APPENDIX A

FSRA REPORT

Focused Screening Risk Assessment Georgia Ports Authority Road Construction Project

Georgia Atlantic Port LLC Site
Port Wentworth, GA

Prepared for:

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September 14, 2022

ARM Project 180566M

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FOCUSED SCREENING RISK ASSESSMENT GEORGIA PORTS AUTHORITY ROAD CONSTRUCTION PROJECT

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Respectfully submitted:

Senior Vice President

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1.0 INTRODUCTION

ARM Group LLC performed a Focused Screening Risk Assessment (FSRA) on behalf of Georgia Atlantic Port LLC (GAP) to evaluate the potential health risk to a Road Worker working on a proposed Georgia Ports Authority (GPA) connector road project due to the presence of historically impacted soil at the GAP site.

The connector road proposed by GPA would consist of approximately 1,200 feet of paved road crossing the GAP property with gravel-surfaced ramps to access the GAP property. Construction of the proposed connector road will affect just 2.53 acres of the overall GAP property. The roadway is planned to be constructed with a maximum soil disturbance depth of 8 inches below ground surface (bgs), with the exception of the area near the southwest corner of the site entrance where the existing gravel road intersects the railroad tracks. The soil in this area is planned to be disturbed to a maximum depth of 3 feet (ft) bgs. Plans for the proposed road are provided in **Appendix A**. The proposed road work is scheduled to begin January 1, 2023 and be completed by March 31, 2023.

The FSRA was conducted in accordance with a risk assessment approach that was approved by the Georgia Environmental Protection Division (EPD) in an email dated July 11, 2022.

2.0 SUPPLEMENTAL INVESTIGATION

To support the FSRA, soil locations were sampled to assess the presence and concentrations of chemicals of potential concern (COPCs) within the footprint of the road construction area. The work was conducted in accordance with the Soil Investigation Work Plan for Georgia Ports Authority Road Construction submitted to EPD on June 7 and approved by EPD by email on June 9. Surface soil samples were collected from 0 to 1 ft bgs from 10 boring locations (SB79 through SB88). One subsurface soil sample was collected at a depth of 1 to 3 ft bgs from boring SB79, near the intersection of the future road and the railroad crossing. The locations of these samples are shown on the figures in **Appendix B**.

A hand auger and stainless-steel spade were used to collect surface and subsurface soil samples from the surface to termination depth. If gravel, pavement, or other non-soil material was present at or near the surface, it was removed before the boring was advanced. The depth of the soil boring was measured at the top of the soil horizon, immediately following any removed materials. Ten surface (0 to 1-ft bgs) and one subsurface (1 to 3-ft bgs) soil samples were collected for laboratory analysis. Collection and handling of soil samples was conducted in accordance with EPA Region 4, Laboratory Services and Applied Science Division (LSASD) *LSASDPROC-R4 Soil Sampling*

(June 11, 2020). Each of the 10 surface and one subsurface soil samples was analyzed for VOCs, SVOCs, TAL metals, pesticides, PCBs, and hexavalent chromium analyses.

Seven of the 10 surface soil samples (SB80, SB82, SB83, SB84, SB85, SB86, and SB88) and the subsurface soil sample collected from boring SB79 were also analyzed for dioxins and furans. All of the surface locations had detections of multiple dioxin and furan congeners, while the subsurface sample (SB79) had fewer detections at lower concentrations. The dioxin and furan congener results were used to calculate Toxic Equivalent (TEQ) values for each sample. TEQ values are calculated by multiplying the detected concentrations of each congener by its corresponding toxic equivalency factor (TEF), then summing the results for each sample. The TEQ results are presented as 2,3,7,8-dioxin toxic equivalents. **Table 1** shows the results for the samples analyzed for dioxins and furans, as well as the TEQ calculation

Laboratory reports for the supplemental soil investigation are provided in **Appendix B**.

3.0 RISK ASSESSMENT

3.1 Identification of Exposure Units (EUs)

The Road Worker FSRA was evaluated using an EU consisting of the 2.53 acres of the GAP site that are planned to be disturbed and graded for the GPA connector road construction project (see **Appendix A**).

3.2 Identification of Chemicals of Potential Concern (COPCs)

The soil data collected from within the proposed EU was screened to identify any COPCs requiring further analysis. Each detected compound was identified as a COPC requiring further analysis if the maximum detected concentration in either the surface or subsurface soil samples exceeded the USEPA's Composite Worker Soil Regional Screening Levels (RSLs) assuming a Target Risk (TR) of 1E-6 and Target Hazard Quotient (THQ) of 0.1. **Table 2** shows the results of the COPC screening. Six parameters were identified as COPCs: arsenic, benz[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, pentachlorophenol, and total 2,3,7,8-TCDD TEQs.

For naturally occurring inorganics, the soil lab results were also compared to soil background threshold values (BTVs) that were established during the 2019 Phase 1 Supplemental RCRA Facility Investigation (RFI). As shown in **Table 2**, arsenic (the only naturally occurring inorganic compound among the identified COPCs) was detected at a level in excess of the BTV. Therefore, arsenic has been retained as a COPC for further analysis.

3.3 Exposure Point Concentrations (EPCs)

The road construction project will involve minimal cut (maximum of 1 ft for all portions of the planned road except for maximum cut of 3 ft near where the planned road intersects the existing railroad crossing). A statistical analysis was performed on the results from the ten surface soil (0 to 1 feet bgs depths) samples for each COPC dataset using the ProUCL software (version 5.1) to determine representative reasonable maximum exposure (RME) values for the EPC in the surface soil for each constituent. The RME value is typically the 95% Upper Confidence Limit (UCL) of the arithmetic mean. ProUCL runs various statistical tests and recommends a UCL value based on the observed distribution of the data sets. The ProUCL input and output files are provided in **Appendix C**. Since a single subsurface soil sample was collected from soil boring BB79 at a depth of 1 to 3 feet bgs, that single value was used as the EPC for each COPC for subsurface soil. The EPC results for the COPC parameters are shown on **Table 3**. The EPC for arsenic was also compared to the BTV. The EPC for arsenic in surface soil in the roadway exceeded the BTV value for surface soils near the site, indicating that the levels in the roadway area are above local background concentrations.

3.4 Risk Estimates

Site-specific Soil Screening Levels (SSLs) for the Road Worker were calculated using the EPA RSL Calculator (https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search) for the Construction Worker Soil – Other Construction Activities scenario and/or based on equations derived in the USEPA Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (OSWER 9355.4-24, December 2002). The RSL Calculator output is provided in **Appendix D**. The toxicity values (SFo, IUR, RfD, RfC) used to calculate the SSLs are from the RSL Calculator database and are provided in the RSL Calculator output in **Appendix D**. **Table D-1** in **Appendix D** provides a summary of each of the exposure parameters used in the RSL Calculator to calculate the SSLs. Site-specific values are highlighted and the rationale for selection is presented in **Table D-1**.

In general, EPA default exposure factors in the EPA RSL Calculator were utilized. However, the schedule for road construction indicated that the period that workers could be exposed to native soil/fill (direct skin contact and breathing dust/vapors during grading/intrusive work) is estimated to be 1 month. Beyond that 1-month time period the work is anticipated to be placing imported materials and constructing upwards, not disturbing the native soil. Therefore, an Exposure Frequency (EF) of 30 days was used in the RSL Calculator to derive the site-specific Soil Screening Levels (SSLs) for the Road Worker based on the anticipated project schedule. The site-specific Soil Screening Levels (SSLs) presented in **Appendix D** are calculated for a target cancer risk of 1E-6 and a target non-cancer HQ of 1 for each individual COPC.

To develop estimates of the cumulative risk associated with the presence of multiple compounds the soil EPCs for each individual compound were compared to the SSL to derive a cancer risk estimate and a non-cancer hazard quotients (HQ) for each COPC. Total TEQs were used to estimate cancer risk for the dioxins and furans. The risk estimates for all of the carcinogens were then summed to develop a screening level estimate of the baseline cumulative cancer risk. The hazard quotients for the non-carcinogens were segregated and summed by target organ to develop a screening level estimate of the baseline cumulative target organ-specific non-cancer Hazard Index (HI) for each target organ.

Relevant SSL values and risk estimate results are presented in **Table 4**.

3.5 Assessment of Lead

The maximum lead detection was 51 mg/kg, which is well below the Composite Worker RSL of 800 mg/kg. Therefore, lead was not identified as a COPC and no further evaluation was required for lead.

3.6 Risk Characterization

The FSRA risk estimates indicate that at 30 days of Road Worker exposure the cancer risk is 3 x 10^{-6} for exposure to surface soil and 2 x 10^{-8} for exposure to subsurface soil. The estimated potential cancer risk to Construction Workers is below the EPD's acceptable limit of 1 x 10^{-5} for cancer risk.

The non-cancer risks to all target organ systems are all within the EPD's acceptable range, with the highest non-cancer Hazard Index being 1 for the Developmental target organ due to benzo(a)pyrene in the surface soil. The hazard quotient for benzo(a)pyrene is 1.32 but is acceptable because it is rounded down to 1 per EPA guidance on significant figures for risk estimates.

The contribution from arsenic to estimated construction worker risk is insignificant. The EPCs for arsenic in both the surface soil and the subsurface soil are well below the BTV of 12.96 mg/kg for subsurface soil, indicating the levels in the soil in the roadway area are typical of background concentrations in unimpacted subsurface soils in the vicinity of the site.

The exposure frequency (EF) was varied to determine the upper limit EF that would not result in any unacceptable potential risk for a Road Worker without personal protective equipment (PPE). Since the hazard quotient for exposure to benzo(a)pyrene at an EF of 30 days is 1.32, the maximum allowable exposure duration for a Road Worker without PPE or other engineering controls would

be 34 days before the hazard quotient would equal 1.5 and the Hazard Index would be rounded up to 2 (30 days x 1.5/1.32 = 34.1 days).

4.0 SUMMARY AND RECOMMENDATIONS

The FSRA risk estimates indicate that at 30 days of Road Worker exposure, the estimated risk is below the EPD's acceptable limit of 1×10^{-5} for cancer risk and a Hazard Index of 1 for non-cancer risk.

Based on the estimated acceptable exposure frequency, an individual Road Worker should be limited to not more than 34 days of intrusive activity in close contact with the surface soil unless wearing appropriate PPE and following work practices to prevent direct contact with and incidental ingestion of the surface soil. If the actual Road Worker exposure period as documented in the construction activity logs approaches the acceptable EF of 34 days, then appropriate mitigation (PPE, work practices, etc.) should be implemented to ensure that no workers would be exposed to a potentially unacceptable risk.

TABLES

Table 1
Dioxin/Furan Results and Calculation of Toxic Equivalents

	CAS	Units	TEF	SB80-SO-01	SB82-SO-01	SB83-SO-01	SB84-SO-01	SB85-SO-01	SB86-SO-01	SB88-SO-01	SB79-SO-03
1,2,3,4,6,7,8-HpCDD	35822-46-9	ng/Kg	0.01	**3700**	**16000**	**110000**	**37000**	**49000**	**32000**	**130000**	**140**
1,2,3,4,6,7,8-HpCDF	67562-39-4	ng/Kg	0.01	**730**	**3400**	**22000**	**9100**	**8100**	**5900**	**15000**	**24**
1,2,3,4,7,8-HxCDD	39227-28-6	ng/Kg	0.1	**23**	**100**	**570**	**330**	**200**	**150**	**250**	*5*
1,2,3,4,7,8-HxCDF	70648-26-9	ng/Kg	0.1	**54**	**160**	**670**	**350**	**180**	**100**	**790**	*5*
1,2,3,4,7,8,9-HpCDF	55673-89-7	ng/Kg	0.01	**48**	**390**	**1800**	**780**	**430**	**410**	**1100**	*5*
1,2,3,6,7,8-HxCDD	57653-85-7	ng/Kg	0.1	**75**	**330**	**3000**	**810**	**960**	**640**	**2600**	*5*
1,2,3,6,7,8-HxCDF	57117-44-9	ng/Kg	0.1	*5*	**53**	**170**	**190**	**50**	**22**	**130**	*5*
1,2,3,7,8-PeCDD	40321-76-4	ng/Kg	1	**11**	**14**	**150**	**97**	**34**	**28**	**57**	*5*
1,2,3,7,8-PeCDF	57117-41-6	ng/Kg	0.03	*5*	**11**	**30**	**11**	**8.2**	*5*	**28**	*5*
1,2,3,7,8,9-HxCDD	19408-74-3	ng/Kg	0.1	**49**	**180**	**1000**	**540**	**290**	**230**	**470**	*5*
1,2,3,7,8,9-HxCDF	72918-21-9	ng/Kg	0.1	**12**	**18**	**110**	*10*	*10*	*10*	**130**	*5*
2,3,4,6,7,8-HxCDF	60851-34-5	ng/Kg	0.1	**72**	**120**	**440**	**290**	**80**	**69**	**410**	**30**
2,3,4,7,8-PeCDF	57117-31-4	ng/Kg	0.3	**7.9**	**12**	**120**	**59**	**11**	**11**	**140**	*5*
2,3,7,8-TCDD	1746-01-6	ng/Kg	1	*1*	*1*	**5.4**	*1*	*1*	**1.5**	*1.3*	*1*
2,3,7,8-TCDF	51207-31-9	ng/Kg	0.1	*1*	*1*	**2.8**	*1*	*1*	**2**	*1.1*	*1*
OCDD	3268-87-9	ng/Kg	0.0003	**51000**	**21000**	**1400000**	**450000**	**490000**	**300000**	**1700000**	**1400**
OCDF	39001-02-0	ng/Kg	0.0003	**4000**	**21000**	**140000**	**51000**	**55000**	**37000**	**95000**	**100**
Total 2,3,7,8-TCDD TEQs		ng/Kg		104.9	325.6	2588.6	987.2	954.4	639.5	2578.8	15.9
		mg/Kg		0.00010	0.00033	0.0026	0.00099	0.00095	0.00064	0.0026	0.000016

Detected values shown in Bold
Non-detects assumed to be present at the reporting limit

Table 2
Constituent of Potential Concern Screening

Parameter	CAS#	Location of Max Result	Max Detection (mg/kg)	Total Samples	BTV (mg/kg)	Cancer TR (1E-06, mg/kg)	Non-Cancer THQ (0.1, mg/kg)	COPC	Notes
2-Methylnaphthalene	91-57-6	SB83-SO-01	0.77	11			300	no	
4,4'-DDE	72-55-9	SB79-SO-03	0.00093	11		9.3	35	no	
4,4'-DDT	50-29-3	SB88-SO-01	0.045	11		8.5	52	no	
Acenaphthene	83-32-9	SB86-SO-01	0.07	11			4500	no	
Acenaphthylene	208-96-8	SB83-SO-01	7.8	11		8.6	59	no	1
Aluminum	7429-90-5	SB80-SO-01	8700	11			110000	no	
Anthracene	120-12-7	SB88-SO-01	15	11			23000	no	
Arsenic	7440-38-2	SB81-SO-01	10	11	2.144	3	48	**YES (C)**	
Barium	7440-39-3	SB79-SO-01	60	11			22000	no	
Benz[a]anthracene	56-55-3	SB83-SO-01	29	11		21		**YES (C)**	
Benzo[a]pyrene	50-32-8	SB83-SO-01	48	11		2.1	22	**YES (C/NC)**	
Benzo[b]fluoranthene	205-99-2	SB83-SO-01	100	11		21		**YES (C)**	
Benzo[g,h,i]perylene	191-24-2	SB83-SO-01	9.6	11		21		no	2
Benzo[k]fluoranthene	207-08-9	SB83-SO-01	27	11		210		no	
Beryllium	7440-41-7	SB88-SO-01	0.19	11		6900	230	no	
Cadmium	7440-43-9	SB81-SO-01	0.21	11		9300	10	no	
Calcium	7440-70-2	SB79-SO-01	12000	11				no	
Carbazole	86-74-8	SB88-SO-01	6.4	11		8.6	59	no	1
Chromium	7440-47-3	SB80-SO-01	14	11			180000	no	
Chromium VI	18540-29-9	SB81-SO-01	2.8	11		6.3	350	no	
Chrysene	218-01-9	SB83-SO-01	38	11		2100		no	
Cobalt	7440-48-4	SB80-SO-01	6.3	11		1900	35	no	
Copper	7440-50-8	SB81-SO-01	32	11			4700	no	
Dibenz[a,h]anthracene	53-70-3	SB83-SO-01	5.7	11		2.1		**YES (C)**	
Endrine ketone	53494-70-5	SB83-SO-01	0.092	11			25	no	3
Fluoranthene	206-44-0	SB83-SO-01	45	11			3000	no	
Fluorene	86-73-7	SB83-SO-01	0.48	11			3000	no	
gamma-BHC (Lindane)	58-89-9	SB88-SO-01	0.0077	11		2.5	1	no	
Indeno[1,2,3-c,d]pyrene	193-39-5	SB83-SO-01	12	11		21		no	
Iron	7439-89-6	SB80-SO-01	21000	11			82000	no	
Lead	7439-92-1	SB81-SO-01	51	11			800	no	
Magnesium	7439-95-4	SB80-SO-01	5100	11				no	
Manganese	7439-96-5	SB80-SO-01	420	11			2600	no	
Mercury	7439-97-6	SB83-SO-01	0.49	11			4.6	no	
Naphthalene	91-20-3	SB85-SO-01	2	11		8.6	59	no	
Nickel	7440-02-0	SB80-SO-01	31	11		64000	2200	no	
Pentachlorophenol	87-86-5	SB83-SO-01	22	11		4	280	**YES (C)**	
Phenanthrene	85-01-8	SB88-SO-01	9.7	11			23000	no	4
Pyrene	129-00-0	SB83-SO-01	52	11			2300	no	
Selenium	7782-49-2	SB80-SO-01	3.2	11			580	no	
Sodium	7440-23-5	SB79-SO-01	110	11				no	
Thallium	7440-28-0	SB80-SO-01	0.39	11			1.2	no	
Vanadium	7440-62-2	SB79-SO-01	51	11			580	no	
Zinc	7440-66-6	SB79-SO-01	68	11			35000	no	
2,3,7,8-TCDD	1746-01-6	SB83-SO-01	5.40E-06			2.2E-05	7.2E-05	no	
Total 2378-TCDD TEQs		SB83-SO-01	2.59E-03			2.2E-05	7.2E-05	**YES (C/NC)**	

BTV value for Arsenic based on lower BTV for surface soil. BTV for Arsenic in subsurface soil is 12.96 mg/kg.

C - Exceeds RSL for cancer risk

NC - Exceeds RSL for non-cancer risk

1 - RSLs for Naphthalene used as surrogate based on similar molecular weight and structure

2 - RSLs for indeno(1,2,3-c,d)pyrene used as surrogate based on similar molecular weight and structure

3 - RSLs for Endrin used as surrogate based on ATSDR Toxicological Profile for Endrin, March 2021

4 - RSLs for Anthracene used as surrogate based on similar molecular weight and structure

8-22-22 Revised RSLs for Naphthalene, Mercury, Cadmium, and Lindane per EPD comments - no new COPCs

Table 3
Soil Exposure Point Concentrations (EPC) - Proposed Road

Parameter	EPCs - Surface Soils			EPCs - Subsurface Soils		
	EPC Type	EPC (mg/kg)	BTV (mg/kg)	EPC Type	EPC (mg/kg)	BTV (mg/kg)
Arsenic	95% Adjusted Gamma UCL	5.133	2.144	**Maximum Value**	**0.55**	12.96
Benz[a]anthracene	95% KM Bootstrap t UCL	28.5	NA	**Maximum Value**	**0.008**	NA
Benzo[a]pyrene	95% KM Bootstrap t UCL	52.54	NA	**Maximum Value**	**<0.0067**	NA
Benzo[b]fluoranthene	95% Adjusted Gamma UCL	66.84	NA	**Maximum Value**	**0.03**	NA
Dibenz[a,h]anthracene	95% KM (t) UCL	2.155	NA	**Maximum Value**	**<0.0067**	NA
Pentachlorophenol	95% KM (Chebyshev) UCL	17.16	NA	**Maximum Value**	**<0.340**	NA
2,3,7,8-TCDD	**Maximum Value**	5.40E-06	NA	**Maximum Value**	<1E-6	NA
Total TEQs	**Maximum Value**	2.59E-03	NA	**Maximum Value**	1.59E-05	NA

EPC Type indicates the statistical method used to calculate the 95% Upper Confidence Limit (UCL)
Bold indicates maximum value used as the EPC
BTV - Background Threshold Value

Table 4
Road Worker Risk Estimates

Parameter	Target Organs	Surface Soil					Subsurface Soil				
			30 Day Exposure					30 Day Exposure			
			SSLs (mg/kg)*		Risk Estimates			SSLs (mg/kg)		Risk Estimates	
		EPC (mg/kg)	Cancer	Non-Cancer	Risk**	HQ***	EPC (mg/kg)	Cancer	Non-Cancer	Risk	HQ
Arsenic	**Cardiovascular; Dermal**	5.133	192.0	120.00	2.7E-08	0.043	**0.55**	192.0	120.00	2.9E-09	0.0046
Benz[a]anthracene		28.5	1270.0		2.2E-08		**0.008**	1270.0		6.3E-12	
Benzo[a]pyrene	**Developmental**	52.54	145.0	39.9	3.6E-07	1.32	**<0.0067**	145.0	39.9		
Benzo[b]fluoranthene		66.84	1450		4.6E-08		**0.03**	1450		2.1E-11	
Dibenz[a,h]anthracene		2.155	145.0		1.5E-08		**<0.0067**	145.0			
Pentachlorophenol	**Liver**	17.16	286	5,650	6.0E-08	0.003	**<0.340**	286	5,650		
Total TEQs	**Reproductive**	**2.59E-03**	1.20E-03	4.59E-03	2.2E-06	0.564	**1.59E-05**	1.20E-03	4.59E-03	1.3E-08	0.003
			Total Cancer Risk		**3E-06**	↓				**2E-08**	↓

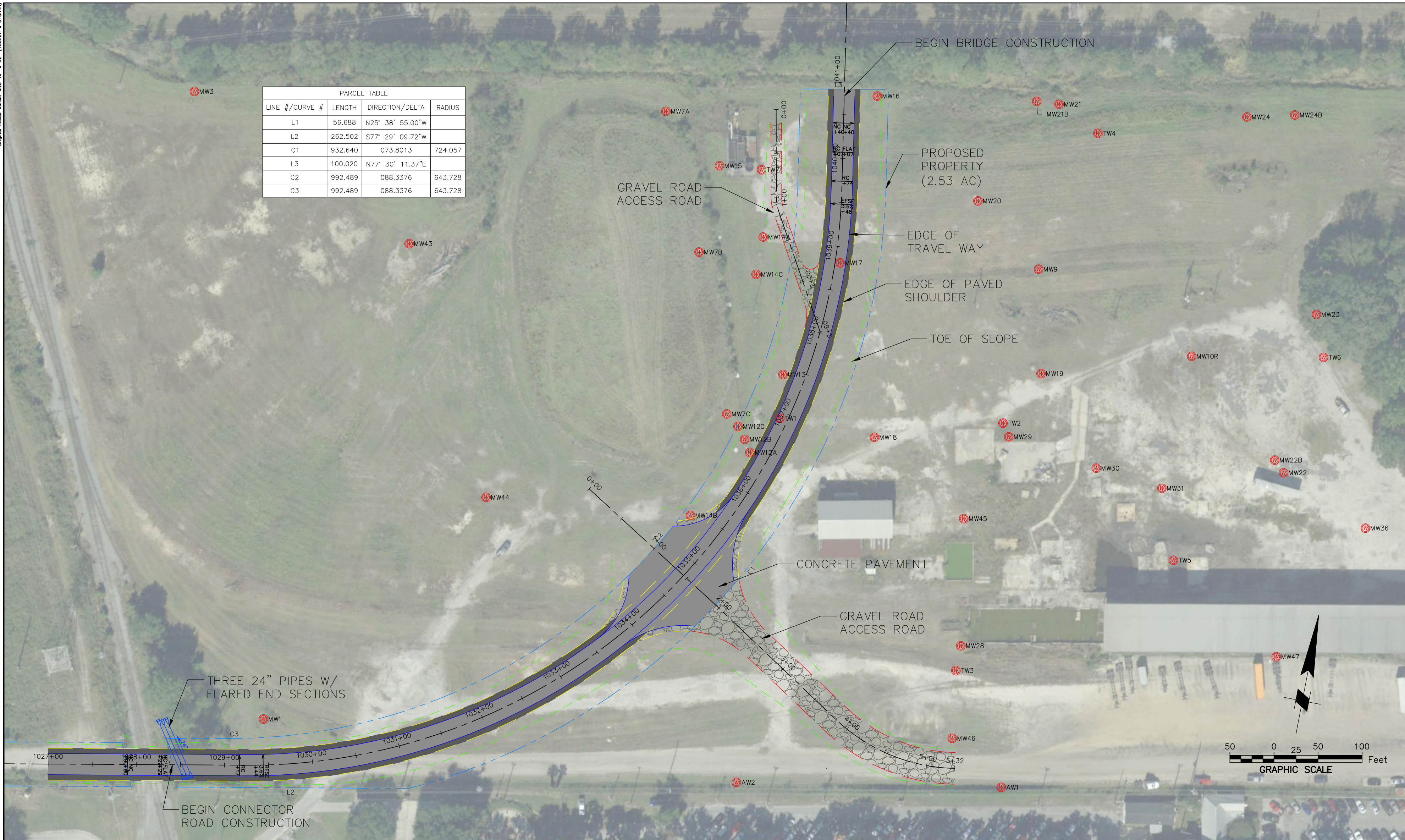
NA = Not Applicable
EPC = Exposure Point Concentration (from Table 3)
Bold indicates maximum value used as the EPC
*SSLs from EPA RSL Calculator as presented in Appendix D
SSLs are individual compound concentrations that would present a cancer risk of 1E-6 or a non-cancer hazard quotient (HQ) of 1.
**Cancer Risk = (EPC/Cancer SSL) x 1E-06
***Non-Cancer Hazard Quotient (HQ) = EPC/Non-Cancer SSL

Total HI	Cardiovascular	0
	Dermal	0
	Liver	0
	Respiratory	NA
	Gastrointestinal	NA
	Nervous	NA
	Immune	NA
	Occular	NA
	Reproductive	1
	Developmental	1

Total HI	Cardiovascular	0
	Dermal	0
	Liver	0
	Respiratory	NA
	Gastrointestinal	NA
	Nervous	NA
	Immune	NA
	Occular	NA
	Reproductive	0
	Developmental	0

APPENDIX A

Connector Road Construction Plans



PARCEL TABLE

LINE #/CURVE #	LENGTH	DIRECTION/DELTA	RADIUS
L1	56.688	N25° 38' 55.00"W	
L2	262.502	S77° 29' 09.72"W	
C1	932.640	073.8013	724.057
L3	100.020	N77° 30' 11.37"E	
C2	992.489	088.3376	643.728
C3	992.489	088.3376	643.728

Rev	Description	By	Appv'd	Date
0	LAND PURCHASE	DP	IW	6/14/22

TRANSPORTATION

AECOM

AECOM
22 Barnard St, Suite 240
Savannah, GA 31401
www.aecom.com

Drawn By

Approved By

Date
6/14/22

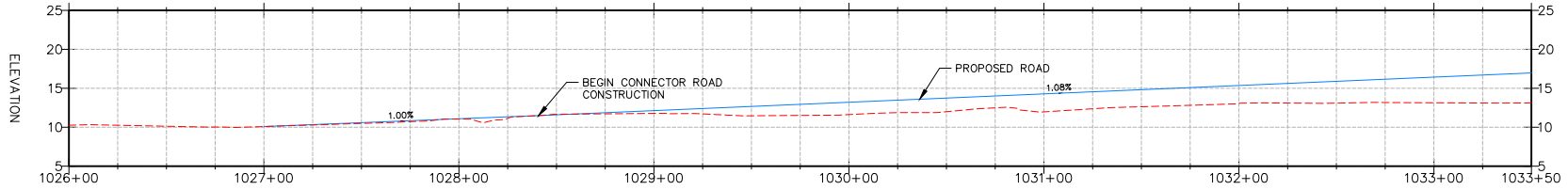
GEORGIA PORTS

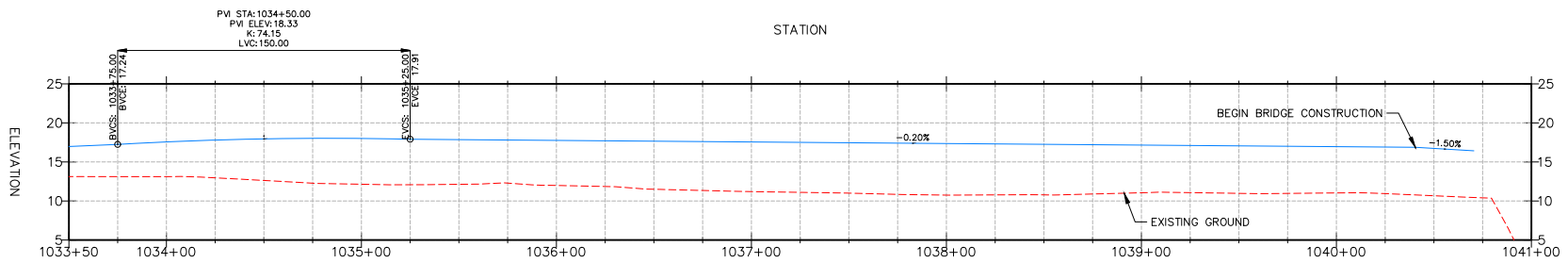
STEAMSHIP TERMINAL
GARDEN CITY, GEORGIA

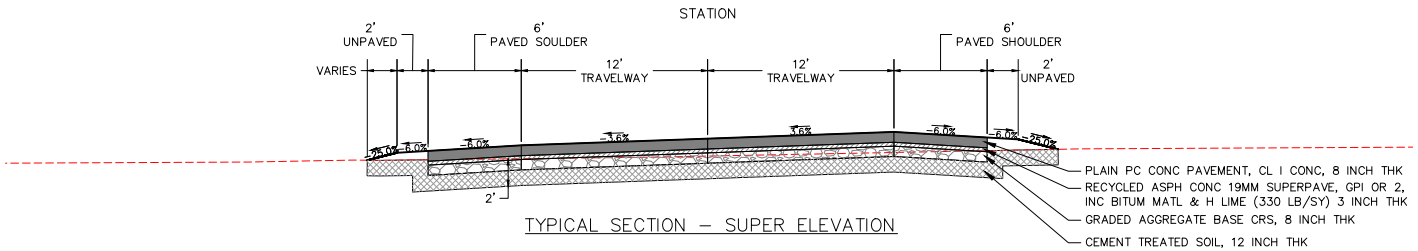
Sheet Title
CONNECTOR ROAD
PROPOSED ROADWAY PLAN

Project Number

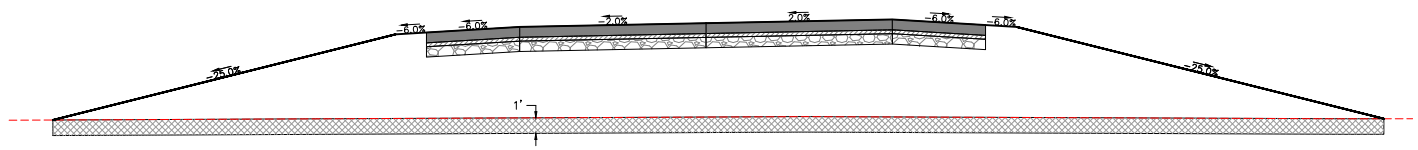
Sheet Number
1 of 2



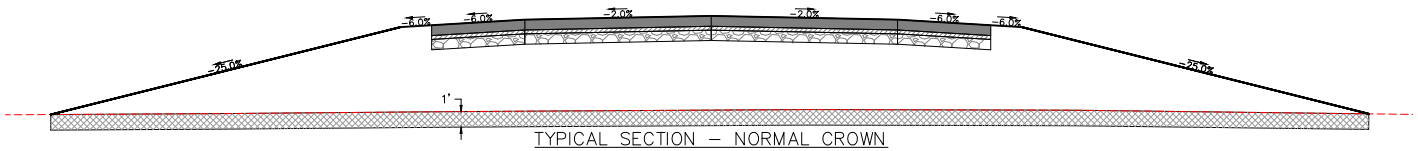




TYPICAL SECTION – SUPER ELEVATION



TYPICAL SECTION – REVERSE CROWN



TYPICAL SECTION – NORMAL CROWN

Rev	Description	By	Appv'd	Date
0	LAND PURCHASE	DP	IW	6/14/22

TRANSPORTATION

AECOM

AECOM
22 Barnard St, Suite 240
Savannah, GA 31401
www.aecom.com

Drawn By

Approved By

Date
6/14/22

GEORGIA PORTS

STEAMSHIP TERMINAL
GARDEN CITY, GEORGIA

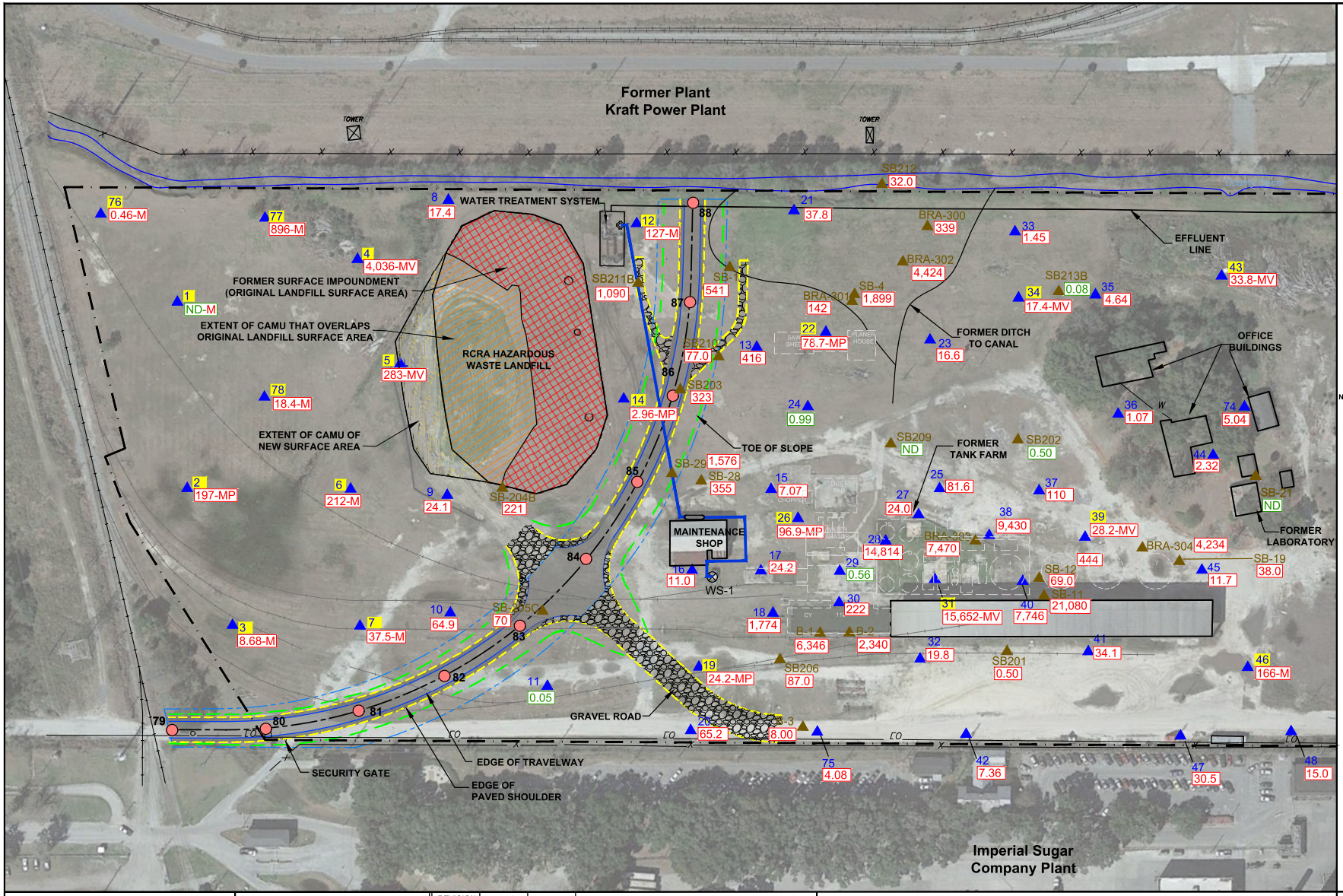
Sheet Title
CONNECTOR ROAD
PROPOSED ROADWAY PROFILE
& TYPICAL SECTIONS

Project Number

Sheet Number
1 of 2

APPENDIX B

Sample Locations and Results



LEGEND

- CONNECTOR ROAD SOIL BORINGS (10) & CONSTITUENT ANALYSIS (M=METALS, S=SVOCs, V=VOCs, P=PESTICIDES, C=PCBs, D=DIOXINS, H=HEXAVALENT/TOTAL CHROMIUM)
- SUPPLEMENTAL PHASE 1 RFI SURFACE SOIL BORING LOCATION (72)
- HISTORICAL (1990s) SURFACE SOIL BORING LOCATION (38)
- WATER SUPPLY WELL (1)
- WATER HYDRANT
- EXISTING STRUCTURES
- FORMER STRUCTURES
- FORMER SURFACE IMPOUNDMENT (ORIGINAL LANDFILL SURFACE AREA)
- EXTENT OF CAMU THAT OVERLAPS ORIGINAL LANDFILL SURFACE AREA
- EXTENT OF NEW CAMU SURFACE AREA
- PROPERTY BOUNDARY
- RAILROAD TRACKS
- FORMER RAILROAD TRACKS
- FENCE
- FO FUEL OIL LINE TO IMPERIAL SUGAR COMPANY PLANT
- PROPOSED WATER SUPPLY DISTRIBUTION LINE

NOTES:

1. ALL RESULTS SHOWN ARE IN MILLIGRAMS PER KILOGRAM (mg/kg)
2. PHASE 1 RFI AVERAGE TOTAL SVOCs FOR 10 BACKGROUND SURFACE SOIL SAMPLES = 3.60 mg/kg
3. BACKGROUND PHASE 1 RFI SURFACE SOIL SAMPLES FOR ORGANIC ANALYSIS WERE COLLECTED FROM 0-0.5 FT
4. BACKGROUND PHASE 1 RFI SURFACE SOIL SAMPLES FOR INORGANIC ANALYSIS WERE COLLECTED FROM 0-0.5 FT
5. HISTORIC SURFACE SOIL SAMPLES WERE COLLECTED FROM 0-2 FT
6. HISTORIC TOTAL SVOCs EQUAL SUM OF TOTAL PAHs & TOTAL PHENOLICS
7. RED VALUE INDICATES SVOC(s) > BACKGROUND THRESHOLD VALUES
8. GREEN VALUE INDICATES SVOC(s) < BACKGROUND THRESHOLD VALUES
9. ND=NON-DETECT
10. YELLOW SHADE INDICATES SUPPLEMENTAL PHASE 1 RFI WATER SAMPLES ANALYZED FOR TCL CONSTITUENTS (29)
11. M = METAL CONSTITUENT(S) > BACKGROUND THRESHOLD VALUES
    V = VOC CONSTITUENT(S) > BACKGROUND THRESHOLD VALUES
    P = PESTICIDE CONSTITUENT(S) > BACKGROUND THRESHOLD VALUES

0 50 100 200
FEET

EnviroAnalytics Group

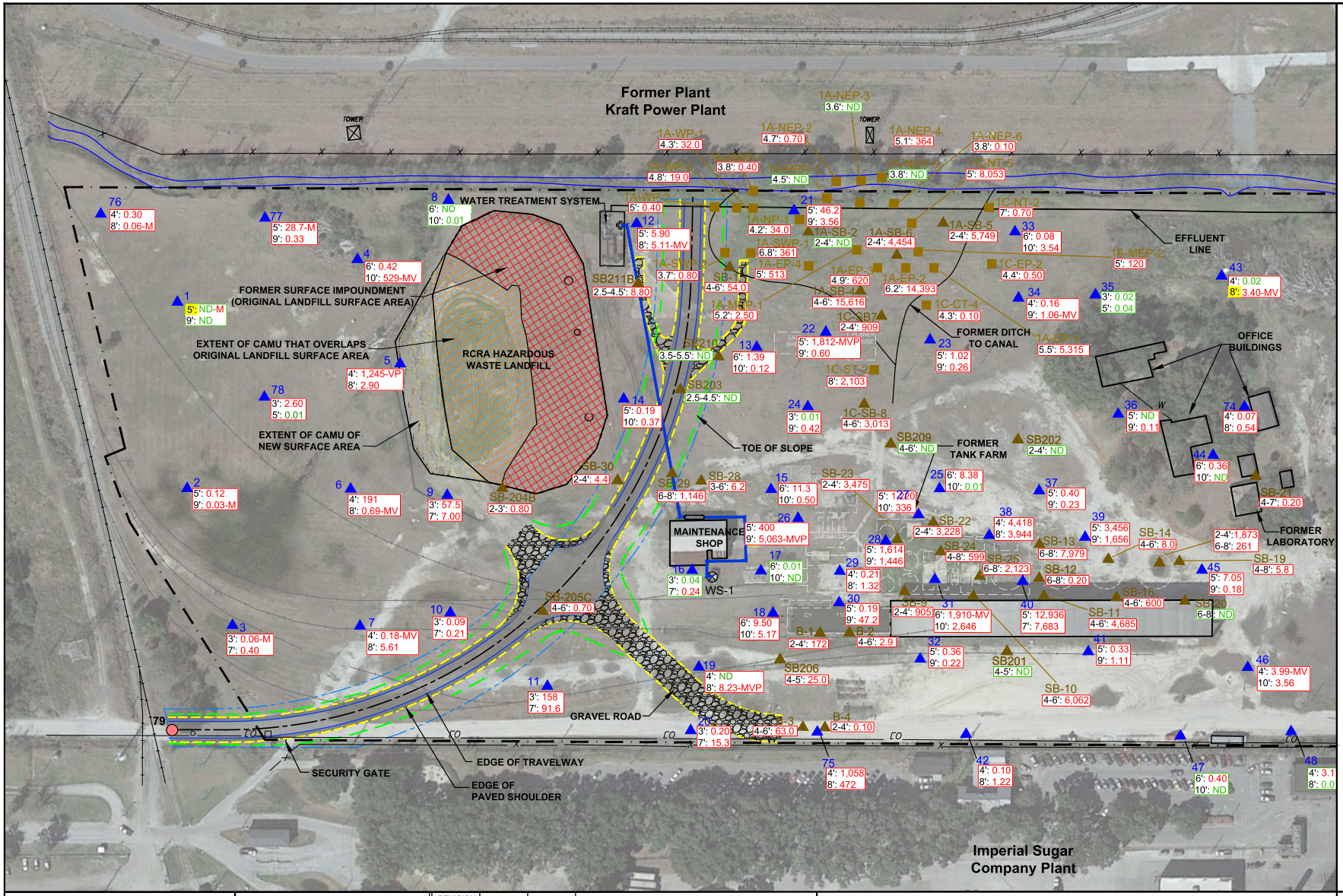
DRAWN BY: MN	
APPROVED BY: TB	
DATE: 09/26/2022	
SCALE: AS SHOWN	

REVISION NUMBER:	DATE OF REVISION:	BY:	DESCRIPTION:
#1	NA	NA	NA
#2	NA	NA	NA
#3	NA	NA	NA

CONNECTOR ROAD SURFACE SOIL (0 TO 1 FOOT) SAMPLE LOCATIONS

Georgia Atlantic Port, LLC
Port Wentworth, Georgia

PROJECT NUMBER:	SHEET NUMBER:
NA	1 OF 1
DRAWING DATE:	FIGURE NUMBER:
09/26/2022	1



LEGEND

- PROPOSED EAG ROAD SOIL BORINGS (1) & CONSTITUENT ANALYSIS (M=METALS, S=SVOCs, V=VOCs, P=PESTICIDES, C=PCBs, D=DIOXINS H=HEXAVALENT/TOTAL CHROMIUM)
- SUPPLEMENTAL PHASE 1 RFI SURFACE SOIL BORING LOCATION (72)
- HISTORICAL (1990s) SUBSURFACE SOIL BORING LOCATION (41)
- HISTORICAL SUBSURFACE TEST PIT LOCATION (29)
- WATER SUPPLY WELL (1)
- WATER HYDRANT
- EXISTING STRUCTURES
- FORMER STRUCTURES
- FORMER SURFACE IMPOUNDMENT (ORIGINAL LANDFILL SURFACE AREA)
- EXTENT OF CAMU THAT OVERLAPS ORIGINAL LANDFILL SURFACE AREA
- EXTENT OF NEW CAMU SURFACE AREA
- PROPERTY BOUNDARY
- RAILROAD TRACKS
- FORMER RAILROAD TRACKS
- FENCE
- FO FUEL OIL LINE TO IMPERIAL SUGAR COMPANY PLANT
- PROPOSED WATER SUPPLY DISTRIBUTION LINE

NOTES:

1. ALL RESULTS SHOWN ARE IN MILLIGRAMS PER KILOGRAM (mg/kg)
2. SUPPLEMENTAL PHASE 1 RFI AVERAGE TOTAL SVOCs FOR 10 BACKGROUND SUBSURFACE SOIL SAMPLES = 0.04 mg/kg
3. SUPPLEMENTAL PHASE 1 RFI BACKGROUND SUBSURFACE SOIL SAMPLES WERE COLLECTED BETWEEN 2 AND 5 FT
4. HISTORIC TOTAL SVOCs EQUAL SUM OF TOTAL PAHs & TOTAL PHENOLICS
5. RED VALUE INDICATES SVOC(s) > BACKGROUND THRESHOLD VALUES
6. GREEN VALUE INDICATES SVOC(s) < BACKGROUND THRESHOLD VALUES
7. ND=NON-DETECT
8. 4' = BOTTOM DEPTH BELOW GROUND SURFACE IN WHICH SAMPLE WAS COLLECTED
9. YELLOW SHADE INDICATES SUPPLEMENTAL PHASE 1 RFI SUBSURFACE SOIL SAMPLES ANALYZED FOR TCL CONSTITUENTS (28)
10. M = METAL CONSTITUENT(S) > BACKGROUND THRESHOLD VALUES
    V = VOC CONSTITUENT(S) > BACKGROUND THRESHOLD VALUES
    P = PESTICIDE CONSTITUENT(S) > BACKGROUND THRESHOLD VALUES
    C = PCB CONSTITUENT (S) > BACKGROUND THRESHOLD VALUES

N

0 50 100 200
FEET

EnviroAnalytics Group

DRAWN BY: MN	REVISION NUMBER:	DATE OF REVISION:	BY:	DESCRIPTION:
APPROVED BY: TB	#1	NA	NA	NA
DATE: 09/26/2022	#2	NA	NA	NA
SCALE: AS SHOWN	#3	NA	NA	NA

PROPOSED ROAD CONSTRUCTION SUBSURFACE SOIL (1-3 FEET) SAMPLE LOCATIONS

Georgia Atlantic Port, LLC
Port Wentworth, Georgia

PROJECT NUMBER:	SHEET NUMBER:
NA	1 OF 1
DRAWING DATE:	FIGURE NUMBER:
09/26/2022	2

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-216698-1
Client Project/Site: Georgia Atlantic Port, Georgia

For:
EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Tim Biggs

Authorized for release by:
7/1/2022 2:35:41 PM

Sheila Hoffman, Project Manager II
(912)250-0279
Sheila.Hoffman@et.eurofinsus.com

Method Summary

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SAV
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL SAV
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV
6020B	Metals (ICP/MS)	SW846	TAL SAV
7471B	Mercury (CVAA)	SW846	TAL SAV
7196A	Chromium, Hexavalent	SW846	ELLE
Moisture	Percent Moisture	EPA	TAL SAV
3050B	Preparation, Metals	SW846	TAL SAV
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	ELLE
3546	Microwave Extraction	SW846	TAL SAV
5030C	Purge and Trap	SW846	TAL SAV
5035A	Closed System Purge & Trap	SW846	TAL SAV
7471B	Preparation, Mercury	SW846	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
F1	MS and/or MSD recovery exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 680-216698-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-216698-1

Comments
No additional comments.

