrix: Water

Date Received: 11/13/18 09:50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*19 - 120*	*11/16/18 11:14*	*11/18/18 17:51*	*1*
DCB Decachlorobiphenyl	*72*		*19 - 120*	*11/16/18 11:14*	*11/18/18 17:51*	*1*

Client Sample ID: RB-110818

Lab Sample ID: 480-145164-70

Date Collected: 11/08/18 15:45

Matrix: Water

Date Received: 11/13/18 09:50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		11/16/18 11:14	11/18/18 18:07	1
PCB-1221	ND		0.50	0.18	ug/L		11/16/18 11:14	11/18/18 18:07	1
PCB-1232	ND		0.50	0.18	ug/L		11/16/18 11:14	11/18/18 18:07	1
PCB-1242	ND		0.50	0.18	ug/L		11/16/18 11:14	11/18/18 18:07	1
PCB-1248	ND		0.50	0.18	ug/L		11/16/18 11:14	11/18/18 18:07	1
PCB-1254	ND		0.50	0.25	ug/L		11/16/18 11:14	11/18/18 18:07	1
PCB-1260	ND		0.50	0.25	ug/L		11/16/18 11:14	11/18/18 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*39 - 121*	*11/16/18 11:14*	*11/18/18 18:07*	*1*
Tetrachloro-m-xylene	*71*		*39 - 121*	*11/16/18 11:14*	*11/18/18 18:07*	*1*
DCB Decachlorobiphenyl	*62*		*19 - 120*	*11/16/18 11:14*	*11/18/18 18:07*	*1*
DCB Decachlorobiphenyl	*48*		*19 - 120*	*11/16/18 11:14*	*11/18/18 18:07*	*1*

P1of4

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

480-144580 COC

Client Information	Sampler: Daniel Meandro	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-120747-277
Client Contact: Mr. David Cornell	Phone: 315-992-0568	E-Mail: melissa.deyo@testamericainc.com		Page: Page 4 of 14
Company: ARCADIS U.S. Inc				Job #:

Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:
City: Syracuse	TAT Requested (days): Standard
State, Zip: NY, 13202	
Phone: 315-671-9379(Tel)	PO #: AP013103.1000.1000S
Email: david.cornell@arcadis-us.com	WO #:
Project Name: GE Tonawanda	Project #: 48017567
Site: Tonawanda, NY	SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - PCBs	8082A-PCBs * Archive	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N			
SB2-1 (0-1)	10/30/18	0830	C	Solid			X			
SB2-1 (1-2)	10/30/18	0900	C	Solid				X		Archive
SB2-1 (2-4)	10/30/18	0930	C	Solid				X		Archive
SB2-2 (0-1)	10/30/18	1000	C	Solid			X			
SB2-2 (1-2)	10/30/18	1030	C	Solid				X		Archive
SB2-2 (2-4)	10/30/18	1100	C	Solid				X		Archive
SB2-3 (0-1)	10/30/18	1330	C	Solid			X			
SB2-3 (1-2)	10/30/18	1400	C	Solid				X		Archive
SB2-3 (2-4)	10/30/18	1430	C	Solid				X		Archive
SB2-4 (0-1)	10/30/18	1500	C	Solid			X			
SB2-4 (1-2)	10/30/18	1530	C	Solid			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Daniel Meandro	11/1/18 15:00	Arcadis		11/1/18 15:00	TAB
2		11/1/18 15:30	TAB		11/01/18 1530	TA
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.6 #1 ICE

Ver: 08/04/2016

Client Sample ID: SB2-1 (1-2)

Date Collected: 10/30/18 09:00
Date Received: 11/16/18 10:51

Lab Sample ID: 480-145387-1

Matrix: Solid
Percent Solids: 82.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.058	mg/Kg	☼	11/20/18 15:01	11/23/18 16:44	1
PCB-1221	ND		0.30	0.058	mg/Kg	☼	11/20/18 15:01	11/23/18 16:44	1
PCB-1232	ND		0.30	0.058	mg/Kg	☼	11/20/18 15:01	11/23/18 16:44	1
PCB-1242	ND		0.30	0.058	mg/Kg	☼	11/20/18 15:01	11/23/18 16:44	1
PCB-1248	ND		0.30	0.058	mg/Kg	☼	11/20/18 15:01	11/23/18 16:44	1
PCB-1254	ND		0.30	0.14	mg/Kg	☼	11/20/18 15:01	11/23/18 16:44	1
PCB-1260	ND		0.30	0.14	mg/Kg	☼	11/20/18 15:01	11/23/18 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*127*		*60 - 154*	*11/20/18 15:01*	*11/23/18 16:44*	*1*
Tetrachloro-m-xylene	*125*		*60 - 154*	*11/20/18 15:01*	*11/23/18 16:44*	*1*
DCB Decachlorobiphenyl	*163*		*65 - 174*	*11/20/18 15:01*	*11/23/18 16:44*	*1*
DCB Decachlorobiphenyl	*139*		*65 - 174*	*11/20/18 15:01*	*11/23/18 16:44*	*1*