Receipt
The samples were received on 6/9/2022 2:53 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9º C and 3.8º C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 680-725226 recovered above the upper control limit for Bromomethane and Methyl tert-butyl ether. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-725226 recovered outside control limits for the following analytes: Bromomethane and Methyl tert-butyl ether. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-726047 recovered outside control limits for the following analytes: Bromomethane, MTBE. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-726047 recovered above the upper control limit for Bromomethane, MTBE. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 680-726047/3).

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-726263 recovered above the upper control limit for Bromomethane and Methyl tert-butyl ether. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-726263 recovered outside control limits for the following analytes: Bromomethane and Methyl tert-butyl ether. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-726800 recovered above the upper control limit for Chloromethane and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-726800 recovered outside control limits for the following analytes: Chloromethane and Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-726800.

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

GC/MS Semi VOA
Methods 8270D LL, 8270E LL: The following analyte has been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Benzaldehyde. This analyte may have a %D >30% but must be <50% in the initial calibration verification (ICV).

Methods 8270D LL, 8270E LL: The continuing calibration verification (CCV) analyzed in batch 680-725991 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane]. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any

Job ID: 680-216698-1 (Continued)

Laboratory: Eurofins Savannah (Continued)

detection for the affected analyte(s) is considered estimated.

Method 8270E LL: The following analytes have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Caprolactam and Pentachlorophenol. These analytes may have a %D >20%, but must be <50%. If >50%, a CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E LL: The following samples were diluted due to the nature of the sample matrix: SB79-SO-01 (680-216698-1), SB81-SO-01 (680-216698-4), SB86-SO-01 (680-216698-9) and DUP-01 (680-216698-12). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270E LL: The following samples were diluted due to the nature of the sample matrix: SB80-SO-01 (680-216698-3), SB82-SO-01 (680-216698-5), SB84-SO-01 (680-216698-7) and SB87-SO-01 (680-216698-10). Elevated reporting limits (RLs) are provided.

Method 8270E LL: The following samples were diluted due to the nature of the sample matrix: SB83-SO-01 (680-216698-6), SB83-SO-01 (680-216698-6[MS]), SB83-SO-01 (680-216698-6[MSD]), SB85-SO-01 (680-216698-8) and SB88-SO-01 (680-216698-11). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8270E LL: The continuing calibration verification (CCV) analyzed in batch 680-725866 was outside the method criteria for the following analyte(s): Diethyl phthalate, Bis(2-ethylhexyl) phthalate, Di-n-butyl phthalate, Butyl benzyl phthalate, 2,2'-oxybis[1-chloropropane], Carbazole and Di-n-octyl phthalate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E LL: 3,3'-Dichlorobenzidine is flagged with an E because the spike concentration for the LCS is outside of the calibration range. (LCS 680-725230/14-A)

Method 8270E LL: The following analytes have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Phenol, Caprolactam and Pentachlorophenol. These analytes may have a %D >20%, but must be <50%. If >50%, a CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E LL: The continuing calibration verification (CCV) analyzed in batch 680-726535 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], N-Nitrosodi-n-propylamine and Di-n-octyl phthalate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-725230 and analytical batch 680-726535 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8081B/8082A: The following sample required a dilution due to the nature of the sample matrix: SB79-SO-01 (680-216698-1), SB80-SO-01 (680-216698-3), SB81-SO-01 (680-216698-4), SB82-SO-01 (680-216698-5), SB83-SO-01 (680-216698-6), SB83-SO-01 (680-216698-6[MS]), SB83-SO-01 (680-216698-6[MSD]) and SB88-SO-01 (680-216698-11). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081B/8082A: Two surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB85-SO-01 (680-216698-8), SB86-SO-01 (680-216698-9) and DUP-01 (680-216698-12). These results have been reported and qualified.

Method 8081B/8082A: The following samples were diluted due to the nature of the sample matrix: SB79-SO-01 (680-216698-1),

Job ID: 680-216698-1 (Continued)

Laboratory: Eurofins Savannah (Continued)

SB79-SO-03 (680-216698-2), SB80-SO-01 (680-216698-3), SB81-SO-01 (680-216698-4), SB82-SO-01 (680-216698-5), SB83-SO-01 (680-216698-6), SB83-SO-01 (680-216698-6[MS]), SB83-SO-01 (680-216698-6[MSD]), SB84-SO-01 (680-216698-7), SB85-SO-01 (680-216698-8), SB86-SO-01 (680-216698-9), SB87-SO-01 (680-216698-10), SB88-SO-01 (680-216698-11) and DUP-01 (680-216698-12). Elevated reporting limits (RLs) are provided.

Method 8081B/8082A: The following analyte recovered outside control limits for the LCS associated with preparation batch 680-725225 and analytical batch 680-725540: Endrin ketone. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

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

Metals

Methods 7471A, 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-725330 and analytical batch 680-725716 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Methods 7471A, 7471B: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB83-SO-01 (680-216698-6). Elevated reporting limits (RLs) are provided.

Method 7471B: The matrix spike duplicate (MSD) recoveries and precision for preparation batch 680-726367 and analytical batch 680-726707 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

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

General Chemistry

Method 7196A: The following samples were diluted due to the nature of the sample matrix: SB79-SO-03 (680-216698-2), SB81-SO-01 (680-216698-4), SB83-SO-01 (680-216698-6), SB84-SO-01 (680-216698-7), SB85-SO-01 (680-216698-8), SB86-SO-01 (680-216698-9), SB87-SO-01 (680-216698-10), SB88-SO-01 (680-216698-11) and DUP-01 (680-216698-12).. Elevated reporting limits (RLs) are provided.

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

Organic Prep

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

VOA Prep

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

Sample Summary

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-216698-1	SB79-SO-01	Solid	06/09/22 12:10	06/09/22 14:53
680-216698-2	SB79-SO-03	Solid	06/09/22 12:20	06/09/22 14:53
680-216698-3	SB80-SO-01	Solid	06/09/22 11:30	06/09/22 14:53
680-216698-4	SB81-SO-01	Solid	06/09/22 10:55	06/09/22 14:53
680-216698-5	SB82-SO-01	Solid	06/09/22 10:30	06/09/22 14:53
680-216698-6	SB83-SO-01	Solid	06/09/22 09:35	06/09/22 14:53
680-216698-7	SB84-SO-01	Solid	06/09/22 09:10	06/09/22 14:53
680-216698-8	SB85-SO-01	Solid	06/09/22 08:55	06/09/22 14:53
680-216698-9	SB86-SO-01	Solid	06/09/22 08:25	06/09/22 14:53
680-216698-10	SB87-SO-01	Solid	06/09/22 08:00	06/09/22 14:53
680-216698-11	SB88-SO-01	Solid	06/09/22 07:50	06/09/22 14:53
680-216698-12	DUP-01	Solid	06/09/22 08:25	06/09/22 14:53
680-216698-13	TB-01	Water	06/09/22 07:00	06/09/22 14:53
680-216698-14	TB-02	Water	06/09/22 10:00	06/09/22 14:53

Client Sample ID: SB79-SO-01 — Lab Sample ID: 680-216698-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	140		33		ug/Kg	10	☼	8270E LL	Total/NA
Chrysene	41		33		ug/Kg	10	☼	8270E LL	Total/NA
Aluminum	8300		10		mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.8		0.30		mg/Kg	1	☼	6020B	Total/NA
Barium	60		0.50		mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.17		0.050		mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.078		0.050		mg/Kg	1	☼	6020B	Total/NA
Calcium	12000		50		mg/Kg	1	☼	6020B	Total/NA
Chromium	13		1.0		mg/Kg	1	☼	6020B	Total/NA
Cobalt	6.0		0.050		mg/Kg	1	☼	6020B	Total/NA
Copper	14		0.50		mg/Kg	1	☼	6020B	Total/NA
Iron	19000		25		mg/Kg	1	☼	6020B	Total/NA
Lead	6.5		0.20		mg/Kg	1	☼	6020B	Total/NA
Magnesium	4800		25		mg/Kg	1	☼	6020B	Total/NA
Manganese	370		1.0		mg/Kg	1	☼	6020B	Total/NA
Nickel	12		1.0		mg/Kg	1	☼	6020B	Total/NA
Potassium	5900		25		mg/Kg	1	☼	6020B	Total/NA
Selenium	2.0		0.50		mg/Kg	1	☼	6020B	Total/NA
Sodium	110		40		mg/Kg	1	☼	6020B	Total/NA
Thallium	0.31		0.10		mg/Kg	1	☼	6020B	Total/NA
Vanadium	51		0.50		mg/Kg	1	☼	6020B	Total/NA
Zinc	68		2.0		mg/Kg	1	☼	6020B	Total/NA
Chromium (hexavalent)	0.61	^-	0.42		mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: SB79-SO-03 — Lab Sample ID: 680-216698-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	8.0		6.7		ug/Kg	1	☼	8270E LL	Total/NA
Benzo[b]fluoranthene	30		6.7		ug/Kg	1	☼	8270E LL	Total/NA
Benzo[k]fluoranthene	6.9		6.7		ug/Kg	1	☼	8270E LL	Total/NA
Chrysene	13		6.7		ug/Kg	1	☼	8270E LL	Total/NA
Fluoranthene	21		6.7		ug/Kg	1	☼	8270E LL	Total/NA
2-Methylnaphthalene	18		6.7		ug/Kg	1	☼	8270E LL	Total/NA
Naphthalene	43		6.7		ug/Kg	1	☼	8270E LL	Total/NA
Phenanthrene	18		6.7		ug/Kg	1	☼	8270E LL	Total/NA
Pyrene	17		6.7		ug/Kg	1	☼	8270E LL	Total/NA
4,4'-DDE	0.93		0.85		ug/Kg	5	☼	8081B/8082A	Total/NA
Aluminum	2000		10		mg/Kg	1	☼	6020B	Total/NA
Arsenic	0.55		0.30		mg/Kg	1	☼	6020B	Total/NA
Barium	14		0.50		mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.11		0.050		mg/Kg	1	☼	6020B	Total/NA
Calcium	720		50		mg/Kg	1	☼	6020B	Total/NA
Chromium	1.8		1.0		mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.22		0.050		mg/Kg	1	☼	6020B	Total/NA
Copper	1.3		0.50		mg/Kg	1	☼	6020B	Total/NA
Iron	1200		25		mg/Kg	1	☼	6020B	Total/NA
Lead	6.3		0.20		mg/Kg	1	☼	6020B	Total/NA
Magnesium	110		25		mg/Kg	1	☼	6020B	Total/NA
Manganese	11		1.0		mg/Kg	1	☼	6020B	Total/NA
Nickel	2.1		1.0		mg/Kg	1	☼	6020B	Total/NA
Potassium	73		25		mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB79-SO-03 (Continued) — Lab Sample ID: 680-216698-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.57		0.50		mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.4		0.50		mg/Kg	1	☼	6020B	Total/NA
Zinc	3.9		2.0		mg/Kg	1	☼	6020B	Total/NA
Mercury	0.026		0.025		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB80-SO-01 — Lab Sample ID: 680-216698-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	74		16		ug/Kg	5	☼	8270E LL	Total/NA
Benzo[g,h,i]perylene	39		16		ug/Kg	5	☼	8270E LL	Total/NA
Benzo[k]fluoranthene	21		9.7		ug/Kg	5	☼	8270E LL	Total/NA
Chrysene	33		16		ug/Kg	5	☼	8270E LL	Total/NA
Fluoranthene	42		16		ug/Kg	5	☼	8270E LL	Total/NA
Pyrene	50		16		ug/Kg	5	☼	8270E LL	Total/NA
Aluminum	8700		10		mg/Kg	1	☼	6020B	Total/NA
Arsenic	2.5		0.30		mg/Kg	1	☼	6020B	Total/NA
Barium	55		0.50		mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.13		0.050		mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.050		0.050		mg/Kg	1	☼	6020B	Total/NA
Calcium	2800		50		mg/Kg	1	☼	6020B	Total/NA
Chromium	14		1.0		mg/Kg	1	☼	6020B	Total/NA
Cobalt	6.3		0.050		mg/Kg	1	☼	6020B	Total/NA
Copper	18		0.50		mg/Kg	1	☼	6020B	Total/NA
Iron	21000		25		mg/Kg	1	☼	6020B	Total/NA
Lead	4.3		0.20		mg/Kg	1	☼	6020B	Total/NA
Magnesium	5100		25		mg/Kg	1	☼	6020B	Total/NA
Manganese	420		1.0		mg/Kg	1	☼	6020B	Total/NA
Nickel	31		1.0		mg/Kg	1	☼	6020B	Total/NA
Potassium	7100		25		mg/Kg	1	☼	6020B	Total/NA
Selenium	3.2		0.50		mg/Kg	1	☼	6020B	Total/NA
Sodium	90		40		mg/Kg	1	☼	6020B	Total/NA
Thallium	0.39		0.10		mg/Kg	1	☼	6020B	Total/NA
Vanadium	48		0.50		mg/Kg	1	☼	6020B	Total/NA
Zinc	55		2.0		mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: SB81-SO-01 — Lab Sample ID: 680-216698-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	1800		36		ug/Kg	10	☼	8270E LL	Total/NA
Anthracene	1200		36		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[a]anthracene	4700		36		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[a]pyrene	7000		13		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[g,h,i]perylene	2200		36		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[k]fluoranthene	5600		22		ug/Kg	10	☼	8270E LL	Total/NA
Carbazole	830		73		ug/Kg	10	☼	8270E LL	Total/NA
Chrysene	7200		36		ug/Kg	10	☼	8270E LL	Total/NA
Dibenz(a,h)anthracene	830		36		ug/Kg	10	☼	8270E LL	Total/NA
Dibenzofuran	210		73		ug/Kg	10	☼	8270E LL	Total/NA
Fluoranthene	9300		36		ug/Kg	10	☼	8270E LL	Total/NA
Fluorene	120		36		ug/Kg	10	☼	8270E LL	Total/NA
Indeno[1,2,3-cd]pyrene	1200		36		ug/Kg	10	☼	8270E LL	Total/NA
2-Methylnaphthalene	220		36		ug/Kg	10	☼	8270E LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB81-SO-01 (Continued) — Lab Sample ID: 680-216698-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	340		36		ug/Kg	10	☼	8270E LL	Total/NA
Pentachlorophenol	2000		730		ug/Kg	10	☼	8270E LL	Total/NA
Phenanthrene	2200		26		ug/Kg	10	☼	8270E LL	Total/NA
Pyrene	12000		36		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[b]fluoranthene - DL	17000		72		ug/Kg	20	☼	8270E LL	Total/NA
Endrin ketone	45	*+	1.1		ug/Kg	10	☼	8081B/8082A	Total/NA
Aluminum	5200		10		mg/Kg	1	☼	6020B	Total/NA
Arsenic	10		0.30		mg/Kg	1	☼	6020B	Total/NA
Barium	32		0.50		mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.18		0.050		mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.21		0.050		mg/Kg	1	☼	6020B	Total/NA
Calcium	1400		50		mg/Kg	1	☼	6020B	Total/NA
Chromium	9.0		1.0		mg/Kg	1	☼	6020B	Total/NA
Cobalt	1.6		0.050		mg/Kg	1	☼	6020B	Total/NA
Copper	32		0.50		mg/Kg	1	☼	6020B	Total/NA
Iron	7900		25		mg/Kg	1	☼	6020B	Total/NA
Lead	51		0.20		mg/Kg	1	☼	6020B	Total/NA
Magnesium	350		25		mg/Kg	1	☼	6020B	Total/NA
Manganese	84		1.0		mg/Kg	1	☼	6020B	Total/NA
Nickel	5.9		1.0		mg/Kg	1	☼	6020B	Total/NA
Potassium	200		25		mg/Kg	1	☼	6020B	Total/NA
Selenium	1.1		0.50		mg/Kg	1	☼	6020B	Total/NA
Vanadium	18		0.50		mg/Kg	1	☼	6020B	Total/NA
Zinc	37		2.0		mg/Kg	1	☼	6020B	Total/NA
Mercury	0.072		0.025		mg/Kg	1	☼	7471B	Total/NA
Chromium (hexavalent)	2.8	^-	0.75		mg/Kg	5	☼	7196A	Total/NA

Client Sample ID: SB82-SO-01 — Lab Sample ID: 680-216698-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	440		17		ug/Kg	5	☼	8270E LL	Total/NA
Anthracene	380		17		ug/Kg	5	☼	8270E LL	Total/NA
Benzo[a]anthracene	790		17		ug/Kg	5	☼	8270E LL	Total/NA
Benzo[a]pyrene	1100		6.7		ug/Kg	5	☼	8270E LL	Total/NA
Benzo[b]fluoranthene	3200		17		ug/Kg	5	☼	8270E LL	Total/NA
Benzo[g,h,i]perylene	570		17		ug/Kg	5	☼	8270E LL	Total/NA
Benzo[k]fluoranthene	1200		10		ug/Kg	5	☼	8270E LL	Total/NA
Carbazole	230		66		ug/Kg	5	☼	8270E LL	Total/NA
Chrysene	1500		17		ug/Kg	5	☼	8270E LL	Total/NA
Dibenzofuran	86		66		ug/Kg	5	☼	8270E LL	Total/NA
Fluoranthene	2100		17		ug/Kg	5	☼	8270E LL	Total/NA
Indeno[1,2,3-cd]pyrene	310		17		ug/Kg	5	☼	8270E LL	Total/NA
2-Methylnaphthalene	69		17		ug/Kg	5	☼	8270E LL	Total/NA
Naphthalene	120		17		ug/Kg	5	☼	8270E LL	Total/NA
Pentachlorophenol	1800		340		ug/Kg	5	☼	8270E LL	Total/NA
Phenanthrene	350		12		ug/Kg	5	☼	8270E LL	Total/NA
Pyrene	2500		17		ug/Kg	5	☼	8270E LL	Total/NA
Endrin ketone	17	*+	0.97		ug/Kg	10	☼	8081B/8082A	Total/NA
Aluminum	8600		10		mg/Kg	1	☼	6020B	Total/NA
Arsenic	2.1		0.30		mg/Kg	1	☼	6020B	Total/NA
Barium	23		0.50		mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB82-SO-01 (Continued) — Lab Sample ID: 680-216698-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.14		0.050		mg/Kg	1	☼	6020B	Total/NA
Calcium	550		50		mg/Kg	1	☼	6020B	Total/NA
Chromium	9.0		1.0		mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.85		0.050		mg/Kg	1	☼	6020B	Total/NA
Copper	3.1		0.50		mg/Kg	1	☼	6020B	Total/NA
Iron	3900		25		mg/Kg	1	☼	6020B	Total/NA
Lead	8.0		0.20		mg/Kg	1	☼	6020B	Total/NA
Magnesium	410		25		mg/Kg	1	☼	6020B	Total/NA
Manganese	24		1.0		mg/Kg	1	☼	6020B	Total/NA
Nickel	2.4		1.0		mg/Kg	1	☼	6020B	Total/NA
Potassium	270		25		mg/Kg	1	☼	6020B	Total/NA
Selenium	1.0		0.50		mg/Kg	1	☼	6020B	Total/NA
Vanadium	13		0.50		mg/Kg	1	☼	6020B	Total/NA
Zinc	6.3		2.0		mg/Kg	1	☼	6020B	Total/NA
Mercury	0.027		0.025		mg/Kg	1	☼	7471B	Total/NA
Chromium (hexavalent)	1.5	^-	0.42		mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: SB83-SO-01 — Lab Sample ID: 680-216698-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	7800		180		ug/Kg	50	☼	8270E LL	Total/NA
Anthracene	6900		180		ug/Kg	50	☼	8270E LL	Total/NA
Benzo[a]anthracene	29000		180		ug/Kg	50	☼	8270E LL	Total/NA
Benzo[a]pyrene	48000		64		ug/Kg	50	☼	8270E LL	Total/NA
Benzo[g,h,i]perylene	9600		180		ug/Kg	50	☼	8270E LL	Total/NA
Benzo[k]fluoranthene	27000		110		ug/Kg	50	☼	8270E LL	Total/NA
Carbazole	4000		360		ug/Kg	50	☼	8270E LL	Total/NA
Chrysene	38000		180		ug/Kg	50	☼	8270E LL	Total/NA
Dibenz(a,h)anthracene	5700		180		ug/Kg	50	☼	8270E LL	Total/NA
Dibenzofuran	900		360		ug/Kg	50	☼	8270E LL	Total/NA
Fluoranthene	45000		180		ug/Kg	50	☼	8270E LL	Total/NA
Fluorene	480		180		ug/Kg	50	☼	8270E LL	Total/NA
Indeno[1,2,3-cd]pyrene	12000		180		ug/Kg	50	☼	8270E LL	Total/NA
2-Methylnaphthalene	770		180		ug/Kg	50	☼	8270E LL	Total/NA
Naphthalene	1800	F1	180		ug/Kg	50	☼	8270E LL	Total/NA
Pentachlorophenol	22000		3600		ug/Kg	50	☼	8270E LL	Total/NA
Phenanthrene	4800		130		ug/Kg	50	☼	8270E LL	Total/NA
Pyrene	52000		180		ug/Kg	50	☼	8270E LL	Total/NA
Benzo[b]fluoranthene - DL	100000		350		ug/Kg	100	☼	8270E LL	Total/NA
Endrin ketone	92	p *+	1.0		ug/Kg	10	☼	8081B/8082A	Total/NA
Aluminum	1200	F1	10		mg/Kg	1	☼	6020B	Total/NA
Arsenic	4.3	F1	0.30		mg/Kg	1	☼	6020B	Total/NA
Barium	4.7	F1	0.50		mg/Kg	1	☼	6020B	Total/NA
Chromium	2.2	F1	1.0		mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.15		0.050		mg/Kg	1	☼	6020B	Total/NA
Copper	3.9	F1	0.50		mg/Kg	1	☼	6020B	Total/NA
Iron	1400	F1	25		mg/Kg	1	☼	6020B	Total/NA
Lead	4.4	F1	0.20		mg/Kg	1	☼	6020B	Total/NA
Magnesium	35	F1	25		mg/Kg	1	☼	6020B	Total/NA
Manganese	10	F1	1.0		mg/Kg	1	☼	6020B	Total/NA
Vanadium	4.2	F1	0.50		mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB83-SO-01 (Continued)

Lab Sample ID: 680-216698-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	2.2	F1	2.0		mg/Kg	1	☼	6020B	Total/NA
Mercury	0.49		0.041		mg/Kg	5	☼	7471B	Total/NA

Client Sample ID: SB84-SO-01

Lab Sample ID: 680-216698-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	130		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Anthracene	150		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Benzo[a]anthracene	180		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Benzo[a]pyrene	320		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Benzo[b]fluoranthene	760		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Benzo[g,h,i]perylene	170		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Benzo[k]fluoranthene	230		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Carbazole	80		66		ug/Kg	2	☼	8270E LL	Total/NA
Chrysene	270		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Dibenz(a,h)anthracene	61		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Fluoranthene	320		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Indeno[1,2,3-cd]pyrene	83		6.7		ug/Kg	2	☼	8270E LL	Total/NA
2-Methylnaphthalene	23		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Naphthalene	41		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Pentachlorophenol	770		340		ug/Kg	2	☼	8270E LL	Total/NA
Phenanthrene	100		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Pyrene	380		6.7		ug/Kg	2	☼	8270E LL	Total/NA
Aluminum	2500		10		mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.2		0.30		mg/Kg	1	☼	6020B	Total/NA
Barium	8.2		0.50		mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.077		0.050		mg/Kg	1	☼	6020B	Total/NA
Calcium	360		50		mg/Kg	1	☼	6020B	Total/NA
Chromium	2.9		1.0		mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.37		0.050		mg/Kg	1	☼	6020B	Total/NA
Copper	4.4		0.50		mg/Kg	1	☼	6020B	Total/NA
Iron	1300		25		mg/Kg	1	☼	6020B	Total/NA
Lead	5.1		0.20		mg/Kg	1	☼	6020B	Total/NA
Magnesium	82		25		mg/Kg	1	☼	6020B	Total/NA
Manganese	13		1.0		mg/Kg	1	☼	6020B	Total/NA
Nickel	2.0		1.0		mg/Kg	1	☼	6020B	Total/NA
Potassium	70		25		mg/Kg	1	☼	6020B	Total/NA
Selenium	0.76		0.50		mg/Kg	1	☼	6020B	Total/NA
Vanadium	3.3		0.50		mg/Kg	1	☼	6020B	Total/NA
Zinc	8.1		2.0		mg/Kg	1	☼	6020B	Total/NA
Mercury	0.033		0.025		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB85-SO-01

Lab Sample ID: 680-216698-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	4400		160		ug/Kg	50	☼	8270E LL	Total/NA
Anthracene	3500		160		ug/Kg	50	☼	8270E LL	Total/NA
Benzo[a]anthracene	1700		160		ug/Kg	50	☼	8270E LL	Total/NA
Benzo[a]pyrene	3500		60		ug/Kg	50	☼	8270E LL	Total/NA
Benzo[b]fluoranthene	10000		160		ug/Kg	50	☼	8270E LL	Total/NA
Benzo[g,h,i]perylene	6600		160		ug/Kg	50	☼	8270E LL	Total/NA
Benzo[k]fluoranthene	4000		100		ug/Kg	50	☼	8270E LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB85-SO-01 (Continued) — Lab Sample ID: 680-216698-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbazole	1500		330		ug/Kg	50	☼	8270E LL	Total/NA
Chrysene	3100		160		ug/Kg	50	☼	8270E LL	Total/NA
Dibenz(a,h)anthracene	2200		160		ug/Kg	50	☼	8270E LL	Total/NA
Dibenzofuran	460		330		ug/Kg	50	☼	8270E LL	Total/NA
Fluoranthene	2600		160		ug/Kg	50	☼	8270E LL	Total/NA
Indeno[1,2,3-cd]pyrene	6500		160		ug/Kg	50	☼	8270E LL	Total/NA
2-Methylnaphthalene	540		160		ug/Kg	50	☼	8270E LL	Total/NA
Naphthalene	2000		160		ug/Kg	50	☼	8270E LL	Total/NA
Pentachlorophenol	5700		3300		ug/Kg	50	☼	8270E LL	Total/NA
Phenanthrene	1100		120		ug/Kg	50	☼	8270E LL	Total/NA
Pyrene	3800		160		ug/Kg	50	☼	8270E LL	Total/NA
Aluminum	2100		10		mg/Kg	1	☼	6020B	Total/NA
Arsenic	2.8		0.30		mg/Kg	1	☼	6020B	Total/NA
Barium	22		0.50		mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.12		0.050		mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.071		0.050		mg/Kg	1	☼	6020B	Total/NA
Calcium	740		50		mg/Kg	1	☼	6020B	Total/NA
Chromium	3.2		1.0		mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.59		0.050		mg/Kg	1	☼	6020B	Total/NA
Copper	7.5		0.50		mg/Kg	1	☼	6020B	Total/NA
Iron	2700		25		mg/Kg	1	☼	6020B	Total/NA
Lead	11		0.20		mg/Kg	1	☼	6020B	Total/NA
Magnesium	98		25		mg/Kg	1	☼	6020B	Total/NA
Manganese	20		1.0		mg/Kg	1	☼	6020B	Total/NA
Nickel	3.5		1.0		mg/Kg	1	☼	6020B	Total/NA
Potassium	77		25		mg/Kg	1	☼	6020B	Total/NA
Selenium	1.1		0.50		mg/Kg	1	☼	6020B	Total/NA
Vanadium	6.5		0.50		mg/Kg	1	☼	6020B	Total/NA
Zinc	14		2.0		mg/Kg	1	☼	6020B	Total/NA
Mercury	0.089	F1 F2	0.025		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB86-SO-01 — Lab Sample ID: 680-216698-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	70		32		ug/Kg	10	☼	8270E LL	Total/NA
Acenaphthylene	1600		32		ug/Kg	10	☼	8270E LL	Total/NA
Anthracene	3100		32		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[a]anthracene	1600		32		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[a]pyrene	2100		12		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[b]fluoranthene	7300		32		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[g,h,i]perylene	1800		32		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[k]fluoranthene	2200		20		ug/Kg	10	☼	8270E LL	Total/NA
Carbazole	550		66		ug/Kg	10	☼	8270E LL	Total/NA
Chrysene	2500		32		ug/Kg	10	☼	8270E LL	Total/NA
Dibenz(a,h)anthracene	640		32		ug/Kg	10	☼	8270E LL	Total/NA
Dibenzofuran	180		66		ug/Kg	10	☼	8270E LL	Total/NA
Fluoranthene	2400		32		ug/Kg	10	☼	8270E LL	Total/NA
Fluorene	160		32		ug/Kg	10	☼	8270E LL	Total/NA
Indeno[1,2,3-cd]pyrene	870		32		ug/Kg	10	☼	8270E LL	Total/NA
2-Methylnaphthalene	160		32		ug/Kg	10	☼	8270E LL	Total/NA
Naphthalene	350		32		ug/Kg	10	☼	8270E LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB86-SO-01 (Continued) — Lab Sample ID: 680-216698-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	1800		650		ug/Kg	10	☼	8270E LL	Total/NA
Phenanthrene	650		23		ug/Kg	10	☼	8270E LL	Total/NA
Pyrene	3400		32		ug/Kg	10	☼	8270E LL	Total/NA
4,4'-DDT	2.6	p	0.85		ug/Kg	5	☼	8081B/8082A	Total/NA
Endrin ketone	15	*+	0.85		ug/Kg	5	☼	8081B/8082A	Total/NA
Aluminum	2400		10		mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.8		0.30		mg/Kg	1	☼	6020B	Total/NA
Barium	15		0.50		mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.11		0.050		mg/Kg	1	☼	6020B	Total/NA
Calcium	720		50		mg/Kg	1	☼	6020B	Total/NA
Chromium	3.4		1.0		mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.39		0.050		mg/Kg	1	☼	6020B	Total/NA
Copper	5.7		0.50		mg/Kg	1	☼	6020B	Total/NA
Iron	2000		25		mg/Kg	1	☼	6020B	Total/NA
Lead	11		0.20		mg/Kg	1	☼	6020B	Total/NA
Magnesium	130		25		mg/Kg	1	☼	6020B	Total/NA
Manganese	17		1.0		mg/Kg	1	☼	6020B	Total/NA
Nickel	2.3		1.0		mg/Kg	1	☼	6020B	Total/NA
Potassium	95		25		mg/Kg	1	☼	6020B	Total/NA
Selenium	1.0		0.50		mg/Kg	1	☼	6020B	Total/NA
Vanadium	6.9		0.50		mg/Kg	1	☼	6020B	Total/NA
Zinc	8.2		2.0		mg/Kg	1	☼	6020B	Total/NA
Mercury	0.078		0.025		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB87-SO-01 — Lab Sample ID: 680-216698-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	270		17		ug/Kg	5	☼	8270E LL	Total/NA
Anthracene	400		17		ug/Kg	5	☼	8270E LL	Total/NA
Benzo[a]anthracene	440		17		ug/Kg	5	☼	8270E LL	Total/NA
Benzo[a]pyrene	300		6.7		ug/Kg	5	☼	8270E LL	Total/NA
Benzo[b]fluoranthene	2100		17		ug/Kg	5	☼	8270E LL	Total/NA
Benzo[g,h,i]perylene	350		17		ug/Kg	5	☼	8270E LL	Total/NA
Benzo[k]fluoranthene	840		10		ug/Kg	5	☼	8270E LL	Total/NA
Carbazole	110		66		ug/Kg	5	☼	8270E LL	Total/NA
Chrysene	750		17		ug/Kg	5	☼	8270E LL	Total/NA
Dibenz(a,h)anthracene	150		17		ug/Kg	5	☼	8270E LL	Total/NA
Fluoranthene	330		17		ug/Kg	5	☼	8270E LL	Total/NA
Indeno[1,2,3-cd]pyrene	190		17		ug/Kg	5	☼	8270E LL	Total/NA
2-Methylnaphthalene	48		17		ug/Kg	5	☼	8270E LL	Total/NA
Naphthalene	110		17		ug/Kg	5	☼	8270E LL	Total/NA
Pentachlorophenol	940		350		ug/Kg	5	☼	8270E LL	Total/NA
Phenanthrene	150		13		ug/Kg	5	☼	8270E LL	Total/NA
Pyrene	340		17		ug/Kg	5	☼	8270E LL	Total/NA
4,4'-DDT	3.7	p	0.85		ug/Kg	5	☼	8081B/8082A	Total/NA
Aluminum	3200		10		mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.4		0.30		mg/Kg	1	☼	6020B	Total/NA
Barium	16		0.50		mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.095		0.050		mg/Kg	1	☼	6020B	Total/NA
Calcium	460		50		mg/Kg	1	☼	6020B	Total/NA
Chromium	4.2		1.0		mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB87-SO-01 (Continued) — Lab Sample ID: 680-216698-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.27		0.050		mg/Kg	1	☼	6020B	Total/NA
Copper	1.5		0.50		mg/Kg	1	☼	6020B	Total/NA
Iron	3000		25		mg/Kg	1	☼	6020B	Total/NA
Lead	7.4		0.20		mg/Kg	1	☼	6020B	Total/NA
Magnesium	110		25		mg/Kg	1	☼	6020B	Total/NA
Manganese	18		1.0		mg/Kg	1	☼	6020B	Total/NA
Nickel	2.1		1.0		mg/Kg	1	☼	6020B	Total/NA
Potassium	120		25		mg/Kg	1	☼	6020B	Total/NA
Selenium	0.98		0.50		mg/Kg	1	☼	6020B	Total/NA
Vanadium	7.7		0.50		mg/Kg	1	☼	6020B	Total/NA
Zinc	6.4		2.0		mg/Kg	1	☼	6020B	Total/NA

Client Sample ID: SB88-SO-01 — Lab Sample ID: 680-216698-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	2400		66		ug/Kg	20	☼	8270E LL	Total/NA
Anthracene	15000		66		ug/Kg	20	☼	8270E LL	Total/NA
Benzo[a]anthracene	9800		66		ug/Kg	20	☼	8270E LL	Total/NA
Benzo[a]pyrene	4900		24		ug/Kg	20	☼	8270E LL	Total/NA
Benzo[b]fluoranthene	26000		66		ug/Kg	20	☼	8270E LL	Total/NA
Benzo[g,h,i]perylene	2700		66		ug/Kg	20	☼	8270E LL	Total/NA
Benzo[k]fluoranthene	6900		40		ug/Kg	20	☼	8270E LL	Total/NA
Carbazole	6400		130		ug/Kg	20	☼	8270E LL	Total/NA
Chrysene	15000		66		ug/Kg	20	☼	8270E LL	Total/NA
Dibenz(a,h)anthracene	1400		66		ug/Kg	20	☼	8270E LL	Total/NA
Dibenzofuran	460		130		ug/Kg	20	☼	8270E LL	Total/NA
Fluorene	410		66		ug/Kg	20	☼	8270E LL	Total/NA
Indeno[1,2,3-cd]pyrene	3100		66		ug/Kg	20	☼	8270E LL	Total/NA
2-Methylnaphthalene	250		66		ug/Kg	20	☼	8270E LL	Total/NA
Naphthalene	680		66		ug/Kg	20	☼	8270E LL	Total/NA
Pentachlorophenol	20000		1300		ug/Kg	20	☼	8270E LL	Total/NA
Phenanthrene	9700		48		ug/Kg	20	☼	8270E LL	Total/NA
Pyrene	24000		66		ug/Kg	20	☼	8270E LL	Total/NA
Fluoranthene - DL	34000		170		ug/Kg	50	☼	8270E LL	Total/NA
4,4'-DDT	45		1.1		ug/Kg	10	☼	8081B/8082A	Total/NA
Endrin ketone	61	*+	1.0		ug/Kg	10	☼	8081B/8082A	Total/NA
gamma-BHC (Lindane)	7.7	p	0.85		ug/Kg	10	☼	8081B/8082A	Total/NA
Aluminum	4300		10		mg/Kg	1	☼	6020B	Total/NA
Arsenic	3.2		0.30		mg/Kg	1	☼	6020B	Total/NA
Barium	27		0.50		mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.19		0.050		mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.060		0.050		mg/Kg	1	☼	6020B	Total/NA
Calcium	480		50		mg/Kg	1	☼	6020B	Total/NA
Chromium	6.4		1.0		mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.63		0.050		mg/Kg	1	☼	6020B	Total/NA
Copper	4.6		0.50		mg/Kg	1	☼	6020B	Total/NA
Iron	4600		25		mg/Kg	1	☼	6020B	Total/NA
Lead	9.0		0.20		mg/Kg	1	☼	6020B	Total/NA
Magnesium	200		25		mg/Kg	1	☼	6020B	Total/NA
Manganese	16		1.0		mg/Kg	1	☼	6020B	Total/NA
Nickel	2.2		1.0		mg/Kg	1	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB88-SO-01 (Continued) — Lab Sample ID: 680-216698-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	150		25		mg/Kg	1	☼	6020B	Total/NA
Selenium	1.5		0.50		mg/Kg	1	☼	6020B	Total/NA
Vanadium	13		0.50		mg/Kg	1	☼	6020B	Total/NA
Zinc	9.8		2.0		mg/Kg	1	☼	6020B	Total/NA
Mercury	0.063		0.025		mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: DUP-01 — Lab Sample ID: 680-216698-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	1400		35		ug/Kg	10	☼	8270E LL	Total/NA
Anthracene	3000		35		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[a]anthracene	2100		35		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[a]pyrene	2100		13		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[b]fluoranthene	6700		35		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[g,h,i]perylene	1500		35		ug/Kg	10	☼	8270E LL	Total/NA
Benzo[k]fluoranthene	2300		21		ug/Kg	10	☼	8270E LL	Total/NA
Carbazole	580		71		ug/Kg	10	☼	8270E LL	Total/NA
Chrysene	2900		35		ug/Kg	10	☼	8270E LL	Total/NA
Dibenz(a,h)anthracene	560		35		ug/Kg	10	☼	8270E LL	Total/NA
Dibenzofuran	150		71		ug/Kg	10	☼	8270E LL	Total/NA
Fluoranthene	2600		35		ug/Kg	10	☼	8270E LL	Total/NA
Fluorene	120		35		ug/Kg	10	☼	8270E LL	Total/NA
Indeno[1,2,3-cd]pyrene	790		35		ug/Kg	10	☼	8270E LL	Total/NA
2-Methylnaphthalene	170		35		ug/Kg	10	☼	8270E LL	Total/NA
Naphthalene	370		35		ug/Kg	10	☼	8270E LL	Total/NA
Pentachlorophenol	1400		710		ug/Kg	10	☼	8270E LL	Total/NA
Phenanthrene	600		26		ug/Kg	10	☼	8270E LL	Total/NA
Pyrene	3700		35		ug/Kg	10	☼	8270E LL	Total/NA
4,4'-DDT	2.8	p	0.85		ug/Kg	5	☼	8081B/8082A	Total/NA
Endrin ketone	22	*+	0.85		ug/Kg	5	☼	8081B/8082A	Total/NA
gamma-BHC (Lindane)	1.4		0.85		ug/Kg	5	☼	8081B/8082A	Total/NA
Aluminum	2600		10		mg/Kg	1	☼	6020B	Total/NA
Arsenic	1.5		0.30		mg/Kg	1	☼	6020B	Total/NA
Barium	15		0.50		mg/Kg	1	☼	6020B	Total/NA
Beryllium	0.090		0.050		mg/Kg	1	☼	6020B	Total/NA
Calcium	660		50		mg/Kg	1	☼	6020B	Total/NA
Chromium	3.5		1.0		mg/Kg	1	☼	6020B	Total/NA
Cobalt	0.27		0.050		mg/Kg	1	☼	6020B	Total/NA
Copper	3.2		0.50		mg/Kg	1	☼	6020B	Total/NA
Iron	2300		25		mg/Kg	1	☼	6020B	Total/NA
Lead	8.6		0.20		mg/Kg	1	☼	6020B	Total/NA
Magnesium	100		25		mg/Kg	1	☼	6020B	Total/NA
Manganese	13		1.0		mg/Kg	1	☼	6020B	Total/NA
Nickel	1.8		1.0		mg/Kg	1	☼	6020B	Total/NA
Potassium	95		25		mg/Kg	1	☼	6020B	Total/NA
Selenium	0.97		0.50		mg/Kg	1	☼	6020B	Total/NA
Vanadium	6.9		0.50		mg/Kg	1	☼	6020B	Total/NA
Zinc	6.2		2.0		mg/Kg	1	☼	6020B	Total/NA
Mercury	0.068		0.025		mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: TB-01 — Lab Sample ID: 680-216698-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	13		10		ug/L	1		8260D	Total/NA

Client Sample ID: TB-02 — Lab Sample ID: 680-216698-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	13		10		ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: SB79-SO-01
Date Collected: 06/09/22 12:10
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-1
Matrix: Solid
Percent Solids: 98.0

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Benzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Bromodichloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Bromoform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Bromomethane	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
2-Butanone (MEK)	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Carbon disulfide	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Carbon tetrachloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Chlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Chloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Chloroform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Chloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Dibromochloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Ethylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
2-Hexanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Isopropylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Methylene Chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
4-Methyl-2-pentanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Methyl tert-butyl ether	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Styrene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Tetrachloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Toluene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Trichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Vinyl chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Xylenes, Total	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Cyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Methyl acetate	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1
Methylcyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 14:54	1

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: SB79-SO-01
Date Collected: 06/09/22 12:10
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-1
Matrix: Solid
Percent Solids: 98.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*65 - 130*	*06/10/22 10:05*	*06/16/22 14:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 130*	*06/10/22 10:05*	*06/16/22 14:54*	*1*
Dibromofluoromethane (Surr)	*100*		*65 - 130*	*06/10/22 10:05*	*06/16/22 14:54*	*1*
4-Bromofluorobenzene (Surr)	*113*		*65 - 130*	*06/10/22 10:05*	*06/16/22 14:54*	*1*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<33		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Acenaphthylene	<33		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Acetophenone	<68		68		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Anthracene	<33		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Atrazine	<75		75		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Benzaldehyde	<98		98		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Benzo[a]anthracene	<33		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Benzo[a]pyrene	<12		12		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Benzo[b]fluoranthene	**140**		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Benzo[g,h,i]perylene	<33		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Benzo[k]fluoranthene	<20		20		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
1,1'-Biphenyl	<71		71		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Bis(2-chloroethoxy)methane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Bis(2-chloroethyl)ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Bis(2-ethylhexyl) phthalate	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
4-Bromophenyl phenyl ether	<69		69		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Butyl benzyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Caprolactam	<70		70		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Carbazole	<67		67		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
4-Chloroaniline	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
4-Chloro-3-methylphenol	<70		70		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2-Chloronaphthalene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2-Chlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
4-Chlorophenyl phenyl ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Chrysene	**41**		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Dibenz(a,h)anthracene	<33		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Dibenzofuran	<67		67		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
3,3'-Dichlorobenzidine	<170		170		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2,4-Dichlorophenol	<71		71		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Diethyl phthalate	<73		73		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2,4-Dimethylphenol	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Dimethyl phthalate	<74		74		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Di-n-butyl phthalate	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
4,6-Dinitro-2-methylphenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2,4-Dinitrophenol	<1300		1300		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2,4-Dinitrotoluene	<74		74		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2,6-Dinitrotoluene	<78		78		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Di-n-octyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Fluoranthene	<33		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Fluorene	<33		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Hexachlorobenzene	<75		75		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Hexachlorobutadiene	<68		68		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Hexachlorocyclopentadiene	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: SB79-SO-01
Date Collected: 06/09/22 12:10
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-1
Matrix: Solid
Percent Solids: 98.0

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Indeno[1,2,3-cd]pyrene	<33		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Isophorone	<70		70		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2-Methylnaphthalene	<33		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2-Methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
3 & 4 Methylphenol	<72		72		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Naphthalene	<33		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
3-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
4-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Nitrobenzene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2-Nitrophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
4-Nitrophenol	<720		720		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
N-Nitrosodi-n-propylamine	<74		74		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
N-Nitrosodiphenylamine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2,2'-oxybis[1-chloropropane]	<71		71		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Pentachlorophenol	<670		670		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Phenanthrene	<24		24		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Phenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
Pyrene	<33		33		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2,4,5-Trichlorophenol	<75		75		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10
2,4,6-Trichlorophenol	<78		78		ug/Kg	☼	06/10/22 15:30	06/16/22 17:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*D*	*11 - 130*	*06/10/22 15:30*	*06/16/22 17:03*	*10*
2-Fluorophenol (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/16/22 17:03*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*18 - 130*	*06/10/22 15:30*	*06/16/22 17:03*	*10*
Phenol-d5 (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/16/22 17:03*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*27 - 130*	*06/10/22 15:30*	*06/16/22 17:03*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*24 - 130*	*06/10/22 15:30*	*06/16/22 17:03*	*10*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<1.9		1.9		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
alpha-BHC	<1.8		1.8		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
beta-BHC	<4.3		4.3		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
Chlordane (technical)	<38		38		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
4,4'-DDD	<2.3		2.3		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
4,4'-DDE	<2.3		2.3		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
4,4'-DDT	<2.8		2.8		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
delta-BHC	<2.4		2.4		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
Dieldrin	<2.1		2.1		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
Endosulfan I	<2.1		2.1		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
Endosulfan II	<1.9		1.9		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
Endosulfan sulfate	<2.8		2.8		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
Endrin	<2.8		2.8		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
Endrin aldehyde	<2.8		2.8		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
Endrin ketone	<2.5	*+	2.5		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
gamma-BHC (Lindane)	<1.8		1.8		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
Heptachlor	<2.4		2.4		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: SB79-SO-01
Date Collected: 06/09/22 12:10
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-1
Matrix: Solid
Percent Solids: 98.0

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	<2.0		2.0		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
Methoxychlor	<3.5		3.5		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
PCB-1016	<140		140		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
PCB-1221	<140		140		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
PCB-1232	<140		140		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
PCB-1242	<140		140		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
PCB-1248	<140		140		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
PCB-1254	<140		140		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
PCB-1260	<120		120		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25
Toxaphene	<85		85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:20	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*25 - 138*	*06/10/22 11:12*	*06/13/22 20:20*	*25*
Tetrachloro-m-xylene	*0*	*D*	*22 - 130*	*06/10/22 11:12*	*06/13/22 20:20*	*25*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8300**		10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Antimony	<1.0		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Arsenic	**1.8**		0.30		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Barium	**60**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Beryllium	**0.17**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Cadmium	**0.078**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Calcium	**12000**		50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Chromium	**13**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Cobalt	**6.0**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Copper	**14**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Iron	**19000**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Lead	**6.5**		0.20		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Magnesium	**4800**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Manganese	**370**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Nickel	**12**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Potassium	**5900**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Selenium	**2.0**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Silver	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Sodium	**110**		40		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Thallium	**0.31**		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Vanadium	**51**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1
Zinc	**68**		2.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.025		0.025		mg/Kg	☼	06/17/22 10:23	06/17/22 19:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	**0.61**	**^-**	0.42		mg/Kg	☼	06/23/22 17:41	06/26/22 00:54	1

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: SB79-SO-03
Date Collected: 06/09/22 12:20
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-2
Matrix: Solid
Percent Solids: 97.6

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Benzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Bromodichloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Bromoform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Bromomethane	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
2-Butanone (MEK)	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Carbon disulfide	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Carbon tetrachloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Chlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Chloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Chloroform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Chloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Dibromochloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Ethylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
2-Hexanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Isopropylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Methylene Chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
4-Methyl-2-pentanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Methyl tert-butyl ether	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Styrene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Tetrachloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Toluene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Trichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Vinyl chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Xylenes, Total	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Cyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Methyl acetate	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1
Methylcyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:18	1

Client Sample ID: SB79-SO-03

Date Collected: 06/09/22 12:20
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-2

Matrix: Solid
Percent Solids: 97.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*65 - 130*	*06/10/22 10:05*	*06/16/22 15:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 130*	*06/10/22 10:05*	*06/16/22 15:18*	*1*
Dibromofluoromethane (Surr)	*101*		*65 - 130*	*06/10/22 10:05*	*06/16/22 15:18*	*1*
4-Bromofluorobenzene (Surr)	*113*		*65 - 130*	*06/10/22 10:05*	*06/16/22 15:18*	*1*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.7		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Acenaphthylene	<6.7		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Acetophenone	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Anthracene	<6.7		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Atrazine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Benzaldehyde	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Benzo[a]anthracene	**8.0**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Benzo[a]pyrene	<6.7		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Benzo[b]fluoranthene	**30**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Benzo[g,h,i]perylene	<6.7		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Benzo[k]fluoranthene	**6.9**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
1,1'-Biphenyl	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Bis(2-chloroethoxy)methane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Bis(2-chloroethyl)ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Bis(2-ethylhexyl) phthalate	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
4-Bromophenyl phenyl ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Butyl benzyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Caprolactam	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Carbazole	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
4-Chloroaniline	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
4-Chloro-3-methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2-Chloronaphthalene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2-Chlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
4-Chlorophenyl phenyl ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Chrysene	**13**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Dibenz(a,h)anthracene	<6.7		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Dibenzofuran	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
3,3'-Dichlorobenzidine	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2,4-Dichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Diethyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2,4-Dimethylphenol	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Dimethyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Di-n-butyl phthalate	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
4,6-Dinitro-2-methylphenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2,4-Dinitrophenol	<660		660		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2,4-Dinitrotoluene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2,6-Dinitrotoluene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Di-n-octyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Fluoranthene	**21**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Fluorene	<6.7		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Hexachlorobenzene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Hexachlorobutadiene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Hexachlorocyclopentadiene	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1

Client Sample ID: SB79-SO-03
Date Collected: 06/09/22 12:20
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-2
Matrix: Solid
Percent Solids: 97.6

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Indeno[1,2,3-cd]pyrene	<6.7		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Isophorone	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2-Methylnaphthalene	**18**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2-Methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
3 & 4 Methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Naphthalene	**43**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
3-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
4-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Nitrobenzene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2-Nitrophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
4-Nitrophenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
N-Nitrosodi-n-propylamine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
N-Nitrosodiphenylamine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2,2'-oxybis[1-chloropropane]	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Pentachlorophenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Phenanthrene	**18**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Phenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
Pyrene	**17**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2,4,5-Trichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1
2,4,6-Trichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*84*		*11 - 130*	*06/10/22 15:30*	*06/16/22 17:27*	*1*
2-Fluorophenol (Surr)	*64*		*10 - 130*	*06/10/22 15:30*	*06/16/22 17:27*	*1*
Nitrobenzene-d5 (Surr)	*62*		*18 - 130*	*06/10/22 15:30*	*06/16/22 17:27*	*1*
Phenol-d5 (Surr)	*66*		*10 - 130*	*06/10/22 15:30*	*06/16/22 17:27*	*1*
Terphenyl-d14 (Surr)	*93*		*27 - 130*	*06/10/22 15:30*	*06/16/22 17:27*	*1*
2,4,6-Tribromophenol (Surr)	*101*		*24 - 130*	*06/10/22 15:30*	*06/16/22 17:27*	*1*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
alpha-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
beta-BHC	<0.86		0.86		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
Chlordane (technical)	<8.5		8.5		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
4,4'-DDD	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
4,4'-DDE	**0.93**		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
4,4'-DDT	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
delta-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
Dieldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
Endosulfan I	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
Endosulfan II	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
Endosulfan sulfate	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
Endrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
Endrin aldehyde	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
Endrin ketone	<0.85	*+	0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
gamma-BHC (Lindane)	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
Heptachlor	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5

Client Sample ID: SB79-SO-03
Date Collected: 06/09/22 12:20
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-2
Matrix: Solid
Percent Solids: 97.6

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
Methoxychlor	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
PCB-1016	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
PCB-1221	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
PCB-1232	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
PCB-1242	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
PCB-1248	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
PCB-1254	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
PCB-1260	<24		24		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5
Toxaphene	<85		85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*114*		*25 - 138*	*06/10/22 11:12*	*06/13/22 20:36*	*5*
Tetrachloro-m-xylene	*79*		*22 - 130*	*06/10/22 11:12*	*06/13/22 20:36*	*5*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2000**		10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Antimony	<1.0		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Arsenic	**0.55**		0.30		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Barium	**14**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Beryllium	**0.11**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Cadmium	<0.050		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Calcium	**720**		50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Chromium	**1.8**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Cobalt	**0.22**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Copper	**1.3**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Iron	**1200**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Lead	**6.3**		0.20		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Magnesium	**110**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Manganese	**11**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Nickel	**2.1**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Potassium	**73**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Selenium	**0.57**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Silver	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Sodium	<40		40		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Thallium	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Vanadium	**3.4**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1
Zinc	**3.9**		2.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.025		mg/Kg	☼	06/17/22 10:23	06/17/22 19:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	<0.69	^-	0.69		mg/Kg	☼	06/23/22 17:41	06/26/22 00:54	5

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: SB80-SO-01
Date Collected: 06/09/22 11:30
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-3
Matrix: Solid
Percent Solids: 98.4

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Benzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Bromodichloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Bromoform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Bromomethane	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
2-Butanone (MEK)	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Carbon disulfide	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Carbon tetrachloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Chlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Chloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Chloroform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Chloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Dibromochloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Ethylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
2-Hexanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Isopropylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Methylene Chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
4-Methyl-2-pentanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Methyl tert-butyl ether	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Styrene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Tetrachloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Toluene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Trichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Vinyl chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Xylenes, Total	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Cyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Methyl acetate	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1
Methylcyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 15:42	1

Client Sample ID: SB80-SO-01

Date Collected: 06/09/22 11:30
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-3

Matrix: Solid
Percent Solids: 98.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*65 - 130*	*06/10/22 10:05*	*06/16/22 15:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 130*	*06/10/22 10:05*	*06/16/22 15:42*	*1*
Dibromofluoromethane (Surr)	*100*		*65 - 130*	*06/10/22 10:05*	*06/16/22 15:42*	*1*
4-Bromofluorobenzene (Surr)	*109*		*65 - 130*	*06/10/22 10:05*	*06/16/22 15:42*	*1*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<16		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Acenaphthylene	<16		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Acetophenone	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Anthracene	<16		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Atrazine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Benzaldehyde	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Benzo[a]anthracene	<16		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Benzo[a]pyrene	<6.7		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Benzo[b]fluoranthene	**74**		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Benzo[g,h,i]perylene	**39**		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Benzo[k]fluoranthene	**21**		9.7		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
1,1'-Biphenyl	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Bis(2-chloroethoxy)methane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Bis(2-chloroethyl)ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Bis(2-ethylhexyl) phthalate	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
4-Bromophenyl phenyl ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Butyl benzyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Caprolactam	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Carbazole	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
4-Chloroaniline	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
4-Chloro-3-methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2-Chloronaphthalene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2-Chlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
4-Chlorophenyl phenyl ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Chrysene	**33**		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Dibenz(a,h)anthracene	<16		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Dibenzofuran	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
3,3'-Dichlorobenzidine	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2,4-Dichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Diethyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2,4-Dimethylphenol	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Dimethyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Di-n-butyl phthalate	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
4,6-Dinitro-2-methylphenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2,4-Dinitrophenol	<660		660		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2,4-Dinitrotoluene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2,6-Dinitrotoluene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Di-n-octyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Fluoranthene	**42**		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Fluorene	<16		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Hexachlorobenzene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Hexachlorobutadiene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Hexachlorocyclopentadiene	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5

Client Sample ID: SB80-SO-01
Date Collected: 06/09/22 11:30
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-3
Matrix: Solid
Percent Solids: 98.4

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Indeno[1,2,3-cd]pyrene	<16		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Isophorone	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2-Methylnaphthalene	<16		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2-Methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
3 & 4 Methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Naphthalene	<16		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
3-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
4-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Nitrobenzene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2-Nitrophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
4-Nitrophenol	<350		350		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
N-Nitrosodi-n-propylamine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
N-Nitrosodiphenylamine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2,2'-oxybis[1-chloropropane]	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Pentachlorophenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Phenanthrene	<12		12		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Phenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
Pyrene	**50**		16		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2,4,5-Trichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5
2,4,6-Trichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 17:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*11 - 130*	*06/10/22 15:30*	*06/16/22 17:50*	*5*
2-Fluorophenol (Surr)	*76*		*10 - 130*	*06/10/22 15:30*	*06/16/22 17:50*	*5*
Nitrobenzene-d5 (Surr)	*66*		*18 - 130*	*06/10/22 15:30*	*06/16/22 17:50*	*5*
Phenol-d5 (Surr)	*72*		*10 - 130*	*06/10/22 15:30*	*06/16/22 17:50*	*5*
Terphenyl-d14 (Surr)	*101*		*27 - 130*	*06/10/22 15:30*	*06/16/22 17:50*	*5*
2,4,6-Tribromophenol (Surr)	*102*		*24 - 130*	*06/10/22 15:30*	*06/16/22 17:50*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
alpha-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
beta-BHC	<1.6		1.6		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
Chlordane (technical)	<15		15		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
4,4'-DDD	<0.87		0.87		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
4,4'-DDE	<0.87		0.87		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
4,4'-DDT	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
delta-BHC	<0.92		0.92		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
Dieldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
Endosulfan I	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
Endosulfan II	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
Endosulfan sulfate	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
Endrin	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
Endrin aldehyde	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
Endrin ketone	<0.97	*+	0.97		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
gamma-BHC (Lindane)	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
Heptachlor	<0.92		0.92		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10

Client Sample ID: SB80-SO-01

Date Collected: 06/09/22 11:30
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-3

Matrix: Solid
Percent Solids: 98.4

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
Methoxychlor	<1.4		1.4		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
PCB-1016	<53		53		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
PCB-1221	<53		53		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
PCB-1232	<53		53		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
PCB-1242	<53		53		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
PCB-1248	<53		53		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
PCB-1254	<53		53		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
PCB-1260	<46		46		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10
Toxaphene	<85		85		ug/Kg	☼	06/10/22 11:12	06/13/22 20:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*25 - 138*	*06/10/22 11:12*	*06/13/22 20:52*	*10*
Tetrachloro-m-xylene	*0*	*D*	*22 - 130*	*06/10/22 11:12*	*06/13/22 20:52*	*10*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8700**		10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Antimony	<1.0		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Arsenic	**2.5**		0.30		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Barium	**55**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Beryllium	**0.13**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Cadmium	**0.050**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Calcium	**2800**		50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Chromium	**14**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Cobalt	**6.3**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Copper	**18**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Iron	**21000**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Lead	**4.3**		0.20		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Magnesium	**5100**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Manganese	**420**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Nickel	**31**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Potassium	**7100**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Selenium	**3.2**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Silver	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Sodium	**90**		40		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Thallium	**0.39**		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Vanadium	**48**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1
Zinc	**55**		2.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.025		0.025		mg/Kg	☼	06/17/22 10:23	06/17/22 19:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	<0.42	^-	0.42		mg/Kg	☼	06/23/22 17:41	06/26/22 00:54	1

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: SB81-SO-01
Date Collected: 06/09/22 10:55
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-4
Matrix: Solid
Percent Solids: 89.8

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Benzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Bromodichloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Bromoform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Bromomethane	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
2-Butanone (MEK)	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Carbon disulfide	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Carbon tetrachloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Chlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Chloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Chloroform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Chloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Dibromochloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Ethylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
2-Hexanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Isopropylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Methylene Chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
4-Methyl-2-pentanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Methyl tert-butyl ether	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Styrene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Tetrachloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Toluene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Trichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Vinyl chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Xylenes, Total	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Cyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Methyl acetate	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1
Methylcyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:06	1

Client Sample ID: SB81-SO-01

Date Collected: 06/09/22 10:55
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-4

Matrix: Solid
Percent Solids: 89.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*65 - 130*	*06/10/22 10:05*	*06/16/22 16:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 130*	*06/10/22 10:05*	*06/16/22 16:06*	*1*
Dibromofluoromethane (Surr)	*101*		*65 - 130*	*06/10/22 10:05*	*06/16/22 16:06*	*1*
4-Bromofluorobenzene (Surr)	*113*		*65 - 130*	*06/10/22 10:05*	*06/16/22 16:06*	*1*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<36		36		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Acenaphthylene	**1800**		36		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Acetophenone	<74		74		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Anthracene	**1200**		36		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Atrazine	<83		83		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Benzaldehyde	<110		110		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Benzo[a]anthracene	**4700**		36		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Benzo[a]pyrene	**7000**		13		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Benzo[g,h,i]perylene	**2200**		36		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Benzo[k]fluoranthene	**5600**		22		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
1,1'-Biphenyl	<79		79		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Bis(2-chloroethoxy)methane	<71		71		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Bis(2-chloroethyl)ether	<71		71		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Bis(2-ethylhexyl) phthalate	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
4-Bromophenyl phenyl ether	<75		75		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Butyl benzyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Caprolactam	<77		77		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Carbazole	**830**		73		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
4-Chloroaniline	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
4-Chloro-3-methylphenol	<77		77		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2-Chloronaphthalene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2-Chlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
4-Chlorophenyl phenyl ether	<70		70		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Chrysene	**7200**		36		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Dibenz(a,h)anthracene	**830**		36		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Dibenzofuran	**210**		73		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
3,3'-Dichlorobenzidine	<190		190		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2,4-Dichlorophenol	<79		79		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Diethyl phthalate	<81		81		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2,4-Dimethylphenol	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Dimethyl phthalate	<82		82		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Di-n-butyl phthalate	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
4,6-Dinitro-2-methylphenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2,4-Dinitrophenol	<1400		1400		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2,4-Dinitrotoluene	<82		82		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2,6-Dinitrotoluene	<86		86		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Di-n-octyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Fluoranthene	**9300**		36		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Fluorene	**120**		36		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Hexachlorobenzene	<83		83		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Hexachlorobutadiene	<74		74		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Hexachlorocyclopentadiene	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Hexachloroethane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10

Client Sample ID: SB81-SO-01
Date Collected: 06/09/22 10:55
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-4
Matrix: Solid
Percent Solids: 89.8

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**1200**		36		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Isophorone	<77		77		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2-Methylnaphthalene	**220**		36		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2-Methylphenol	<69		69		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
3 & 4 Methylphenol	<80		80		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Naphthalene	**340**		36		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
3-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
4-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Nitrobenzene	<72		72		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2-Nitrophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
4-Nitrophenol	<800		800		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
N-Nitrosodi-n-propylamine	<82		82		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
N-Nitrosodiphenylamine	<67		67		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2,2'-oxybis[1-chloropropane]	<79		79		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Pentachlorophenol	**2000**		730		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Phenanthrene	**2200**		26		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Phenol	<71		71		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
Pyrene	**12000**		36		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2,4,5-Trichlorophenol	<83		83		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10
2,4,6-Trichlorophenol	<86		86		ug/Kg	☼	06/10/22 15:30	06/16/22 18:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*D*	*11 - 130*	*06/10/22 15:30*	*06/16/22 18:13*	*10*
2-Fluorophenol (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/16/22 18:13*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*18 - 130*	*06/10/22 15:30*	*06/16/22 18:13*	*10*
Phenol-d5 (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/16/22 18:13*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*27 - 130*	*06/10/22 15:30*	*06/16/22 18:13*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*24 - 130*	*06/10/22 15:30*	*06/16/22 18:13*	*10*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**17000**		72		ug/Kg	☼	06/10/22 15:30	06/16/22 18:37	20

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
alpha-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
beta-BHC	<1.9		1.9		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
Chlordane (technical)	<16		16		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
4,4'-DDD	<0.98		0.98		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
4,4'-DDE	<0.98		0.98		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
4,4'-DDT	<1.2		1.2		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
delta-BHC	<1.0		1.0		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
Dieldrin	<0.93		0.93		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
Endosulfan I	<0.93		0.93		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
Endosulfan II	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
Endosulfan sulfate	<1.2		1.2		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
Endrin	<1.2		1.2		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
Endrin aldehyde	<1.2		1.2		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10

Client Sample ID: SB81-SO-01
Date Collected: 06/09/22 10:55
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-4
Matrix: Solid
Percent Solids: 89.8

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	**45**	*+	1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
gamma-BHC (Lindane)	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
Heptachlor	<1.0		1.0		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
Heptachlor epoxide	<0.87		0.87		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
Methoxychlor	<1.5		1.5		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
PCB-1016	<60		60		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
PCB-1221	<60		60		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
PCB-1232	<60		60		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
PCB-1242	<60		60		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
PCB-1248	<60		60		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
PCB-1254	<60		60		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
PCB-1260	<52		52		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10
Toxaphene	<85		85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*25 - 138*	*06/10/22 11:12*	*06/13/22 21:08*	*10*
Tetrachloro-m-xylene	*0*	*D*	*22 - 130*	*06/10/22 11:12*	*06/13/22 21:08*	*10*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5200**		10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Antimony	<1.0		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Arsenic	**10**		0.30		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Barium	**32**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Beryllium	**0.18**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Cadmium	**0.21**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Calcium	**1400**		50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Chromium	**9.0**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Cobalt	**1.6**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Copper	**32**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Iron	**7900**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Lead	**51**		0.20		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Magnesium	**350**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Manganese	**84**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Nickel	**5.9**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Potassium	**200**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Selenium	**1.1**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Silver	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Sodium	<40		40		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Thallium	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Vanadium	**18**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1
Zinc	**37**		2.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.072**		0.025		mg/Kg	☼	06/17/22 10:23	06/17/22 19:47	1

Client Sample ID: SB81-SO-01

Lab Sample ID: 680-216698-4
Date Collected: 06/09/22 10:55
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 89.8

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	2.8	^-	0.75		mg/Kg	☼	06/23/22 17:41	06/26/22 00:54	5

Client Sample ID: SB82-SO-01

Lab Sample ID: 680-216698-5
Date Collected: 06/09/22 10:30
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Benzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Bromodichloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Bromoform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Bromomethane	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
2-Butanone (MEK)	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Carbon disulfide	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Carbon tetrachloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Chlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Chloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Chloroform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Chloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Dibromochloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Ethylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
2-Hexanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Isopropylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Methylene Chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
4-Methyl-2-pentanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Methyl tert-butyl ether	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Styrene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Tetrachloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Toluene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Trichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1

Client Sample ID: SB82-SO-01
Date Collected: 06/09/22 10:30
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-5
Matrix: Solid
Percent Solids: 97.1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Vinyl chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Xylenes, Total	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Cyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Methyl acetate	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1
Methylcyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*65 - 130*	*06/10/22 10:05*	*06/16/22 16:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 130*	*06/10/22 10:05*	*06/16/22 16:31*	*1*
Dibromofluoromethane (Surr)	*100*		*65 - 130*	*06/10/22 10:05*	*06/16/22 16:31*	*1*
4-Bromofluorobenzene (Surr)	*110*		*65 - 130*	*06/10/22 10:05*	*06/16/22 16:31*	*1*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<17		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Acenaphthylene	**440**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Acetophenone	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Anthracene	**380**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Atrazine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Benzaldehyde	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Benzo[a]anthracene	**790**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Benzo[a]pyrene	**1100**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Benzo[b]fluoranthene	**3200**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Benzo[g,h,i]perylene	**570**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Benzo[k]fluoranthene	**1200**		10		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
1,1'-Biphenyl	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Bis(2-chloroethoxy)methane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Bis(2-chloroethyl)ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Bis(2-ethylhexyl) phthalate	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
4-Bromophenyl phenyl ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Butyl benzyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Caprolactam	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Carbazole	**230**		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
4-Chloroaniline	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
4-Chloro-3-methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
2-Chloronaphthalene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
2-Chlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
4-Chlorophenyl phenyl ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Chrysene	**1500**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Dibenz(a,h)anthracene	<17		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Dibenzofuran	**86**		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
3,3'-Dichlorobenzidine	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
2,4-Dichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Diethyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
2,4-Dimethylphenol	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Dimethyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Di-n-butyl phthalate	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
4,6-Dinitro-2-methylphenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
2,4-Dinitrophenol	<660		660		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5

Client Sample ID: SB82-SO-01
Date Collected: 06/09/22 10:30
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-5
Matrix: Solid
Percent Solids: 97.1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
2,6-Dinitrotoluene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Di-n-octyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Fluoranthene	**2100**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Fluorene	<17		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Hexachlorobenzene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Hexachlorobutadiene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Hexachlorocyclopentadiene	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Hexachloroethane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Indeno[1,2,3-cd]pyrene	**310**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Isophorone	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
2-Methylnaphthalene	**69**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
2-Methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
3 & 4 Methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Naphthalene	**120**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
2-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
3-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
4-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Nitrobenzene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
2-Nitrophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
4-Nitrophenol	<370		370		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
N-Nitrosodi-n-propylamine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
N-Nitrosodiphenylamine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
2,2'-oxybis[1-chloropropane]	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Pentachlorophenol	**1800**		340		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Phenanthrene	**350**		12		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Phenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
Pyrene	**2500**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
2,4,5-Trichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5
2,4,6-Trichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 19:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*11 - 130*	*06/10/22 15:30*	*06/16/22 19:00*	*5*
2-Fluorophenol (Surr)	*66*		*10 - 130*	*06/10/22 15:30*	*06/16/22 19:00*	*5*
Nitrobenzene-d5 (Surr)	*59*		*18 - 130*	*06/10/22 15:30*	*06/16/22 19:00*	*5*
Phenol-d5 (Surr)	*68*		*10 - 130*	*06/10/22 15:30*	*06/16/22 19:00*	*5*
Terphenyl-d14 (Surr)	*108*		*27 - 130*	*06/10/22 15:30*	*06/16/22 19:00*	*5*
2,4,6-Tribromophenol (Surr)	*116*		*24 - 130*	*06/10/22 15:30*	*06/16/22 19:00*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
alpha-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
beta-BHC	<1.7		1.7		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
Chlordane (technical)	<15		15		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
4,4'-DDD	<0.88		0.88		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
4,4'-DDE	<0.88		0.88		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
4,4'-DDT	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
delta-BHC	<0.93		0.93		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
Dieldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10

Client Sample ID: SB82-SO-01

Date Collected: 06/09/22 10:30
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-5

Matrix: Solid
Percent Solids: 97.1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
Endosulfan II	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
Endosulfan sulfate	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
Endrin	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
Endrin aldehyde	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
Endrin ketone	**17**	*+	0.97		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
gamma-BHC (Lindane)	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
Heptachlor	<0.93		0.93		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
Heptachlor epoxide	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
Methoxychlor	<1.4		1.4		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
PCB-1016	<54		54		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
PCB-1221	<54		54		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
PCB-1232	<54		54		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
PCB-1242	<54		54		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
PCB-1248	<54		54		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
PCB-1254	<54		54		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
PCB-1260	<47		47		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10
Toxaphene	<85		85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*25 - 138*	*06/10/22 11:12*	*06/13/22 21:24*	*10*
Tetrachloro-m-xylene	*0*	*D*	*22 - 130*	*06/10/22 11:12*	*06/13/22 21:24*	*10*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8600**		10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Antimony	<1.0		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Arsenic	**2.1**		0.30		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Barium	**23**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Beryllium	**0.14**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Cadmium	<0.050		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Calcium	**550**		50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Chromium	**9.0**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Cobalt	**0.85**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Copper	**3.1**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Iron	**3900**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Lead	**8.0**		0.20		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Magnesium	**410**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Manganese	**24**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Nickel	**2.4**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Potassium	**270**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Selenium	**1.0**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Silver	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Sodium	<40		40		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Thallium	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Vanadium	**13**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1
Zinc	**6.3**		2.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:47	1

Client Sample ID: SB82-SO-01

Lab Sample ID: 680-216698-5

Date Collected: 06/09/22 10:30
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.025		mg/Kg	☼	06/17/22 10:23	06/17/22 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	1.5	^-	0.42		mg/Kg	☼	06/23/22 17:41	06/26/22 00:54	1

Client Sample ID: SB83-SO-01

Lab Sample ID: 680-216698-6

Date Collected: 06/09/22 09:35
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 91.2

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Benzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Bromodichloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Bromoform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Bromomethane	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
2-Butanone (MEK)	<25		25		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Carbon disulfide	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Carbon tetrachloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Chlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Chloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Chloroform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Chloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Dibromochloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Ethylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
2-Hexanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Isopropylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Methylene Chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
4-Methyl-2-pentanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Methyl tert-butyl ether	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Styrene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Tetrachloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Toluene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1

Client Sample ID: SB83-SO-01
Date Collected: 06/09/22 09:35
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-6
Matrix: Solid
Percent Solids: 91.2

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Trichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Vinyl chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Xylenes, Total	<10		10		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Cyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Methyl acetate	<25		25		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1
Methylcyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*65 - 130*	*06/10/22 10:05*	*06/17/22 19:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 130*	*06/10/22 10:05*	*06/17/22 19:11*	*1*
Dibromofluoromethane (Surr)	*100*		*65 - 130*	*06/10/22 10:05*	*06/17/22 19:11*	*1*
4-Bromofluorobenzene (Surr)	*117*		*65 - 130*	*06/10/22 10:05*	*06/17/22 19:11*	*1*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<180		180		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Acenaphthylene	**7800**		180		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Acetophenone	<360		360		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Anthracene	**6900**		180		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Atrazine	<410	F1	410		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Benzaldehyde	<530	F1	530		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Benzo[a]anthracene	**29000**		180		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Benzo[a]pyrene	**48000**		64		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Benzo[g,h,i]perylene	**9600**		180		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Benzo[k]fluoranthene	**27000**		110		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
1,1'-Biphenyl	<390		390		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Bis(2-chloroethoxy)methane	<350		350		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Bis(2-chloroethyl)ether	<350	F1	350		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Bis(2-ethylhexyl) phthalate	<320		320		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
4-Bromophenyl phenyl ether	<370		370		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Butyl benzyl phthalate	<290		290		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Caprolactam	<380	F1	380		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Carbazole	**4000**		360		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
4-Chloroaniline	<280	F1	280		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
4-Chloro-3-methylphenol	<380		380		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2-Chloronaphthalene	<320		320		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2-Chlorophenol	<280		280		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
4-Chlorophenyl phenyl ether	<340		340		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Chrysene	**38000**		180		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Dibenz(a,h)anthracene	**5700**		180		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Dibenzofuran	**900**		360		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
3,3'-Dichlorobenzidine	<910	F1	910		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2,4-Dichlorophenol	<390		390		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Diethyl phthalate	<400		400		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2,4-Dimethylphenol	<410		410		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Dimethyl phthalate	<400		400		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50

Client Sample ID: SB83-SO-01
Date Collected: 06/09/22 09:35
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-6
Matrix: Solid
Percent Solids: 91.2

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<910		910		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
4,6-Dinitro-2-methylphenol	<910	F1	910		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2,4-Dinitrophenol	<7000		7000		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2,6-Dinitrotoluene	<420		420		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Di-n-octyl phthalate	<190		190		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Fluoranthene	**45000**		180		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Fluorene	**480**		180		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Hexachlorobenzene	<410		410		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Hexachlorobutadiene	<360		360		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Hexachlorocyclopentadiene	<200	F1	200		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Hexachloroethane	<310		310		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Indeno[1,2,3-cd]pyrene	**12000**		180		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Isophorone	<380		380		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2-Methylnaphthalene	**770**		180		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2-Methylphenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
3 & 4 Methylphenol	<390		390		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Naphthalene	**1800**	**F1**	180		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2-Nitroaniline	<380		380		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
3-Nitroaniline	<360	F1	360		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
4-Nitroaniline	<440	F1	440		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Nitrobenzene	<350	F2	350		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2-Nitrophenol	<310		310		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
4-Nitrophenol	<3900		3900		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
N-Nitrosodi-n-propylamine	<400	F1	400		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
N-Nitrosodiphenylamine	<330		330		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2,2'-oxybis[1-chloropropane]	<390	F1	390		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Pentachlorophenol	**22000**		3600		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Phenanthrene	**4800**		130		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Phenol	<350		350		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
Pyrene	**52000**		180		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2,4,5-Trichlorophenol	<410		410		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50
2,4,6-Trichlorophenol	<420		420		ug/Kg	☼	06/10/22 15:30	06/19/22 23:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*D*	*11 - 130*	*06/10/22 15:30*	*06/19/22 23:55*	*50*
2-Fluorophenol (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/19/22 23:55*	*50*
Nitrobenzene-d5 (Surr)	*0*	*D*	*18 - 130*	*06/10/22 15:30*	*06/19/22 23:55*	*50*
Phenol-d5 (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/19/22 23:55*	*50*
Terphenyl-d14 (Surr)	*0*	*D*	*27 - 130*	*06/10/22 15:30*	*06/19/22 23:55*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*24 - 130*	*06/10/22 15:30*	*06/19/22 23:55*	*50*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**100000**		350		ug/Kg	☼	06/10/22 15:30	06/20/22 00:18	100

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
alpha-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10

Client Sample ID: SB83-SO-01
Date Collected: 06/09/22 09:35
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-6
Matrix: Solid
Percent Solids: 91.2

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<1.8		1.8		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
Chlordane (technical)	<16		16		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
4,4'-DDD	<0.94		0.94		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
4,4'-DDE	<0.94		0.94		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
4,4'-DDT	<1.2		1.2		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
delta-BHC	<1.0		1.0		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
Dieldrin	<0.89		0.89		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
Endosulfan I	<0.89		0.89		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
Endosulfan II	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
Endosulfan sulfate	<1.2		1.2		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
Endrin	<1.2		1.2		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
Endrin aldehyde	<1.2		1.2		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
Endrin ketone	**92**	**p *+**	1.0		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
gamma-BHC (Lindane)	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
Heptachlor	<1.0		1.0		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
Heptachlor epoxide	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
Methoxychlor	<1.5		1.5		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
PCB-1016	<58		58		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
PCB-1221	<58		58		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
PCB-1232	<58		58		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
PCB-1242	<58		58		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
PCB-1248	<58		58		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
PCB-1254	<58		58		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
PCB-1260	<50		50		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10
Toxaphene	<85		85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*D*	*25 - 138*	*06/10/22 11:12*	*06/13/22 21:39*	*10*
Tetrachloro-m-xylene	*0*	*D*	*22 - 130*	*06/10/22 11:12*	*06/13/22 21:39*	*10*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1200**	**F1**	10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Antimony	<1.0		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Arsenic	**4.3**	**F1**	0.30		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Barium	**4.7**	**F1**	0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Beryllium	<0.050		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Cadmium	<0.050		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Calcium	<50	F1	50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Chromium	**2.2**	**F1**	1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Cobalt	**0.15**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Copper	**3.9**	**F1**	0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Iron	**1400**	**F1**	25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Lead	**4.4**	**F1**	0.20		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Magnesium	**35**	**F1**	25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Manganese	**10**	**F1**	1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Nickel	<1.0	F1	1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Potassium	<25		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Selenium	<0.50		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1

Client Sample ID: SB83-SO-01

Lab Sample ID: 680-216698-6

Date Collected: 06/09/22 09:35
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 91.2

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Sodium	<40		40		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Thallium	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Vanadium	**4.2**	**F1**	0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1
Zinc	**2.2**	**F1**	2.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:18	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.49**		0.041		mg/Kg	☼	06/10/22 17:21	06/13/22 19:16	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	<0.60		0.60		mg/Kg	☼	06/28/22 18:09	06/28/22 22:28	4

Client Sample ID: SB84-SO-01

Lab Sample ID: 680-216698-7

Date Collected: 06/09/22 09:10
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 98.0

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Benzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Bromodichloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Bromoform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Bromomethane	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
2-Butanone (MEK)	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Carbon disulfide	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Carbon tetrachloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Chlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Chloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Chloroform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Chloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Dibromochloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Ethylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
2-Hexanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Isopropylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1

Client Sample ID: SB84-SO-01
Date Collected: 06/09/22 09:10
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-7
Matrix: Solid
Percent Solids: 98.0

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
4-Methyl-2-pentanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Methyl tert-butyl ether	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Styrene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Tetrachloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Toluene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Trichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Vinyl chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Xylenes, Total	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Cyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Methyl acetate	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1
Methylcyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*65 - 130*	*06/10/22 10:05*	*06/16/22 16:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 130*	*06/10/22 10:05*	*06/16/22 16:55*	*1*
Dibromofluoromethane (Surr)	*100*		*65 - 130*	*06/10/22 10:05*	*06/16/22 16:55*	*1*
4-Bromofluorobenzene (Surr)	*109*		*65 - 130*	*06/10/22 10:05*	*06/16/22 16:55*	*1*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.7		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Acenaphthylene	**130**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Acetophenone	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Anthracene	**150**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Atrazine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Benzaldehyde	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Benzo[a]anthracene	**180**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Benzo[a]pyrene	**320**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Benzo[b]fluoranthene	**760**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Benzo[g,h,i]perylene	**170**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Benzo[k]fluoranthene	**230**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
1,1'-Biphenyl	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Bis(2-chloroethoxy)methane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Bis(2-chloroethyl)ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Bis(2-ethylhexyl) phthalate	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
4-Bromophenyl phenyl ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Butyl benzyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Caprolactam	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Carbazole	**80**		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
4-Chloroaniline	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
4-Chloro-3-methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2-Chloronaphthalene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2-Chlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2

Client Sample ID: SB84-SO-01
Date Collected: 06/09/22 09:10
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-7
Matrix: Solid
Percent Solids: 98.0

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Chrysene	**270**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Dibenz(a,h)anthracene	**61**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Dibenzofuran	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
3,3'-Dichlorobenzidine	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2,4-Dichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Diethyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2,4-Dimethylphenol	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Dimethyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Di-n-butyl phthalate	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
4,6-Dinitro-2-methylphenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2,4-Dinitrophenol	<660		660		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2,4-Dinitrotoluene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2,6-Dinitrotoluene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Di-n-octyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Fluoranthene	**320**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Fluorene	<6.7		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Hexachlorobenzene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Hexachlorobutadiene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Hexachlorocyclopentadiene	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Hexachloroethane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Indeno[1,2,3-cd]pyrene	**83**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Isophorone	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2-Methylnaphthalene	**23**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2-Methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
3 & 4 Methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Naphthalene	**41**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
3-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
4-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Nitrobenzene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2-Nitrophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
4-Nitrophenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
N-Nitrosodi-n-propylamine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
N-Nitrosodiphenylamine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2,2'-oxybis[1-chloropropane]	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Pentachlorophenol	**770**		340		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Phenanthrene	**100**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Phenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
Pyrene	**380**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2,4,5-Trichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2
2,4,6-Trichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:10	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*45*		*11 - 130*	*06/10/22 15:30*	*06/16/22 20:10*	*2*
2-Fluorophenol (Surr)	*31*		*10 - 130*	*06/10/22 15:30*	*06/16/22 20:10*	*2*
Nitrobenzene-d5 (Surr)	*32*		*18 - 130*	*06/10/22 15:30*	*06/16/22 20:10*	*2*
Phenol-d5 (Surr)	*37*		*10 - 130*	*06/10/22 15:30*	*06/16/22 20:10*	*2*
Terphenyl-d14 (Surr)	*67*		*27 - 130*	*06/10/22 15:30*	*06/16/22 20:10*	*2*
2,4,6-Tribromophenol (Surr)	*65*		*24 - 130*	*06/10/22 15:30*	*06/16/22 20:10*	*2*

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: SB84-SO-01
Date Collected: 06/09/22 09:10
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-7
Matrix: Solid
Percent Solids: 98.0

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
alpha-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
beta-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
Chlordane (technical)	<8.5		8.5		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
4,4'-DDD	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
4,4'-DDE	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
4,4'-DDT	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
delta-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
Dieldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
Endosulfan I	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
Endosulfan II	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
Endosulfan sulfate	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
Endrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
Endrin aldehyde	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
Endrin ketone	<0.85	*+	0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
gamma-BHC (Lindane)	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
Heptachlor	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
Heptachlor epoxide	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
Methoxychlor	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
PCB-1016	<27		27		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
PCB-1221	<27		27		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
PCB-1232	<27		27		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
PCB-1242	<27		27		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
PCB-1248	<27		27		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
PCB-1254	<27		27		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
PCB-1260	<23		23		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5
Toxaphene	<85		85		ug/Kg	☼	06/10/22 11:12	06/13/22 21:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*130*	*p*	*25 - 138*	*06/10/22 11:12*	*06/13/22 21:55*	*5*
Tetrachloro-m-xylene	*82*		*22 - 130*	*06/10/22 11:12*	*06/13/22 21:55*	*5*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2500**		10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Antimony	<1.0		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Arsenic	**1.2**		0.30		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Barium	**8.2**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Beryllium	**0.077**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Cadmium	<0.050		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Calcium	**360**		50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Chromium	**2.9**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Cobalt	**0.37**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Copper	**4.4**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Iron	**1300**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Lead	**5.1**		0.20		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Magnesium	**82**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Manganese	**13**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Nickel	**2.0**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Potassium	**70**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1

Client Sample ID: SB84-SO-01

Lab Sample ID: 680-216698-7

Date Collected: 06/09/22 09:10

Matrix: Solid

Date Received: 06/09/22 14:53

Percent Solids: 98.0

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.76**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Silver	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Sodium	<40		40		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Thallium	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Vanadium	**3.3**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1
Zinc	**8.1**		2.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.025		mg/Kg	☼	06/17/22 10:23	06/17/22 20:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	<0.72	^-	0.72		mg/Kg	☼	06/23/22 17:41	06/26/22 00:54	5

Client Sample ID: SB85-SO-01

Lab Sample ID: 680-216698-8

Date Collected: 06/09/22 08:55

Matrix: Solid

Date Received: 06/09/22 14:53

Percent Solids: 97.0

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Benzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Bromodichloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Bromoform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Bromomethane	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
2-Butanone (MEK)	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Carbon disulfide	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Carbon tetrachloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Chlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Chloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Chloroform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Chloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Dibromochloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Ethylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
2-Hexanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1

Client Sample ID: SB85-SO-01
Date Collected: 06/09/22 08:55
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-8
Matrix: Solid
Percent Solids: 97.0

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Methylene Chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
4-Methyl-2-pentanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Methyl tert-butyl ether	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Styrene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Tetrachloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Toluene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Trichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Vinyl chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Xylenes, Total	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Cyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Methyl acetate	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1
Methylcyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*65 - 130*	*06/10/22 10:05*	*06/16/22 17:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 130*	*06/10/22 10:05*	*06/16/22 17:19*	*1*
Dibromofluoromethane (Surr)	*101*		*65 - 130*	*06/10/22 10:05*	*06/16/22 17:19*	*1*
4-Bromofluorobenzene (Surr)	*115*		*65 - 130*	*06/10/22 10:05*	*06/16/22 17:19*	*1*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<160		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Acenaphthylene	**4400**		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Acetophenone	<340		340		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Anthracene	**3500**		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Atrazine	<380		380		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Benzaldehyde	<490		490		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Benzo[a]anthracene	**1700**		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Benzo[a]pyrene	**3500**		60		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Benzo[b]fluoranthene	**10000**		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Benzo[g,h,i]perylene	**6600**		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Benzo[k]fluoranthene	**4000**		100		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
1,1'-Biphenyl	<360		360		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Bis(2-chloroethoxy)methane	<320		320		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Bis(2-chloroethyl)ether	<320		320		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Bis(2-ethylhexyl) phthalate	<300		300		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
4-Bromophenyl phenyl ether	<340		340		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Butyl benzyl phthalate	<270		270		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Caprolactam	<350		350		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Carbazole	**1500**		330		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
4-Chloroaniline	<260		260		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
4-Chloro-3-methylphenol	<350		350		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
2-Chloronaphthalene	<300		300		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50

Client Sample ID: SB85-SO-01
Date Collected: 06/09/22 08:55
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-8
Matrix: Solid
Percent Solids: 97.0

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<260		260		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
4-Chlorophenyl phenyl ether	<320		320		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Chrysene	**3100**		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Dibenz(a,h)anthracene	**2200**		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Dibenzofuran	**460**		330		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
3,3'-Dichlorobenzidine	<850		850		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
2,4-Dichlorophenol	<360		360		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Diethyl phthalate	<370		370		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
2,4-Dimethylphenol	<380		380		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Dimethyl phthalate	<370		370		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Di-n-butyl phthalate	<850		850		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
4,6-Dinitro-2-methylphenol	<850		850		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
2,4-Dinitrophenol	<6500		6500		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
2,4-Dinitrotoluene	<370		370		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
2,6-Dinitrotoluene	<390		390		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Di-n-octyl phthalate	<180		180		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Fluoranthene	**2600**		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Fluorene	<160		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Hexachlorobenzene	<380		380		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Hexachlorobutadiene	<340		340		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Hexachlorocyclopentadiene	<180		180		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Hexachloroethane	<290		290		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Indeno[1,2,3-cd]pyrene	**6500**		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Isophorone	<350		350		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
2-Methylnaphthalene	**540**		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
2-Methylphenol	<310		310		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
3 & 4 Methylphenol	<360		360		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Naphthalene	**2000**		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
2-Nitroaniline	<350		350		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
3-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
4-Nitroaniline	<410		410		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Nitrobenzene	<330		330		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
2-Nitrophenol	<290		290		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
4-Nitrophenol	<3600		3600		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
N-Nitrosodi-n-propylamine	<370		370		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
N-Nitrosodiphenylamine	<300		300		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
2,2'-oxybis[1-chloropropane]	<360		360		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Pentachlorophenol	**5700**		3300		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Phenanthrene	**1100**		120		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Phenol	<320		320		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
Pyrene	**3800**		160		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
2,4,5-Trichlorophenol	<380		380		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50
2,4,6-Trichlorophenol	<390		390		ug/Kg	☼	06/10/22 15:30	06/20/22 00:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*D*	*11 - 130*	*06/10/22 15:30*	*06/20/22 00:41*	*50*
2-Fluorophenol (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/20/22 00:41*	*50*
Nitrobenzene-d5 (Surr)	*0*	*D*	*18 - 130*	*06/10/22 15:30*	*06/20/22 00:41*	*50*
Phenol-d5 (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/20/22 00:41*	*50*
Terphenyl-d14 (Surr)	*0*	*D*	*27 - 130*	*06/10/22 15:30*	*06/20/22 00:41*	*50*

Client Sample ID: SB85-SO-01

Date Collected: 06/09/22 08:55
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-8

Matrix: Solid
Percent Solids: 97.0

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*24 - 130*	*06/10/22 15:30*	*06/20/22 00:41*	*50*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
alpha-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
beta-BHC	<1.7		1.7		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
Chlordane (technical)	<15		15		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
4,4'-DDD	<0.92		0.92		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
4,4'-DDE	<0.92		0.92		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
4,4'-DDT	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
delta-BHC	<0.97		0.97		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
Dieldrin	<0.87		0.87		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
Endosulfan I	<0.87		0.87		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
Endosulfan II	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
Endosulfan sulfate	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
Endrin	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
Endrin aldehyde	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
Endrin ketone	<1.0	*+	1.0		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
gamma-BHC (Lindane)	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
Heptachlor	<0.97		0.97		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
Heptachlor epoxide	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
Methoxychlor	<1.4		1.4		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
PCB-1016	<56		56		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
PCB-1221	<56		56		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
PCB-1232	<56		56		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
PCB-1242	<56		56		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
PCB-1248	<56		56		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
PCB-1254	<56		56		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
PCB-1260	<49		49		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10
Toxaphene	<85		85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*172*	*p S1+*	*25 - 138*	*06/10/22 11:12*	*06/13/22 22:11*	*10*
Tetrachloro-m-xylene	*103*	*p*	*22 - 130*	*06/10/22 11:12*	*06/13/22 22:11*	*10*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2100**		10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Antimony	<1.0		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Arsenic	**2.8**		0.30		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Barium	**22**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Beryllium	**0.12**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Cadmium	**0.071**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Calcium	**740**		50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Chromium	**3.2**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Cobalt	**0.59**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Copper	**7.5**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Iron	**2700**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Lead	**11**		0.20		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1

Client Sample ID: SB85-SO-01

Lab Sample ID: 680-216698-8

Date Collected: 06/09/22 08:55
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.0

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**98**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Manganese	**20**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Nickel	**3.5**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Potassium	**77**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Selenium	**1.1**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Silver	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Sodium	<40		40		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Thallium	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Vanadium	**6.5**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1
Zinc	**14**		2.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.089**	**F1 F2**	0.025		mg/Kg	☼	06/17/22 16:42	06/20/22 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	<1.4		1.4		mg/Kg	☼	06/28/22 18:09	06/28/22 22:28	10

Client Sample ID: SB86-SO-01

Lab Sample ID: 680-216698-9

Date Collected: 06/09/22 08:25
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.3

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Benzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Bromodichloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Bromoform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Bromomethane	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
2-Butanone (MEK)	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Carbon disulfide	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Carbon tetrachloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Chlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Chloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Chloroform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Chloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Dibromochloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1

Client Sample ID: SB86-SO-01
Date Collected: 06/09/22 08:25
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-9
Matrix: Solid
Percent Solids: 97.3

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Ethylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
2-Hexanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Isopropylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Methylene Chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
4-Methyl-2-pentanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Methyl tert-butyl ether	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Styrene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Tetrachloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Toluene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Trichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Vinyl chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Xylenes, Total	<10		10		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Cyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Methyl acetate	<25		25		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1
Methylcyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/16/22 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*65 - 130*	*06/10/22 10:05*	*06/16/22 17:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 130*	*06/10/22 10:05*	*06/16/22 17:44*	*1*
Dibromofluoromethane (Surr)	*100*		*65 - 130*	*06/10/22 10:05*	*06/16/22 17:44*	*1*
4-Bromofluorobenzene (Surr)	*113*		*65 - 130*	*06/10/22 10:05*	*06/16/22 17:44*	*1*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**70**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Acenaphthylene	**1600**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Acetophenone	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Anthracene	**3100**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Atrazine	<74		74		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Benzaldehyde	<97		97		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Benzo[a]anthracene	**1600**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Benzo[a]pyrene	**2100**		12		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Benzo[b]fluoranthene	**7300**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Benzo[g,h,i]perylene	**1800**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Benzo[k]fluoranthene	**2200**		20		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
1,1'-Biphenyl	<70		70		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Bis(2-chloroethoxy)methane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Bis(2-chloroethyl)ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Bis(2-ethylhexyl) phthalate	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
4-Bromophenyl phenyl ether	<67		67		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Butyl benzyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Caprolactam	<68		68		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10

Client Sample ID: SB86-SO-01
Date Collected: 06/09/22 08:25
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-9
Matrix: Solid
Percent Solids: 97.3

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	**550**		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
4-Chloroaniline	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
4-Chloro-3-methylphenol	<68		68		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2-Chloronaphthalene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2-Chlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
4-Chlorophenyl phenyl ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Chrysene	**2500**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Dibenz(a,h)anthracene	**640**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Dibenzofuran	**180**		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
3,3'-Dichlorobenzidine	<170		170		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2,4-Dichlorophenol	<70		70		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Diethyl phthalate	<72		72		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2,4-Dimethylphenol	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Dimethyl phthalate	<73		73		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Di-n-butyl phthalate	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
4,6-Dinitro-2-methylphenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2,4-Dinitrophenol	<1300		1300		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2,4-Dinitrotoluene	<73		73		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2,6-Dinitrotoluene	<77		77		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Di-n-octyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Fluoranthene	**2400**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Fluorene	**160**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Hexachlorobenzene	<74		74		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Hexachlorobutadiene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Hexachlorocyclopentadiene	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Hexachloroethane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Indeno[1,2,3-cd]pyrene	**870**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Isophorone	<68		68		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2-Methylnaphthalene	**160**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2-Methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
3 & 4 Methylphenol	<71		71		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Naphthalene	**350**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
3-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
4-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Nitrobenzene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2-Nitrophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
4-Nitrophenol	<710		710		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
N-Nitrosodi-n-propylamine	<73		73		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
N-Nitrosodiphenylamine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2,2'-oxybis[1-chloropropane]	<70		70		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Pentachlorophenol	**1800**		650		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Phenanthrene	**650**		23		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Phenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
Pyrene	**3400**		32		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2,4,5-Trichlorophenol	<74		74		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10
2,4,6-Trichlorophenol	<77		77		ug/Kg	☼	06/10/22 15:30	06/16/22 20:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*D*	*11 - 130*	*06/10/22 15:30*	*06/16/22 20:56*	*10*

Client Sample ID: SB86-SO-01
Date Collected: 06/09/22 08:25
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-9
Matrix: Solid
Percent Solids: 97.3

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/16/22 20:56*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*18 - 130*	*06/10/22 15:30*	*06/16/22 20:56*	*10*
Phenol-d5 (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/16/22 20:56*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*27 - 130*	*06/10/22 15:30*	*06/16/22 20:56*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*24 - 130*	*06/10/22 15:30*	*06/16/22 20:56*	*10*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
alpha-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
beta-BHC	<0.87		0.87		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
Chlordane (technical)	<8.5		8.5		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
4,4'-DDD	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
4,4'-DDE	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
4,4'-DDT	**2.6**	**p**	0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
delta-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
Dieldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
Endosulfan I	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
Endosulfan II	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
Endosulfan sulfate	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
Endrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
Endrin aldehyde	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
Endrin ketone	**15**	***+**	0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
gamma-BHC (Lindane)	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
Heptachlor	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
Heptachlor epoxide	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
Methoxychlor	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
PCB-1016	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
PCB-1221	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
PCB-1232	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
PCB-1242	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
PCB-1248	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
PCB-1254	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
PCB-1260	<25		25		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5
Toxaphene	<85		85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*200*	*p S1+*	*25 - 138*	*06/10/22 11:12*	*06/13/22 22:27*	*5*
Tetrachloro-m-xylene	*95*		*22 - 130*	*06/10/22 11:12*	*06/13/22 22:27*	*5*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2400**		10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Antimony	<1.0		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Arsenic	**1.8**		0.30		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Barium	**15**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Beryllium	**0.11**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Cadmium	<0.050		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Calcium	**720**		50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Chromium	**3.4**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1

Client Sample ID: SB86-SO-01

Date Collected: 06/09/22 08:25
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-9

Matrix: Solid
Percent Solids: 97.3

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**0.39**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Copper	**5.7**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Iron	**2000**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Lead	**11**		0.20		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Magnesium	**130**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Manganese	**17**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Nickel	**2.3**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Potassium	**95**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Selenium	**1.0**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Silver	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Sodium	<40		40		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Thallium	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Vanadium	**6.9**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1
Zinc	**8.2**		2.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.078**		0.025		mg/Kg	☼	06/17/22 16:42	06/20/22 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	<1.4		1.4		mg/Kg	☼	06/28/22 18:09	06/28/22 22:28	10

Client Sample ID: SB87-SO-01

Date Collected: 06/09/22 08:00
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-10

Matrix: Solid
Percent Solids: 92.5

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Benzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Bromodichloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Bromoform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Bromomethane	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
2-Butanone (MEK)	<25		25		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Carbon disulfide	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Carbon tetrachloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Chlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Chloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Chloroform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Chloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Dibromochloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1

Client Sample ID: SB87-SO-01
Date Collected: 06/09/22 08:00
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-10
Matrix: Solid
Percent Solids: 92.5

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Ethylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
2-Hexanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Isopropylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Methylene Chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
4-Methyl-2-pentanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Methyl tert-butyl ether	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Styrene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Tetrachloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Toluene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Trichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Vinyl chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Xylenes, Total	<10		10		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Cyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Methyl acetate	<25		25		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1
Methylcyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/17/22 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*65 - 130*	*06/10/22 10:05*	*06/17/22 19:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 130*	*06/10/22 10:05*	*06/17/22 19:36*	*1*
Dibromofluoromethane (Surr)	*102*		*65 - 130*	*06/10/22 10:05*	*06/17/22 19:36*	*1*
4-Bromofluorobenzene (Surr)	*116*		*65 - 130*	*06/10/22 10:05*	*06/17/22 19:36*	*1*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<17		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Acenaphthylene	**270**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Acetophenone	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Anthracene	**400**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Atrazine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Benzaldehyde	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Benzo[a]anthracene	**440**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Benzo[a]pyrene	**300**		6.7		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Benzo[b]fluoranthene	**2100**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Benzo[g,h,i]perylene	**350**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Benzo[k]fluoranthene	**840**		10		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
1,1'-Biphenyl	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Bis(2-chloroethoxy)methane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Bis(2-chloroethyl)ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5

Client Sample ID: SB87-SO-01
Date Collected: 06/09/22 08:00
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-10
Matrix: Solid
Percent Solids: 92.5

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
4-Bromophenyl phenyl ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Butyl benzyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Caprolactam	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Carbazole	**110**		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
4-Chloroaniline	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
4-Chloro-3-methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
2-Chloronaphthalene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
2-Chlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
4-Chlorophenyl phenyl ether	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Chrysene	**750**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Dibenz(a,h)anthracene	**150**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Dibenzofuran	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
3,3'-Dichlorobenzidine	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
2,4-Dichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Diethyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
2,4-Dimethylphenol	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Dimethyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Di-n-butyl phthalate	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
4,6-Dinitro-2-methylphenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
2,4-Dinitrophenol	<680		680		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
2,4-Dinitrotoluene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
2,6-Dinitrotoluene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Di-n-octyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Fluoranthene	**330**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Fluorene	<17		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Hexachlorobenzene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Hexachlorobutadiene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Hexachlorocyclopentadiene	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Hexachloroethane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Indeno[1,2,3-cd]pyrene	**190**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Isophorone	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
2-Methylnaphthalene	**48**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
2-Methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
3 & 4 Methylphenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Naphthalene	**110**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
2-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
3-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
4-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Nitrobenzene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
2-Nitrophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
4-Nitrophenol	<380		380		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
N-Nitrosodi-n-propylamine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
N-Nitrosodiphenylamine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
2,2'-oxybis[1-chloropropane]	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Pentachlorophenol	**940**		350		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Phenanthrene	**150**		13		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Phenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
Pyrene	**340**		17		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5

Client Sample ID: SB87-SO-01
Date Collected: 06/09/22 08:00
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-10
Matrix: Solid
Percent Solids: 92.5

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5
2,4,6-Trichlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 21:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*11 - 130*	*06/10/22 15:30*	*06/16/22 21:19*	*5*
2-Fluorophenol (Surr)	*64*		*10 - 130*	*06/10/22 15:30*	*06/16/22 21:19*	*5*
Nitrobenzene-d5 (Surr)	*54*		*18 - 130*	*06/10/22 15:30*	*06/16/22 21:19*	*5*
Phenol-d5 (Surr)	*65*		*10 - 130*	*06/10/22 15:30*	*06/16/22 21:19*	*5*
Terphenyl-d14 (Surr)	*101*		*27 - 130*	*06/10/22 15:30*	*06/16/22 21:19*	*5*
2,4,6-Tribromophenol (Surr)	*106*		*24 - 130*	*06/10/22 15:30*	*06/16/22 21:19*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
alpha-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
beta-BHC	<0.87		0.87		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
Chlordane (technical)	<8.5		8.5		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
4,4'-DDD	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
4,4'-DDE	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
4,4'-DDT	**3.7**	**p**	0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
delta-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
Dieldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
Endosulfan I	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
Endosulfan II	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
Endosulfan sulfate	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
Endrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
Endrin aldehyde	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
Endrin ketone	<0.85	*+	0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
gamma-BHC (Lindane)	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
Heptachlor	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
Heptachlor epoxide	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
Methoxychlor	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
PCB-1016	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
PCB-1221	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
PCB-1232	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
PCB-1242	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
PCB-1248	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
PCB-1254	<28		28		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
PCB-1260	<25		25		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5
Toxaphene	<85		85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*135*	*p*	*25 - 138*	*06/10/22 11:12*	*06/13/22 22:43*	*5*
Tetrachloro-m-xylene	*102*		*22 - 130*	*06/10/22 11:12*	*06/13/22 22:43*	*5*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3200**		10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Antimony	<1.0		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Arsenic	**1.4**		0.30		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1

Client Sample ID: SB87-SO-01

Lab Sample ID: 680-216698-10

Date Collected: 06/09/22 08:00
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 92.5

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**16**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Beryllium	**0.095**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Cadmium	<0.050		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Calcium	**460**		50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Chromium	**4.2**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Cobalt	**0.27**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Copper	**1.5**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Iron	**3000**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Lead	**7.4**		0.20		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Magnesium	**110**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Manganese	**18**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Nickel	**2.1**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Potassium	**120**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Selenium	**0.98**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Silver	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Sodium	<40		40		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Thallium	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Vanadium	**7.7**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1
Zinc	**6.4**		2.0		mg/Kg	☼	06/10/22 11:33	06/11/22 13:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.025		0.025		mg/Kg	☼	06/17/22 16:42	06/20/22 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	<0.79		0.79		mg/Kg	☼	06/28/22 18:09	06/28/22 22:28	5

Client Sample ID: SB88-SO-01

Lab Sample ID: 680-216698-11

Date Collected: 06/09/22 07:50
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 94.3

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Benzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Bromodichloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Bromoform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Bromomethane	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
2-Butanone (MEK)	<25		25		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Carbon disulfide	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Carbon tetrachloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Chlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Chloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Chloroform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Chloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Dibromochloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1

Client Sample ID: SB88-SO-01
Date Collected: 06/09/22 07:50
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-11
Matrix: Solid
Percent Solids: 94.3

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Ethylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
2-Hexanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Isopropylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Methylene Chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
4-Methyl-2-pentanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Methyl tert-butyl ether	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Styrene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Tetrachloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Toluene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Trichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Vinyl chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Xylenes, Total	<10		10		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Cyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Methyl acetate	<25		25		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1
Methylcyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*65 - 130*	*06/10/22 10:05*	*06/10/22 23:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 130*	*06/10/22 10:05*	*06/10/22 23:06*	*1*
Dibromofluoromethane (Surr)	*101*		*65 - 130*	*06/10/22 10:05*	*06/10/22 23:06*	*1*
4-Bromofluorobenzene (Surr)	*111*		*65 - 130*	*06/10/22 10:05*	*06/10/22 23:06*	*1*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<66		66		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Acenaphthylene	**2400**		66		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Acetophenone	<140		140		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Anthracene	**15000**		66		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Atrazine	<150		150		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Benzaldehyde	<200		200		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Benzo[a]anthracene	**9800**		66		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Benzo[a]pyrene	**4900**		24		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Benzo[b]fluoranthene	**26000**		66		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: SB88-SO-01
Date Collected: 06/09/22 07:50
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-11
Matrix: Solid
Percent Solids: 94.3

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**2700**		66		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Benzo[k]fluoranthene	**6900**		40		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
1,1'-Biphenyl	<140		140		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Bis(2-chloroethoxy)methane	<130		130		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Bis(2-chloroethyl)ether	<130		130		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Bis(2-ethylhexyl) phthalate	<130		130		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
4-Bromophenyl phenyl ether	<140		140		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Butyl benzyl phthalate	<110		110		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Caprolactam	<140		140		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Carbazole	**6400**		130		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
4-Chloroaniline	<130		130		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
4-Chloro-3-methylphenol	<140		140		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2-Chloronaphthalene	<120		120		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2-Chlorophenol	<110		110		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
4-Chlorophenyl phenyl ether	<130		130		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Chrysene	**15000**		66		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Dibenz(a,h)anthracene	**1400**		66		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Dibenzofuran	**460**		130		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
3,3'-Dichlorobenzidine	<340		340		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2,4-Dichlorophenol	<140		140		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Diethyl phthalate	<150		150		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2,4-Dimethylphenol	<150		150		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Dimethyl phthalate	<150		150		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Di-n-butyl phthalate	<340		340		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
4,6-Dinitro-2-methylphenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2,4-Dinitrophenol	<2600		2600		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2,4-Dinitrotoluene	<150		150		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2,6-Dinitrotoluene	<160		160		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Di-n-octyl phthalate	<72		72		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Fluorene	**410**		66		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Hexachlorobenzene	<150		150		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Hexachlorobutadiene	<140		140		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Hexachlorocyclopentadiene	<130		130		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Hexachloroethane	<120		120		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Indeno[1,2,3-cd]pyrene	**3100**		66		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Isophorone	<140		140		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2-Methylnaphthalene	**250**		66		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2-Methylphenol	<130		130		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
3 & 4 Methylphenol	<150		150		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Naphthalene	**680**		66		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
3-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
4-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Nitrobenzene	<130		130		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2-Nitrophenol	<120		120		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
4-Nitrophenol	<1500		1500		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
N-Nitrosodi-n-propylamine	<150		150		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
N-Nitrosodiphenylamine	<120		120		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2,2'-oxybis[1-chloropropane]	<140		140		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20

Client Sample ID: SB88-SO-01
Date Collected: 06/09/22 07:50
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-11
Matrix: Solid
Percent Solids: 94.3

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**20000**		1300		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Phenanthrene	**9700**		48		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Phenol	<130		130		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
Pyrene	**24000**		66		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2,4,5-Trichlorophenol	<150		150		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20
2,4,6-Trichlorophenol	<160		160		ug/Kg	☼	06/10/22 15:30	06/20/22 01:03	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*D*	*11 - 130*	*06/10/22 15:30*	*06/20/22 01:03*	*20*
2-Fluorophenol (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/20/22 01:03*	*20*
Nitrobenzene-d5 (Surr)	*0*	*D*	*18 - 130*	*06/10/22 15:30*	*06/20/22 01:03*	*20*
Phenol-d5 (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/20/22 01:03*	*20*
Terphenyl-d14 (Surr)	*0*	*D*	*27 - 130*	*06/10/22 15:30*	*06/20/22 01:03*	*20*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*24 - 130*	*06/10/22 15:30*	*06/20/22 01:03*	*20*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**34000**		170		ug/Kg	☼	06/10/22 15:30	06/20/22 01:26	50

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
alpha-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
beta-BHC	<1.7		1.7		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
Chlordane (technical)	<15		15		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
4,4'-DDD	<0.91		0.91		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
4,4'-DDE	<0.91		0.91		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
4,4'-DDT	**45**		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
delta-BHC	<0.96		0.96		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
Dieldrin	<0.86		0.86		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
Endosulfan I	<0.86		0.86		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
Endosulfan II	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
Endosulfan sulfate	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
Endrin	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
Endrin aldehyde	<1.1		1.1		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
Endrin ketone	**61**	***+**	1.0		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
gamma-BHC (Lindane)	**7.7**	**p**	0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
Heptachlor	<0.96		0.96		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
Heptachlor epoxide	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
Methoxychlor	<1.4		1.4		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
PCB-1016	<56		56		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
PCB-1221	<56		56		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
PCB-1232	<56		56		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
PCB-1242	<56		56		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
PCB-1248	<56		56		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
PCB-1254	<56		56		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
PCB-1260	<48		48		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10
Toxaphene	<85		85		ug/Kg	☼	06/10/22 11:12	06/13/22 22:59	10

Client Sample ID: SB88-SO-01

Lab Sample ID: 680-216698-11

Date Collected: 06/09/22 07:50
Date Received: 06/09/22 14:53

Matrix: Solid
Percent Solids: 94.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	D p	25 - 138	06/10/22 11:12	06/13/22 22:59	10
Tetrachloro-m-xylene	0	D	22 - 130	06/10/22 11:12	06/13/22 22:59	10

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4300**		10		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Antimony	<1.0		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Arsenic	**3.2**		0.30		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Barium	**27**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Beryllium	**0.19**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Cadmium	**0.060**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Calcium	**480**		50		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Chromium	**6.4**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Cobalt	**0.63**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Copper	**4.6**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Iron	**4600**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Lead	**9.0**		0.20		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Magnesium	**200**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Manganese	**16**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Nickel	**2.2**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Potassium	**150**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Selenium	**1.5**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Silver	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Sodium	<40		40		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Thallium	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Vanadium	**13**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1
Zinc	**9.8**		2.0		mg/Kg	☼	06/10/22 11:33	06/11/22 14:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.063**		0.025		mg/Kg	☼	06/17/22 16:42	06/20/22 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	<0.75		0.75		mg/Kg	☼	06/28/22 18:09	06/28/22 22:28	5

Client Sample ID: DUP-01

Lab Sample ID: 680-216698-12

Date Collected: 06/09/22 08:25
Date Received: 06/09/22 14:53

Matrix: Solid
Percent Solids: 91.5

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Benzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Bromodichloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Bromoform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Bromomethane	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
2-Butanone (MEK)	<25		25		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Carbon disulfide	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Carbon tetrachloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Chlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: DUP-01
Date Collected: 06/09/22 08:25
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-12
Matrix: Solid
Percent Solids: 91.5

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Chloroform	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Chloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Dibromochloromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Ethylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
2-Hexanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Isopropylbenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Methylene Chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
4-Methyl-2-pentanone	<25		25		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Methyl tert-butyl ether	<5.0	*+	5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Styrene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Tetrachloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Toluene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Trichloroethene	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Vinyl chloride	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Xylenes, Total	<10		10		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Cyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Methyl acetate	<25		25		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1
Methylcyclohexane	<5.0		5.0		ug/Kg	☼	06/10/22 10:05	06/10/22 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*65 - 130*	*06/10/22 10:05*	*06/10/22 21:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 130*	*06/10/22 10:05*	*06/10/22 21:30*	*1*
Dibromofluoromethane (Surr)	*101*		*65 - 130*	*06/10/22 10:05*	*06/10/22 21:30*	*1*
4-Bromofluorobenzene (Surr)	*118*		*65 - 130*	*06/10/22 10:05*	*06/10/22 21:30*	*1*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<35		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Acenaphthylene	**1400**		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10

Client Sample ID: DUP-01
Date Collected: 06/09/22 08:25
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-12
Matrix: Solid
Percent Solids: 91.5

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	<73		73		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Anthracene	**3000**		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Atrazine	<81		81		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Benzaldehyde	<110		110		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Benzo[a]anthracene	**2100**		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Benzo[a]pyrene	**2100**		13		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Benzo[b]fluoranthene	**6700**		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Benzo[g,h,i]perylene	**1500**		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Benzo[k]fluoranthene	**2300**		21		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
1,1'-Biphenyl	<77		77		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Bis(2-chloroethoxy)methane	<69		69		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Bis(2-chloroethyl)ether	<69		69		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Bis(2-ethylhexyl) phthalate	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
4-Bromophenyl phenyl ether	<74		74		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Butyl benzyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Caprolactam	<75		75		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Carbazole	**580**		71		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
4-Chloroaniline	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
4-Chloro-3-methylphenol	<75		75		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2-Chloronaphthalene	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2-Chlorophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
4-Chlorophenyl phenyl ether	<68		68		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Chrysene	**2900**		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Dibenz(a,h)anthracene	**560**		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Dibenzofuran	**150**		71		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
3,3'-Dichlorobenzidine	<180		180		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2,4-Dichlorophenol	<77		77		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Diethyl phthalate	<79		79		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2,4-Dimethylphenol	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Dimethyl phthalate	<80		80		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Di-n-butyl phthalate	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
4,6-Dinitro-2-methylphenol	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2,4-Dinitrophenol	<1400		1400		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2,4-Dinitrotoluene	<80		80		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2,6-Dinitrotoluene	<84		84		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Di-n-octyl phthalate	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Fluoranthene	**2600**		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Fluorene	**120**		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Hexachlorobenzene	<81		81		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Hexachlorobutadiene	<73		73		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Hexachlorocyclopentadiene	<130		130		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Hexachloroethane	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Indeno[1,2,3-cd]pyrene	**790**		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Isophorone	<75		75		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2-Methylnaphthalene	**170**		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2-Methylphenol	<67		67		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
3 & 4 Methylphenol	<78		78		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Naphthalene	**370**		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10

Client Sample ID: DUP-01
Date Collected: 06/09/22 08:25
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-12
Matrix: Solid
Percent Solids: 91.5

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
4-Nitroaniline	<340		340		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Nitrobenzene	<70		70		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2-Nitrophenol	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
4-Nitrophenol	<780		780		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
N-Nitrosodi-n-propylamine	<80		80		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
N-Nitrosodiphenylamine	<66		66		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2,2'-oxybis[1-chloropropane]	<77		77		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Pentachlorophenol	**1400**		710		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Phenanthrene	**600**		26		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Phenol	<69		69		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
Pyrene	**3700**		35		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2,4,5-Trichlorophenol	<81		81		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10
2,4,6-Trichlorophenol	<84		84		ug/Kg	☼	06/10/22 15:30	06/16/22 22:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*D*	*11 - 130*	*06/10/22 15:30*	*06/16/22 22:29*	*10*
2-Fluorophenol (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/16/22 22:29*	*10*
Nitrobenzene-d5 (Surr)	*0*	*D*	*18 - 130*	*06/10/22 15:30*	*06/16/22 22:29*	*10*
Phenol-d5 (Surr)	*0*	*D*	*10 - 130*	*06/10/22 15:30*	*06/16/22 22:29*	*10*
Terphenyl-d14 (Surr)	*0*	*D*	*27 - 130*	*06/10/22 15:30*	*06/16/22 22:29*	*10*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*24 - 130*	*06/10/22 15:30*	*06/16/22 22:29*	*10*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
alpha-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
beta-BHC	<0.91		0.91		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
Chlordane (technical)	<8.5		8.5		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
4,4'-DDD	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
4,4'-DDE	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
4,4'-DDT	**2.8**	**p**	0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
delta-BHC	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
Dieldrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
Endosulfan I	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
Endosulfan II	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
Endosulfan sulfate	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
Endrin	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
Endrin aldehyde	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
Endrin ketone	**22**	***+**	0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
gamma-BHC (Lindane)	**1.4**		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
Heptachlor	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
Heptachlor epoxide	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
Methoxychlor	<0.85		0.85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
PCB-1016	<30		30		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
PCB-1221	<30		30		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
PCB-1232	<30		30		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
PCB-1242	<30		30		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
PCB-1248	<30		30		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
PCB-1254	<30		30		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5

Client Sample ID: DUP-01

Date Collected: 06/09/22 08:25
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-12

Matrix: Solid
Percent Solids: 91.5

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<26		26		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5
Toxaphene	<85		85		ug/Kg	☼	06/10/22 11:12	06/13/22 23:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*290*	*S1+*	*25 - 138*	*06/10/22 11:12*	*06/13/22 23:15*	*5*
Tetrachloro-m-xylene	*84*		*22 - 130*	*06/10/22 11:12*	*06/13/22 23:15*	*5*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2600**		10		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Antimony	<1.0		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Arsenic	**1.5**		0.30		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Barium	**15**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Beryllium	**0.090**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Cadmium	<0.050		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Calcium	**660**		50		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Chromium	**3.5**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Cobalt	**0.27**		0.050		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Copper	**3.2**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Iron	**2300**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Lead	**8.6**		0.20		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Magnesium	**100**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Manganese	**13**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Nickel	**1.8**		1.0		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Potassium	**95**		25		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Selenium	**0.97**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Silver	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Sodium	<40		40		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Thallium	<0.10		0.10		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Vanadium	**6.9**		0.50		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1
Zinc	**6.2**		2.0		mg/Kg	☼	06/10/22 11:33	06/11/22 14:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.068**		0.025		mg/Kg	☼	06/17/22 16:42	06/20/22 12:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	<0.79		0.79		mg/Kg	☼	06/28/22 18:09	06/28/22 22:28	5

Client Sample ID: TB-01

Date Collected: 06/09/22 07:00
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-13

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<1.0	*+	1.0		ug/L			06/21/22 13:51	1
Vinyl chloride	<1.0	*+	1.0		ug/L			06/21/22 13:51	1
Bromomethane	<5.0		5.0		ug/L			06/21/22 13:51	1
Chloroethane	<5.0		5.0		ug/L			06/21/22 13:51	1

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: TB-01
Date Collected: 06/09/22 07:00
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-13
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<1.0		1.0		ug/L			06/21/22 13:51	1
1,1-Dichloroethene	<1.0		1.0		ug/L			06/21/22 13:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			06/21/22 13:51	1
Acetone	<10		10		ug/L			06/21/22 13:51	1
Carbon disulfide	<2.0		2.0		ug/L			06/21/22 13:51	1
Methyl acetate	<5.0		5.0		ug/L			06/21/22 13:51	1
Methylene Chloride	<5.0		5.0		ug/L			06/21/22 13:51	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			06/21/22 13:51	1
Methyl tert-butyl ether	<5.0		5.0		ug/L			06/21/22 13:51	1
1,1-Dichloroethane	<1.0		1.0		ug/L			06/21/22 13:51	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			06/21/22 13:51	1
2-Butanone (MEK)	**13**		10		ug/L			06/21/22 13:51	1
Chloroform	<1.0		1.0		ug/L			06/21/22 13:51	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			06/21/22 13:51	1
Cyclohexane	<1.0		1.0		ug/L			06/21/22 13:51	1
Carbon tetrachloride	<1.0		1.0		ug/L			06/21/22 13:51	1
Benzene	<1.0		1.0		ug/L			06/21/22 13:51	1
1,2-Dichloroethane	<1.0		1.0		ug/L			06/21/22 13:51	1
Trichloroethene	<1.0		1.0		ug/L			06/21/22 13:51	1
Methylcyclohexane	<1.0		1.0		ug/L			06/21/22 13:51	1
1,2-Dichloropropane	<1.0		1.0		ug/L			06/21/22 13:51	1
Dichlorobromomethane	<1.0		1.0		ug/L			06/21/22 13:51	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			06/21/22 13:51	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			06/21/22 13:51	1
Toluene	<1.0		1.0		ug/L			06/21/22 13:51	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			06/21/22 13:51	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			06/21/22 13:51	1
Tetrachloroethene	<0.50		0.50		ug/L			06/21/22 13:51	1
2-Hexanone	<10		10		ug/L			06/21/22 13:51	1
Chlorodibromomethane	<1.0		1.0		ug/L			06/21/22 13:51	1
Ethylene Dibromide	<1.0		1.0		ug/L			06/21/22 13:51	1
Chlorobenzene	<1.0		1.0		ug/L			06/21/22 13:51	1
Ethylbenzene	<1.0		1.0		ug/L			06/21/22 13:51	1
Xylenes, Total	<1.0		1.0		ug/L			06/21/22 13:51	1
Styrene	<1.0		1.0		ug/L			06/21/22 13:51	1
Bromoform	<1.0		1.0		ug/L			06/21/22 13:51	1
Isopropylbenzene	<1.0		1.0		ug/L			06/21/22 13:51	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			06/21/22 13:51	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			06/21/22 13:51	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			06/21/22 13:51	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			06/21/22 13:51	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			06/21/22 13:51	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/L			06/21/22 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*06/21/22 13:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*06/21/22 13:51*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*06/21/22 13:51*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*06/21/22 13:51*	*1*

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: TB-02

Date Collected: 06/09/22 10:00
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-14

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<1.0	*+	1.0		ug/L			06/21/22 14:14	1
Vinyl chloride	<1.0	*+	1.0		ug/L			06/21/22 14:14	1
Bromomethane	<5.0		5.0		ug/L			06/21/22 14:14	1
Chloroethane	<5.0		5.0		ug/L			06/21/22 14:14	1
Trichlorofluoromethane	<1.0		1.0		ug/L			06/21/22 14:14	1
1,1-Dichloroethene	<1.0		1.0		ug/L			06/21/22 14:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			06/21/22 14:14	1
Acetone	<10		10		ug/L			06/21/22 14:14	1
Carbon disulfide	<2.0		2.0		ug/L			06/21/22 14:14	1
Methyl acetate	<5.0		5.0		ug/L			06/21/22 14:14	1
Methylene Chloride	<5.0		5.0		ug/L			06/21/22 14:14	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			06/21/22 14:14	1
Methyl tert-butyl ether	<5.0		5.0		ug/L			06/21/22 14:14	1
1,1-Dichloroethane	<1.0		1.0		ug/L			06/21/22 14:14	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			06/21/22 14:14	1
2-Butanone (MEK)	**13**		10		ug/L			06/21/22 14:14	1
Chloroform	<1.0		1.0		ug/L			06/21/22 14:14	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			06/21/22 14:14	1
Cyclohexane	<1.0		1.0		ug/L			06/21/22 14:14	1
Carbon tetrachloride	<1.0		1.0		ug/L			06/21/22 14:14	1
Benzene	<1.0		1.0		ug/L			06/21/22 14:14	1
1,2-Dichloroethane	<1.0		1.0		ug/L			06/21/22 14:14	1
Trichloroethene	<1.0		1.0		ug/L			06/21/22 14:14	1
Methylcyclohexane	<1.0		1.0		ug/L			06/21/22 14:14	1
1,2-Dichloropropane	<1.0		1.0		ug/L			06/21/22 14:14	1
Dichlorobromomethane	<1.0		1.0		ug/L			06/21/22 14:14	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			06/21/22 14:14	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			06/21/22 14:14	1
Toluene	<1.0		1.0		ug/L			06/21/22 14:14	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			06/21/22 14:14	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			06/21/22 14:14	1
Tetrachloroethene	<0.50		0.50		ug/L			06/21/22 14:14	1
2-Hexanone	<10		10		ug/L			06/21/22 14:14	1
Chlorodibromomethane	<1.0		1.0		ug/L			06/21/22 14:14	1
Ethylene Dibromide	<1.0		1.0		ug/L			06/21/22 14:14	1
Chlorobenzene	<1.0		1.0		ug/L			06/21/22 14:14	1
Ethylbenzene	<1.0		1.0		ug/L			06/21/22 14:14	1
Xylenes, Total	<1.0		1.0		ug/L			06/21/22 14:14	1
Styrene	<1.0		1.0		ug/L			06/21/22 14:14	1
Bromoform	<1.0		1.0		ug/L			06/21/22 14:14	1
Isopropylbenzene	<1.0		1.0		ug/L			06/21/22 14:14	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			06/21/22 14:14	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			06/21/22 14:14	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			06/21/22 14:14	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			06/21/22 14:14	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			06/21/22 14:14	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/L			06/21/22 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*06/21/22 14:14*	*1*

Eurofins Savannah

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: TB-02
Date Collected: 06/09/22 10:00
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-14
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		60 - 124		06/21/22 14:14	1
Dibromofluoromethane (Surr)	106		70 - 130		06/21/22 14:14	1
4-Bromofluorobenzene (Surr)	91		70 - 130		06/21/22 14:14	1

Isotope Dilution Summary

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HpCDD (40-135)	HpCDF (40-135)	HxCDD (40-135)	HxCDF (40-135)	HpCDF2 (40-135)	HxDD (40-135)	HxDF (40-135)	PeCDD (40-135)
680-216698-6	SB83-SO-01	94	75	63	69	84	70	74	49
680-216698-6 - DL	SB83-SO-01	69	57	48	52	64	66	62	46
680-216698-6 MS	SB83-SO-01	104	92	74	80	106	84	89	57
680-216698-6 MSD	SB83-SO-01	81	77	62	68	77	68	75	51
680-216698-9	SB86-SO-01	96	93	74	78	101	83	91	61
680-216698-9 - DL	SB86-SO-01	59	56	49	58	64	63	72	47 I
680-216698-12	DUP-01	81	77	68	71	83	75	79	61
680-216698-12 - DL	DUP-01	85	67 I	61	52	75	79 I	95	66 I
LCS 410-269112/2-A	Lab Control Sample	42	40	40	39 *5-	38 *5-	43	41	41
MB 410-269112/1-A	Method Blank	65	64	60	59	60	67	63	60

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PeCDF (40-135)	13CHxCD (40-135)	HxCF (40-135)	13CHxCF (40-135)	PeCF (40-135)	TCDD (40-135)	TCDF (40-135)	OCDD (40-135)
680-216698-6	SB83-SO-01	57	70	74	70	54	57	59	125
680-216698-6 - DL	SB83-SO-01	51	55	52 I	48	49	53 I	53 I	69
680-216698-6 MS	SB83-SO-01	60	82	86	83	63	62	62	127
680-216698-6 MSD	SB83-SO-01	55	67	75	70	56	54	56	92
680-216698-9	SB86-SO-01	63	83	97	85	66	60	65	112
680-216698-9 - DL	SB86-SO-01	45 I	57	64	62	49	58	47	69
680-216698-12	DUP-01	61	75	77	75	64	56	54	93
680-216698-12 - DL	DUP-01	51 I	6 I *5-	69 I	52 I	63	59	61 I	99
LCS 410-269112/2-A	Lab Control Sample	37 *5-	45	39 *5-	41	39 *5-	31 *5-	30 *5-	40
MB 410-269112/1-A	Method Blank	54	69	61	60	59	49	45	63

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OCDF (40-135)
680-216698-6	SB83-SO-01	105
680-216698-6 - DL	SB83-SO-01	68
680-216698-6 MS	SB83-SO-01	126
680-216698-6 MSD	SB83-SO-01	91
680-216698-9	SB86-SO-01	111
680-216698-9 - DL	SB86-SO-01	66
680-216698-12	DUP-01	91
680-216698-12 - DL	DUP-01	98
LCS 410-269112/2-A	Lab Control Sample	38 *5-
MB 410-269112/1-A	Method Blank	59

Surrogate Legend

HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxDF = 13C-1,2,3,6,7,8-HxCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
13CHxCD = 13C-1,2,3,7,8,9-HxCDD
HxCF = 13C-1,2,3,7,8,9-HxCDF

Isotope Dilution Summary

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-1
Project/Site: Georgia Atlantic Port, Georgia

13CHxCF = 13C-2,3,4,6,7,8-HxCDF
PeCF = 13C-2,3,4,7,8-PeCDF
TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
OCDD = 13C-OCDD
OCDF = 13C-OCDF

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: 680-216698-6 MS
Matrix: Solid
Analysis Batch: 726263

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725200

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<50		240	319		ug/Kg	☼	133	10 - 150
Benzene	<5.0		48.1	49.1		ug/Kg	☼	102	70 - 130
Bromodichloromethane	<5.0		48.1	48.5		ug/Kg	☼	101	70 - 130
Bromoform	<5.0		48.1	48.6		ug/Kg	☼	101	68 - 130
Bromomethane	<5.0	*+	48.1	65.1	F1	ug/Kg	☼	136	70 - 130
2-Butanone (MEK)	<25		240	266		ug/Kg	☼	111	40 - 150
Carbon disulfide	<5.0		48.1	43.7		ug/Kg	☼	91	70 - 130
Carbon tetrachloride	<5.0		48.1	46.2		ug/Kg	☼	96	70 - 130
Chlorobenzene	<5.0		48.1	47.8		ug/Kg	☼	100	70 - 130
Chloroethane	<5.0		48.1	53.4		ug/Kg	☼	111	70 - 130
Chloroform	<5.0		48.1	52.6		ug/Kg	☼	110	70 - 130
Chloromethane	<5.0		48.1	49.6		ug/Kg	☼	103	70 - 130
Dibromochloromethane	<5.0		48.1	43.2		ug/Kg	☼	90	64 - 133
1,2-Dibromo-3-Chloropropane	<10		48.1	70.7	F1	ug/Kg	☼	147	42 - 145
1,2-Dibromoethane	<5.0		48.1	43.9		ug/Kg	☼	91	48 - 150
1,2-Dichlorobenzene	<5.0		48.1	52.9		ug/Kg	☼	110	70 - 130
1,3-Dichlorobenzene	<5.0		48.1	52.6		ug/Kg	☼	109	70 - 130
1,4-Dichlorobenzene	<5.0		48.1	52.0		ug/Kg	☼	108	70 - 130
Dichlorodifluoromethane	<5.0		48.1	48.5		ug/Kg	☼	101	43 - 131
1,1-Dichloroethane	<5.0		48.1	53.2		ug/Kg	☼	111	70 - 130
1,2-Dichloroethane	<5.0		48.1	50.8		ug/Kg	☼	106	68 - 139
cis-1,2-Dichloroethene	<5.0		48.1	48.5		ug/Kg	☼	101	70 - 130
trans-1,2-Dichloroethene	<5.0		48.1	47.5		ug/Kg	☼	99	67 - 130
1,1-Dichloroethene	<5.0		48.1	48.4		ug/Kg	☼	101	69 - 130
1,2-Dichloropropane	<5.0		48.1	51.9		ug/Kg	☼	108	70 - 130
cis-1,3-Dichloropropene	<5.0		48.1	44.7		ug/Kg	☼	93	70 - 130
trans-1,3-Dichloropropene	<5.0		48.1	40.9		ug/Kg	☼	85	54 - 150
Ethylbenzene	<5.0		48.1	51.4		ug/Kg	☼	107	70 - 130
2-Hexanone	<25		240	282		ug/Kg	☼	117	30 - 150
Isopropylbenzene	<5.0		48.1	47.0		ug/Kg	☼	98	70 - 130
Methylene Chloride	<5.0		48.1	53.0		ug/Kg	☼	106	54 - 149
4-Methyl-2-pentanone	<25		240	298		ug/Kg	☼	124	34 - 150
Methyl tert-butyl ether	<5.0	*+	48.1	75.2	F1	ug/Kg	☼	156	70 - 130
Styrene	<5.0		48.1	44.1		ug/Kg	☼	92	70 - 130
1,1,2,2-Tetrachloroethane	<5.0		48.1	57.2		ug/Kg	☼	119	64 - 130
Tetrachloroethene	<5.0		48.1	38.2		ug/Kg	☼	79	70 - 130
Toluene	<5.0		48.1	44.1		ug/Kg	☼	92	70 - 130
1,2,4-Trichlorobenzene	<5.0		48.1	30.5	F1	ug/Kg	☼	64	70 - 130
1,1,1-Trichloroethane	<5.0		48.1	49.2		ug/Kg	☼	102	70 - 130
1,1,2-Trichloroethane	<5.0		48.1	49.1		ug/Kg	☼	102	56 - 146
Trichloroethene	<5.0		48.1	42.4		ug/Kg	☼	88	70 - 130
Trichlorofluoromethane	<5.0		48.1	50.8		ug/Kg	☼	106	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		48.1	47.5		ug/Kg	☼	99	70 - 130
Vinyl chloride	<5.0		48.1	54.9		ug/Kg	☼	114	70 - 130
Xylenes, Total	<10		96.1	100		ug/Kg	☼	104	70 - 130
Cyclohexane	<5.0		48.1	45.5		ug/Kg	☼	95	70 - 130
Methyl acetate	<25		96.1	154	F1	ug/Kg	☼	160	22 - 150
Methylcyclohexane	<5.0		48.1	39.5		ug/Kg	☼	82	69 - 110

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*119*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 130*
Dibromofluoromethane (Surr)	*102*		*65 - 130*
4-Bromofluorobenzene (Surr)	*146*	*S1+*	*65 - 130*

Lab Sample ID: 680-216698-6 MSD — **Client Sample ID: SB83-SO-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 726263 — **Prep Batch: 725200**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	<50		230	325		ug/Kg	☼	141	10 - 150	2	50
Benzene	<5.0		46.0	45.5		ug/Kg	☼	99	70 - 130	7	50
Bromodichloromethane	<5.0		46.0	46.5		ug/Kg	☼	101	70 - 130	4	50
Bromoform	<5.0		46.0	48.0		ug/Kg	☼	104	68 - 130	1	50
Bromomethane	<5.0	*+	46.0	68.7	F1	ug/Kg	☼	149	70 - 130	5	50
2-Butanone (MEK)	<25		230	291		ug/Kg	☼	126	40 - 150	9	50
Carbon disulfide	<5.0		46.0	43.0		ug/Kg	☼	93	70 - 130	2	50
Carbon tetrachloride	<5.0		46.0	42.9		ug/Kg	☼	93	70 - 130	7	50
Chlorobenzene	<5.0		46.0	45.9		ug/Kg	☼	100	70 - 130	4	50
Chloroethane	<5.0		46.0	54.1		ug/Kg	☼	117	70 - 130	1	50
Chloroform	<5.0		46.0	49.5		ug/Kg	☼	107	70 - 130	6	50
Chloromethane	<5.0		46.0	51.3		ug/Kg	☼	111	70 - 130	3	50
Dibromochloromethane	<5.0		46.0	42.4		ug/Kg	☼	92	64 - 133	2	50
1,2-Dibromo-3-Chloropropane	<10		46.0	72.1	F1	ug/Kg	☼	157	42 - 145	2	50
1,2-Dibromoethane	<5.0		46.0	44.4		ug/Kg	☼	96	48 - 150	1	50
1,2-Dichlorobenzene	<5.0		46.0	49.6		ug/Kg	☼	108	70 - 130	6	50
1,3-Dichlorobenzene	<5.0		46.0	48.7		ug/Kg	☼	106	70 - 130	8	50
1,4-Dichlorobenzene	<5.0		46.0	48.4		ug/Kg	☼	105	70 - 130	7	50
Dichlorodifluoromethane	<5.0		46.0	51.1		ug/Kg	☼	111	43 - 131	5	50
1,1-Dichloroethane	<5.0		46.0	49.6		ug/Kg	☼	108	70 - 130	7	50
1,2-Dichloroethane	<5.0		46.0	48.6		ug/Kg	☼	106	68 - 139	4	50
cis-1,2-Dichloroethene	<5.0		46.0	48.3		ug/Kg	☼	105	70 - 130	0	50
trans-1,2-Dichloroethene	<5.0		46.0	46.1		ug/Kg	☼	100	67 - 130	3	50
1,1-Dichloroethene	<5.0		46.0	45.8		ug/Kg	☼	100	69 - 130	6	50
1,2-Dichloropropane	<5.0		46.0	49.0		ug/Kg	☼	107	70 - 130	6	50
cis-1,3-Dichloropropene	<5.0		46.0	42.5		ug/Kg	☼	92	70 - 130	5	50
trans-1,3-Dichloropropene	<5.0		46.0	40.8		ug/Kg	☼	89	54 - 150	0	50
Ethylbenzene	<5.0		46.0	46.6		ug/Kg	☼	101	70 - 130	10	50
2-Hexanone	<25		230	301		ug/Kg	☼	131	30 - 150	7	50
Isopropylbenzene	<5.0		46.0	43.0		ug/Kg	☼	93	70 - 130	9	50
Methylene Chloride	<5.0		46.0	48.3		ug/Kg	☼	101	54 - 149	9	50
4-Methyl-2-pentanone	<25		230	306		ug/Kg	☼	133	34 - 150	3	50
Methyl tert-butyl ether	<5.0	*+	46.0	73.4	F1	ug/Kg	☼	159	70 - 130	2	50
Styrene	<5.0		46.0	42.7		ug/Kg	☼	93	70 - 130	3	50
1,1,2,2-Tetrachloroethane	<5.0		46.0	58.1		ug/Kg	☼	126	64 - 130	1	50
Tetrachloroethene	<5.0		46.0	36.1		ug/Kg	☼	78	70 - 130	6	50
Toluene	<5.0		46.0	41.4		ug/Kg	☼	90	70 - 130	6	50
1,2,4-Trichlorobenzene	<5.0		46.0	35.7		ug/Kg	☼	78	70 - 130	16	50
1,1,1-Trichloroethane	<5.0		46.0	44.8		ug/Kg	☼	97	70 - 130	9	50
1,1,2-Trichloroethane	<5.0		46.0	47.7		ug/Kg	☼	104	56 - 146	3	50
Trichloroethene	<5.0		46.0	40.3		ug/Kg	☼	88	70 - 130	5	50

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-216698-6 MSD
Matrix: Solid
Analysis Batch: 726263

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725200

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichlorofluoromethane	<5.0		46.0	48.1		ug/Kg	☼	104	70 - 130	5	50
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		46.0	45.4		ug/Kg	☼	99	70 - 130	5	50
Vinyl chloride	<5.0		46.0	55.7		ug/Kg	☼	121	70 - 130	2	50
Xylenes, Total	<10		92.1	91.6		ug/Kg	☼	99	70 - 130	9	50
Cyclohexane	<5.0		46.0	43.2		ug/Kg	☼	94	70 - 130	5	50
Methyl acetate	<25		92.1	148	F1	ug/Kg	☼	160	22 - 150	4	50
Methylcyclohexane	<5.0		46.0	40.9		ug/Kg	☼	89	69 - 110	3	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*115*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 130*
Dibromofluoromethane (Surr)	*101*		*65 - 130*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*65 - 130*

Lab Sample ID: MB 680-725226/8
Matrix: Solid
Analysis Batch: 725226

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Acetone	<50		50		ug/Kg			06/10/22 15:03	1
Carbon disulfide	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Chloroethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Chloromethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
2-Butanone (MEK)	<25		25		ug/Kg			06/10/22 15:03	1
Chloroform	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Carbon tetrachloride	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Benzene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Bromodichloromethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Methylene Chloride	<5.0		5.0		ug/Kg			06/10/22 15:03	1
4-Methyl-2-pentanone	<25		25		ug/Kg			06/10/22 15:03	1
2-Hexanone	<25		25		ug/Kg			06/10/22 15:03	1
Methyl tert-butyl ether	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Dibromochloromethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Chlorobenzene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Tetrachloroethene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Ethylbenzene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Toluene	<5.0		5.0		ug/Kg			06/10/22 15:03	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-725226/8
Matrix: Solid
Analysis Batch: 725226

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Styrene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Bromoform	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Isopropylbenzene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Trichloroethene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Vinyl chloride	<5.0		5.0		ug/Kg			06/10/22 15:03	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Xylenes, Total	<10		10		ug/Kg			06/10/22 15:03	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg			06/10/22 15:03	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Cyclohexane	<5.0		5.0		ug/Kg			06/10/22 15:03	1
Methyl acetate	<25		25		ug/Kg			06/10/22 15:03	1
Methylcyclohexane	<5.0		5.0		ug/Kg			06/10/22 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*65 - 130*		*06/10/22 15:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 130*		*06/10/22 15:03*	*1*
Dibromofluoromethane (Surr)	*100*		*65 - 130*		*06/10/22 15:03*	*1*
4-Bromofluorobenzene (Surr)	*109*		*65 - 130*		*06/10/22 15:03*	*1*

Lab Sample ID: LCS 680-725226/4
Matrix: Solid
Analysis Batch: 725226

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	68.4	*+	ug/Kg		137	70 - 130
Acetone	250	254		ug/Kg		102	10 - 150
Carbon disulfide	50.0	48.6		ug/Kg		97	70 - 130
Chloroethane	50.0	56.0		ug/Kg		112	70 - 130
Chloromethane	50.0	49.7		ug/Kg		99	70 - 130
2-Butanone (MEK)	250	252		ug/Kg		101	40 - 150
Chloroform	50.0	51.4		ug/Kg		103	70 - 130
Dichlorodifluoromethane	50.0	50.1		ug/Kg		100	43 - 131
1,1-Dichloroethane	50.0	50.2		ug/Kg		100	70 - 130
Carbon tetrachloride	50.0	47.3		ug/Kg		95	70 - 130
Benzene	50.0	48.4		ug/Kg		97	70 - 130
1,2-Dichloroethane	50.0	49.3		ug/Kg		99	68 - 139
cis-1,2-Dichloroethene	50.0	50.6		ug/Kg		101	70 - 130
trans-1,2-Dichloroethene	50.0	49.4		ug/Kg		99	67 - 130
1,1-Dichloroethene	50.0	48.2		ug/Kg		96	69 - 130
1,2-Dichloropropane	50.0	51.1		ug/Kg		102	70 - 130
Bromodichloromethane	50.0	49.5		ug/Kg		99	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-725226/4
Matrix: Solid
Analysis Batch: 725226

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	50.0	49.7		ug/Kg		99	70 - 130
trans-1,3-Dichloropropene	50.0	47.9		ug/Kg		96	54 - 150
Methylene Chloride	50.0	45.1		ug/Kg		90	54 - 149
4-Methyl-2-pentanone	250	250		ug/Kg		100	34 - 150
2-Hexanone	250	252		ug/Kg		101	30 - 150
Methyl tert-butyl ether	50.0	67.3	*+	ug/Kg		135	70 - 130
Dibromochloromethane	50.0	46.8		ug/Kg		94	64 - 133
1,2-Dibromoethane	50.0	48.1		ug/Kg		96	48 - 150
Chlorobenzene	50.0	48.8		ug/Kg		98	70 - 130
Tetrachloroethene	50.0	51.0		ug/Kg		102	70 - 130
Ethylbenzene	50.0	50.3		ug/Kg		101	70 - 130
Toluene	50.0	49.2		ug/Kg		98	70 - 130
1,1,1-Trichloroethane	50.0	48.1		ug/Kg		96	70 - 130
Styrene	50.0	48.3		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	49.7		ug/Kg		99	56 - 146
Bromoform	50.0	45.7		ug/Kg		91	68 - 130
Isopropylbenzene	50.0	48.6		ug/Kg		97	70 - 130
Trichloroethene	50.0	47.8		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.7		ug/Kg		99	64 - 130
Trichlorofluoromethane	50.0	54.8		ug/Kg		110	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.8		ug/Kg		96	70 - 130
1,3-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 130
1,4-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 130
Vinyl chloride	50.0	54.5		ug/Kg		109	70 - 130
1,2-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 130
Xylenes, Total	100	98.0		ug/Kg		98	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.9		ug/Kg		100	42 - 145
1,2,4-Trichlorobenzene	50.0	51.8		ug/Kg		104	70 - 130
Cyclohexane	50.0	48.7		ug/Kg		97	70 - 130
Methyl acetate	100	98.9		ug/Kg		99	22 - 150
Methylcyclohexane	50.0	49.5		ug/Kg		99	69 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 130*
Dibromofluoromethane (Surr)	*97*		*65 - 130*
4-Bromofluorobenzene (Surr)	*110*		*65 - 130*

Lab Sample ID: LCSD 680-725226/5
Matrix: Solid
Analysis Batch: 725226

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	50.0	68.6	*+	ug/Kg		137	70 - 130	0	30
Acetone	250	268		ug/Kg		107	10 - 150	5	50
Carbon disulfide	50.0	49.0		ug/Kg		98	70 - 130	1	30
Chloroethane	50.0	53.8		ug/Kg		108	70 - 130	4	30
Chloromethane	50.0	47.7		ug/Kg		95	70 - 130	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-725226/5
Matrix: Solid
Analysis Batch: 725226

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)			250	257		ug/Kg		103	40 - 150	2	30
Chloroform			50.0	52.6		ug/Kg		105	70 - 130	2	30
Dichlorodifluoromethane			50.0	47.2		ug/Kg		94	43 - 131	6	30
1,1-Dichloroethane			50.0	50.8		ug/Kg		102	70 - 130	1	30
Carbon tetrachloride			50.0	47.6		ug/Kg		95	70 - 130	1	30
Benzene			50.0	48.9		ug/Kg		98	70 - 130	1	30
1,2-Dichloroethane			50.0	50.5		ug/Kg		101	68 - 139	2	30
cis-1,2-Dichloroethene			50.0	50.7		ug/Kg		101	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	49.2		ug/Kg		98	67 - 130	0	30
1,1-Dichloroethene			50.0	48.8		ug/Kg		98	69 - 130	1	50
1,2-Dichloropropane			50.0	51.8		ug/Kg		104	70 - 130	1	30
Bromodichloromethane			50.0	50.9		ug/Kg		102	70 - 130	3	30
cis-1,3-Dichloropropene			50.0	50.1		ug/Kg		100	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	48.9		ug/Kg		98	54 - 150	2	30
Methylene Chloride			50.0	46.1		ug/Kg		92	54 - 149	2	30
4-Methyl-2-pentanone			250	258		ug/Kg		103	34 - 150	3	30
2-Hexanone			250	262		ug/Kg		105	30 - 150	4	30
Methyl tert-butyl ether			50.0	69.8	*+	ug/Kg		140	70 - 130	4	30
Dibromochloromethane			50.0	47.7		ug/Kg		95	64 - 133	2	30
1,2-Dibromoethane			50.0	49.0		ug/Kg		98	48 - 150	2	30
Chlorobenzene			50.0	49.0		ug/Kg		98	70 - 130	0	30
Tetrachloroethene			50.0	54.4		ug/Kg		109	70 - 130	6	30
Ethylbenzene			50.0	49.6		ug/Kg		99	70 - 130	1	30
Toluene			50.0	49.0		ug/Kg		98	70 - 130	0	30
1,1,1-Trichloroethane			50.0	48.2		ug/Kg		96	70 - 130	0	30
Styrene			50.0	48.3		ug/Kg		97	70 - 130	0	30
1,1,2-Trichloroethane			50.0	50.4		ug/Kg		101	56 - 146	1	30
Bromoform			50.0	46.6		ug/Kg		93	68 - 130	2	30
Isopropylbenzene			50.0	48.0		ug/Kg		96	70 - 130	1	30
Trichloroethene			50.0	47.7		ug/Kg		95	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	50.8		ug/Kg		102	64 - 130	2	30
Trichlorofluoromethane			50.0	51.1		ug/Kg		102	70 - 130	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	48.8		ug/Kg		98	70 - 130	2	40
1,3-Dichlorobenzene			50.0	50.9		ug/Kg		102	70 - 130	1	30
1,4-Dichlorobenzene			50.0	51.7		ug/Kg		103	70 - 130	2	30
Vinyl chloride			50.0	52.3		ug/Kg		105	70 - 130	4	30
1,2-Dichlorobenzene			50.0	51.4		ug/Kg		103	70 - 130	2	30
Xylenes, Total			100	97.9		ug/Kg		98	70 - 130	0	30
1,2-Dibromo-3-Chloropropane			50.0	52.6		ug/Kg		105	42 - 145	5	30
1,2,4-Trichlorobenzene			50.0	52.4		ug/Kg		105	70 - 130	1	30
Cyclohexane			50.0	48.4		ug/Kg		97	70 - 130	1	30
Methyl acetate			100	103		ug/Kg		103	22 - 150	4	30
Methylcyclohexane			50.0	49.5		ug/Kg		99	69 - 110	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-725226/5
Matrix: Solid
Analysis Batch: 725226

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	*98*		*65 - 130*
4-Bromofluorobenzene (Surr)	*115*		*65 - 130*

Lab Sample ID: MB 680-726047/8
Matrix: Solid
Analysis Batch: 726047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Acetone	<50		50		ug/Kg			06/16/22 14:06	1
Carbon disulfide	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Chloroethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Chloromethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
2-Butanone (MEK)	<25		25		ug/Kg			06/16/22 14:06	1
Chloroform	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Carbon tetrachloride	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Benzene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Bromodichloromethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Methylene Chloride	<5.0		5.0		ug/Kg			06/16/22 14:06	1
4-Methyl-2-pentanone	<25		25		ug/Kg			06/16/22 14:06	1
2-Hexanone	<25		25		ug/Kg			06/16/22 14:06	1
Methyl tert-butyl ether	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Dibromochloromethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Chlorobenzene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Tetrachloroethene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Ethylbenzene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Toluene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Styrene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Bromoform	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Isopropylbenzene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Trichloroethene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg			06/16/22 14:06	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-726047/8
Matrix: Solid
Analysis Batch: 726047

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<5.0		5.0		ug/Kg			06/16/22 14:06	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Xylenes, Total	<10		10		ug/Kg			06/16/22 14:06	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg			06/16/22 14:06	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Cyclohexane	<5.0		5.0		ug/Kg			06/16/22 14:06	1
Methyl acetate	<25		25		ug/Kg			06/16/22 14:06	1
Methylcyclohexane	<5.0		5.0		ug/Kg			06/16/22 14:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*65 - 130*		*06/16/22 14:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 130*		*06/16/22 14:06*	*1*
Dibromofluoromethane (Surr)	*100*		*65 - 130*		*06/16/22 14:06*	*1*
4-Bromofluorobenzene (Surr)	*110*		*65 - 130*		*06/16/22 14:06*	*1*

Lab Sample ID: LCS 680-726047/4
Matrix: Solid
Analysis Batch: 726047

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	70.1	*+	ug/Kg		140	70 - 130
Acetone	250	280		ug/Kg		112	10 - 150
Carbon disulfide	50.0	46.2		ug/Kg		92	70 - 130
Chloroethane	50.0	54.7		ug/Kg		109	70 - 130
Chloromethane	50.0	50.2		ug/Kg		100	70 - 130
2-Butanone (MEK)	250	268		ug/Kg		107	40 - 150
Chloroform	50.0	51.5		ug/Kg		103	70 - 130
Dichlorodifluoromethane	50.0	46.3		ug/Kg		93	43 - 131
1,1-Dichloroethane	50.0	49.6		ug/Kg		99	70 - 130
Carbon tetrachloride	50.0	41.9		ug/Kg		84	70 - 130
Benzene	50.0	48.6		ug/Kg		97	70 - 130
1,2-Dichloroethane	50.0	50.2		ug/Kg		100	68 - 139
cis-1,2-Dichloroethene	50.0	51.2		ug/Kg		102	70 - 130
trans-1,2-Dichloroethene	50.0	48.0		ug/Kg		96	67 - 130
1,1-Dichloroethene	50.0	43.9		ug/Kg		88	69 - 130
1,2-Dichloropropane	50.0	52.0		ug/Kg		104	70 - 130
Bromodichloromethane	50.0	49.8		ug/Kg		100	70 - 130
cis-1,3-Dichloropropene	50.0	50.3		ug/Kg		101	70 - 130
trans-1,3-Dichloropropene	50.0	47.8		ug/Kg		96	54 - 150
Methylene Chloride	50.0	46.0		ug/Kg		92	54 - 149
4-Methyl-2-pentanone	250	264		ug/Kg		106	34 - 150
2-Hexanone	250	272		ug/Kg		109	30 - 150
Methyl tert-butyl ether	50.0	68.0	*+	ug/Kg		136	70 - 130
Dibromochloromethane	50.0	47.2		ug/Kg		94	64 - 133
1,2-Dibromoethane	50.0	49.2		ug/Kg		98	48 - 150
Chlorobenzene	50.0	48.1		ug/Kg		96	70 - 130
Tetrachloroethene	50.0	58.4		ug/Kg		117	70 - 130
Ethylbenzene	50.0	48.2		ug/Kg		96	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-726047/4
Matrix: Solid
Analysis Batch: 726047

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	50.0	48.6		ug/Kg		97	70 - 130
1,1,1-Trichloroethane	50.0	44.3		ug/Kg		89	70 - 130
Styrene	50.0	48.4		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	51.1		ug/Kg		102	56 - 146
Bromoform	50.0	45.2		ug/Kg		90	68 - 130
Isopropylbenzene	50.0	45.9		ug/Kg		92	70 - 130
Trichloroethene	50.0	45.9		ug/Kg		92	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.7		ug/Kg		97	64 - 130
Trichlorofluoromethane	50.0	44.6		ug/Kg		89	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.3		ug/Kg		83	70 - 130
1,3-Dichlorobenzene	50.0	50.9		ug/Kg		102	70 - 130
1,4-Dichlorobenzene	50.0	50.8		ug/Kg		102	70 - 130
Vinyl chloride	50.0	52.8		ug/Kg		106	70 - 130
1,2-Dichlorobenzene	50.0	50.8		ug/Kg		102	70 - 130
Xylenes, Total	100	96.2		ug/Kg		96	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.1		ug/Kg		102	42 - 145
1,2,4-Trichlorobenzene	50.0	51.2		ug/Kg		102	70 - 130
Cyclohexane	50.0	42.6		ug/Kg		85	70 - 130
Methyl acetate	100	106		ug/Kg		106	22 - 150
Methylcyclohexane	50.0	43.4		ug/Kg		87	69 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 130*
Dibromofluoromethane (Surr)	*97*		*65 - 130*
4-Bromofluorobenzene (Surr)	*109*		*65 - 130*

Lab Sample ID: LCSD 680-726047/5
Matrix: Solid
Analysis Batch: 726047

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	50.0	68.7	*+	ug/Kg		137	70 - 130	2	30
Acetone	250	274		ug/Kg		110	10 - 150	2	50
Carbon disulfide	50.0	46.3		ug/Kg		93	70 - 130	0	30
Chloroethane	50.0	53.1		ug/Kg		106	70 - 130	3	30
Chloromethane	50.0	49.5		ug/Kg		99	70 - 130	1	30
2-Butanone (MEK)	250	267		ug/Kg		107	40 - 150	0	30
Chloroform	50.0	51.0		ug/Kg		102	70 - 130	1	30
Dichlorodifluoromethane	50.0	46.2		ug/Kg		92	43 - 131	0	30
1,1-Dichloroethane	50.0	49.6		ug/Kg		99	70 - 130	0	30
Carbon tetrachloride	50.0	42.0		ug/Kg		84	70 - 130	0	30
Benzene	50.0	48.1		ug/Kg		96	70 - 130	1	30
1,2-Dichloroethane	50.0	48.9		ug/Kg		98	68 - 139	3	30
cis-1,2-Dichloroethene	50.0	50.5		ug/Kg		101	70 - 130	2	30
trans-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	67 - 130	1	30
1,1-Dichloroethene	50.0	44.3		ug/Kg		89	69 - 130	1	50
1,2-Dichloropropane	50.0	51.5		ug/Kg		103	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-726047/5
Matrix: Solid
Analysis Batch: 726047

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromodichloromethane			50.0	49.0		ug/Kg		98	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	49.2		ug/Kg		98	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	47.7		ug/Kg		95	54 - 150	0	30
Methylene Chloride			50.0	45.5		ug/Kg		91	54 - 149	1	30
4-Methyl-2-pentanone			250	262		ug/Kg		105	34 - 150	1	30
2-Hexanone			250	268		ug/Kg		107	30 - 150	1	30
Methyl tert-butyl ether			50.0	66.9	*+	ug/Kg		134	70 - 130	2	30
Dibromochloromethane			50.0	46.8		ug/Kg		94	64 - 133	1	30
1,2-Dibromoethane			50.0	47.4		ug/Kg		95	48 - 150	4	30
Chlorobenzene			50.0	47.7		ug/Kg		95	70 - 130	1	30
Tetrachloroethene			50.0	56.8		ug/Kg		114	70 - 130	3	30
Ethylbenzene			50.0	47.8		ug/Kg		96	70 - 130	1	30
Toluene			50.0	47.8		ug/Kg		96	70 - 130	2	30
1,1,1-Trichloroethane			50.0	44.1		ug/Kg		88	70 - 130	0	30
Styrene			50.0	48.0		ug/Kg		96	70 - 130	1	30
1,1,2-Trichloroethane			50.0	50.3		ug/Kg		101	56 - 146	2	30
Bromoform			50.0	45.4		ug/Kg		91	68 - 130	1	30
Isopropylbenzene			50.0	45.8		ug/Kg		92	70 - 130	0	30
Trichloroethene			50.0	45.6		ug/Kg		91	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	50.2		ug/Kg		100	64 - 130	3	30
Trichlorofluoromethane			50.0	48.2		ug/Kg		96	70 - 130	8	30
1,1,2-Trichloro-1,2,2-trifluoroetha ne			50.0	42.1		ug/Kg		84	70 - 130	2	40
1,3-Dichlorobenzene			50.0	49.6		ug/Kg		99	70 - 130	3	30
1,4-Dichlorobenzene			50.0	49.8		ug/Kg		100	70 - 130	2	30
Vinyl chloride			50.0	52.9		ug/Kg		106	70 - 130	0	30
1,2-Dichlorobenzene			50.0	50.3		ug/Kg		101	70 - 130	1	30
Xylenes, Total			100	95.5		ug/Kg		96	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	51.2		ug/Kg		102	42 - 145	0	30
1,2,4-Trichlorobenzene			50.0	50.7		ug/Kg		101	70 - 130	1	30
Cyclohexane			50.0	42.5		ug/Kg		85	70 - 130	0	30
Methyl acetate			100	104		ug/Kg		104	22 - 150	1	30
Methylcyclohexane			50.0	43.2		ug/Kg		86	69 - 110	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 130*
Dibromofluoromethane (Surr)	*96*		*65 - 130*
4-Bromofluorobenzene (Surr)	*108*		*65 - 130*

Lab Sample ID: MB 680-726263/8
Matrix: Solid
Analysis Batch: 726263

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Acetone	<50		50		ug/Kg			06/17/22 13:08	1
Carbon disulfide	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Chloroethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-726263/8
Matrix: Solid
Analysis Batch: 726263

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
2-Butanone (MEK)	<25		25		ug/Kg			06/17/22 13:08	1
Chloroform	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Dichlorodifluoromethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Carbon tetrachloride	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Benzene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Bromodichloromethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Methylene Chloride	<5.0		5.0		ug/Kg			06/17/22 13:08	1
4-Methyl-2-pentanone	<25		25		ug/Kg			06/17/22 13:08	1
2-Hexanone	<25		25		ug/Kg			06/17/22 13:08	1
Methyl tert-butyl ether	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Dibromochloromethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
1,2-Dibromoethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Chlorobenzene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Tetrachloroethene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Ethylbenzene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Toluene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Styrene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Bromoform	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Isopropylbenzene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Trichloroethene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Trichlorofluoromethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Vinyl chloride	<5.0		5.0		ug/Kg			06/17/22 13:08	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Xylenes, Total	<10		10		ug/Kg			06/17/22 13:08	1
1,2-Dibromo-3-Chloropropane	<10		10		ug/Kg			06/17/22 13:08	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Cyclohexane	<5.0		5.0		ug/Kg			06/17/22 13:08	1
Methyl acetate	<25		25		ug/Kg			06/17/22 13:08	1
Methylcyclohexane	<5.0		5.0		ug/Kg			06/17/22 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*65 - 130*		*06/17/22 13:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 130*		*06/17/22 13:08*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-726263/8
Matrix: Solid
Analysis Batch: 726263

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*99*		*65 - 130*		*06/17/22 13:08*	*1*
4-Bromofluorobenzene (Surr)	*108*		*65 - 130*		*06/17/22 13:08*	*1*

Lab Sample ID: LCS 680-726263/4
Matrix: Solid
Analysis Batch: 726263

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	70.9	*+	ug/Kg		142	70 - 130
Acetone	250	260		ug/Kg		104	10 - 150
Carbon disulfide	50.0	49.7		ug/Kg		99	70 - 130
Chloroethane	50.0	58.3		ug/Kg		117	70 - 130
Chloromethane	50.0	52.1		ug/Kg		104	70 - 130
2-Butanone (MEK)	250	255		ug/Kg		102	40 - 150
Chloroform	50.0	52.3		ug/Kg		105	70 - 130
Dichlorodifluoromethane	50.0	53.0		ug/Kg		106	43 - 131
1,1-Dichloroethane	50.0	51.3		ug/Kg		103	70 - 130
Carbon tetrachloride	50.0	48.0		ug/Kg		96	70 - 130
Benzene	50.0	49.6		ug/Kg		99	70 - 130
1,2-Dichloroethane	50.0	49.5		ug/Kg		99	68 - 139
cis-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	70 - 130
trans-1,2-Dichloroethene	50.0	50.5		ug/Kg		101	67 - 130
1,1-Dichloroethene	50.0	49.2		ug/Kg		98	69 - 130
1,2-Dichloropropane	50.0	51.6		ug/Kg		103	70 - 130
Bromodichloromethane	50.0	49.7		ug/Kg		99	70 - 130
cis-1,3-Dichloropropene	50.0	49.2		ug/Kg		98	70 - 130
trans-1,3-Dichloropropene	50.0	48.3		ug/Kg		97	54 - 150
Methylene Chloride	50.0	45.4		ug/Kg		91	54 - 149
4-Methyl-2-pentanone	250	254		ug/Kg		102	34 - 150
2-Hexanone	250	258		ug/Kg		103	30 - 150
Methyl tert-butyl ether	50.0	66.7	*+	ug/Kg		133	70 - 130
Dibromochloromethane	50.0	46.3		ug/Kg		93	64 - 133
1,2-Dibromoethane	50.0	48.0		ug/Kg		96	48 - 150
Chlorobenzene	50.0	48.8		ug/Kg		98	70 - 130
Tetrachloroethene	50.0	52.8		ug/Kg		106	70 - 130
Ethylbenzene	50.0	50.6		ug/Kg		101	70 - 130
Toluene	50.0	49.1		ug/Kg		98	70 - 130
1,1,1-Trichloroethane	50.0	48.2		ug/Kg		96	70 - 130
Styrene	50.0	48.5		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	50.5		ug/Kg		101	56 - 146
Bromoform	50.0	45.8		ug/Kg		92	68 - 130
Isopropylbenzene	50.0	49.0		ug/Kg		98	70 - 130
Trichloroethene	50.0	48.0		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.8		ug/Kg		102	64 - 130
Trichlorofluoromethane	50.0	52.1		ug/Kg		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.2		ug/Kg		98	70 - 130
1,3-Dichlorobenzene	50.0	51.3		ug/Kg		103	70 - 130
1,4-Dichlorobenzene	50.0	51.6		ug/Kg		103	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-726263/4
Matrix: Solid
Analysis Batch: 726263

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	50.0	57.6		ug/Kg		115	70 - 130
1,2-Dichlorobenzene	50.0	51.0		ug/Kg		102	70 - 130
Xylenes, Total	100	98.8		ug/Kg		99	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.8		ug/Kg		102	42 - 145
1,2,4-Trichlorobenzene	50.0	52.6		ug/Kg		105	70 - 130
Cyclohexane	50.0	49.7		ug/Kg		99	70 - 130
Methyl acetate	100	101		ug/Kg		101	22 - 150
Methylcyclohexane	50.0	51.4		ug/Kg		103	69 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*65 - 130*
Dibromofluoromethane (Surr)	*97*		*65 - 130*
4-Bromofluorobenzene (Surr)	*113*		*65 - 130*

Lab Sample ID: LCSD 680-726263/5
Matrix: Solid
Analysis Batch: 726263

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	50.0	71.8	*+	ug/Kg		144	70 - 130	1	30
Acetone	250	268		ug/Kg		107	10 - 150	3	50
Carbon disulfide	50.0	49.1		ug/Kg		98	70 - 130	1	30
Chloroethane	50.0	56.6		ug/Kg		113	70 - 130	3	30
Chloromethane	50.0	51.1		ug/Kg		102	70 - 130	2	30
2-Butanone (MEK)	250	259		ug/Kg		104	40 - 150	2	30
Chloroform	50.0	51.6		ug/Kg		103	70 - 130	1	30
Dichlorodifluoromethane	50.0	52.2		ug/Kg		104	43 - 131	1	30
1,1-Dichloroethane	50.0	50.3		ug/Kg		101	70 - 130	2	30
Carbon tetrachloride	50.0	46.7		ug/Kg		93	70 - 130	3	30
Benzene	50.0	48.7		ug/Kg		97	70 - 130	2	30
1,2-Dichloroethane	50.0	49.0		ug/Kg		98	68 - 139	1	30
cis-1,2-Dichloroethene	50.0	50.9		ug/Kg		102	70 - 130	0	30
trans-1,2-Dichloroethene	50.0	49.6		ug/Kg		99	67 - 130	2	30
1,1-Dichloroethene	50.0	48.6		ug/Kg		97	69 - 130	1	50
1,2-Dichloropropane	50.0	51.1		ug/Kg		102	70 - 130	1	30
Bromodichloromethane	50.0	48.9		ug/Kg		98	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	48.7		ug/Kg		97	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	47.3		ug/Kg		95	54 - 150	2	30
Methylene Chloride	50.0	45.3		ug/Kg		91	54 - 149	0	30
4-Methyl-2-pentanone	250	255		ug/Kg		102	34 - 150	1	30
2-Hexanone	250	260		ug/Kg		104	30 - 150	1	30
Methyl tert-butyl ether	50.0	67.1	*+	ug/Kg		134	70 - 130	1	30
Dibromochloromethane	50.0	46.5		ug/Kg		93	64 - 133	1	30
1,2-Dibromoethane	50.0	47.6		ug/Kg		95	48 - 150	1	30
Chlorobenzene	50.0	48.6		ug/Kg		97	70 - 130	0	30
Tetrachloroethene	50.0	57.7		ug/Kg		115	70 - 130	9	30
Ethylbenzene	50.0	50.1		ug/Kg		100	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-726263/5
Matrix: Solid
Analysis Batch: 726263

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			50.0	48.0		ug/Kg		96	70 - 130	2	30
1,1,1-Trichloroethane			50.0	47.9		ug/Kg		96	70 - 130	1	30
Styrene			50.0	48.8		ug/Kg		98	70 - 130	1	30
1,1,2-Trichloroethane			50.0	50.0		ug/Kg		100	56 - 146	1	30
Bromoform			50.0	46.2		ug/Kg		92	68 - 130	1	30
Isopropylbenzene			50.0	48.8		ug/Kg		98	70 - 130	0	30
Trichloroethene			50.0	48.0		ug/Kg		96	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	50.8		ug/Kg		102	64 - 130	0	30
Trichlorofluoromethane			50.0	53.9		ug/Kg		108	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	48.7		ug/Kg		97	70 - 130	1	40
1,3-Dichlorobenzene			50.0	50.1		ug/Kg		100	70 - 130	2	30
1,4-Dichlorobenzene			50.0	50.7		ug/Kg		101	70 - 130	2	30
Vinyl chloride			50.0	56.1		ug/Kg		112	70 - 130	3	30
1,2-Dichlorobenzene			50.0	50.4		ug/Kg		101	70 - 130	1	30
Xylenes, Total			100	98.7		ug/Kg		99	70 - 130	0	30
1,2-Dibromo-3-Chloropropane			50.0	51.6		ug/Kg		103	42 - 145	1	30
1,2,4-Trichlorobenzene			50.0	50.7		ug/Kg		101	70 - 130	4	30
Cyclohexane			50.0	48.8		ug/Kg		98	70 - 130	2	30
Methyl acetate			100	102		ug/Kg		102	22 - 150	1	30
Methylcyclohexane			50.0	49.7		ug/Kg		99	69 - 110	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*65 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 130*
Dibromofluoromethane (Surr)	*97*		*65 - 130*
4-Bromofluorobenzene (Surr)	*110*		*65 - 130*

Lab Sample ID: MB 680-726800/9
Matrix: Water
Analysis Batch: 726800

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<5.0		5.0		ug/L			06/21/22 13:28	1
Acetone	<10		10		ug/L			06/21/22 13:28	1
Carbon disulfide	<2.0		2.0		ug/L			06/21/22 13:28	1
Chloroethane	<5.0		5.0		ug/L			06/21/22 13:28	1
Chloromethane	<1.0		1.0		ug/L			06/21/22 13:28	1
2-Butanone (MEK)	<10		10		ug/L			06/21/22 13:28	1
Chloroform	<1.0		1.0		ug/L			06/21/22 13:28	1
1,1-Dichloroethane	<1.0		1.0		ug/L			06/21/22 13:28	1
Carbon tetrachloride	<1.0		1.0		ug/L			06/21/22 13:28	1
Benzene	<1.0		1.0		ug/L			06/21/22 13:28	1
1,2-Dichloroethane	<1.0		1.0		ug/L			06/21/22 13:28	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			06/21/22 13:28	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			06/21/22 13:28	1
1,1-Dichloroethene	<1.0		1.0		ug/L			06/21/22 13:28	1
1,2-Dichloropropane	<1.0		1.0		ug/L			06/21/22 13:28	1
Dichlorobromomethane	<1.0		1.0		ug/L			06/21/22 13:28	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-726800/9
Matrix: Water
Analysis Batch: 726800

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			06/21/22 13:28	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			06/21/22 13:28	1
Methylene Chloride	<5.0		5.0		ug/L			06/21/22 13:28	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			06/21/22 13:28	1
2-Hexanone	<10		10		ug/L			06/21/22 13:28	1
Methyl tert-butyl ether	<5.0		5.0		ug/L			06/21/22 13:28	1
Chlorodibromomethane	<1.0		1.0		ug/L			06/21/22 13:28	1
Ethylene Dibromide	<1.0		1.0		ug/L			06/21/22 13:28	1
Chlorobenzene	<1.0		1.0		ug/L			06/21/22 13:28	1
Tetrachloroethene	<0.50		0.50		ug/L			06/21/22 13:28	1
Ethylbenzene	<1.0		1.0		ug/L			06/21/22 13:28	1
Toluene	<1.0		1.0		ug/L			06/21/22 13:28	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			06/21/22 13:28	1
Styrene	<1.0		1.0		ug/L			06/21/22 13:28	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			06/21/22 13:28	1
Bromoform	<1.0		1.0		ug/L			06/21/22 13:28	1
Isopropylbenzene	<1.0		1.0		ug/L			06/21/22 13:28	1
Trichloroethene	<1.0		1.0		ug/L			06/21/22 13:28	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			06/21/22 13:28	1
Trichlorofluoromethane	<1.0		1.0		ug/L			06/21/22 13:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0		ug/L			06/21/22 13:28	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			06/21/22 13:28	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			06/21/22 13:28	1
Vinyl chloride	<1.0		1.0		ug/L			06/21/22 13:28	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			06/21/22 13:28	1
Xylenes, Total	<1.0		1.0		ug/L			06/21/22 13:28	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			06/21/22 13:28	1
1,2,4-Trichlorobenzene	<5.0		5.0		ug/L			06/21/22 13:28	1
Cyclohexane	<1.0		1.0		ug/L			06/21/22 13:28	1
Methyl acetate	<5.0		5.0		ug/L			06/21/22 13:28	1
Methylcyclohexane	<1.0		1.0		ug/L			06/21/22 13:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*06/21/22 13:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*06/21/22 13:28*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*06/21/22 13:28*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*06/21/22 13:28*	*1*

Lab Sample ID: LCS 680-726800/4
Matrix: Water
Analysis Batch: 726800

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	60.8		ug/L		122	28 - 192
Acetone	250	247		ug/L		99	67 - 120
Carbon disulfide	50.0	41.0		ug/L		82	70 - 130
Chloroethane	50.0	58.7		ug/L		117	31 - 213
Chloromethane	50.0	71.0	*+	ug/L		142	59 - 127

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-726800/4
Matrix: Water
Analysis Batch: 726800

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	250	250		ug/L		100	69 - 120
Chloroform	50.0	50.3		ug/L		101	70 - 130
1,1-Dichloroethane	50.0	50.2		ug/L		100	70 - 130
Carbon tetrachloride	50.0	49.8		ug/L		100	70 - 130
Benzene	50.0	49.9		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	48.0		ug/L		96	70 - 130
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	44.9		ug/L		90	70 - 130
1,2-Dichloropropane	50.0	50.2		ug/L		100	70 - 130
Dichlorobromomethane	50.0	49.5		ug/L		99	70 - 130
cis-1,3-Dichloropropene	50.0	50.7		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	50.8		ug/L		102	70 - 130
Methylene Chloride	50.0	53.1		ug/L		106	70 - 130
4-Methyl-2-pentanone (MIBK)	250	264		ug/L		106	68 - 120
2-Hexanone	250	258		ug/L		103	70 - 130
Methyl tert-butyl ether	50.0	51.8		ug/L		104	70 - 130
Chlorodibromomethane	50.0	52.9		ug/L		106	70 - 130
Ethylene Dibromide	50.0	53.2		ug/L		106	70 - 130
Chlorobenzene	50.0	50.1		ug/L		100	70 - 130
Tetrachloroethene	50.0	49.3		ug/L		99	70 - 130
Ethylbenzene	50.0	50.2		ug/L		100	70 - 130
Toluene	50.0	51.2		ug/L		102	70 - 130
1,1,1-Trichloroethane	50.0	50.1		ug/L		100	70 - 130
Styrene	50.0	53.3		ug/L		107	70 - 130
1,1,2-Trichloroethane	50.0	50.7		ug/L		101	70 - 130
Bromoform	50.0	51.7		ug/L		103	69 - 129
Isopropylbenzene	50.0	51.8		ug/L		104	70 - 130
Trichloroethene	50.0	52.0		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.7		ug/L		95	70 - 130
Trichlorofluoromethane	50.0	50.7		ug/L		101	63 - 142
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.0		ug/L		86	63 - 141
1,3-Dichlorobenzene	50.0	49.4		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	48.8		ug/L		98	70 - 130
Vinyl chloride	50.0	77.0	*+	ug/L		154	66 - 129
1,2-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 130
Xylenes, Total	100	102		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.6		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	50.0	50.1		ug/L		100	70 - 130
Cyclohexane	50.0	47.0		ug/L		94	23 - 175
Methyl acetate	100	101		ug/L		101	67 - 120
Methylcyclohexane	50.0	47.4		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-726800/4
Matrix: Water
Analysis Batch: 726800

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 680-726800/5
Matrix: Water
Analysis Batch: 726800

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane			50.0	58.4		ug/L		117	28 - 192	4	30
Acetone			250	243		ug/L		97	67 - 120	2	30
Carbon disulfide			50.0	44.5		ug/L		89	70 - 130	8	30
Chloroethane			50.0	55.8		ug/L		112	31 - 213	5	30
Chloromethane			50.0	67.5	*+	ug/L		135	59 - 127	5	30
2-Butanone (MEK)			250	252		ug/L		101	69 - 120	1	30
Chloroform			50.0	49.9		ug/L		100	70 - 130	1	30
1,1-Dichloroethane			50.0	49.5		ug/L		99	70 - 130	2	30
Carbon tetrachloride			50.0	48.5		ug/L		97	70 - 130	3	30
Benzene			50.0	49.0		ug/L		98	70 - 130	2	30
1,2-Dichloroethane			50.0	51.3		ug/L		103	70 - 130	7	50
cis-1,2-Dichloroethene			50.0	49.4		ug/L		99	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	48.9		ug/L		98	70 - 130	2	30
1,1-Dichloroethene			50.0	38.9		ug/L		78	70 - 130	14	20
1,2-Dichloropropane			50.0	50.2		ug/L		100	70 - 130	0	20
Dichlorobromomethane			50.0	49.6		ug/L		99	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	49.4		ug/L		99	70 - 130	3	20
trans-1,3-Dichloropropene			50.0	50.2		ug/L		100	70 - 130	1	30
Methylene Chloride			50.0	51.7		ug/L		103	70 - 130	3	30
4-Methyl-2-pentanone (MIBK)			250	259		ug/L		103	68 - 120	2	30
2-Hexanone			250	253		ug/L		101	70 - 130	2	20
Methyl tert-butyl ether			50.0	51.4		ug/L		103	70 - 130	1	30
Chlorodibromomethane			50.0	51.6		ug/L		103	70 - 130	3	30
Ethylene Dibromide			50.0	52.1		ug/L		104	70 - 130	2	30
Chlorobenzene			50.0	49.9		ug/L		100	70 - 130	0	30
Tetrachloroethene			50.0	47.9		ug/L		96	70 - 130	3	30
Ethylbenzene			50.0	49.8		ug/L		100	70 - 130	1	20
Toluene			50.0	51.0		ug/L		102	70 - 130	0	30
1,1,1-Trichloroethane			50.0	48.9		ug/L		98	70 - 130	3	30
Styrene			50.0	53.0		ug/L		106	70 - 130	0	30
1,1,2-Trichloroethane			50.0	51.0		ug/L		102	70 - 130	1	30
Bromoform			50.0	51.9		ug/L		104	69 - 129	0	30
Isopropylbenzene			50.0	50.9		ug/L		102	70 - 130	2	30
Trichloroethene			50.0	51.8		ug/L		104	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	46.8		ug/L		94	70 - 130	2	30
Trichlorofluoromethane			50.0	47.9		ug/L		96	63 - 142	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	40.8		ug/L		82	63 - 141	5	30
1,3-Dichlorobenzene			50.0	48.9		ug/L		98	70 - 130	1	30
1,4-Dichlorobenzene			50.0	48.7		ug/L		97	70 - 130	0	30
Vinyl chloride			50.0	72.5	*+	ug/L		145	66 - 129	6	30
1,2-Dichlorobenzene			50.0	49.6		ug/L		99	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-726800/5
Matrix: Water
Analysis Batch: 726800

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	100		ug/L		100	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			50.0	48.5		ug/L		97	70 - 130	4	30
1,2,4-Trichlorobenzene			50.0	49.0		ug/L		98	70 - 130	2	30
Cyclohexane			50.0	44.5		ug/L		89	23 - 175	6	30
Methyl acetate			100	96.3		ug/L		96	67 - 120	4	30
Methylcyclohexane			50.0	44.9		ug/L		90	70 - 130	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 680-725230/13-A
Matrix: Solid
Analysis Batch: 725866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 725230

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Acenaphthylene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Acetophenone	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Anthracene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Atrazine	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Benzaldehyde	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Benzo[a]anthracene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Benzo[a]pyrene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Benzo[b]fluoranthene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Benzo[g,h,i]perylene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Benzo[k]fluoranthene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
1,1'-Biphenyl	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Bis(2-chloroethoxy)methane	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Bis(2-chloroethyl)ether	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Bis(2-ethylhexyl) phthalate	<130		130		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
4-Bromophenyl phenyl ether	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Butyl benzyl phthalate	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Caprolactam	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Carbazole	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
4-Chloroaniline	<130		130		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
4-Chloro-3-methylphenol	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2-Chloronaphthalene	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2-Chlorophenol	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
4-Chlorophenyl phenyl ether	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Chrysene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Dibenz(a,h)anthracene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Dibenzofuran	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
3,3'-Dichlorobenzidine	<130		130		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2,4-Dichlorophenol	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 680-725230/13-A
Matrix: Solid
Analysis Batch: 725866

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 725230

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2,4-Dimethylphenol	<130		130		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Dimethyl phthalate	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Di-n-butyl phthalate	<340		340		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
4,6-Dinitro-2-methylphenol	<340		340		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2,4-Dinitrophenol	<660		660		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2,4-Dinitrotoluene	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2,6-Dinitrotoluene	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Di-n-octyl phthalate	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Fluoranthene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Fluorene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Hexachlorobenzene	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Hexachlorobutadiene	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Hexachlorocyclopentadiene	<130		130		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Hexachloroethane	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Indeno[1,2,3-cd]pyrene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Isophorone	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2-Methylnaphthalene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2-Methylphenol	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
3 & 4 Methylphenol	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Naphthalene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2-Nitroaniline	<340		340		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
3-Nitroaniline	<340		340		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
4-Nitroaniline	<340		340		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Nitrobenzene	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2-Nitrophenol	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
4-Nitrophenol	<340		340		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
N-Nitrosodi-n-propylamine	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
N-Nitrosodiphenylamine	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2,2'-oxybis[1-chloropropane]	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Pentachlorophenol	<340		340		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Phenanthrene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Phenol	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
Pyrene	<6.7		6.7		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2,4,5-Trichlorophenol	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1
2,4,6-Trichlorophenol	<66		66		ug/Kg		06/10/22 15:30	06/15/22 16:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*11 - 130*	*06/10/22 15:30*	*06/15/22 16:23*	*1*
2-Fluorophenol (Surr)	*67*		*10 - 130*	*06/10/22 15:30*	*06/15/22 16:23*	*1*
Nitrobenzene-d5 (Surr)	*63*		*18 - 130*	*06/10/22 15:30*	*06/15/22 16:23*	*1*
Phenol-d5 (Surr)	*64*		*10 - 130*	*06/10/22 15:30*	*06/15/22 16:23*	*1*
Terphenyl-d14 (Surr)	*84*		*27 - 130*	*06/10/22 15:30*	*06/15/22 16:23*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*24 - 130*	*06/10/22 15:30*	*06/15/22 16:23*	*1*

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 680-725230/14-A
Matrix: Solid
Analysis Batch: 725866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 725230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	655	397		ug/Kg		61	13 - 130
Acenaphthylene	655	506		ug/Kg		77	10 - 130
Acetophenone	655	411		ug/Kg		63	14 - 130
Anthracene	655	499		ug/Kg		76	18 - 130
Atrazine	655	415		ug/Kg		63	10 - 130
Benzaldehyde	655	446		ug/Kg		68	10 - 130
Benzo[a]anthracene	655	552		ug/Kg		84	16 - 130
Benzo[a]pyrene	655	561		ug/Kg		86	18 - 139
Benzo[b]fluoranthene	655	546		ug/Kg		83	18 - 130
Benzo[g,h,i]perylene	655	554		ug/Kg		85	21 - 130
Benzo[k]fluoranthene	655	540		ug/Kg		82	22 - 130
1,1'-Biphenyl	655	457		ug/Kg		70	10 - 130
Bis(2-chloroethoxy)methane	655	402		ug/Kg		61	15 - 130
Bis(2-chloroethyl)ether	655	408		ug/Kg		62	11 - 130
Bis(2-ethylhexyl) phthalate	655	652		ug/Kg		100	29 - 130
4-Bromophenyl phenyl ether	655	466		ug/Kg		71	13 - 130
Butyl benzyl phthalate	655	582		ug/Kg		89	30 - 130
Caprolactam	655	394		ug/Kg		60	10 - 130
Carbazole	655	605		ug/Kg		92	23 - 171
4-Chloroaniline	655	353		ug/Kg		54	10 - 130
4-Chloro-3-methylphenol	655	469		ug/Kg		72	18 - 130
2-Chloronaphthalene	655	470		ug/Kg		72	14 - 130
2-Chlorophenol	655	439		ug/Kg		67	10 - 130
4-Chlorophenyl phenyl ether	655	455		ug/Kg		69	15 - 130
Chrysene	655	487		ug/Kg		74	12 - 130
Dibenz(a,h)anthracene	655	553		ug/Kg		84	17 - 130
Dibenzofuran	655	511		ug/Kg		78	20 - 130
3,3'-Dichlorobenzidine	2620	2360	E	ug/Kg		90	10 - 200
2,4-Dichlorophenol	655	535		ug/Kg		82	10 - 130
Diethyl phthalate	655	574		ug/Kg		88	24 - 130
2,4-Dimethylphenol	655	477		ug/Kg		73	10 - 134
Dimethyl phthalate	655	546		ug/Kg		83	20 - 130
Di-n-butyl phthalate	655	570		ug/Kg		87	10 - 130
4,6-Dinitro-2-methylphenol	1310	907		ug/Kg		69	14 - 130
2,4-Dinitrophenol	1310	855		ug/Kg		65	10 - 130
2,4-Dinitrotoluene	655	459		ug/Kg		70	19 - 130
2,6-Dinitrotoluene	655	419		ug/Kg		64	18 - 130
Di-n-octyl phthalate	655	633		ug/Kg		97	10 - 130
Fluoranthene	655	535		ug/Kg		82	14 - 130
Fluorene	655	529		ug/Kg		81	10 - 130
Hexachlorobenzene	655	504		ug/Kg		77	12 - 130
Hexachlorobutadiene	655	459		ug/Kg		70	10 - 130
Hexachlorocyclopentadiene	655	465		ug/Kg		71	10 - 130
Hexachloroethane	655	407		ug/Kg		62	10 - 130
Indeno[1,2,3-cd]pyrene	655	555		ug/Kg		85	11 - 130
Isophorone	655	410		ug/Kg		63	14 - 130
2-Methylnaphthalene	655	454		ug/Kg		69	20 - 130
2-Methylphenol	655	424		ug/Kg		65	10 - 130

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 680-725230/14-A
Matrix: Solid
Analysis Batch: 725866

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 725230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3 & 4 Methylphenol	655	442		ug/Kg		68	10 - 130
Naphthalene	655	467		ug/Kg		71	10 - 130
2-Nitroaniline	655	497		ug/Kg		76	21 - 130
3-Nitroaniline	655	419		ug/Kg		64	10 - 134
4-Nitroaniline	655	532		ug/Kg		81	14 - 143
Nitrobenzene	655	396		ug/Kg		61	11 - 130
2-Nitrophenol	655	468		ug/Kg		72	10 - 130
4-Nitrophenol	1310	974		ug/Kg		74	11 - 130
N-Nitrosodi-n-propylamine	655	349		ug/Kg		53	16 - 130
N-Nitrosodiphenylamine	655	521		ug/Kg		80	22 - 130
2,2'-oxybis[1-chloropropane]	655	273		ug/Kg		42	10 - 130
Pentachlorophenol	1310	798		ug/Kg		61	10 - 130
Phenanthrene	655	542		ug/Kg		83	18 - 130
Phenol	655	366		ug/Kg		56	10 - 130
Pyrene	655	528		ug/Kg		81	11 - 136
2,4,5-Trichlorophenol	655	538		ug/Kg		82	16 - 130
2,4,6-Trichlorophenol	655	519		ug/Kg		79	15 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*11 - 130*
2-Fluorophenol (Surr)	*63*		*10 - 130*
Nitrobenzene-d5 (Surr)	*66*		*18 - 130*
Phenol-d5 (Surr)	*62*		*10 - 130*
Terphenyl-d14 (Surr)	*74*		*27 - 130*
2,4,6-Tribromophenol (Surr)	*76*		*24 - 130*

Lab Sample ID: 680-216698-6 MS
Matrix: Solid
Analysis Batch: 726535

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	<180		718	822		ug/Kg	☼	114	13 - 130
Acenaphthylene	7800		718	9210	4	ug/Kg	☼	190	10 - 130
Acetophenone	<360		718	504		ug/Kg	☼	70	14 - 130
Anthracene	6900		718	7490	4	ug/Kg	☼	79	18 - 130
Atrazine	<410	F1	718	580		ug/Kg	☼	81	10 - 130
Benzaldehyde	<530	F1	718	<530	F1	ug/Kg	☼	0	10 - 130
Benzo[a]anthracene	29000		718	30900	4	ug/Kg	☼	225	16 - 130
Benzo[a]pyrene	48000		718	55200	4	ug/Kg	☼	957	18 - 139
Benzo[b]fluoranthene	100000	E	718	110000	E 4	ug/Kg	☼	1412	18 - 130
Benzo[g,h,i]perylene	9600		718	10600	4	ug/Kg	☼	128	21 - 130
Benzo[k]fluoranthene	27000		718	33500	4	ug/Kg	☼	963	22 - 130
1,1'-Biphenyl	<390		718	906		ug/Kg	☼	126	10 - 130
Bis(2-chloroethoxy)methane	<350		718	562		ug/Kg	☼	78	15 - 130
Bis(2-chloroethyl)ether	<350	F1	718	<350	F1	ug/Kg	☼	0	11 - 130
Bis(2-ethylhexyl) phthalate	<320		718	925		ug/Kg	☼	129	29 - 130
4-Bromophenyl phenyl ether	<370		718	650		ug/Kg	☼	91	13 - 130
Butyl benzyl phthalate	<290		718	635		ug/Kg	☼	88	30 - 130

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-216698-6 MS
Matrix: Solid
Analysis Batch: 726535

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Caprolactam	<380	F1	718	3360	F1	ug/Kg	☼	468	10 - 130
Carbazole	4000		718	4740	4	ug/Kg	☼	98	23 - 171
4-Chloroaniline	<280	F1	718	<280	F1	ug/Kg	☼	0	10 - 130
4-Chloro-3-methylphenol	<380		718	555		ug/Kg	☼	77	18 - 130
2-Chloronaphthalene	<320		718	586		ug/Kg	☼	82	14 - 130
2-Chlorophenol	<280		718	489		ug/Kg	☼	68	10 - 130
4-Chlorophenyl phenyl ether	<340		718	679		ug/Kg	☼	95	15 - 130
Chrysene	38000		718	43600	4	ug/Kg	☼	749	12 - 130
Dibenz(a,h)anthracene	5700		718	6150	4	ug/Kg	☼	63	17 - 130
Dibenzofuran	900		718	1470		ug/Kg	☼	80	20 - 130
3,3'-Dichlorobenzidine	<910	F1	2870	<920	F1	ug/Kg	☼	0	10 - 200
2,4-Dichlorophenol	<390		718	603		ug/Kg	☼	84	10 - 130
Diethyl phthalate	<400		718	661		ug/Kg	☼	92	24 - 130
2,4-Dimethylphenol	<410		718	743		ug/Kg	☼	103	10 - 134
Dimethyl phthalate	<400		718	612		ug/Kg	☼	85	20 - 130
Di-n-butyl phthalate	<910		718	<920		ug/Kg	☼	NC	10 - 130
4,6-Dinitro-2-methylphenol	<910	F1	1440	1510		ug/Kg	☼	105	14 - 130
2,4-Dinitrophenol	<7000		1440	<7000		ug/Kg	☼	NC	10 - 130
2,4-Dinitrotoluene	<400		718	627		ug/Kg	☼	87	19 - 130
2,6-Dinitrotoluene	<420		718	575		ug/Kg	☼	80	18 - 130
Di-n-octyl phthalate	<190		718	688		ug/Kg	☼	96	10 - 130
Fluoranthene	45000		718	46800	4	ug/Kg	☼	185	14 - 130
Fluorene	480		718	868		ug/Kg	☼	54	10 - 130
Hexachlorobenzene	<410		718	656		ug/Kg	☼	91	12 - 130
Hexachlorobutadiene	<360		718	570		ug/Kg	☼	79	10 - 130
Hexachlorocyclopentadiene	<200	F1	718	<200	F1	ug/Kg	☼	0	10 - 130
Hexachloroethane	<310		718	437		ug/Kg	☼	61	10 - 130
Indeno[1,2,3-cd]pyrene	12000		718	14400	4	ug/Kg	☼	270	11 - 130
Isophorone	<380		718	561		ug/Kg	☼	78	14 - 130
2-Methylnaphthalene	770		718	1260		ug/Kg	☼	69	20 - 130
2-Methylphenol	<340		718	533		ug/Kg	☼	74	10 - 130
3 & 4 Methylphenol	<390		718	605		ug/Kg	☼	84	10 - 130
Naphthalene	1800	F1	718	2060		ug/Kg	☼	37	10 - 130
2-Nitroaniline	<380		718	706		ug/Kg	☼	98	21 - 130
3-Nitroaniline	<360	F1	718	<360	F1	ug/Kg	☼	0	10 - 134
4-Nitroaniline	<440	F1	718	<450	F1	ug/Kg	☼	0	14 - 143
Nitrobenzene	<350	F2	718	686		ug/Kg	☼	96	11 - 130
2-Nitrophenol	<310		718	430		ug/Kg	☼	60	10 - 130
4-Nitrophenol	<3900		1440	<3900		ug/Kg	☼	NC	11 - 130
N-Nitrosodi-n-propylamine	<400	F1	718	<400	F1	ug/Kg	☼	0	16 - 130
N-Nitrosodiphenylamine	<330		718	733		ug/Kg	☼	102	22 - 130
2,2'-oxybis[1-chloropropane]	<390	F1	718	<390	F1	ug/Kg	☼	0	10 - 130
Pentachlorophenol	22000		1440	20900	4	ug/Kg	☼	-97	10 - 130
Phenanthrene	4800		718	5170	4	ug/Kg	☼	57	18 - 130
Phenol	<350		718	532		ug/Kg	☼	74	10 - 130
Pyrene	52000		718	57900	4	ug/Kg	☼	876	11 - 136
2,4,5-Trichlorophenol	<410		718	860		ug/Kg	☼	120	16 - 130
2,4,6-Trichlorophenol	<420		718	711		ug/Kg	☼	99	15 - 130

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-216698-6 MS
Matrix: Solid
Analysis Batch: 726535

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725230

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	0	D	11 - 130
2-Fluorophenol (Surr)	0	D	10 - 130
Nitrobenzene-d5 (Surr)	0	D	18 - 130
Phenol-d5 (Surr)	0	D	10 - 130
Terphenyl-d14 (Surr)	0	D	27 - 130
2,4,6-Tribromophenol (Surr)	0	D	24 - 130

Lab Sample ID: 680-216698-6 MSD
Matrix: Solid
Analysis Batch: 726535

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725230

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	<180		727	812		ug/Kg	☼	112	13 - 130	1	50
Acenaphthylene	7800		727	7860	4	ug/Kg	☼	1	10 - 130	16	50
Acetophenone	<360		727	424		ug/Kg	☼	58	14 - 130	17	50
Anthracene	6900		727	7200	4	ug/Kg	☼	38	18 - 130	4	50
Atrazine	<410	F1	727	<410	F1	ug/Kg	☼	0	10 - 130	NC	50
Benzaldehyde	<530	F1	727	698		ug/Kg	☼	96	10 - 130	NC	50
Benzo[a]anthracene	29000		727	43700	4	ug/Kg	☼	1985	16 - 130	34	50
Benzo[a]pyrene	48000		727	57000	4	ug/Kg	☼	1195	18 - 139	3	50
Benzo[b]fluoranthene	100000	E	727	118000	E 4	ug/Kg	☼	2542	18 - 130	7	50
Benzo[g,h,i]perylene	9600		727	10400	4	ug/Kg	☼	97	21 - 130	2	50
Benzo[k]fluoranthene	27000		727	37400	4	ug/Kg	☼	1480	22 - 130	11	50
1,1'-Biphenyl	<390		727	667		ug/Kg	☼	92	10 - 130	30	50
Bis(2-chloroethoxy)methane	<350		727	371		ug/Kg	☼	51	15 - 130	41	50
Bis(2-chloroethyl)ether	<350	F1	727	<350	F1	ug/Kg	☼	0	11 - 130	NC	50
Bis(2-ethylhexyl) phthalate	<320		727	875		ug/Kg	☼	120	29 - 130	6	50
4-Bromophenyl phenyl ether	<370		727	670		ug/Kg	☼	92	13 - 130	3	50
Butyl benzyl phthalate	<290		727	686		ug/Kg	☼	94	30 - 130	8	50
Caprolactam	<380	F1	727	3200	F1	ug/Kg	☼	439	10 - 130	5	50
Carbazole	4000		727	4580	4	ug/Kg	☼	75	23 - 171	3	50
4-Chloroaniline	<280	F1	727	<280	F1	ug/Kg	☼	0	10 - 130	NC	50
4-Chloro-3-methylphenol	<380		727	459		ug/Kg	☼	63	18 - 130	19	50
2-Chloronaphthalene	<320		727	557		ug/Kg	☼	77	14 - 130	5	50
2-Chlorophenol	<280		727	556		ug/Kg	☼	76	10 - 130	13	50
4-Chlorophenyl phenyl ether	<340		727	580		ug/Kg	☼	80	15 - 130	16	50
Chrysene	38000		727	55200	4	ug/Kg	☼	2340	12 - 130	24	50
Dibenz(a,h)anthracene	5700		727	5920	4	ug/Kg	☼	31	17 - 130	4	50
Dibenzofuran	900		727	1190		ug/Kg	☼	41	20 - 130	21	50
3,3'-Dichlorobenzidine	<910	F1	2910	<930	F1	ug/Kg	☼	0	10 - 200	NC	50
2,4-Dichlorophenol	<390		727	515		ug/Kg	☼	71	10 - 130	16	50
Diethyl phthalate	<400		727	622		ug/Kg	☼	86	24 - 130	6	50
2,4-Dimethylphenol	<410		727	659		ug/Kg	☼	91	10 - 134	12	50
Dimethyl phthalate	<400		727	575		ug/Kg	☼	79	20 - 130	6	50
Di-n-butyl phthalate	<910		727	<930		ug/Kg	☼	NC	10 - 130	NC	50
4,6-Dinitro-2-methylphenol	<910	F1	1450	<930	F1	ug/Kg	☼	0	14 - 130	NC	50
2,4-Dinitrophenol	<7000		1450	<7100		ug/Kg	☼	NC	10 - 130	NC	50
2,4-Dinitrotoluene	<400		727	581		ug/Kg	☼	80	19 - 130	8	50

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-216698-6 MSD
Matrix: Solid
Analysis Batch: 726535

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725230

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,6-Dinitrotoluene	<420		727	656		ug/Kg	☼	90	18 - 130	13	50
Di-n-octyl phthalate	<190		727	736		ug/Kg	☼	101	10 - 130	7	50
Fluoranthene	45000		727	74600	E 4	ug/Kg	☼	4005	14 - 130	46	50
Fluorene	480		727	1030		ug/Kg	☼	76	10 - 130	17	50
Hexachlorobenzene	<410		727	445		ug/Kg	☼	61	12 - 130	38	50
Hexachlorobutadiene	<360		727	422		ug/Kg	☼	58	10 - 130	30	50
Hexachlorocyclopentadiene	<200	F1	727	<200	F1	ug/Kg	☼	0	10 - 130	NC	50
Hexachloroethane	<310		727	512		ug/Kg	☼	70	10 - 130	16	50
Indeno[1,2,3-cd]pyrene	12000		727	14000	4	ug/Kg	☼	205	11 - 130	3	50
Isophorone	<380		727	491		ug/Kg	☼	67	14 - 130	13	50
2-Methylnaphthalene	770		727	1070		ug/Kg	☼	42	20 - 130	16	50
2-Methylphenol	<340		727	433		ug/Kg	☼	59	10 - 130	21	50
3 & 4 Methylphenol	<390		727	571		ug/Kg	☼	78	10 - 130	6	50
Naphthalene	1800	F1	727	1800	F1	ug/Kg	☼	1	10 - 130	13	50
2-Nitroaniline	<380		727	752		ug/Kg	☼	103	21 - 130	6	50
3-Nitroaniline	<360	F1	727	<370	F1	ug/Kg	☼	0	10 - 134	NC	50
4-Nitroaniline	<440	F1	727	<450	F1	ug/Kg	☼	0	14 - 143	NC	50
Nitrobenzene	<350	F2	727	407	F2	ug/Kg	☼	56	11 - 130	51	50
2-Nitrophenol	<310		727	579		ug/Kg	☼	80	10 - 130	29	50
4-Nitrophenol	<3900		1450	<4000		ug/Kg	☼	NC	11 - 130	NC	50
N-Nitrosodi-n-propylamine	<400	F1	727	419		ug/Kg	☼	58	16 - 130	NC	50
N-Nitrosodiphenylamine	<330		727	550		ug/Kg	☼	76	22 - 130	29	50
2,2'-oxybis[1-chloropropane]	<390	F1	727	<390	F1	ug/Kg	☼	0	10 - 130	NC	50
Pentachlorophenol	22000		1450	22000	4	ug/Kg	☼	-21	10 - 130	5	50
Phenanthrene	4800		727	6550	4	ug/Kg	☼	247	18 - 130	24	50
Phenol	<350		727	396		ug/Kg	☼	54	10 - 130	29	50
Pyrene	52000		727	83200	E 4	ug/Kg	☼	4341	11 - 136	36	50
2,4,5-Trichlorophenol	<410		727	579		ug/Kg	☼	80	16 - 130	39	50
2,4,6-Trichlorophenol	<420		727	458		ug/Kg	☼	63	15 - 130	43	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*0*	*D*	*11 - 130*
2-Fluorophenol (Surr)	*0*	*D*	*10 - 130*
Nitrobenzene-d5 (Surr)	*0*	*D*	*18 - 130*
Phenol-d5 (Surr)	*0*	*D*	*10 - 130*
Terphenyl-d14 (Surr)	*0*	*D*	*27 - 130*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*24 - 130*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-725225/13-A
Matrix: Solid
Analysis Batch: 725540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 725225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
alpha-BHC	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 680-725225/13-A
Matrix: Solid
Analysis Batch: 725540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 725225

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
Chlordane (technical)	<8.5		8.5		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
4,4'-DDD	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
4,4'-DDE	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
4,4'-DDT	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
delta-BHC	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
Dieldrin	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
Endosulfan I	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
Endosulfan II	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
Endosulfan sulfate	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
Endrin	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
Endrin aldehyde	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
Endrin ketone	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
gamma-BHC (Lindane)	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
Heptachlor	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
Heptachlor epoxide	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
Methoxychlor	<0.85		0.85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
PCB-1016	<20		20		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
PCB-1221	<17		17		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
PCB-1232	<17		17		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
PCB-1242	<17		17		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
PCB-1248	<17		17		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
PCB-1254	<17		17		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
PCB-1260	<17		17		ug/Kg		06/10/22 11:12	06/13/22 19:32	1
Toxaphene	<85		85		ug/Kg		06/10/22 11:12	06/13/22 19:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*133*		*25 - 138*	*06/10/22 11:12*	*06/13/22 19:32*	*1*
Tetrachloro-m-xylene	*102*		*22 - 130*	*06/10/22 11:12*	*06/13/22 19:32*	*1*

Lab Sample ID: LCS 680-725225/14-A
Matrix: Solid
Analysis Batch: 725540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 725225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	3.23	3.48		ug/Kg		108	34 - 131
alpha-BHC	3.23	3.30		ug/Kg		102	30 - 132
beta-BHC	3.23	3.46		ug/Kg		107	40 - 132
4,4'-DDD	3.23	4.14		ug/Kg		128	35 - 148
4,4'-DDE	3.23	3.77		ug/Kg		117	34 - 142
4,4'-DDT	3.23	4.86		ug/Kg		151	31 - 156
delta-BHC	3.23	3.72		ug/Kg		115	34 - 135
Dieldrin	3.23	3.95		ug/Kg		122	37 - 140
Endosulfan I	3.23	3.39		ug/Kg		105	25 - 134
Endosulfan II	3.23	3.94		ug/Kg		122	36 - 132
Endosulfan sulfate	3.23	4.07		ug/Kg		126	39 - 144
Endrin	3.23	4.43		ug/Kg		137	38 - 150

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCS 680-725225/14-A
Matrix: Solid
Analysis Batch: 725540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 725225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Endrin aldehyde	3.23	3.60		ug/Kg		111	10 - 152
Endrin ketone	3.23	6.75	*+	ug/Kg		209	44 - 150
gamma-BHC (Lindane)	3.23	3.46		ug/Kg		107	33 - 131
Heptachlor	3.23	3.76		ug/Kg		117	32 - 131
Heptachlor epoxide	3.23	3.63		ug/Kg		112	38 - 135
Methoxychlor	3.23	5.01		ug/Kg		155	39 - 164

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*138*		*25 - 138*
Tetrachloro-m-xylene	*105*		*22 - 130*

Lab Sample ID: LCS 680-725225/17-A
Matrix: Solid
Analysis Batch: 725540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 725225

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	198	231		ug/Kg		117	22 - 130
PCB-1260	198	265		ug/Kg		134	24 - 151

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*137*		*25 - 138*
Tetrachloro-m-xylene	*108*		*22 - 130*

Lab Sample ID: 680-216698-6 MS
Matrix: Solid
Analysis Batch: 725540

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725225

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	<0.85		3.64	<0.85	F1	ug/Kg	☼	0	34 - 131
alpha-BHC	<0.85		3.64	<0.85	F1	ug/Kg	☼	0	30 - 132
beta-BHC	<1.8		3.64	<1.9	F1	ug/Kg	☼	0	40 - 132
4,4'-DDD	<0.94		3.64	<0.98	F1	ug/Kg	☼	0	35 - 148
4,4'-DDE	<0.94		3.64	<0.98	F1	ug/Kg	☼	0	34 - 142
4,4'-DDT	<1.2		3.64	<1.2	F1	ug/Kg	☼	0	31 - 156
delta-BHC	<1.0		3.64	<1.0	F1	ug/Kg	☼	0	34 - 135
Dieldrin	<0.89		3.64	<0.93	F1	ug/Kg	☼	0	37 - 140
Endosulfan I	<0.89		3.64	<0.93	F1	ug/Kg	☼	0	25 - 134
Endosulfan II	<0.85		3.64	<0.85	F1	ug/Kg	☼	0	36 - 132
Endosulfan sulfate	<1.2		3.64	<1.2	F1	ug/Kg	☼	0	39 - 144
Endrin	<1.2		3.64	<1.2	F1	ug/Kg	☼	0	38 - 150
Endrin aldehyde	<1.2		3.64	<1.2	F1	ug/Kg	☼	0	10 - 152
Endrin ketone	92	p *+	3.64	133	p 4	ug/Kg	☼	1137	44 - 150
gamma-BHC (Lindane)	<0.85		3.64	<0.85	F1	ug/Kg	☼	0	33 - 131
Heptachlor	<1.0		3.64	<1.0	F1	ug/Kg	☼	0	32 - 131
Heptachlor epoxide	<0.85		3.64	<0.87	F1	ug/Kg	☼	0	38 - 135
Methoxychlor	<1.5		3.64	<1.5	F1	ug/Kg	☼	0	39 - 164

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 680-216698-6 MS
Matrix: Solid
Analysis Batch: 725540

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725225

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*0*	*D*	*25 - 138*
Tetrachloro-m-xylene	*0*	*D*	*22 - 130*

Lab Sample ID: 680-216698-6 MSD
Matrix: Solid
Analysis Batch: 725540

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725225

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	<0.85		3.56	<0.85	F1	ug/Kg	☼	0	34 - 131	NC	50
alpha-BHC	<0.85		3.56	<0.85	F1	ug/Kg	☼	0	30 - 132	NC	50
beta-BHC	<1.8		3.56	<1.8	F1	ug/Kg	☼	0	40 - 132	NC	50
4,4'-DDD	<0.94		3.56	<0.96	F1	ug/Kg	☼	0	35 - 148	NC	50
4,4'-DDE	<0.94		3.56	<0.96	F1	ug/Kg	☼	0	34 - 142	NC	50
4,4'-DDT	<1.2		3.56	<1.2	F1	ug/Kg	☼	0	31 - 156	NC	50
delta-BHC	<1.0		3.56	<1.0	F1	ug/Kg	☼	0	34 - 135	NC	50
Dieldrin	<0.89		3.56	<0.91	F1	ug/Kg	☼	0	37 - 140	NC	50
Endosulfan I	<0.89		3.56	<0.91	F1	ug/Kg	☼	0	25 - 134	NC	50
Endosulfan II	<0.85		3.56	<0.85	F1	ug/Kg	☼	0	36 - 132	NC	50
Endosulfan sulfate	<1.2		3.56	<1.2	F1	ug/Kg	☼	0	39 - 144	NC	50
Endrin	<1.2		3.56	<1.2	F1	ug/Kg	☼	0	38 - 150	NC	50
Endrin aldehyde	<1.2		3.56	<1.2	F1	ug/Kg	☼	0	10 - 152	NC	50
Endrin ketone	92	p *+	3.56	163	4	ug/Kg	☼	1992	44 - 150	20	50
gamma-BHC (Lindane)	<0.85		3.56	<0.85	F1	ug/Kg	☼	0	33 - 131	NC	50
Heptachlor	<1.0		3.56	<1.0	F1	ug/Kg	☼	0	32 - 131	NC	50
Heptachlor epoxide	<0.85		3.56	<0.85	F1	ug/Kg	☼	0	38 - 135	NC	50
Methoxychlor	<1.5		3.56	<1.5	F1	ug/Kg	☼	0	39 - 164	NC	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*0*	*D*	*25 - 138*
Tetrachloro-m-xylene	*0*	*D*	*22 - 130*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-725234/1-A
Matrix: Solid
Analysis Batch: 725429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 725234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<10		10		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Antimony	<1.0		1.0		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Arsenic	<0.30		0.30		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Barium	<0.50		0.50		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Beryllium	<0.050		0.050		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Cadmium	<0.050		0.050		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Calcium	<50		50		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Chromium	<1.0		1.0		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Cobalt	<0.050		0.050		mg/Kg		06/10/22 11:33	06/11/22 13:13	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-725234/1-A
Matrix: Solid
Analysis Batch: 725429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 725234

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.50		0.50		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Iron	<25		25		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Lead	<0.20		0.20		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Magnesium	<25		25		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Manganese	<1.0		1.0		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Nickel	<1.0		1.0		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Potassium	<25		25		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Selenium	<0.50		0.50		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Silver	<0.10		0.10		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Sodium	<40		40		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Thallium	<0.10		0.10		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Vanadium	<0.50		0.50		mg/Kg		06/10/22 11:33	06/11/22 13:13	1
Zinc	<2.0		2.0		mg/Kg		06/10/22 11:33	06/11/22 13:13	1

Lab Sample ID: LCS 680-725234/2-A
Matrix: Solid
Analysis Batch: 725429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 725234

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	500	543		mg/Kg		109	80 - 120
Antimony	5.00	5.33		mg/Kg		107	80 - 120
Arsenic	10.0	10.4		mg/Kg		104	80 - 120
Barium	10.0	10.5		mg/Kg		105	80 - 120
Beryllium	5.00	5.70		mg/Kg		114	80 - 120
Cadmium	5.00	5.26		mg/Kg		105	80 - 120
Calcium	500	551		mg/Kg		110	80 - 120
Chromium	10.0	10.7		mg/Kg		107	80 - 120
Cobalt	5.00	5.59		mg/Kg		112	80 - 120
Copper	9.91	11.6		mg/Kg		117	80 - 120
Iron	500	542		mg/Kg		108	80 - 120
Lead	50.5	52.7		mg/Kg		104	80 - 120
Magnesium	501	547		mg/Kg		109	80 - 120
Manganese	40.0	42.9		mg/Kg		107	80 - 120
Nickel	9.90	10.9		mg/Kg		110	80 - 120
Potassium	697	759		mg/Kg		109	80 - 120
Selenium	10.0	9.80		mg/Kg		98	80 - 120
Silver	5.00	5.32		mg/Kg		106	80 - 120
Sodium	505	524		mg/Kg		104	80 - 120
Thallium	4.00	4.21		mg/Kg		105	80 - 120
Vanadium	9.98	11.0		mg/Kg		110	80 - 120
Zinc	10.0	11.0		mg/Kg		110	80 - 120

Lab Sample ID: 680-216698-6 MS
Matrix: Solid
Analysis Batch: 725429

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	1200	F1	542	5190	F1	mg/Kg	☼	733	75 - 125
Antimony	<1.0		5.41	5.44		mg/Kg	☼	100	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-216698-6 MS
Matrix: Solid
Analysis Batch: 725429

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725234

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.3	F1	10.8	26.7	F1	mg/Kg	☼	207	75 - 125
Barium	4.7	F1	10.8	26.5	F1	mg/Kg	☼	202	75 - 125
Beryllium	<0.050		5.42	6.64		mg/Kg	☼	122	75 - 125
Cadmium	<0.050		5.42	5.97		mg/Kg	☼	110	75 - 125
Calcium	<50	F1	541	774	F1	mg/Kg	☼	135	75 - 125
Chromium	2.2	F1	10.8	18.4	F1	mg/Kg	☼	150	75 - 125
Cobalt	0.15		5.41	6.78		mg/Kg	☼	123	75 - 125
Copper	3.9	F1	10.7	27.9	F1	mg/Kg	☼	224	75 - 125
Iron	1400	F1	542	5190	F1	mg/Kg	☼	696	75 - 125
Lead	4.4	F1	54.7	73.6	F1	mg/Kg	☼	127	75 - 125
Magnesium	35	F1	543	749	F1	mg/Kg	☼	132	75 - 125
Manganese	10	F1	43.4	77.8	F1	mg/Kg	☼	157	75 - 125
Nickel	<1.0	F1	10.7	15.0	F1	mg/Kg	☼	133	75 - 125
Potassium	<25		755	928		mg/Kg	☼	120	75 - 125
Selenium	<0.50		10.9	11.2		mg/Kg	☼	101	75 - 125
Silver	<0.10		5.42	5.94		mg/Kg	☼	110	75 - 125
Sodium	<40		547	594		mg/Kg	☼	109	75 - 125
Thallium	<0.10		4.33	4.74		mg/Kg	☼	109	75 - 125
Vanadium	4.2	F1	10.8	26.3	F1	mg/Kg	☼	205	75 - 125
Zinc	2.2	F1	10.8	19.8	F1	mg/Kg	☼	162	75 - 125

Lab Sample ID: 680-216698-6 MSD
Matrix: Solid
Analysis Batch: 725429

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725234

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	1200	F1	536	5820	F1	mg/Kg	☼	857	75 - 125	11	20
Antimony	<1.0		5.36	5.33		mg/Kg	☼	99	75 - 125	2	20
Arsenic	4.3	F1	10.7	23.4	F1	mg/Kg	☼	178	75 - 125	13	20
Barium	4.7	F1	10.7	28.7	F1	mg/Kg	☼	224	75 - 125	8	20
Beryllium	<0.050		5.36	6.56		mg/Kg	☼	122	75 - 125	1	20
Cadmium	<0.050		5.36	5.98		mg/Kg	☼	112	75 - 125	0	20
Calcium	<50	F1	536	767	F1	mg/Kg	☼	135	75 - 125	1	20
Chromium	2.2	F1	10.7	18.9	F1	mg/Kg	☼	155	75 - 125	2	20
Cobalt	0.15		5.36	6.80		mg/Kg	☼	124	75 - 125	0	20
Copper	3.9	F1	10.6	26.0	F1	mg/Kg	☼	209	75 - 125	7	20
Iron	1400	F1	536	4800	F1	mg/Kg	☼	631	75 - 125	8	20
Lead	4.4	F1	54.1	71.5		mg/Kg	☼	124	75 - 125	3	20
Magnesium	35	F1	537	750	F1	mg/Kg	☼	133	75 - 125	0	20
Manganese	10	F1	43.0	74.2	F1	mg/Kg	☼	150	75 - 125	5	20
Nickel	<1.0	F1	10.6	14.9	F1	mg/Kg	☼	132	75 - 125	1	20
Potassium	<25		748	938		mg/Kg	☼	123	75 - 125	1	20
Selenium	<0.50		10.7	11.0		mg/Kg	☼	100	75 - 125	2	20
Silver	<0.10		5.36	6.13		mg/Kg	☼	114	75 - 125	3	20
Sodium	<40		541	594		mg/Kg	☼	110	75 - 125	0	20
Thallium	<0.10		4.29	4.70		mg/Kg	☼	110	75 - 125	1	20
Vanadium	4.2	F1	10.7	26.1	F1	mg/Kg	☼	205	75 - 125	1	20
Zinc	2.2	F1	10.7	22.2	F1	mg/Kg	☼	186	75 - 125	12	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 680-725330/1-A
Matrix: Solid
Analysis Batch: 725716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 725330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.025		0.025		mg/Kg		06/10/22 17:21	06/13/22 17:44	1

Lab Sample ID: LCS 680-725330/2-A
Matrix: Solid
Analysis Batch: 725716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 725330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.240	0.233		mg/Kg		97	80 - 120

Lab Sample ID: 680-216698-6 MS
Matrix: Solid
Analysis Batch: 725716

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725330

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.49		0.0936	0.328	4	mg/Kg	☼	-172	80 - 120

Lab Sample ID: 680-216698-6 MSD
Matrix: Solid
Analysis Batch: 725716

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 725330

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.49		0.0987	0.364	4	mg/Kg	☼	-127	80 - 120	11	20

Lab Sample ID: MB 680-726284/12-A
Matrix: Solid
Analysis Batch: 726709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 726284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.025		0.025		mg/Kg		06/17/22 10:23	06/17/22 18:42	1

Lab Sample ID: LCS 680-726284/13-A
Matrix: Solid
Analysis Batch: 726709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 726284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.240	0.244		mg/Kg		102	80 - 120

Lab Sample ID: MB 680-726367/1-A
Matrix: Solid
Analysis Batch: 726707

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 726367

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.025		0.025		mg/Kg		06/17/22 16:42	06/20/22 12:06	1

Lab Sample ID: LCS 680-726367/2-A
Matrix: Solid
Analysis Batch: 726707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 726367

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.240	0.233		mg/Kg		97	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: 680-216698-8 MS
Matrix: Solid
Analysis Batch: 726707

Client Sample ID: SB85-SO-01
Prep Type: Total/NA
Prep Batch: 726367

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.089	F1 F2	0.0937	0.168		mg/Kg	☼	84	80 - 120

Lab Sample ID: 680-216698-8 MSD
Matrix: Solid
Analysis Batch: 726707

Client Sample ID: SB85-SO-01
Prep Type: Total/NA
Prep Batch: 726367

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.089	F1 F2	0.0859	0.230	F1 F2	mg/Kg	☼	165	80 - 120	31	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 410-268773/1-A
Matrix: Solid
Analysis Batch: 269383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 268773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	<0.42	^-	0.42		mg/Kg		06/23/22 17:41	06/26/22 00:54	1

Lab Sample ID: LCS 410-268773/2-A
Matrix: Solid
Analysis Batch: 269383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 268773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium (hexavalent)	5.00	5.32	^-	mg/Kg		106	80 - 120

Lab Sample ID: LCSI 410-268773/3-A
Matrix: Solid
Analysis Batch: 269383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 268773

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits
Chromium (hexavalent)	804	816	^-	mg/Kg		101	80 - 120

Lab Sample ID: MB 410-270410/1-A
Matrix: Solid
Analysis Batch: 270472

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	<0.42		0.42		mg/Kg		06/28/22 18:09	06/28/22 22:28	1

Lab Sample ID: LCS 410-270410/2-A
Matrix: Solid
Analysis Batch: 270472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium (hexavalent)	5.00	4.80		mg/Kg		96	80 - 120

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSI 410-270410/3-A
Matrix: Solid
Analysis Batch: 270472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270410

Analyte			Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium (hexavalent)			804	824		mg/Kg		103	80 - 120		

Lab Sample ID: 680-216698-6 MSI
Matrix: Solid
Analysis Batch: 270472

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 270410

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium (hexavalent)	<0.60		1130	1010		mg/Kg	☼	89	75 - 125		

Lab Sample ID: 680-216698-6 MSS
Matrix: Solid
Analysis Batch: 270472

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 270410

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium (hexavalent)	<0.60		45.1	41.5		mg/Kg	☼	92	75 - 125		

Lab Sample ID: 680-216698-6 DU
Matrix: Solid
Analysis Batch: 270472

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 270410

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium (hexavalent)	<0.60			0.802		mg/Kg	☼			NC	20

GC/MS VOA

Prep Batch: 725200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-1	SB79-SO-01	Total/NA	Solid	5035A	
680-216698-2	SB79-SO-03	Total/NA	Solid	5035A	
680-216698-3	SB80-SO-01	Total/NA	Solid	5035A	
680-216698-4	SB81-SO-01	Total/NA	Solid	5035A	
680-216698-5	SB82-SO-01	Total/NA	Solid	5035A	
680-216698-6	SB83-SO-01	Total/NA	Solid	5035A	
680-216698-7	SB84-SO-01	Total/NA	Solid	5035A	
680-216698-8	SB85-SO-01	Total/NA	Solid	5035A	
680-216698-9	SB86-SO-01	Total/NA	Solid	5035A	
680-216698-10	SB87-SO-01	Total/NA	Solid	5035A	
680-216698-11	SB88-SO-01	Total/NA	Solid	5035A	
680-216698-12	DUP-01	Total/NA	Solid	5035A	
680-216698-6 MS	SB83-SO-01	Total/NA	Solid	5035A	
680-216698-6 MSD	SB83-SO-01	Total/NA	Solid	5035A	

Analysis Batch: 725226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-11	SB88-SO-01	Total/NA	Solid	8260D	725200
680-216698-12	DUP-01	Total/NA	Solid	8260D	725200
MB 680-725226/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-725226/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-725226/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 726047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-1	SB79-SO-01	Total/NA	Solid	8260D	725200
680-216698-2	SB79-SO-03	Total/NA	Solid	8260D	725200
680-216698-3	SB80-SO-01	Total/NA	Solid	8260D	725200
680-216698-4	SB81-SO-01	Total/NA	Solid	8260D	725200
680-216698-5	SB82-SO-01	Total/NA	Solid	8260D	725200
680-216698-7	SB84-SO-01	Total/NA	Solid	8260D	725200
680-216698-8	SB85-SO-01	Total/NA	Solid	8260D	725200
680-216698-9	SB86-SO-01	Total/NA	Solid	8260D	725200
MB 680-726047/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-726047/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-726047/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 726263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-6	SB83-SO-01	Total/NA	Solid	8260D	725200
680-216698-10	SB87-SO-01	Total/NA	Solid	8260D	725200
MB 680-726263/8	Method Blank	Total/NA	Solid	8260D	
LCS 680-726263/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 680-726263/5	Lab Control Sample Dup	Total/NA	Solid	8260D	
680-216698-6 MS	SB83-SO-01	Total/NA	Solid	8260D	725200
680-216698-6 MSD	SB83-SO-01	Total/NA	Solid	8260D	725200

Analysis Batch: 726800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-13	TB-01	Total/NA	Water	8260D	
680-216698-14	TB-02	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 726800 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-726800/9	Method Blank	Total/NA	Water	8260D	
LCS 680-726800/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-726800/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 725230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-1	SB79-SO-01	Total/NA	Solid	3546	
680-216698-2	SB79-SO-03	Total/NA	Solid	3546	
680-216698-3	SB80-SO-01	Total/NA	Solid	3546	
680-216698-4 - DL	SB81-SO-01	Total/NA	Solid	3546	
680-216698-4	SB81-SO-01	Total/NA	Solid	3546	
680-216698-5	SB82-SO-01	Total/NA	Solid	3546	
680-216698-6	SB83-SO-01	Total/NA	Solid	3546	
680-216698-6 - DL	SB83-SO-01	Total/NA	Solid	3546	
680-216698-7	SB84-SO-01	Total/NA	Solid	3546	
680-216698-8	SB85-SO-01	Total/NA	Solid	3546	
680-216698-9	SB86-SO-01	Total/NA	Solid	3546	
680-216698-10	SB87-SO-01	Total/NA	Solid	3546	
680-216698-11	SB88-SO-01	Total/NA	Solid	3546	
680-216698-11 - DL	SB88-SO-01	Total/NA	Solid	3546	
680-216698-12	DUP-01	Total/NA	Solid	3546	
MB 680-725230/13-A	Method Blank	Total/NA	Solid	3546	
LCS 680-725230/14-A	Lab Control Sample	Total/NA	Solid	3546	
680-216698-6 MS	SB83-SO-01	Total/NA	Solid	3546	
680-216698-6 MSD	SB83-SO-01	Total/NA	Solid	3546	

Analysis Batch: 725866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-725230/13-A	Method Blank	Total/NA	Solid	8270E LL	725230
LCS 680-725230/14-A	Lab Control Sample	Total/NA	Solid	8270E LL	725230

Analysis Batch: 725991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-1	SB79-SO-01	Total/NA	Solid	8270E LL	725230
680-216698-2	SB79-SO-03	Total/NA	Solid	8270E LL	725230
680-216698-3	SB80-SO-01	Total/NA	Solid	8270E LL	725230
680-216698-4	SB81-SO-01	Total/NA	Solid	8270E LL	725230
680-216698-4 - DL	SB81-SO-01	Total/NA	Solid	8270E LL	725230
680-216698-5	SB82-SO-01	Total/NA	Solid	8270E LL	725230
680-216698-7	SB84-SO-01	Total/NA	Solid	8270E LL	725230
680-216698-9	SB86-SO-01	Total/NA	Solid	8270E LL	725230
680-216698-10	SB87-SO-01	Total/NA	Solid	8270E LL	725230
680-216698-12	DUP-01	Total/NA	Solid	8270E LL	725230

Analysis Batch: 726535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-6	SB83-SO-01	Total/NA	Solid	8270E LL	725230
680-216698-6 - DL	SB83-SO-01	Total/NA	Solid	8270E LL	725230
680-216698-8	SB85-SO-01	Total/NA	Solid	8270E LL	725230

GC/MS Semi VOA (Continued)

Analysis Batch: 726535 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-11	SB88-SO-01	Total/NA	Solid	8270E LL	725230
680-216698-11 - DL	SB88-SO-01	Total/NA	Solid	8270E LL	725230
680-216698-6 MS	SB83-SO-01	Total/NA	Solid	8270E LL	725230
680-216698-6 MSD	SB83-SO-01	Total/NA	Solid	8270E LL	725230

GC Semi VOA

Prep Batch: 725225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-1	SB79-SO-01	Total/NA	Solid	3546	
680-216698-2	SB79-SO-03	Total/NA	Solid	3546	
680-216698-3	SB80-SO-01	Total/NA	Solid	3546	
680-216698-4	SB81-SO-01	Total/NA	Solid	3546	
680-216698-5	SB82-SO-01	Total/NA	Solid	3546	
680-216698-6	SB83-SO-01	Total/NA	Solid	3546	
680-216698-7	SB84-SO-01	Total/NA	Solid	3546	
680-216698-8	SB85-SO-01	Total/NA	Solid	3546	
680-216698-9	SB86-SO-01	Total/NA	Solid	3546	
680-216698-10	SB87-SO-01	Total/NA	Solid	3546	
680-216698-11	SB88-SO-01	Total/NA	Solid	3546	
680-216698-12	DUP-01	Total/NA	Solid	3546	
MB 680-725225/13-A	Method Blank	Total/NA	Solid	3546	
LCS 680-725225/14-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 680-725225/17-A	Lab Control Sample	Total/NA	Solid	3546	
680-216698-6 MS	SB83-SO-01	Total/NA	Solid	3546	
680-216698-6 MSD	SB83-SO-01	Total/NA	Solid	3546	

Analysis Batch: 725540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-1	SB79-SO-01	Total/NA	Solid	8081B/8082A	725225
680-216698-2	SB79-SO-03	Total/NA	Solid	8081B/8082A	725225
680-216698-3	SB80-SO-01	Total/NA	Solid	8081B/8082A	725225
680-216698-4	SB81-SO-01	Total/NA	Solid	8081B/8082A	725225
680-216698-5	SB82-SO-01	Total/NA	Solid	8081B/8082A	725225
680-216698-6	SB83-SO-01	Total/NA	Solid	8081B/8082A	725225
680-216698-7	SB84-SO-01	Total/NA	Solid	8081B/8082A	725225
680-216698-8	SB85-SO-01	Total/NA	Solid	8081B/8082A	725225
680-216698-9	SB86-SO-01	Total/NA	Solid	8081B/8082A	725225
680-216698-10	SB87-SO-01	Total/NA	Solid	8081B/8082A	725225
680-216698-11	SB88-SO-01	Total/NA	Solid	8081B/8082A	725225
680-216698-12	DUP-01	Total/NA	Solid	8081B/8082A	725225
MB 680-725225/13-A	Method Blank	Total/NA	Solid	8081B/8082A	725225
LCS 680-725225/14-A	Lab Control Sample	Total/NA	Solid	8081B/8082A	725225
LCS 680-725225/17-A	Lab Control Sample	Total/NA	Solid	8081B/8082A	725225
680-216698-6 MS	SB83-SO-01	Total/NA	Solid	8081B/8082A	725225
680-216698-6 MSD	SB83-SO-01	Total/NA	Solid	8081B/8082A	725225

Metals

Prep Batch: 725234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-1	SB79-SO-01	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 725234 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-2	SB79-SO-03	Total/NA	Solid	3050B	
680-216698-3	SB80-SO-01	Total/NA	Solid	3050B	
680-216698-4	SB81-SO-01	Total/NA	Solid	3050B	
680-216698-5	SB82-SO-01	Total/NA	Solid	3050B	
680-216698-6	SB83-SO-01	Total/NA	Solid	3050B	
680-216698-7	SB84-SO-01	Total/NA	Solid	3050B	
680-216698-8	SB85-SO-01	Total/NA	Solid	3050B	
680-216698-9	SB86-SO-01	Total/NA	Solid	3050B	
680-216698-10	SB87-SO-01	Total/NA	Solid	3050B	
680-216698-11	SB88-SO-01	Total/NA	Solid	3050B	
680-216698-12	DUP-01	Total/NA	Solid	3050B	
MB 680-725234/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 680-725234/2-A	Lab Control Sample	Total/NA	Solid	3050B	
680-216698-6 MS	SB83-SO-01	Total/NA	Solid	3050B	
680-216698-6 MSD	SB83-SO-01	Total/NA	Solid	3050B	

Prep Batch: 725330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-6	SB83-SO-01	Total/NA	Solid	7471B	
MB 680-725330/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 680-725330/2-A	Lab Control Sample	Total/NA	Solid	7471B	
680-216698-6 MS	SB83-SO-01	Total/NA	Solid	7471B	
680-216698-6 MSD	SB83-SO-01	Total/NA	Solid	7471B	

Analysis Batch: 725429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-1	SB79-SO-01	Total/NA	Solid	6020B	725234
680-216698-2	SB79-SO-03	Total/NA	Solid	6020B	725234
680-216698-3	SB80-SO-01	Total/NA	Solid	6020B	725234
680-216698-4	SB81-SO-01	Total/NA	Solid	6020B	725234
680-216698-5	SB82-SO-01	Total/NA	Solid	6020B	725234
680-216698-6	SB83-SO-01	Total/NA	Solid	6020B	725234
680-216698-7	SB84-SO-01	Total/NA	Solid	6020B	725234
680-216698-8	SB85-SO-01	Total/NA	Solid	6020B	725234
680-216698-9	SB86-SO-01	Total/NA	Solid	6020B	725234
680-216698-10	SB87-SO-01	Total/NA	Solid	6020B	725234
680-216698-11	SB88-SO-01	Total/NA	Solid	6020B	725234
680-216698-12	DUP-01	Total/NA	Solid	6020B	725234
MB 680-725234/1-A	Method Blank	Total/NA	Solid	6020B	725234
LCS 680-725234/2-A	Lab Control Sample	Total/NA	Solid	6020B	725234
680-216698-6 MS	SB83-SO-01	Total/NA	Solid	6020B	725234
680-216698-6 MSD	SB83-SO-01	Total/NA	Solid	6020B	725234

Analysis Batch: 725716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-6	SB83-SO-01	Total/NA	Solid	7471B	725330
MB 680-725330/1-A	Method Blank	Total/NA	Solid	7471B	725330
LCS 680-725330/2-A	Lab Control Sample	Total/NA	Solid	7471B	725330
680-216698-6 MS	SB83-SO-01	Total/NA	Solid	7471B	725330
680-216698-6 MSD	SB83-SO-01	Total/NA	Solid	7471B	725330

Metals

Prep Batch: 726284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-1	SB79-SO-01	Total/NA	Solid	7471B	
680-216698-2	SB79-SO-03	Total/NA	Solid	7471B	
680-216698-3	SB80-SO-01	Total/NA	Solid	7471B	
680-216698-4	SB81-SO-01	Total/NA	Solid	7471B	
680-216698-5	SB82-SO-01	Total/NA	Solid	7471B	
680-216698-7	SB84-SO-01	Total/NA	Solid	7471B	
MB 680-726284/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 680-726284/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 726367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-8	SB85-SO-01	Total/NA	Solid	7471B	
680-216698-9	SB86-SO-01	Total/NA	Solid	7471B	
680-216698-10	SB87-SO-01	Total/NA	Solid	7471B	
680-216698-11	SB88-SO-01	Total/NA	Solid	7471B	
680-216698-12	DUP-01	Total/NA	Solid	7471B	
MB 680-726367/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 680-726367/2-A	Lab Control Sample	Total/NA	Solid	7471B	
680-216698-8 MS	SB85-SO-01	Total/NA	Solid	7471B	
680-216698-8 MSD	SB85-SO-01	Total/NA	Solid	7471B	

Analysis Batch: 726707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-8	SB85-SO-01	Total/NA	Solid	7471B	726367
680-216698-9	SB86-SO-01	Total/NA	Solid	7471B	726367
680-216698-10	SB87-SO-01	Total/NA	Solid	7471B	726367
680-216698-11	SB88-SO-01	Total/NA	Solid	7471B	726367
680-216698-12	DUP-01	Total/NA	Solid	7471B	726367
MB 680-726367/1-A	Method Blank	Total/NA	Solid	7471B	726367
LCS 680-726367/2-A	Lab Control Sample	Total/NA	Solid	7471B	726367
680-216698-8 MS	SB85-SO-01	Total/NA	Solid	7471B	726367
680-216698-8 MSD	SB85-SO-01	Total/NA	Solid	7471B	726367

Analysis Batch: 726709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-1	SB79-SO-01	Total/NA	Solid	7471B	726284
680-216698-2	SB79-SO-03	Total/NA	Solid	7471B	726284
680-216698-3	SB80-SO-01	Total/NA	Solid	7471B	726284
680-216698-4	SB81-SO-01	Total/NA	Solid	7471B	726284
680-216698-5	SB82-SO-01	Total/NA	Solid	7471B	726284
680-216698-7	SB84-SO-01	Total/NA	Solid	7471B	726284
MB 680-726284/12-A	Method Blank	Total/NA	Solid	7471B	726284
LCS 680-726284/13-A	Lab Control Sample	Total/NA	Solid	7471B	726284

General Chemistry

Prep Batch: 268773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-1	SB79-SO-01	Total/NA	Solid	3060A	
680-216698-2	SB79-SO-03	Total/NA	Solid	3060A	
680-216698-3	SB80-SO-01	Total/NA	Solid	3060A	

General Chemistry (Continued)

Prep Batch: 268773 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-4	SB81-SO-01	Total/NA	Solid	3060A	
680-216698-5	SB82-SO-01	Total/NA	Solid	3060A	
680-216698-7	SB84-SO-01	Total/NA	Solid	3060A	
MB 410-268773/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 410-268773/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSI 410-268773/3-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 269383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-1	SB79-SO-01	Total/NA	Solid	7196A	268773
680-216698-2	SB79-SO-03	Total/NA	Solid	7196A	268773
680-216698-3	SB80-SO-01	Total/NA	Solid	7196A	268773
680-216698-4	SB81-SO-01	Total/NA	Solid	7196A	268773
680-216698-5	SB82-SO-01	Total/NA	Solid	7196A	268773
680-216698-7	SB84-SO-01	Total/NA	Solid	7196A	268773
MB 410-268773/1-A	Method Blank	Total/NA	Solid	7196A	268773
LCS 410-268773/2-A	Lab Control Sample	Total/NA	Solid	7196A	268773
LCSI 410-268773/3-A	Lab Control Sample	Total/NA	Solid	7196A	268773

Prep Batch: 270410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-6	SB83-SO-01	Total/NA	Solid	3060A	
680-216698-8	SB85-SO-01	Total/NA	Solid	3060A	
680-216698-9	SB86-SO-01	Total/NA	Solid	3060A	
680-216698-10	SB87-SO-01	Total/NA	Solid	3060A	
680-216698-11	SB88-SO-01	Total/NA	Solid	3060A	
680-216698-12	DUP-01	Total/NA	Solid	3060A	
MB 410-270410/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 410-270410/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSI 410-270410/3-A	Lab Control Sample	Total/NA	Solid	3060A	
680-216698-6 MSI	SB83-SO-01	Total/NA	Solid	3060A	
680-216698-6 MSS	SB83-SO-01	Total/NA	Solid	3060A	
680-216698-6 DU	SB83-SO-01	Total/NA	Solid	3060A	

Analysis Batch: 270472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-6	SB83-SO-01	Total/NA	Solid	7196A	270410
680-216698-8	SB85-SO-01	Total/NA	Solid	7196A	270410
680-216698-9	SB86-SO-01	Total/NA	Solid	7196A	270410
680-216698-10	SB87-SO-01	Total/NA	Solid	7196A	270410
680-216698-11	SB88-SO-01	Total/NA	Solid	7196A	270410
680-216698-12	DUP-01	Total/NA	Solid	7196A	270410
MB 410-270410/1-A	Method Blank	Total/NA	Solid	7196A	270410
LCS 410-270410/2-A	Lab Control Sample	Total/NA	Solid	7196A	270410
LCSI 410-270410/3-A	Lab Control Sample	Total/NA	Solid	7196A	270410
680-216698-6 MSI	SB83-SO-01	Total/NA	Solid	7196A	270410
680-216698-6 MSS	SB83-SO-01	Total/NA	Solid	7196A	270410
680-216698-6 DU	SB83-SO-01	Total/NA	Solid	7196A	270410

QC Association Summary

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

General Chemistry

Analysis Batch: 725556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-1	SB79-SO-01	Total/NA	Solid	Moisture	
680-216698-2	SB79-SO-03	Total/NA	Solid	Moisture	
680-216698-3	SB80-SO-01	Total/NA	Solid	Moisture	
680-216698-4	SB81-SO-01	Total/NA	Solid	Moisture	
680-216698-5	SB82-SO-01	Total/NA	Solid	Moisture	
680-216698-6	SB83-SO-01	Total/NA	Solid	Moisture	
680-216698-7	SB84-SO-01	Total/NA	Solid	Moisture	
680-216698-8	SB85-SO-01	Total/NA	Solid	Moisture	
680-216698-9	SB86-SO-01	Total/NA	Solid	Moisture	
680-216698-10	SB87-SO-01	Total/NA	Solid	Moisture	
680-216698-11	SB88-SO-01	Total/NA	Solid	Moisture	
680-216698-12	DUP-01	Total/NA	Solid	Moisture	
680-216698-6 MS	SB83-SO-01	Total/NA	Solid	Moisture	
680-216698-6 MSD	SB83-SO-01	Total/NA	Solid	Moisture	

Lab Chronicle

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: SB79-SO-01
Date Collected: 06/09/22 12:10
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			725556	06/13/22 15:00	JB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SB79-SO-01
Date Collected: 06/09/22 12:10
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-1
Matrix: Solid
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.015 g	5 mL	725200	06/10/22 10:05	FES	TAL SAV
Total/NA	Analysis	8260D		1	5 g	5 g	726047	06/16/22 14:54	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3546			15.42 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL		10			725991	06/16/22 17:03	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546			15.14 g	5 mL	725225	06/10/22 11:12	MEW	TAL SAV
Total/NA	Analysis	8081B/8082A		25			725540	06/13/22 20:20	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3050B			1.00 g	500 mL	725234	06/10/22 11:33	AS	TAL SAV
Total/NA	Analysis	6020B		1			725429	06/11/22 13:31	BWR	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7471B			0.54 g	50 mL	726284	06/17/22 10:23	JKL	TAL SAV
Total/NA	Analysis	7471B		1			726709	06/17/22 19:37	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Prep	3060A			2.65 g	100 mL	268773	06/23/22 17:41	DI9Q	ELLE
Total/NA	Analysis	7196A		1	100 mL	100 mL	269383	06/26/22 00:54	UDS7	ELLE
	Instrument ID: 6138-1cm									

Client Sample ID: SB79-SO-03
Date Collected: 06/09/22 12:20
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			725556	06/13/22 15:00	JB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SB79-SO-03
Date Collected: 06/09/22 12:20
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-2
Matrix: Solid
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.619 g	5 mL	725200	06/10/22 10:05	FES	TAL SAV
Total/NA	Analysis	8260D		1	5 g	5 g	726047	06/16/22 15:18	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3546			15.44 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL		1			725991	06/16/22 17:27	OK	TAL SAV
	Instrument ID: CMSAE									

Lab Chronicle

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: SB79-SO-03

Lab Sample ID: 680-216698-2

Date Collected: 06/09/22 12:20
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	5 mL	725225	06/10/22 11:12	MEW	TAL SAV
Total/NA	Analysis	8081B/8082A		5			725540	06/13/22 20:36	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3050B			1.04 g	500 mL	725234	06/10/22 11:33	AS	TAL SAV
Total/NA	Analysis	6020B		1			725429	06/11/22 13:34	BWR	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7471B			0.53 g	50 mL	726284	06/17/22 10:23	JKL	TAL SAV
Total/NA	Analysis	7471B		1			726709	06/17/22 19:41	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Prep	3060A			2.58 g	100 mL	268773	06/23/22 17:41	DI9Q	ELLE
Total/NA	Analysis	7196A		5	100 mL	100 mL	269383	06/26/22 00:54	UDS7	ELLE
	Instrument ID: 6138-1cm									

Client Sample ID: SB80-SO-01

Lab Sample ID: 680-216698-3

Date Collected: 06/09/22 11:30
Matrix: Solid
Date Received: 06/09/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			725556	06/13/22 15:00	JB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SB80-SO-01

Lab Sample ID: 680-216698-3

Date Collected: 06/09/22 11:30
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.321 g	5 mL	725200	06/10/22 10:05	FES	TAL SAV
Total/NA	Analysis	8260D		1	5 g	5 g	726047	06/16/22 15:42	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3546			15.75 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL		5			725991	06/16/22 17:50	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546			15.73 g	5 mL	725225	06/10/22 11:12	MEW	TAL SAV
Total/NA	Analysis	8081B/8082A		10			725540	06/13/22 20:52	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3050B			1.00 g	500 mL	725234	06/10/22 11:33	AS	TAL SAV
Total/NA	Analysis	6020B		1			725429	06/11/22 13:37	BWR	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7471B			0.52 g	50 mL	726284	06/17/22 10:23	JKL	TAL SAV
Total/NA	Analysis	7471B		1			726709	06/17/22 19:44	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Prep	3060A			2.48 g	100 mL	268773	06/23/22 17:41	DI9Q	ELLE
Total/NA	Analysis	7196A		1	100 mL	100 mL	269383	06/26/22 00:54	UDS7	ELLE
	Instrument ID: 6138-1cm									

Client Sample ID: SB81-SO-01
Date Collected: 06/09/22 10:55
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			725556	06/13/22 15:00	JB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SB81-SO-01
Date Collected: 06/09/22 10:55
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-4
Matrix: Solid
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			5.721 g	5 mL	725200	06/10/22 10:05	FES	TAL SAV
Total/NA	Analysis	8260D		1	5 g	5 g	726047	06/16/22 16:06	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3546			15.27 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL		10			725991	06/16/22 18:13	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546	DL		15.27 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL	DL	20			725991	06/16/22 18:37	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546			15.32 g	5 mL	725225	06/10/22 11:12	MEW	TAL SAV
Total/NA	Analysis	8081B/8082A		10			725540	06/13/22 21:08	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3050B			1.08 g	500 mL	725234	06/10/22 11:33	AS	TAL SAV
Total/NA	Analysis	6020B		1			725429	06/11/22 13:44	BWR	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7471B			0.51 g	50 mL	726284	06/17/22 10:23	JKL	TAL SAV
Total/NA	Analysis	7471B		1			726709	06/17/22 19:47	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Prep	3060A			2.61 g	100 mL	268773	06/23/22 17:41	DI9Q	ELLE
Total/NA	Analysis	7196A		5	100 mL	100 mL	269383	06/26/22 00:54	UDS7	ELLE
	Instrument ID: 6138-1cm									

Client Sample ID: SB82-SO-01
Date Collected: 06/09/22 10:30
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			725556	06/13/22 15:00	JB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SB82-SO-01
Date Collected: 06/09/22 10:30
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-5
Matrix: Solid
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			5.868 g	5 mL	725200	06/10/22 10:05	FES	TAL SAV
Total/NA	Analysis	8260D		1	5 g	5 g	726047	06/16/22 16:31	Y1S	TAL SAV
	Instrument ID: CMSP2									

Lab Chronicle

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: SB82-SO-01

Lab Sample ID: 680-216698-5

Date Collected: 06/09/22 10:30
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.32 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL		5			725991	06/16/22 19:00	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546			15.85 g	5 mL	725225	06/10/22 11:12	MEW	TAL SAV
Total/NA	Analysis	8081B/8082A		10			725540	06/13/22 21:24	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3050B			1.07 g	500 mL	725234	06/10/22 11:33	AS	TAL SAV
Total/NA	Analysis	6020B		1			725429	06/11/22 13:47	BWR	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7471B			0.51 g	50 mL	726284	06/17/22 10:23	JKL	TAL SAV
Total/NA	Analysis	7471B		1			726709	06/17/22 19:50	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Prep	3060A			2.48 g	100 mL	268773	06/23/22 17:41	DI9Q	ELLE
Total/NA	Analysis	7196A		1	100 mL	100 mL	269383	06/26/22 00:54	UDS7	ELLE
	Instrument ID: 6138-1cm									

Client Sample ID: SB83-SO-01

Lab Sample ID: 680-216698-6

Date Collected: 06/09/22 09:35
Matrix: Solid
Date Received: 06/09/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			725556	06/13/22 15:00	JB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SB83-SO-01

Lab Sample ID: 680-216698-6

Date Collected: 06/09/22 09:35
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			5.85 g	5 mL	725200	06/10/22 10:05	FES	TAL SAV
Total/NA	Analysis	8260D		1	5 g	5 g	726263	06/17/22 19:11	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3546			15.34 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL		50			726535	06/19/22 23:55	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546	DL		15.34 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL	DL	100			726535	06/20/22 00:18	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546			15.69 g	5 mL	725225	06/10/22 11:12	MEW	TAL SAV
Total/NA	Analysis	8081B/8082A		10			725540	06/13/22 21:39	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3050B			1.02 g	500 mL	725234	06/10/22 11:33	AS	TAL SAV
Total/NA	Analysis	6020B		1			725429	06/11/22 13:18	BWR	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: SB83-SO-01

Lab Sample ID: 680-216698-6
Date Collected: 06/09/22 09:35
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.53 g	50 mL	725330	06/10/22 17:21	JKL	TAL SAV
Total/NA	Analysis	7471B		5			725716	06/13/22 19:16	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Prep	3060A			2.56 g	100 mL	270410	06/28/22 18:09	UDS7	ELLE
Total/NA	Analysis	7196A		4	100 mL	100 mL	270472	06/28/22 22:28	UDS7	ELLE
	Instrument ID: 6138-1cm									

Client Sample ID: SB84-SO-01

Lab Sample ID: 680-216698-7
Date Collected: 06/09/22 09:10
Matrix: Solid
Date Received: 06/09/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			725556	06/13/22 15:00	JB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SB84-SO-01

Lab Sample ID: 680-216698-7
Date Collected: 06/09/22 09:10
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			6.171 g	5 mL	725200	06/10/22 10:05	FES	TAL SAV
Total/NA	Analysis	8260D		1	5 g	5 g	726047	06/16/22 16:55	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3546			15.30 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL		2			725991	06/16/22 20:10	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546			15.75 g	5 mL	725225	06/10/22 11:12	MEW	TAL SAV
Total/NA	Analysis	8081B/8082A		5			725540	06/13/22 21:55	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3050B			1.00 g	500 mL	725234	06/10/22 11:33	AS	TAL SAV
Total/NA	Analysis	6020B		1			725429	06/11/22 13:49	BWR	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7471B			0.54 g	50 mL	726284	06/17/22 10:23	JKL	TAL SAV
Total/NA	Analysis	7471B		1			726709	06/17/22 20:10	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Prep	3060A			2.49 g	100 mL	268773	06/23/22 17:41	DI9Q	ELLE
Total/NA	Analysis	7196A		5	100 mL	100 mL	269383	06/26/22 00:54	UDS7	ELLE
	Instrument ID: 6138-1cm									

Client Sample ID: SB85-SO-01

Lab Sample ID: 680-216698-8
Date Collected: 06/09/22 08:55
Matrix: Solid
Date Received: 06/09/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			725556	06/13/22 15:00	JB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SB85-SO-01

Lab Sample ID: 680-216698-8

Date Collected: 06/09/22 08:55

Matrix: Solid

Date Received: 06/09/22 14:53

Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			5.566 g	5 mL	725200	06/10/22 10:05	FES	TAL SAV
Total/NA	Analysis	8260D		1	5 g	5 g	726047	06/16/22 17:19	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3546			15.51 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL		50			726535	06/20/22 00:41	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546			15.15 g	5 mL	725225	06/10/22 11:12	MEW	TAL SAV
Total/NA	Analysis	8081B/8082A		10			725540	06/13/22 22:11	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3050B			1.01 g	500 mL	725234	06/10/22 11:33	AS	TAL SAV
Total/NA	Analysis	6020B		1			725429	06/11/22 13:52	BWR	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7471B			0.54 g	50 mL	726367	06/17/22 16:42	JKL	TAL SAV
Total/NA	Analysis	7471B		1			726707	06/20/22 12:13	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Prep	3060A			2.60 g	100 mL	270410	06/28/22 18:09	UDS7	ELLE
Total/NA	Analysis	7196A		10	100 mL	100 mL	270472	06/28/22 22:28	UDS7	ELLE
	Instrument ID: 6138-1cm									

Client Sample ID: SB86-SO-01

Lab Sample ID: 680-216698-9

Date Collected: 06/09/22 08:25

Matrix: Solid

Date Received: 06/09/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			725556	06/13/22 15:00	JB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SB86-SO-01

Lab Sample ID: 680-216698-9

Date Collected: 06/09/22 08:25

Matrix: Solid

Date Received: 06/09/22 14:53

Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			5.407 g	5 mL	725200	06/10/22 10:05	FES	TAL SAV
Total/NA	Analysis	8260D		1	5 g	5 g	726047	06/16/22 17:44	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3546			15.81 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL		10			725991	06/16/22 20:56	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546			15.09 g	5 mL	725225	06/10/22 11:12	MEW	TAL SAV
Total/NA	Analysis	8081B/8082A		5			725540	06/13/22 22:27	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3050B			1.02 g	500 mL	725234	06/10/22 11:33	AS	TAL SAV
Total/NA	Analysis	6020B		1			725429	06/11/22 13:54	BWR	TAL SAV
	Instrument ID: ICPMSD									

Client Sample ID: SB86-SO-01

Lab Sample ID: 680-216698-9
Date Collected: 06/09/22 08:25
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.53 g	50 mL	726367	06/17/22 16:42	JKL	TAL SAV
Total/NA	Analysis	7471B		1			726707	06/20/22 12:22	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Prep	3060A			2.51 g	100 mL	270410	06/28/22 18:09	UDS7	ELLE
Total/NA	Analysis	7196A		10	100 mL	100 mL	270472	06/28/22 22:28	UDS7	ELLE
	Instrument ID: 6138-1cm									

Client Sample ID: SB87-SO-01

Lab Sample ID: 680-216698-10
Date Collected: 06/09/22 08:00
Matrix: Solid
Date Received: 06/09/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			725556	06/13/22 15:00	JB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: SB87-SO-01

Lab Sample ID: 680-216698-10
Date Collected: 06/09/22 08:00
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			5.306 g	5 mL	725200	06/10/22 10:05	FES	TAL SAV
Total/NA	Analysis	8260D		1	5 g	5 g	726263	06/17/22 19:36	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3546			15.47 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL		5			725991	06/16/22 21:19	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546			15.84 g	5 mL	725225	06/10/22 11:12	MEW	TAL SAV
Total/NA	Analysis	8081B/8082A		5			725540	06/13/22 22:43	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3050B			1.05 g	500 mL	725234	06/10/22 11:33	AS	TAL SAV
Total/NA	Analysis	6020B		1			725429	06/11/22 13:57	BWR	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7471B			0.59 g	50 mL	726367	06/17/22 16:42	JKL	TAL SAV
Total/NA	Analysis	7471B		1			726707	06/20/22 12:25	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Prep	3060A			2.40 g	100 mL	270410	06/28/22 18:09	UDS7	ELLE
Total/NA	Analysis	7196A		5	100 mL	100 mL	270472	06/28/22 22:28	UDS7	ELLE
	Instrument ID: 6138-1cm									

Client Sample ID: SB88-SO-01

Lab Sample ID: 680-216698-11
Date Collected: 06/09/22 07:50
Matrix: Solid
Date Received: 06/09/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			725556	06/13/22 15:00	JB	TAL SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: SB88-SO-01

Lab Sample ID: 680-216698-11

Date Collected: 06/09/22 07:50
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			5.205 g	5 mL	725200	06/10/22 10:05	FES	TAL SAV
Total/NA	Analysis	8260D		1	5 g	5 g	725226	06/10/22 23:06	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3546			15.83 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL		20			726535	06/20/22 01:03	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546	DL		15.83 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL	DL	50			726535	06/20/22 01:26	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546			15.76 g	5 mL	725225	06/10/22 11:12	MEW	TAL SAV
Total/NA	Analysis	8081B/8082A		10			725540	06/13/22 22:59	JCK	TAL SAV
	Instrument ID: CSGK									
Total/NA	Prep	3050B			1.07 g	500 mL	725234	06/10/22 11:33	AS	TAL SAV
Total/NA	Analysis	6020B		1			725429	06/11/22 14:00	BWR	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7471B			0.57 g	50 mL	726367	06/17/22 16:42	JKL	TAL SAV
Total/NA	Analysis	7471B		1			726707	06/20/22 12:29	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Prep	3060A			2.49 g	100 mL	270410	06/28/22 18:09	UDS7	ELLE
Total/NA	Analysis	7196A		5	100 mL	100 mL	270472	06/28/22 22:28	UDS7	ELLE
	Instrument ID: 6138-1cm									

Client Sample ID: DUP-01

Lab Sample ID: 680-216698-12

Date Collected: 06/09/22 08:25
Matrix: Solid
Date Received: 06/09/22 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			725556	06/13/22 15:00	JB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-01

Lab Sample ID: 680-216698-12

Date Collected: 06/09/22 08:25
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			5.78 g	5 mL	725200	06/10/22 10:05	FES	TAL SAV
Total/NA	Analysis	8260D		1	5 g	5 g	725226	06/10/22 21:30	Y1S	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Prep	3546			15.36 g	1 mL	725230	06/10/22 15:30	MEW	TAL SAV
Total/NA	Analysis	8270E LL		10			725991	06/16/22 22:29	OK	TAL SAV
	Instrument ID: CMSAE									
Total/NA	Prep	3546			15.27 g	5 mL	725225	06/10/22 11:12	MEW	TAL SAV
Total/NA	Analysis	8081B/8082A		5			725540	06/13/22 23:15	JCK	TAL SAV
	Instrument ID: CSGK									

Lab Chronicle

Client: EnviroAnalytics Group LLC
Project/Site: Georgia Atlantic Port, Georgia

Job ID: 680-216698-1

Client Sample ID: DUP-01

Date Collected: 06/09/22 08:25
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-12

Matrix: Solid
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.01 g	500 mL	725234	06/10/22 11:33	AS	TAL SAV
Total/NA	Analysis	6020B		1			725429	06/11/22 14:02	BWR	TAL SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7471B			0.55 g	50 mL	726367	06/17/22 16:42	JKL	TAL SAV
Total/NA	Analysis	7471B		1			726707	06/20/22 12:32	JKL	TAL SAV
	Instrument ID: LEEMAN2									
Total/NA	Prep	3060A			2.43 g	100 mL	270410	06/28/22 18:09	UDS7	ELLE
Total/NA	Analysis	7196A		5	100 mL	100 mL	270472	06/28/22 22:28	UDS7	ELLE
	Instrument ID: 6138-1cm									

Client Sample ID: TB-01

Date Collected: 06/09/22 07:00
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	726800	06/21/22 13:51	UI	TAL SAV
	Instrument ID: CMSAB									

Client Sample ID: TB-02

Date Collected: 06/09/22 10:00
Date Received: 06/09/22 14:53

Lab Sample ID: 680-216698-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	726800	06/21/22 14:14	UI	TAL SAV
	Instrument ID: CMSAB									

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone. 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Matt Dostal	Lab PM: Hoffman, Sheila B	Carrier Tracking No(s):	COC No: 680-136533-49819 1
Client Contact: Matthew Dostal	Phone: 314-712-0288	E-Mail: Sheila Hoffman@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 2
Company: EnviroAnalytics Group LLC	PWSID:			Job #:
Address: 1515 Des Peres Rd Suite 300	Due Date Requested			
City: Saint Louis	TAT Requested (days): STND			
State, Zip: MO 63131	Compliance Project: Δ Yes Δ No			
Phone: 314-835-2824(Tel)	PO #: Purchase Order Requested			
Email: mdostal@enviroanalyticsgroup com	WO #:			
Project Name: Georgia Atlantic Port	Project #: 68027485			
Site: GAP	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, 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, Y Trizma

680-216698 Chain of Custody

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)	7196A, 8290A	Moisture - Percent Moisture	8260D - Volatiles	7471B - Mercury	6020B, 8081B_8082A, 8270E_LL	7196A only											Containers
			Preservation Code:				N	N	N/P	N	N	N												
SB79-50-01	6/9/2022	1210	G	S	N	N		X	X	X	X	X												7
SB79-50-03		1220					X	X	X	X	X													7
SB80-50-01		1130					X	X	X	X	X													7
SB81-50-01		1055						X	X	X	X	X												7
SB82-50-01		1030					X	X	X	X	X													7
SB83-50-01		0935					X	X	X	X	X													7
SB84-50-01		0910					X	X	X	X	X													7
SB85-50-01		0855					X	X	X	X	X													7
SB86-50-01		0825					X	X	X	X	X													7
SB87-50-01		0800						X	X	X	X	X												7
SB88-50-01		0750					X	X	X	X	X													7

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
	6/9/22 1953	EAG		6/9 1453	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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: 3.8-3.8 2.9-2.9

Ver 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Matt Dostal	Lab PM: Hoffman Sheila B	Carrier Tracking No(s):	COC No. 680-136533-49819.2
Client Contact: Matthew Dostal	Phone: 314-712-0288	E-Mail: Sheila Hoffman@et.eurofinsus com	State of Origin: GA	Page: Page 2 of 2
Company: EnviroAnalytics Group LLC	PWSID:	Analysis Requested		Job #:
Address: 1515 Des Peres Rd Suite 300	Due Date Requested:			
City: Saint Louis	TAT Requested (days): STND			
State Zip: MO, 63131	Compliance Project: Δ Yes Δ No			
Phone: 314-835-2824(Tel)	PO #: Purchase Order Requested			
Email: mdostal@enviroanalyticsgroup com	WO #:			
Project Name: Georgia Atlantic Port	Project #: 68027485			
Site: GAP	SSOW#:			

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, Y Trizma, 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)	7196A, 8290A	Moisture - Percent Moisture	8260D - Volatiles	7471B - Mercury	6020B, 8081B_8082A, 8270E_LL	Trip Blank	~~8290A MS/MSD only 7196A only~~	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	N	~~N~~ F	N	N				
DUP-01	6/9/2022	0825	G	S	N	N	X	X	X	X	X			7	
SB83-SO-01 MS	|	0935	|	S	|	Y	X	X	X	X	X			7	
SB83-SO-01 MSD	|	0935	|	S	|	Y	X	X	X	X	X			7	
TB-01	|	0700	|	W	|	N						X		2	
TB-02	|	1000	|	W	|	N						X		2	

Possible Hazard Identification: [X] 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 [X] 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: [signature]	Date/Time: 6/9/22 1453	Company: EAG	Received by: [signature]	Date/Time: 6/9 1453	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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: 3.8-3.8 2.9-2.9		

Ver 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hoffman, Sheila B	Carrier Tracking No(s):	COC No: 680-697653 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sheila.Hoffman@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - Florida; State Program - Georgia		Job #: 680-216698-1
Address: 2425 New Holland Pike,	Due Date Requested: 6/22/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Georgia Atlantic Port, Georgia	Project #: 68027485			
Site:	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, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	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)	7196A/3060A Chromium, Hexavalent	8290A/HRMS_Soxthm_P 8290 17 isomers	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SB79-SO-01 (680-216698-1)	6/9/22	12:10 Eastern		Solid			X		1	
SB79-SO-03 (680-216698-2)	6/9/22	12:20 Eastern		Solid			X	X	1	
SB80-SO-01 (680-216698-3)	6/9/22	11:30 Eastern		Solid			X	X	1	
SB81-SO-01 (680-216698-4)	6/9/22	10:55 Eastern		Solid			X		1	
SB82-SO-01 (680-216698-5)	6/9/22	10:30 Eastern		Solid			X	X	1	
SB83-SO-01 (680-216698-6)	6/9/22	09:35 Eastern		Solid			X	X	1	
SB83-SO-01 (680-216698-6MS)	6/9/22	09:35 Eastern	MS	Solid			X	X	1	
SB83-SO-01 (680-216698-6MSD)	6/9/22	09:35 Eastern	MSD	Solid			X	X	1	
SB84-SO-01 (680-216698-7)	6/9/22	09:10 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	6/10 1600				
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				6/11/22 1107	ECLFT

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		-1.2/2.2

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hoffman, Sheila B	Carrier Tracking No(s):	COC No: 680-697653.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sheila.Hoffman@et.eurofinsus.com	State of Origin: Georgia	Page: Page 2 of 2
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - Florida; State Program - Georgia		Job #: 680-216698-1
Address: 2425 New Holland Pike,	Due Date Requested: 6/22/2022			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Georgia Atlantic Port, Georgia	Project #: 68027485			
Site:	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, Y - Trizma, Z - other (specify), Other:

Sample Identification - Client ID (Lab ID)	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)	7196A/3060A Chromium, Hexavalent	8290A/HRMS_Soxthm_P 8290 17 Isomers	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SB85-SO-01 (680-216698-8)	6/9/22	08:55 Eastern		Solid			X	X	1	
SB86-SO-01 (680-216698-9)	6/9/22	08:25 Eastern		Solid			X	X	1	
SB87-SO-01 (680-216698-10)	6/9/22	08:00 Eastern		Solid			X		1	
SB88-SO-01 (680-216698-11)	6/9/22	07:50 Eastern		Solid			X	X	1	
DUP-01 (680-216698-12)	6/9/22	08:25 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
		6/10 1600				
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time: 6/11/22 1057	Company: ELNET

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: -1.2/2.2

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 680-216698-1

Login Number: 216698
List Number: 1
Creator: Watters, David

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 680-216698-1

Login Number: 216698
List Number: 2
Creator: Foreman, Leah M

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 06/11/22 02:28 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	

Accreditation/Certification Summary

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-1
Project/Site: Georgia Atlantic Port, Georgia

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-22
Georgia	State	E87052	06-30-22

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87997	06-30-22

Accreditation/Certification Summary

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-1
Project/Site: Georgia Atlantic Port, Georgia

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-22
Georgia	State	E87052	06-30-22

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87997	06-30-22

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-216698-2
Client Project/Site: Georgia Atlantic Port, Georgia - Dioxins

For:
EnviroAnalytics Group LLC
1515 Des Peres Rd.
Suite 300
Saint Louis, Missouri 63131

Attn: Tim Biggs

Authorized for release by:
7/8/2022 5:18:52 PM

Sheila Hoffman, Project Manager II
(912)250-0279
Sheila.Hoffman@et.eurofinsus.com

Method Summary

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-2
Project/Site: Georgia Atlantic Port, Georgia - Dioxins

Method	Method Description	Protocol	Laboratory
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	ELLE
8290A	Soxhlet Extraction of Dioxins and Furans	SW846	ELLE
Dilution	Dilution and Re-foritfication of Standards	None	ELLE
HRMS-Soxtherm	Soxtherm Extraction	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Qualifiers

Dioxin

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
I	Value is EMPC (estimated maximum possible concentration).

Glossary

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

Sample Summary

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-2
Project/Site: Georgia Atlantic Port, Georgia - Dioxins

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-216698-2	SB79-SO-03	Solid	06/09/22 12:20	06/09/22 14:53
680-216698-3	SB80-SO-01	Solid	06/09/22 11:30	06/09/22 14:53
680-216698-5	SB82-SO-01	Solid	06/09/22 10:30	06/09/22 14:53
680-216698-6	SB83-SO-01	Solid	06/09/22 09:35	06/09/22 14:53
680-216698-7	SB84-SO-01	Solid	06/09/22 09:10	06/09/22 14:53
680-216698-8	SB85-SO-01	Solid	06/09/22 08:55	06/09/22 14:53
680-216698-9	SB86-SO-01	Solid	06/09/22 08:25	06/09/22 14:53
680-216698-11	SB88-SO-01	Solid	06/09/22 07:50	06/09/22 14:53
680-216698-12	DUP-01	Solid	06/09/22 08:25	06/09/22 14:53

Job ID: 680-216698-2

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-216698-2

Comments
No additional comments.

Receipt
The samples were received on 6/9/2022 2:53 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9º C and 3.8º C.

Dioxin
Method 8290A: The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: (MB 410-270746/1-A). Analytes pass signal-to-noise and ratio criteria.

Method 8290A: The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: (LCS 410-270746/2-A). Analytes pass signal-to-noise and ratio criteria. Natives pass recovery criteria.

Method 8290A: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: SB84-SO-01 (680-216698-7). IDAs pass all ratio and S/N criteria.

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

Dioxin Prep
Method 8290: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: SB84-SO-01 (680-216698-7), SB85-SO-01 (680-216698-8) and SB88-SO-01 (680-216698-11). The reporting limits (RLs) have been adjusted proportionately.

Method HRMS-Soxtherm: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: SB79-SO-03 (680-216698-2), SB80-SO-01 (680-216698-3), SB82-SO-01 (680-216698-5), SB83-SO-01 (680-216698-6), SB83-SO-01 (680-216698-6[MS]), SB83-SO-01 (680-216698-6[MSD]), SB85-SO-01 (680-216698-8), SB86-SO-01 (680-216698-9) and DUP-01 (680-216698-12). The reporting limits (RLs) have been adjusted proportionately.

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

Detection Summary

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-2
Project/Site: Georgia Atlantic Port, Georgia - Dioxins

Client Sample ID: SB79-SO-03 — Lab Sample ID: 680-216698-2

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	140		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	24	I	5.0		ng/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	30	I	5.0		ng/Kg	1	☼	8290A	Total/NA
OCDD	1400		10		ng/Kg	1	☼	8290A	Total/NA
OCDF	100		10		ng/Kg	1	☼	8290A	Total/NA

Client Sample ID: SB80-SO-01 — Lab Sample ID: 680-216698-3

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	3700		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	730		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	23	I	5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	54	I	5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	48		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	75		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	11	I	5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	49		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDF	12		5.0		ng/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	72	I	5.0		ng/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	7.9	I	5.0		ng/Kg	1	☼	8290A	Total/NA
OCDF	4000		10		ng/Kg	1	☼	8290A	Total/NA
OCDD - DL	51000		10		ng/Kg	5	☼	8290A	Total/NA

Client Sample ID: SB82-SO-01 — Lab Sample ID: 680-216698-5

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	16000	G	5.5		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	3400	G	9.2		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	100		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	160		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	390	I G	18		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	330		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	53		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	14		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	11	I	5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	180		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDF	18	G	5.1		ng/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	120	I	5.0		ng/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	12	I	5.0		ng/Kg	1	☼	8290A	Total/NA
OCDF	21000		10		ng/Kg	1	☼	8290A	Total/NA
OCDD - DL	21000		10		ng/Kg	5	☼	8290A	Total/NA

Client Sample ID: SB83-SO-01 — Lab Sample ID: 680-216698-6

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	570		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	670	G	19		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	1800	G I F1	72		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	3000	I F1	5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	170	G I	19		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	150		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	30	I	5.0		ng/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB83-SO-01 (Continued)
Lab Sample ID: 680-216698-6

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8,9-HxCDD	1000		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDF	110	G	24		ng/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	440	G	20		ng/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	120		5.0		ng/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDD	5.4	I	1.0		ng/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	2.8	I	1.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD - DL	110000	G	83		ng/Kg	20	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF - DL	22000	G	60		ng/Kg	20	☼	8290A	Total/NA
OCDF - DL	140000	G	79		ng/Kg	20	☼	8290A	Total/NA
OCDD - DL2	1400000	G	130		ng/Kg	40	☼	8290A	Total/NA

Client Sample ID: SB84-SO-01
Lab Sample ID: 680-216698-7

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	37000	G	25		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	9100	G	28		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	330		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	350	G	8.4		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	780	G	41		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	810		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	190	G	8.9		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	97	I	5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	11		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	540		5.0		ng/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	290	G	8.0		ng/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	59		5.0		ng/Kg	1	☼	8290A	Total/NA
OCDF	51000	G	17		ng/Kg	1	☼	8290A	Total/NA
OCDD - DL	450000	G	280		ng/Kg	20	☼	8290A	Total/NA

Client Sample ID: SB85-SO-01
Lab Sample ID: 680-216698-8

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	49000	G	35		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	8100	G	21		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	200	I G	11		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	180	G	8.6		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	430	G	31		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	960	G	11		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	50	I G	8.5		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	34	I	5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	8.2	I	5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	290	G	12		ng/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	80	I G	7.7		ng/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	11		5.0		ng/Kg	1	☼	8290A	Total/NA
OCDF	55000	G	23		ng/Kg	1	☼	8290A	Total/NA
OCDD - DL	490000	G	460		ng/Kg	20	☼	8290A	Total/NA

Client Sample ID: SB86-SO-01
Lab Sample ID: 680-216698-9

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDF	5900	G	11		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	150		5.0		ng/Kg	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB86-SO-01 (Continued)
Lab Sample ID: 680-216698-9

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDF	100	G	5.1		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	410	G I	16		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	640		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	22		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	28		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	230		5.0		ng/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	69	I	5.0		ng/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	11	I	5.0		ng/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDD	1.5	I	1.0		ng/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDF	2.0	I	1.0		ng/Kg	1	☼	8290A	Total/NA
OCDF	37000		10		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD - DL	32000	G	30		ng/Kg	10	☼	8290A	Total/NA
OCDD - DL	300000	G	33		ng/Kg	10	☼	8290A	Total/NA

Client Sample ID: SB88-SO-01
Lab Sample ID: 680-216698-11

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	130000	G	70		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	15000	G	38		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	250	G	16		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	790	G	22		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	1100	G	58		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	2600	G	17		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	130	G	21		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	57	I	5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	28	G	6.2		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	470	G	17		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDF	130	G	23		ng/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	410	I G	20		ng/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	140	I	5.0		ng/Kg	1	☼	8290A	Total/NA
OCDF	95000	G	48		ng/Kg	1	☼	8290A	Total/NA
OCDD - DL	1700000	G	710		ng/Kg	40	☼	8290A	Total/NA

Client Sample ID: DUP-01
Lab Sample ID: 680-216698-12

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDF	6100	G	12		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	240	I	5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	140	G	5.2		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	520	I G	21		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	740		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	39	I	5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	88		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	370		5.0		ng/Kg	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDF	20	G	6.9		ng/Kg	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	100		5.0		ng/Kg	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	23		5.0		ng/Kg	1	☼	8290A	Total/NA
2,3,7,8-TCDD	2.7	I G	2.3		ng/Kg	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD - DL	32000	G	90		ng/Kg	20	☼	8290A	Total/NA
OCDD - DL	290000	G	88		ng/Kg	20	☼	8290A	Total/NA
OCDF - DL	32000	G	40		ng/Kg	20	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB79-SO-03

Lab Sample ID: 680-216698-2

Date Collected: 06/09/22 12:20
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.6

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	140		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
1,2,3,4,6,7,8-HpCDF	24	I	5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
1,2,3,4,7,8-HxCDD	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
1,2,3,4,7,8-HxCDF	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
1,2,3,4,7,8,9-HpCDF	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
1,2,3,6,7,8-HxCDD	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
1,2,3,6,7,8-HxCDF	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
1,2,3,7,8-PeCDD	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
1,2,3,7,8-PeCDF	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
1,2,3,7,8,9-HxCDD	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
1,2,3,7,8,9-HxCDF	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
2,3,4,6,7,8-HxCDF	30	I	5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
2,3,4,7,8-PeCDF	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
2,3,7,8-TCDD	<1.0		1.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
2,3,7,8-TCDF	<1.0		1.0		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
OCDD	1400		10		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1
OCDF	100		10		ng/Kg	☼	06/24/22 13:22	06/28/22 09:27	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*63*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*61*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-1,2,3,4,7,8-HxCDD	*60*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-1,2,3,4,7,8-HxCDF	*57*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*57*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-1,2,3,6,7,8-HxCDD	*65*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-1,2,3,6,7,8-HxCDF	*62*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-1,2,3,7,8-PeCDD	*65*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-1,2,3,7,8-PeCDF	*57*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-1,2,3,7,8,9-HxCDD	*67*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-1,2,3,7,8,9-HxCDF	*58*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-2,3,4,6,7,8-HxCDF	*60*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-2,3,4,7,8-PeCDF	*61*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-2,3,7,8-TCDD	*47*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-2,3,7,8-TCDF	*43*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-OCDD	*59*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*
13C-OCDF	*55*		*40 - 135*	*06/24/22 13:22*	*06/28/22 09:27*	*1*

Client Sample ID: SB80-SO-01

Lab Sample ID: 680-216698-3

Date Collected: 06/09/22 11:30
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 98.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	3700		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
1,2,3,4,6,7,8-HpCDF	730		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
1,2,3,4,7,8-HxCDD	23	I	5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
1,2,3,4,7,8-HxCDF	54	I	5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
1,2,3,4,7,8,9-HpCDF	48		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
1,2,3,6,7,8-HxCDD	75		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
1,2,3,6,7,8-HxCDF	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
1,2,3,7,8-PeCDD	11	I	5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1

Client Sample ID: SB80-SO-01
Lab Sample ID: 680-216698-3
Date Collected: 06/09/22 11:30
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 98.4

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDF	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
1,2,3,7,8,9-HxCDD	**49**		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
1,2,3,7,8,9-HxCDF	**12**		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
2,3,4,6,7,8-HxCDF	**72**	**I**	5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
2,3,4,7,8-PeCDF	**7.9**	**I**	5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
2,3,7,8-TCDD	<1.0		1.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
2,3,7,8-TCDF	<1.0		1.0		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1
OCDF	**4000**		10		ng/Kg	☼	06/24/22 13:22	06/28/22 10:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*63*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*62*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-1,2,3,4,7,8-HxCDD	*59*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-1,2,3,4,7,8-HxCDF	*58*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*59*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-1,2,3,6,7,8-HxCDD	*67*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-1,2,3,6,7,8-HxCDF	*66*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-1,2,3,7,8-PeCDD	*64*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-1,2,3,7,8-PeCDF	*58*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-1,2,3,7,8,9-HxCDD	*69*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-1,2,3,7,8,9-HxCDF	*61*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-2,3,4,6,7,8-HxCDF	*63*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-2,3,4,7,8-PeCDF	*62*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-2,3,7,8-TCDD	*56*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-2,3,7,8-TCDF	*50*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-OCDD	*62*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*
13C-OCDF	*57*		*40 - 135*	*06/24/22 13:22*	*06/28/22 10:17*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	**51000**		10		ng/Kg	☼	06/24/22 13:22	06/28/22 17:32	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*61*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-1,2,3,4,6,7,8-HpCDF	*60*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-1,2,3,4,7,8-HxCDD	*53*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-1,2,3,4,7,8-HxCDF	*53*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-1,2,3,4,7,8,9-HpCDF	*57*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-1,2,3,6,7,8-HxCDD	*73*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-1,2,3,6,7,8-HxCDF	*68*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-1,2,3,7,8-PeCDD	*64*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-1,2,3,7,8-PeCDF	*55*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-1,2,3,7,8,9-HxCDD	*69*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-1,2,3,7,8,9-HxCDF	*55*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-2,3,4,6,7,8-HxCDF	*58*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-2,3,4,7,8-PeCDF	*62*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-2,3,7,8-TCDD	*48*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-2,3,7,8-TCDF	*37*	**5-*	*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-OCDD	*62*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*
13C-OCDF	*57*		*40 - 135*	*06/24/22 13:22*	*06/28/22 17:32*	*5*

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-2
Project/Site: Georgia Atlantic Port, Georgia - Dioxins

Client Sample ID: SB82-SO-01
Lab Sample ID: 680-216698-5
Date Collected: 06/09/22 10:30
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	16000	G	5.5		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
1,2,3,4,6,7,8-HpCDF	3400	G	9.2		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
1,2,3,4,7,8-HxCDD	100		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
1,2,3,4,7,8-HxCDF	160		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
1,2,3,4,7,8,9-HpCDF	390	I G	18		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
1,2,3,6,7,8-HxCDD	330		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
1,2,3,6,7,8-HxCDF	53		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
1,2,3,7,8-PeCDD	14		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
1,2,3,7,8-PeCDF	11	I	5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
1,2,3,7,8,9-HxCDD	180		5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
1,2,3,7,8,9-HxCDF	18	G	5.1		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
2,3,4,6,7,8-HxCDF	120	I	5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
2,3,4,7,8-PeCDF	12	I	5.0		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
2,3,7,8-TCDD	<1.0		1.0		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
2,3,7,8-TCDF	<1.0		1.0		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1
OCDF	21000		10		ng/Kg	☼	06/24/22 13:22	06/28/22 15:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*66*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*63*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-1,2,3,4,7,8-HxCDD	*59*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-1,2,3,4,7,8-HxCDF	*57*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*60*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-1,2,3,6,7,8-HxCDD	*66*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-1,2,3,6,7,8-HxCDF	*63*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-1,2,3,7,8-PeCDD	*60*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-1,2,3,7,8-PeCDF	*53*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-1,2,3,7,8,9-HxCDD	*70*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-1,2,3,7,8,9-HxCDF	*59*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-2,3,4,6,7,8-HxCDF	*61*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-2,3,4,7,8-PeCDF	*56*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-2,3,7,8-TCDD	*47*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-2,3,7,8-TCDF	*40*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-OCDD	*72*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*
13C-OCDF	*62*		*40 - 135*	*06/24/22 13:22*	*06/28/22 15:00*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	21000		10		ng/Kg	☼	06/24/22 13:22	06/28/22 22:47	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*83*		*40 - 135*	*06/24/22 13:22*	*06/28/22 22:47*	*5*
13C-1,2,3,4,6,7,8-HpCDF	*75*		*40 - 135*	*06/24/22 13:22*	*06/28/22 22:47*	*5*
13C-1,2,3,4,7,8-HxCDD	*82*		*40 - 135*	*06/24/22 13:22*	*06/28/22 22:47*	*5*
13C-1,2,3,4,7,8-HxCDF	*82*		*40 - 135*	*06/24/22 13:22*	*06/28/22 22:47*	*5*
13C-1,2,3,4,7,8,9-HpCDF	*78*		*40 - 135*	*06/24/22 13:22*	*06/28/22 22:47*	*5*
13C-1,2,3,6,7,8-HxCDD	*88*		*40 - 135*	*06/24/22 13:22*	*06/28/22 22:47*	*5*
13C-1,2,3,6,7,8-HxCDF	*79*		*40 - 135*	*06/24/22 13:22*	*06/28/22 22:47*	*5*
13C-1,2,3,7,8-PeCDD	*88*		*40 - 135*	*06/24/22 13:22*	*06/28/22 22:47*	*5*
13C-1,2,3,7,8-PeCDF	*85*		*40 - 135*	*06/24/22 13:22*	*06/28/22 22:47*	*5*
13C-1,2,3,7,8,9-HxCDD	*86*		*40 - 135*	*06/24/22 13:22*	*06/28/22 22:47*	*5*

Client Sample ID: SB82-SO-01
Lab Sample ID: 680-216698-5

Date Collected: 06/09/22 10:30
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,7,8,9-HxCDF	81		40 - 135	06/24/22 13:22	06/28/22 22:47	5
13C-2,3,4,6,7,8-HxCDF	80		40 - 135	06/24/22 13:22	06/28/22 22:47	5
13C-2,3,4,7,8-PeCDF	85		40 - 135	06/24/22 13:22	06/28/22 22:47	5
13C-2,3,7,8-TCDD	89		40 - 135	06/24/22 13:22	06/28/22 22:47	5
13C-2,3,7,8-TCDF	84		40 - 135	06/24/22 13:22	06/28/22 22:47	5
13C-OCDD	76		40 - 135	06/24/22 13:22	06/28/22 22:47	5
13C-OCDF	73		40 - 135	06/24/22 13:22	06/28/22 22:47	5

Client Sample ID: SB83-SO-01
Lab Sample ID: 680-216698-6

Date Collected: 06/09/22 09:35
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 91.2

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDD	570		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 12:11	1
1,2,3,4,7,8-HxCDF	670	G	19		ng/Kg	☼	06/24/22 13:22	06/27/22 12:11	1
1,2,3,4,7,8,9-HpCDF	1800	G I F1	72		ng/Kg	☼	06/24/22 13:22	06/27/22 12:11	1
1,2,3,6,7,8-HxCDD	3000	I F1	5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 12:11	1
1,2,3,6,7,8-HxCDF	170	G I	19		ng/Kg	☼	06/24/22 13:22	06/27/22 12:11	1
1,2,3,7,8-PeCDD	150		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 12:11	1
1,2,3,7,8-PeCDF	30	I	5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 12:11	1
1,2,3,7,8,9-HxCDD	1000		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 12:11	1
1,2,3,7,8,9-HxCDF	110	G	24		ng/Kg	☼	06/24/22 13:22	06/27/22 12:11	1
2,3,4,6,7,8-HxCDF	440	G	20		ng/Kg	☼	06/24/22 13:22	06/27/22 12:11	1
2,3,4,7,8-PeCDF	120		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 12:11	1
2,3,7,8-TCDD	5.4	I	1.0		ng/Kg	☼	06/24/22 13:22	06/27/22 12:11	1
2,3,7,8-TCDF	2.8	I	1.0		ng/Kg	☼	06/24/22 13:22	06/27/22 12:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDD	94		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-1,2,3,4,6,7,8-HpCDF	75		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-1,2,3,4,7,8-HxCDD	63		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-1,2,3,4,7,8-HxCDF	69		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-1,2,3,4,7,8,9-HpCDF	84		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-1,2,3,6,7,8-HxCDD	70		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-1,2,3,6,7,8-HxCDF	74		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-1,2,3,7,8-PeCDD	49		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-1,2,3,7,8-PeCDF	57		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-1,2,3,7,8,9-HxCDD	70		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-1,2,3,7,8,9-HxCDF	74		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-2,3,4,6,7,8-HxCDF	70		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-2,3,4,7,8-PeCDF	54		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-2,3,7,8-TCDD	57		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-2,3,7,8-TCDF	59		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-OCDD	125		40 - 135	06/24/22 13:22	06/27/22 12:11	1
13C-OCDF	105		40 - 135	06/24/22 13:22	06/27/22 12:11	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	110000	G	83		ng/Kg	☼	06/24/22 13:22	06/28/22 01:01	20
1,2,3,4,6,7,8-HpCDF	22000	G	60		ng/Kg	☼	06/24/22 13:22	06/28/22 01:01	20

Client Sample ID: SB83-SO-01
Lab Sample ID: 680-216698-6

Date Collected: 06/09/22 09:35
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 91.2

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDF	140000	G	79		ng/Kg	☼	06/24/22 13:22	06/28/22 01:01	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*69*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-1,2,3,4,6,7,8-HpCDF	*57*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-1,2,3,4,7,8-HxCDD	*48*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-1,2,3,4,7,8-HxCDF	*52*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-1,2,3,4,7,8,9-HpCDF	*64*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-1,2,3,6,7,8-HxCDD	*66*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-1,2,3,6,7,8-HxCDF	*62*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-1,2,3,7,8-PeCDD	*46*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-1,2,3,7,8-PeCDF	*51*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-1,2,3,7,8,9-HxCDD	*55*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-1,2,3,7,8,9-HxCDF	*52*	*I*	*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-2,3,4,6,7,8-HxCDF	*48*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-2,3,4,7,8-PeCDF	*49*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-2,3,7,8-TCDD	*53*	*I*	*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-2,3,7,8-TCDF	*53*	*I*	*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-OCDD	*69*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*
13C-OCDF	*68*		*40 - 135*	*06/24/22 13:22*	*06/28/22 01:01*	*20*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL2

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	1400000	G	130		ng/Kg	☼	06/24/22 13:22	06/28/22 18:22	40

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*46*		*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-1,2,3,4,6,7,8-HpCDF	*46*		*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-1,2,3,4,7,8-HxCDD	*32*	*I *5-*	*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-1,2,3,4,7,8-HxCDF	*36*	**5-*	*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-1,2,3,4,7,8,9-HpCDF	*30*	**5-*	*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-1,2,3,6,7,8-HxCDD	*59*		*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-1,2,3,6,7,8-HxCDF	*49*		*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-1,2,3,7,8-PeCDD	*45*	*I*	*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-1,2,3,7,8-PeCDF	*55*		*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-1,2,3,7,8,9-HxCDD	*42*		*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-1,2,3,7,8,9-HxCDF	*30*	**5-*	*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-2,3,4,6,7,8-HxCDF	*46*	*I*	*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-2,3,4,7,8-PeCDF	*48*	*I*	*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-2,3,7,8-TCDD	*33*	*I *5-*	*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-2,3,7,8-TCDF	*27*	**5-*	*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-OCDD	*55*		*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*
13C-OCDF	*60*	*I*	*40 - 135*	*06/24/22 13:22*	*06/28/22 18:22*	*40*

Client Sample ID: SB84-SO-01
Lab Sample ID: 680-216698-7

Date Collected: 06/09/22 09:10
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 98.0

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	37000	G	25		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
1,2,3,4,6,7,8-HpCDF	9100	G	28		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1

Client Sample ID: SB84-SO-01
Lab Sample ID: 680-216698-7
Date Collected: 06/09/22 09:10
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 98.0

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDD	330		5.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
1,2,3,4,7,8-HxCDF	350	G	8.4		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
1,2,3,4,7,8,9-HpCDF	780	G	41		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
1,2,3,6,7,8-HxCDD	810		5.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
1,2,3,6,7,8-HxCDF	190	G	8.9		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
1,2,3,7,8-PeCDD	97	I	5.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
1,2,3,7,8-PeCDF	11		5.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
1,2,3,7,8,9-HxCDD	540		5.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
1,2,3,7,8,9-HxCDF	<10	G	10		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
2,3,4,6,7,8-HxCDF	290	G	8.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
2,3,4,7,8-PeCDF	59		5.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
2,3,7,8-TCDD	<1.0		1.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
2,3,7,8-TCDF	<1.0		1.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1
OCDF	51000	G	17		ng/Kg	☼	06/29/22 13:24	07/01/22 22:10	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*159*	*5+	*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*150*	*5+	*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-1,2,3,4,7,8-HxCDD	*148*	*5+	*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-1,2,3,4,7,8-HxCDF	*140*	*5+	*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*165*	*5+	*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-1,2,3,6,7,8-HxCDD	*156*	*5+	*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-1,2,3,6,7,8-HxCDF	*150*	*5+	*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-1,2,3,7,8-PeCDD	*107*		*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-1,2,3,7,8-PeCDF	*120*		*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-1,2,3,7,8,9-HxCDD	*156*	*5+	*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-1,2,3,7,8,9-HxCDF	*159*	*5+	*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-2,3,4,6,7,8-HxCDF	*150*	*5+	*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-2,3,4,7,8-PeCDF	*124*		*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-2,3,7,8-TCDD	*134*		*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-2,3,7,8-TCDF	*143*	*5+	*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-OCDD	*178*	*5+	*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*
13C-OCDF	*181*	*5+	*40 - 135*	*06/29/22 13:24*	*07/01/22 22:10*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	450000	G	280		ng/Kg	☼	06/29/22 13:24	07/05/22 22:35	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*138*	*5+	*40 - 135*	*06/29/22 13:24*	*07/05/22 22:35*	*20*
13C-1,2,3,4,6,7,8-HpCDF	*129*		*40 - 135*	*06/29/22 13:24*	*07/05/22 22:35*	*20*
13C-1,2,3,4,7,8-HxCDD	*121*		*40 - 135*	*06/29/22 13:24*	*07/05/22 22:35*	*20*
13C-1,2,3,4,7,8-HxCDF	*114*	*I*	*40 - 135*	*06/29/22 13:24*	*07/05/22 22:35*	*20*
13C-1,2,3,4,7,8,9-HpCDF	*132*		*40 - 135*	*06/29/22 13:24*	*07/05/22 22:35*	*20*
13C-1,2,3,6,7,8-HxCDD	*157*	*5+	*40 - 135*	*06/29/22 13:24*	*07/05/22 22:35*	*20*
13C-1,2,3,6,7,8-HxCDF	*165*	*I *5+	*40 - 135*	*06/29/22 13:24*	*07/05/22 22:35*	*20*
13C-1,2,3,7,8-PeCDD	*130*		*40 - 135*	*06/29/22 13:24*	*07/05/22 22:35*	*20*
13C-1,2,3,7,8-PeCDF	*123*		*40 - 135*	*06/29/22 13:24*	*07/05/22 22:35*	*20*
13C-1,2,3,7,8,9-HxCDD	*145*	*5+	*40 - 135*	*06/29/22 13:24*	*07/05/22 22:35*	*20*
13C-1,2,3,7,8,9-HxCDF	*133*		*40 - 135*	*06/29/22 13:24*	*07/05/22 22:35*	*20*
13C-2,3,4,6,7,8-HxCDF	*134*		*40 - 135*	*06/29/22 13:24*	*07/05/22 22:35*	*20*

Client Sample ID: SB84-SO-01
Lab Sample ID: 680-216698-7

Date Collected: 06/09/22 09:10
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 98.0

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,4,7,8-PeCDF	135		40 - 135	06/29/22 13:24	07/05/22 22:35	20
13C-2,3,7,8-TCDD	108		40 - 135	06/29/22 13:24	07/05/22 22:35	20
13C-2,3,7,8-TCDF	121		40 - 135	06/29/22 13:24	07/05/22 22:35	20
13C-OCDD	125		40 - 135	06/29/22 13:24	07/05/22 22:35	20
13C-OCDF	122		40 - 135	06/29/22 13:24	07/05/22 22:35	20

Client Sample ID: SB85-SO-01
Lab Sample ID: 680-216698-8

Date Collected: 06/09/22 08:55
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.0

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	49000	G	35		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
1,2,3,4,6,7,8-HpCDF	8100	G	21		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
1,2,3,4,7,8-HxCDD	200	I G	11		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
1,2,3,4,7,8-HxCDF	180	G	8.6		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
1,2,3,4,7,8,9-HpCDF	430	G	31		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
1,2,3,6,7,8-HxCDD	960	G	11		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
1,2,3,6,7,8-HxCDF	50	I G	8.5		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
1,2,3,7,8-PeCDD	34	I	5.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
1,2,3,7,8-PeCDF	8.2	I	5.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
1,2,3,7,8,9-HxCDD	290	G	12		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
1,2,3,7,8,9-HxCDF	<10	G	10		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
2,3,4,6,7,8-HxCDF	80	I G	7.7		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
2,3,4,7,8-PeCDF	11		5.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
2,3,7,8-TCDD	<1.0		1.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
2,3,7,8-TCDF	<1.0		1.0		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1
OCDF	55000	G	23		ng/Kg	☼	06/29/22 13:24	07/01/22 22:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDD	116		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-1,2,3,4,6,7,8-HpCDF	106		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-1,2,3,4,7,8-HxCDD	102		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-1,2,3,4,7,8-HxCDF	98		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-1,2,3,4,7,8,9-HpCDF	115		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-1,2,3,6,7,8-HxCDD	109		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-1,2,3,6,7,8-HxCDF	108		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-1,2,3,7,8-PeCDD	73		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-1,2,3,7,8-PeCDF	81		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-1,2,3,7,8,9-HxCDD	110		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-1,2,3,7,8,9-HxCDF	113		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-2,3,4,6,7,8-HxCDF	104		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-2,3,4,7,8-PeCDF	88		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-2,3,7,8-TCDD	88		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-2,3,7,8-TCDF	103		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-OCDD	127		40 - 135	06/29/22 13:24	07/01/22 22:59	1
13C-OCDF	128		40 - 135	06/29/22 13:24	07/01/22 22:59	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	490000	G	460		ng/Kg	☼	06/29/22 13:24	07/05/22 23:24	20

Client Sample ID: SB85-SO-01

Lab Sample ID: 680-216698-8

Date Collected: 06/09/22 08:55
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.0

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDD	84	I	40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-1,2,3,4,6,7,8-HpCDF	93	I	40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-1,2,3,4,7,8-HxCDD	78	I	40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-1,2,3,4,7,8-HxCDF	91		40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-1,2,3,4,7,8,9-HpCDF	96		40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-1,2,3,6,7,8-HxCDD	124		40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-1,2,3,6,7,8-HxCDF	103	I	40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-1,2,3,7,8-PeCDD	71	I	40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-1,2,3,7,8-PeCDF	84		40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-1,2,3,7,8,9-HxCDD	93		40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-1,2,3,7,8,9-HxCDF	88		40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-2,3,4,6,7,8-HxCDF	106		40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-2,3,4,7,8-PeCDF	82		40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-2,3,7,8-TCDD	72		40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-2,3,7,8-TCDF	78	I	40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-OCDD	82		40 - 135	06/29/22 13:24	07/05/22 23:24	20
13C-OCDF	85		40 - 135	06/29/22 13:24	07/05/22 23:24	20

Client Sample ID: SB86-SO-01

Lab Sample ID: 680-216698-9

Date Collected: 06/09/22 08:25
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.3

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDF	**5900**	**G**	11		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
1,2,3,4,7,8-HxCDD	**150**		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
1,2,3,4,7,8-HxCDF	**100**	**G**	5.1		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
1,2,3,4,7,8,9-HpCDF	**410**	**G I**	16		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
1,2,3,6,7,8-HxCDD	**640**		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
1,2,3,6,7,8-HxCDF	**22**		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
1,2,3,7,8-PeCDD	**28**		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
1,2,3,7,8-PeCDF	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
1,2,3,7,8,9-HxCDD	**230**		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
1,2,3,7,8,9-HxCDF	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
2,3,4,6,7,8-HxCDF	**69**	**I**	5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
2,3,4,7,8-PeCDF	**11**	**I**	5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
2,3,7,8-TCDD	**1.5**	**I**	1.0		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
2,3,7,8-TCDF	**2.0**	**I**	1.0		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1
OCDF	**37000**		10		ng/Kg	☼	06/24/22 13:22	06/27/22 15:41	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDD	96		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-1,2,3,4,6,7,8-HpCDF	93		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-1,2,3,4,7,8-HxCDD	74		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-1,2,3,4,7,8-HxCDF	78		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-1,2,3,4,7,8,9-HpCDF	101		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-1,2,3,6,7,8-HxCDD	83		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-1,2,3,6,7,8-HxCDF	91		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-1,2,3,7,8-PeCDD	61		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-1,2,3,7,8-PeCDF	63		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-1,2,3,7,8,9-HxCDD	83		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-1,2,3,7,8,9-HxCDF	97		40 - 135	06/24/22 13:22	06/27/22 15:41	1

Client Sample ID: SB86-SO-01
Lab Sample ID: 680-216698-9

Date Collected: 06/09/22 08:25
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.3

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,4,6,7,8-HxCDF	85		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-2,3,4,7,8-PeCDF	66		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-2,3,7,8-TCDD	60		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-2,3,7,8-TCDF	65		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-OCDD	112		40 - 135	06/24/22 13:22	06/27/22 15:41	1
13C-OCDF	111		40 - 135	06/24/22 13:22	06/27/22 15:41	1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	32000	G	30		ng/Kg	☼	06/24/22 13:22	06/28/22 01:49	10
OCDD	300000	G	33		ng/Kg	☼	06/24/22 13:22	06/28/22 01:49	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDD	59		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-1,2,3,4,6,7,8-HpCDF	56		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-1,2,3,4,7,8-HxCDD	49		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-1,2,3,4,7,8-HxCDF	58		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-1,2,3,4,7,8,9-HpCDF	64		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-1,2,3,6,7,8-HxCDD	63		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-1,2,3,6,7,8-HxCDF	72		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-1,2,3,7,8-PeCDD	47	I	40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-1,2,3,7,8-PeCDF	45	I	40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-1,2,3,7,8,9-HxCDD	57		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-1,2,3,7,8,9-HxCDF	64		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-2,3,4,6,7,8-HxCDF	62		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-2,3,4,7,8-PeCDF	49		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-2,3,7,8-TCDD	58		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-2,3,7,8-TCDF	47		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-OCDD	69		40 - 135	06/24/22 13:22	06/28/22 01:49	10
13C-OCDF	66		40 - 135	06/24/22 13:22	06/28/22 01:49	10

Client Sample ID: SB88-SO-01
Lab Sample ID: 680-216698-11

Date Collected: 06/09/22 07:50
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 94.3

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	130000	G	70		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
1,2,3,4,6,7,8-HpCDF	15000	G	38		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
1,2,3,4,7,8-HxCDD	250	G	16		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
1,2,3,4,7,8-HxCDF	790	G	22		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
1,2,3,4,7,8,9-HpCDF	1100	G	58		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
1,2,3,6,7,8-HxCDD	2600	G	17		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
1,2,3,6,7,8-HxCDF	130	G	21		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
1,2,3,7,8-PeCDD	57	I	5.0		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
1,2,3,7,8-PeCDF	28	G	6.2		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
1,2,3,7,8,9-HxCDD	470	G	17		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
1,2,3,7,8,9-HxCDF	130	G	23		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
2,3,4,6,7,8-HxCDF	410	I G	20		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
2,3,4,7,8-PeCDF	140	I	5.0		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
2,3,7,8-TCDD	<1.3	G	1.3		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1

Client Sample ID: SB88-SO-01
Lab Sample ID: 680-216698-11

Date Collected: 06/09/22 07:50
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 94.3

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	<1.1	G	1.1		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1
OCDF	**95000**	**G**	48		ng/Kg	☼	06/29/22 13:24	07/01/22 23:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*84*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*78*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-1,2,3,4,7,8-HxCDD	*73*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-1,2,3,4,7,8-HxCDF	*73*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*87*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-1,2,3,6,7,8-HxCDD	*75*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-1,2,3,6,7,8-HxCDF	*79*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-1,2,3,7,8-PeCDD	*59*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-1,2,3,7,8-PeCDF	*65*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-1,2,3,7,8,9-HxCDD	*76*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-1,2,3,7,8,9-HxCDF	*77*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-2,3,4,6,7,8-HxCDF	*76*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-2,3,4,7,8-PeCDF	*69*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-2,3,7,8-TCDD	*68*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-2,3,7,8-TCDF	*74*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-OCDD	*99*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*
13C-OCDF	*96*		*40 - 135*	*06/29/22 13:24*	*07/01/22 23:48*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	**1700000**	**G**	710		ng/Kg	☼	06/29/22 13:24	07/06/22 00:13	40

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*63*		*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-1,2,3,4,6,7,8-HpCDF	*68*		*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-1,2,3,4,7,8-HxCDD	*60*		*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-1,2,3,4,7,8-HxCDF	*61*		*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-1,2,3,4,7,8,9-HpCDF	*60*		*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-1,2,3,6,7,8-HxCDD	*84*		*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-1,2,3,6,7,8-HxCDF	*77*	*I*	*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-1,2,3,7,8-PeCDD	*62*		*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-1,2,3,7,8-PeCDF	*48*		*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-1,2,3,7,8,9-HxCDD	*76*		*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-1,2,3,7,8,9-HxCDF	*56*		*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-2,3,4,6,7,8-HxCDF	*75*		*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-2,3,4,7,8-PeCDF	*67*		*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-2,3,7,8-TCDD	*50*	*I*	*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-2,3,7,8-TCDF	*55*		*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-OCDD	*57*	*I*	*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*
13C-OCDF	*60*	*I*	*40 - 135*	*06/29/22 13:24*	*07/06/22 00:13*	*40*

Client Sample ID: DUP-01
Lab Sample ID: 680-216698-12

Date Collected: 06/09/22 08:25
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 91.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDF	**6100**	**G**	12		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-2
Project/Site: Georgia Atlantic Port, Georgia - Dioxins

Client Sample ID: DUP-01
Lab Sample ID: 680-216698-12
Date Collected: 06/09/22 08:25
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 91.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDD	240	I	5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1
1,2,3,4,7,8-HxCDF	140	G	5.2		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1
1,2,3,4,7,8,9-HpCDF	520	I G	21		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1
1,2,3,6,7,8-HxCDD	740		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1
1,2,3,6,7,8-HxCDF	39	I	5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1
1,2,3,7,8-PeCDD	88		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1
1,2,3,7,8-PeCDF	<5.0		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1
1,2,3,7,8,9-HxCDD	370		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1
1,2,3,7,8,9-HxCDF	20	G	6.9		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1
2,3,4,6,7,8-HxCDF	100		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1
2,3,4,7,8-PeCDF	23		5.0		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1
2,3,7,8-TCDD	2.7	I G	2.3		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1
2,3,7,8-TCDF	<1.4	G	1.4		ng/Kg	☼	06/24/22 13:22	06/27/22 17:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*81*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*77*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-1,2,3,4,7,8-HxCDD	*68*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-1,2,3,4,7,8-HxCDF	*71*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*83*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-1,2,3,6,7,8-HxCDD	*75*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-1,2,3,6,7,8-HxCDF	*79*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-1,2,3,7,8-PeCDD	*61*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-1,2,3,7,8-PeCDF	*61*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-1,2,3,7,8,9-HxCDD	*75*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-1,2,3,7,8,9-HxCDF	*77*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-2,3,4,6,7,8-HxCDF	*75*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-2,3,4,7,8-PeCDF	*64*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-2,3,7,8-TCDD	*56*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-2,3,7,8-TCDF	*54*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-OCDD	*93*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*
13C-OCDF	*91*		*40 - 135*	*06/24/22 13:22*	*06/27/22 17:18*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	32000	G	90		ng/Kg	☼	06/24/22 13:22	06/28/22 02:38	20
OCDD	290000	G	88		ng/Kg	☼	06/24/22 13:22	06/28/22 02:38	20
OCDF	32000	G	40		ng/Kg	☼	06/24/22 13:22	06/28/22 02:38	20

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*85*		*40 - 135*	*06/24/22 13:22*	*06/28/22 02:38*	*20*
13C-1,2,3,4,6,7,8-HpCDF	*67*	*I*	*40 - 135*	*06/24/22 13:22*	*06/28/22 02:38*	*20*
13C-1,2,3,4,7,8-HxCDD	*61*		*40 - 135*	*06/24/22 13:22*	*06/28/22 02:38*	*20*
13C-1,2,3,4,7,8-HxCDF	*52*		*40 - 135*	*06/24/22 13:22*	*06/28/22 02:38*	*20*
13C-1,2,3,4,7,8,9-HpCDF	*75*		*40 - 135*	*06/24/22 13:22*	*06/28/22 02:38*	*20*
13C-1,2,3,6,7,8-HxCDD	*79*	*I*	*40 - 135*	*06/24/22 13:22*	*06/28/22 02:38*	*20*
13C-1,2,3,6,7,8-HxCDF	*95*		*40 - 135*	*06/24/22 13:22*	*06/28/22 02:38*	*20*
13C-1,2,3,7,8-PeCDD	*66*	*I*	*40 - 135*	*06/24/22 13:22*	*06/28/22 02:38*	*20*
13C-1,2,3,7,8-PeCDF	*51*	*I*	*40 - 135*	*06/24/22 13:22*	*06/28/22 02:38*	*20*
13C-1,2,3,7,8,9-HxCDD	*6*	*I *5-*	*40 - 135*	*06/24/22 13:22*	*06/28/22 02:38*	*20*
13C-1,2,3,7,8,9-HxCDF	*69*	*I*	*40 - 135*	*06/24/22 13:22*	*06/28/22 02:38*	*20*

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-2
Project/Site: Georgia Atlantic Port, Georgia - Dioxins

Client Sample ID: DUP-01
Lab Sample ID: 680-216698-12
Date Collected: 06/09/22 08:25
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 91.5

Method: 8290A - Dioxins and Furans (HRGC/HRMS) - DL (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,4,6,7,8-HxCDF	52	I	40 - 135	06/24/22 13:22	06/28/22 02:38	20
13C-2,3,4,7,8-PeCDF	63		40 - 135	06/24/22 13:22	06/28/22 02:38	20
13C-2,3,7,8-TCDD	59		40 - 135	06/24/22 13:22	06/28/22 02:38	20
13C-2,3,7,8-TCDF	61	I	40 - 135	06/24/22 13:22	06/28/22 02:38	20
13C-OCDD	99		40 - 135	06/24/22 13:22	06/28/22 02:38	20
13C-OCDF	98		40 - 135	06/24/22 13:22	06/28/22 02:38	20

Isotope Dilution Summary

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-2
Project/Site: Georgia Atlantic Port, Georgia - Dioxins

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HpCDD (40-135)	HpCDF (40-135)	HxCDD (40-135)	HxCDF (40-135)	HpCDF2 (40-135)	HxDD (40-135)	HxDF (40-135)	PeCDD (40-135)
680-216698-2	SB79-SO-03	63	61	60	57	57	65	62	65
680-216698-3	SB80-SO-01	63	62	59	58	59	67	66	64
680-216698-3 - DL	SB80-SO-01	61	60	53	53	57	73	68	64
680-216698-5 - DL	SB82-SO-01	83	75	82	82	78	88	79	88
680-216698-5	SB82-SO-01	66	63	59	57	60	66	63	60
680-216698-6	SB83-SO-01	94	75	63	69	84	70	74	49
680-216698-6 - DL	SB83-SO-01	69	57	48	52	64	66	62	46
680-216698-6 - DL2	SB83-SO-01	46	46	32 I *5-	36 *5-	30 *5-	59	49	45 I
680-216698-6 MS	SB83-SO-01	104	92	74	80	106	84	89	57
680-216698-6 MSD	SB83-SO-01	81	77	62	68	77	68	75	51
680-216698-7	SB84-SO-01	159 *5+	150 *5+	148 *5+	140 *5+	165 *5+	156 *5+	150 *5+	107
680-216698-7 - DL	SB84-SO-01	138 *5+	129	121	114 I	132	157 *5+	165 I *5+	130
680-216698-8	SB85-SO-01	116	106	102	98	115	109	108	73
680-216698-8 - DL	SB85-SO-01	84 I	93 I	78 I	91	96	124	103 I	71 I
680-216698-9	SB86-SO-01	96	93	74	78	101	83	91	61
680-216698-9 - DL	SB86-SO-01	59	56	49	58	64	63	72	47 I
680-216698-11	SB88-SO-01	84	78	73	73	87	75	79	59
680-216698-11 - DL	SB88-SO-01	63	68	60	61	60	84	77 I	62
680-216698-12	DUP-01	81	77	68	71	83	75	79	61
680-216698-12 - DL	DUP-01	85	67 I	61	52	75	79 I	95	66 I
LCS 410-269112/2-A	Lab Control Sample	42	40	40	39 *5-	38 *5-	43	41	41
LCS 410-270746/2-A	Lab Control Sample	34 *5-	32 *5-	30 *5-	29 *5-	35 *5-	36 *5-	35 *5-	26 *5-
MB 410-269112/1-A	Method Blank	65	64	60	59	60	67	63	60

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PeCDF (40-135)	13CHxCD (40-135)	HxCF (40-135)	13CHxCF (40-135)	PeCF (40-135)	TCDD (40-135)	TCDF (40-135)	OCDD (40-135)
680-216698-2	SB79-SO-03	57	67	58	60	61	47	43	59
680-216698-3	SB80-SO-01	58	69	61	63	62	56	50	62
680-216698-3 - DL	SB80-SO-01	55	69	55	58	62	48	37 *5-	62
680-216698-5 - DL	SB82-SO-01	85	86	81	80	85	89	84	76
680-216698-5	SB82-SO-01	53	70	59	61	56	47	40	72
680-216698-6	SB83-SO-01	57	70	74	70	54	57	59	125
680-216698-6 - DL	SB83-SO-01	51	55	52 I	48	49	53 I	53 I	69
680-216698-6 - DL2	SB83-SO-01	55	42	30 *5-	46 I	48 I	33 I *5-	27 *5-	55
680-216698-6 MS	SB83-SO-01	60	82	86	83	63	62	62	127
680-216698-6 MSD	SB83-SO-01	55	67	75	70	56	54	56	92
680-216698-7	SB84-SO-01	120	156 *5+	159 *5+	150 *5+	124	134	143 *5+	178 *5+
680-216698-7 - DL	SB84-SO-01	123	145 *5+	133	134	135	108	121	125
680-216698-8	SB85-SO-01	81	110	113	104	88	88	103	127
680-216698-8 - DL	SB85-SO-01	84	93	88	106	82	72	78 I	82
680-216698-9	SB86-SO-01	63	83	97	85	66	60	65	112
680-216698-9 - DL	SB86-SO-01	45 I	57	64	62	49	58	47	69
680-216698-11	SB88-SO-01	65	76	77	76	69	68	74	99
680-216698-11 - DL	SB88-SO-01	48	76	56	75	67	50 I	55	57 I
680-216698-12	DUP-01	61	75	77	75	64	56	54	93
680-216698-12 - DL	DUP-01	51 I	6 I *5-	69 I	52 I	63	59	61 I	99
LCS 410-269112/2-A	Lab Control Sample	37 *5-	45	39 *5-	41	39 *5-	31 *5-	30 *5-	40
LCS 410-270746/2-A	Lab Control Sample	26 *5-	35 *5-	34 *5-	34 *5-	30 *5-	23 *5-	21 *5-	35 *5-
MB 410-269112/1-A	Method Blank	54	69	61	60	59	49	45	63

Isotope Dilution Summary

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-2
Project/Site: Georgia Atlantic Port, Georgia - Dioxins

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)						
		OCDF						
Lab Sample ID	Client Sample ID	(40-135)						
680-216698-2	SB79-SO-03	55						
680-216698-3	SB80-SO-01	57						
680-216698-3 - DL	SB80-SO-01	57						
680-216698-5 - DL	SB82-SO-01	73						
680-216698-5	SB82-SO-01	62						
680-216698-6	SB83-SO-01	105						
680-216698-6 - DL	SB83-SO-01	68						
680-216698-6 - DL2	SB83-SO-01	60 I						
680-216698-6 MS	SB83-SO-01	126						
680-216698-6 MSD	SB83-SO-01	91						
680-216698-7	SB84-SO-01	181 *5+						
680-216698-7 - DL	SB84-SO-01	122						
680-216698-8	SB85-SO-01	128						
680-216698-8 - DL	SB85-SO-01	85						
680-216698-9	SB86-SO-01	111						
680-216698-9 - DL	SB86-SO-01	66						
680-216698-11	SB88-SO-01	96						
680-216698-11 - DL	SB88-SO-01	60 I						
680-216698-12	DUP-01	91						
680-216698-12 - DL	DUP-01	98						
LCS 410-269112/2-A	Lab Control Sample	38 *5-						
LCS 410-270746/2-A	Lab Control Sample	32 *5-						
MB 410-269112/1-A	Method Blank	59						

Surrogate Legend

HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxDF = 13C-1,2,3,6,7,8-HxCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
13CHxCD = 13C-1,2,3,7,8,9-HxCDD
HxCF = 13C-1,2,3,7,8,9-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
PeCF = 13C-2,3,4,7,8-PeCDF
TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
OCDD = 13C-OCDD
OCDF = 13C-OCDF

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 410-269112/1-A
Matrix: Solid
Analysis Batch: 269603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269112

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	<5.0		5.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
1,2,3,4,6,7,8-HpCDF	<5.0		5.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
1,2,3,4,7,8-HxCDD	<5.0		5.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
1,2,3,4,7,8-HxCDF	<5.0		5.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
1,2,3,4,7,8,9-HpCDF	<5.0		5.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
1,2,3,6,7,8-HxCDD	<5.0		5.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
1,2,3,6,7,8-HxCDF	<5.0		5.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
1,2,3,7,8-PeCDD	<5.0		5.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
1,2,3,7,8-PeCDF	<5.0		5.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
1,2,3,7,8,9-HxCDD	<5.0		5.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
1,2,3,7,8,9-HxCDF	<5.0		5.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
2,3,4,6,7,8-HxCDF	<5.0		5.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
2,3,4,7,8-PeCDF	<5.0		5.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
2,3,7,8-TCDD	<1.0		1.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
2,3,7,8-TCDF	<1.0		1.0		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
OCDD	<10		10		ng/Kg		06/24/22 13:22	06/27/22 12:10	1
OCDF	<10		10		ng/Kg		06/24/22 13:22	06/27/22 12:10	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDD	*65*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*64*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-1,2,3,4,7,8-HxCDD	*60*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-1,2,3,4,7,8-HxCDF	*59*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*60*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-1,2,3,6,7,8-HxCDD	*67*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-1,2,3,6,7,8-HxCDF	*63*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-1,2,3,7,8-PeCDD	*60*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-1,2,3,7,8-PeCDF	*54*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-1,2,3,7,8,9-HxCDD	*69*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-1,2,3,7,8,9-HxCDF	*61*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-2,3,4,6,7,8-HxCDF	*60*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-2,3,4,7,8-PeCDF	*59*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-2,3,7,8-TCDD	*49*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-2,3,7,8-TCDF	*45*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-OCDD	*63*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*
13C-OCDF	*59*		*40 - 135*	*06/24/22 13:22*	*06/27/22 12:10*	*1*

Lab Sample ID: LCS 410-269112/2-A
Matrix: Solid
Analysis Batch: 269603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3,4,6,7,8-HpCDD	100	105		ng/Kg		105	77 - 127
1,2,3,4,6,7,8-HpCDF	100	112		ng/Kg		112	77 - 127
1,2,3,4,7,8-HxCDD	100	105		ng/Kg		105	77 - 127
1,2,3,4,7,8-HxCDF	100	110		ng/Kg		110	77 - 129
1,2,3,4,7,8,9-HpCDF	100	111		ng/Kg		111	77 - 127
1,2,3,6,7,8-HxCDD	100	107		ng/Kg		107	76 - 127
1,2,3,6,7,8-HxCDF	100	112		ng/Kg		112	77 - 129

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 410-269112/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 269603
Prep Batch: 269112

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3,7,8-PeCDD			100	105		ng/Kg		105	77 - 127		
1,2,3,7,8-PeCDF			100	105		ng/Kg		105	75 - 129		
1,2,3,7,8,9-HxCDD			100	104		ng/Kg		104	76 - 127		
1,2,3,7,8,9-HxCDF			100	112		ng/Kg		112	76 - 126		
2,3,4,6,7,8-HxCDF			100	109		ng/Kg		109	78 - 128		
2,3,4,7,8-PeCDF			100	108		ng/Kg		108	75 - 131		
2,3,7,8-TCDD			20.0	20.5		ng/Kg		102	68 - 142		
2,3,7,8-TCDF			20.0	22.5		ng/Kg		113	70 - 133		
OCDD			200	225		ng/Kg		113	77 - 125		
OCDF			200	216		ng/Kg		108	75 - 128		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-1,2,3,4,6,7,8-HpCDD	*42*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*40*		*40 - 135*
13C-1,2,3,4,7,8-HxCDD	*40*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*39*	*5-	*40 - 135*
13C-1,2,3,4,7,8,9-HpCDF	*38*	*5-	*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*43*		*40 - 135*
13C-1,2,3,6,7,8-HxCDF	*41*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*41*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*37*	*5-	*40 - 135*
13C-1,2,3,7,8,9-HxCDD	*45*		*40 - 135*
13C-1,2,3,7,8,9-HxCDF	*39*	*5-	*40 - 135*
13C-2,3,4,6,7,8-HxCDF	*41*		*40 - 135*
13C-2,3,4,7,8-PeCDF	*39*	*5-	*40 - 135*
13C-2,3,7,8-TCDD	*31*	*5-	*40 - 135*
13C-2,3,7,8-TCDF	*30*	*5-	*40 - 135*
13C-OCDD	*40*		*40 - 135*
13C-OCDF	*38*	*5-	*40 - 135*

Lab Sample ID: 680-216698-6 MS
Client Sample ID: SB83-SO-01
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 269606
Prep Batch: 269112

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3,4,6,7,8-HpCDD	130000	G E	1050	133000	E G 4	ng/Kg	☼	-66	77 - 127		
1,2,3,4,6,7,8-HpCDF	22000	G E	1050	21600	E G 4	ng/Kg	☼	-0.3	77 - 127		
1,2,3,4,7,8-HxCDD	570		1050	1740		ng/Kg	☼	112	77 - 127		
1,2,3,4,7,8-HxCDF	670	G	1050	1810	G	ng/Kg	☼	109	77 - 129		
1,2,3,4,7,8,9-HpCDF	1800	G I F1	1050	2630	G	ng/Kg	☼	79	77 - 127		
1,2,3,6,7,8-HxCDD	3000	I F1	1050	3690	F1	ng/Kg	☼	61	76 - 127		
1,2,3,6,7,8-HxCDF	170	G I	1050	1310	G	ng/Kg	☼	109	77 - 129		
1,2,3,7,8-PeCDD	150		1050	1470		ng/Kg	☼	126	77 - 127		
1,2,3,7,8-PeCDF	30	I	1050	1120	G	ng/Kg	☼	104	75 - 129		
1,2,3,7,8,9-HxCDD	1000		1050	2200		ng/Kg	☼	111	76 - 127		
1,2,3,7,8,9-HxCDF	110	G	1050	1060	G	ng/Kg	☼	91	76 - 126		
2,3,4,6,7,8-HxCDF	440	G	1050	1620	G	ng/Kg	☼	113	78 - 128		
2,3,4,7,8-PeCDF	120		1050	1380		ng/Kg	☼	120	75 - 131		
2,3,7,8-TCDD	5.4	I	210	236	G	ng/Kg	☼	110	68 - 142		

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: 680-216698-6 MS
Matrix: Solid
Analysis Batch: 269606

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 269112

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDF	2.8	I	210	251	G	ng/Kg	☼	118	70 - 133
OCDD	1200000	G E	2100	1100000	E G 4	ng/Kg	☼	-4973	77 - 125
OCDF	160000	G E	2100	151000	E G 4	ng/Kg	☼	-404	75 - 128

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C-1,2,3,4,6,7,8-HpCDD	*104*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*92*		*40 - 135*
13C-1,2,3,4,7,8-HxCDD	*74*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*80*		*40 - 135*
13C-1,2,3,4,7,8,9-HpCDF	*106*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*84*		*40 - 135*
13C-1,2,3,6,7,8-HxCDF	*89*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*57*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*60*		*40 - 135*
13C-1,2,3,7,8,9-HxCDD	*82*		*40 - 135*
13C-1,2,3,7,8,9-HxCDF	*86*		*40 - 135*
13C-2,3,4,6,7,8-HxCDF	*83*		*40 - 135*
13C-2,3,4,7,8-PeCDF	*63*		*40 - 135*
13C-2,3,7,8-TCDD	*62*		*40 - 135*
13C-2,3,7,8-TCDF	*62*		*40 - 135*
13C-OCDD	*127*		*40 - 135*
13C-OCDF	*126*		*40 - 135*

Lab Sample ID: 680-216698-6 MSD
Matrix: Solid
Analysis Batch: 269606

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 269112

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDD	130000	G E	1050	107000	E G 4	ng/Kg	☼	-2546	77 - 127	22	25
1,2,3,4,6,7,8-HpCDF	22000	G E	1050	18300	G 4	ng/Kg	☼	-317	77 - 127	17	25
1,2,3,4,7,8-HxCDD	570		1050	1630	G	ng/Kg	☼	101	77 - 127	7	25
1,2,3,4,7,8-HxCDF	670	G	1050	1750	G	ng/Kg	☼	103	77 - 129	3	25
1,2,3,4,7,8,9-HpCDF	1800	G I F1	1050	2390	G F1	ng/Kg	☼	56	77 - 127	9	25
1,2,3,6,7,8-HxCDD	3000	I F1	1050	3530	G F1	ng/Kg	☼	46	76 - 127	4	25
1,2,3,6,7,8-HxCDF	170	G I	1050	1360	G	ng/Kg	☼	113	77 - 129	3	25
1,2,3,7,8-PeCDD	150		1050	1430		ng/Kg	☼	122	77 - 127	3	25
1,2,3,7,8-PeCDF	30	I	1050	1100	G	ng/Kg	☼	102	75 - 129	2	25
1,2,3,7,8,9-HxCDD	1000		1050	2070	G	ng/Kg	☼	99	76 - 127	6	25
1,2,3,7,8,9-HxCDF	110	G	1050	1130	G	ng/Kg	☼	97	76 - 126	7	25
2,3,4,6,7,8-HxCDF	440	G	1050	1610	G	ng/Kg	☼	111	78 - 128	1	25
2,3,4,7,8-PeCDF	120		1050	1390		ng/Kg	☼	120	75 - 131	0	25
2,3,7,8-TCDD	5.4	I	210	253		ng/Kg	☼	117	68 - 142	7	25
2,3,7,8-TCDF	2.8	I	210	250	G	ng/Kg	☼	118	70 - 133	0	25
OCDD	1200000	G E	2100	1220000	E G 4	ng/Kg	☼	601	77 - 125	10	25
OCDF	160000	G E	2100	123000	E G 4	ng/Kg	☼	-1731	75 - 128	20	25

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C-1,2,3,4,6,7,8-HpCDD	*81*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*77*		*40 - 135*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: 680-216698-6 MSD
Matrix: Solid
Analysis Batch: 269606

Client Sample ID: SB83-SO-01
Prep Type: Total/NA
Prep Batch: 269112

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C-1,2,3,4,7,8-HxCDD	62		40 - 135
13C-1,2,3,4,7,8-HxCDF	68		40 - 135
13C-1,2,3,4,7,8,9-HpCDF	77		40 - 135
13C-1,2,3,6,7,8-HxCDD	68		40 - 135
13C-1,2,3,6,7,8-HxCDF	75		40 - 135
13C-1,2,3,7,8-PeCDD	51		40 - 135
13C-1,2,3,7,8-PeCDF	55		40 - 135
13C-1,2,3,7,8,9-HxCDD	67		40 - 135
13C-1,2,3,7,8,9-HxCDF	75		40 - 135
13C-2,3,4,6,7,8-HxCDF	70		40 - 135
13C-2,3,4,7,8-PeCDF	56		40 - 135
13C-2,3,7,8-TCDD	54		40 - 135
13C-2,3,7,8-TCDF	56		40 - 135
13C-OCDD	92		40 - 135
13C-OCDF	91		40 - 135

Lab Sample ID: LCS 410-270746/2-A
Matrix: Solid
Analysis Batch: 272153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270746

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3,4,6,7,8-HpCDD			100	115		ng/Kg		115	77 - 127		
1,2,3,4,6,7,8-HpCDF			100	111		ng/Kg		111	77 - 127		
1,2,3,4,7,8-HxCDD			100	113		ng/Kg		113	77 - 127		
1,2,3,4,7,8-HxCDF			100	110		ng/Kg		110	77 - 129		
1,2,3,4,7,8,9-HpCDF			100	112		ng/Kg		112	77 - 127		
1,2,3,6,7,8-HxCDD			100	114		ng/Kg		114	76 - 127		
1,2,3,6,7,8-HxCDF			100	106		ng/Kg		106	77 - 129		
1,2,3,7,8-PeCDD			100	126		ng/Kg		126	77 - 127		
1,2,3,7,8-PeCDF			100	111		ng/Kg		111	75 - 129		
1,2,3,7,8,9-HxCDD			100	118		ng/Kg		118	76 - 127		
1,2,3,7,8,9-HxCDF			100	109		ng/Kg		109	76 - 126		
2,3,4,6,7,8-HxCDF			100	115		ng/Kg		115	78 - 128		
2,3,4,7,8-PeCDF			100	113		ng/Kg		113	75 - 131		
2,3,7,8-TCDD			20.0	20.2		ng/Kg		101	68 - 142		
2,3,7,8-TCDF			20.0	21.1		ng/Kg		106	70 - 133		
OCDD			200	226		ng/Kg		113	77 - 125		
OCDF			200	231		ng/Kg		116	75 - 128		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-1,2,3,4,6,7,8-HpCDD	34	*5-	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	32	*5-	40 - 135
13C-1,2,3,4,7,8-HxCDD	30	*5-	40 - 135
13C-1,2,3,4,7,8-HxCDF	29	*5-	40 - 135
13C-1,2,3,4,7,8,9-HpCDF	35	*5-	40 - 135
13C-1,2,3,6,7,8-HxCDD	36	*5-	40 - 135
13C-1,2,3,6,7,8-HxCDF	35	*5-	40 - 135
13C-1,2,3,7,8-PeCDD	26	*5-	40 - 135
13C-1,2,3,7,8-PeCDF	26	*5-	40 - 135

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 410-270746/2-A
Matrix: Solid
Analysis Batch: 272153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270746

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-1,2,3,7,8,9-HxCDD	35	*5-	40 - 135
13C-1,2,3,7,8,9-HxCDF	34	*5-	40 - 135
13C-2,3,4,6,7,8-HxCDF	34	*5-	40 - 135
13C-2,3,4,7,8-PeCDF	30	*5-	40 - 135
13C-2,3,7,8-TCDD	23	*5-	40 - 135
13C-2,3,7,8-TCDF	21	*5-	40 - 135
13C-OCDD	35	*5-	40 - 135
13C-OCDF	32	*5-	40 - 135

Specialty Organics

Prep Batch: 269112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-2	SB79-SO-03	Total/NA	Solid	HRMS-Soxtherm	
680-216698-3	SB80-SO-01	Total/NA	Solid	HRMS-Soxtherm	
680-216698-3 - DL	SB80-SO-01	Total/NA	Solid	HRMS-Soxtherm	
680-216698-5 - DL	SB82-SO-01	Total/NA	Solid	HRMS-Soxtherm	
680-216698-5	SB82-SO-01	Total/NA	Solid	HRMS-Soxtherm	
680-216698-6 - DL	SB83-SO-01	Total/NA	Solid	HRMS-Soxtherm	
680-216698-6 - DL2	SB83-SO-01	Total/NA	Solid	HRMS-Soxtherm	
680-216698-6	SB83-SO-01	Total/NA	Solid	HRMS-Soxtherm	
680-216698-9 - DL	SB86-SO-01	Total/NA	Solid	HRMS-Soxtherm	
680-216698-9	SB86-SO-01	Total/NA	Solid	HRMS-Soxtherm	
680-216698-12 - DL	DUP-01	Total/NA	Solid	HRMS-Soxtherm	
680-216698-12	DUP-01	Total/NA	Solid	HRMS-Soxtherm	
MB 410-269112/1-A	Method Blank	Total/NA	Solid	8290A	
LCS 410-269112/2-A	Lab Control Sample	Total/NA	Solid	8290A	
680-216698-6 MS	SB83-SO-01	Total/NA	Solid	HRMS-Soxtherm	
680-216698-6 MSD	SB83-SO-01	Total/NA	Solid	HRMS-Soxtherm	

Analysis Batch: 269603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-2	SB79-SO-03	Total/NA	Solid	8290A	269112
680-216698-3	SB80-SO-01	Total/NA	Solid	8290A	269112
MB 410-269112/1-A	Method Blank	Total/NA	Solid	8290A	269112
LCS 410-269112/2-A	Lab Control Sample	Total/NA	Solid	8290A	269112

Analysis Batch: 269606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-6	SB83-SO-01	Total/NA	Solid	8290A	269112
680-216698-9	SB86-SO-01	Total/NA	Solid	8290A	269112
680-216698-12	DUP-01	Total/NA	Solid	8290A	269112
680-216698-6 MS	SB83-SO-01	Total/NA	Solid	8290A	269112
680-216698-6 MSD	SB83-SO-01	Total/NA	Solid	8290A	269112

Analysis Batch: 269999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-6 - DL	SB83-SO-01	Total/NA	Solid	8290A	269112
680-216698-9 - DL	SB86-SO-01	Total/NA	Solid	8290A	269112
680-216698-12 - DL	DUP-01	Total/NA	Solid	8290A	269112

Analysis Batch: 270275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-3 - DL	SB80-SO-01	Total/NA	Solid	8290A	269112
680-216698-5	SB82-SO-01	Total/NA	Solid	8290A	269112
680-216698-5 - DL	SB82-SO-01	Total/NA	Solid	8290A	269112
680-216698-6 - DL2	SB83-SO-01	Total/NA	Solid	8290A	269112

Prep Batch: 270746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-7	SB84-SO-01	Total/NA	Solid	8290A	
680-216698-7 - DL	SB84-SO-01	Total/NA	Solid	8290A	
680-216698-8 - DL	SB85-SO-01	Total/NA	Solid	8290A	
680-216698-8	SB85-SO-01	Total/NA	Solid	8290A	

Specialty Organics (Continued)

Prep Batch: 270746 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-11 - DL	SB88-SO-01	Total/NA	Solid	8290A	
680-216698-11	SB88-SO-01	Total/NA	Solid	8290A	
LCS 410-270746/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Soxtherm	

Analysis Batch: 271802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-7	SB84-SO-01	Total/NA	Solid	8290A	273184
680-216698-8	SB85-SO-01	Total/NA	Solid	8290A	273184
680-216698-11	SB88-SO-01	Total/NA	Solid	8290A	273184

Analysis Batch: 272153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-270746/2-A	Lab Control Sample	Total/NA	Solid	8290A	270746

Analysis Batch: 272351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-7 - DL	SB84-SO-01	Total/NA	Solid	8290A	273184
680-216698-8 - DL	SB85-SO-01	Total/NA	Solid	8290A	273184
680-216698-11 - DL	SB88-SO-01	Total/NA	Solid	8290A	273184

Dilution Batch: 273184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-216698-7	SB84-SO-01	Total/NA	Solid	Dilution	270746
680-216698-7 - DL	SB84-SO-01	Total/NA	Solid	Dilution	270746
680-216698-8	SB85-SO-01	Total/NA	Solid	Dilution	270746
680-216698-8 - DL	SB85-SO-01	Total/NA	Solid	Dilution	270746
680-216698-11 - DL	SB88-SO-01	Total/NA	Solid	Dilution	270746
680-216698-11	SB88-SO-01	Total/NA	Solid	Dilution	270746

Lab Chronicle

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-2
Project/Site: Georgia Atlantic Port, Georgia - Dioxins

Client Sample ID: SB79-SO-03
Lab Sample ID: 680-216698-2
Date Collected: 06/09/22 12:20
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Soxtherm			1.02 g	20 uL	269112	06/24/22 13:22	J5XT	ELLE
Total/NA	Analysis	8290A		1			269603	06/28/22 09:27	UA2A	ELLE
	Instrument ID: DF17611B									

Client Sample ID: SB80-SO-01
Lab Sample ID: 680-216698-3
Date Collected: 06/09/22 11:30
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Soxtherm			1.02 g	20 uL	269112	06/24/22 13:22	J5XT	ELLE
Total/NA	Analysis	8290A		1			269603	06/28/22 10:17	UA2A	ELLE
	Instrument ID: DF17611B									
Total/NA	Prep	HRMS-Soxtherm	DL		1.02 g	20 uL	269112	06/24/22 13:22	J5XT	ELLE
Total/NA	Analysis	8290A	DL	5			270275	06/28/22 17:32	UA2A	ELLE
	Instrument ID: DF17611B									

Client Sample ID: SB82-SO-01
Lab Sample ID: 680-216698-5
Date Collected: 06/09/22 10:30
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Soxtherm			1.04 g	20 uL	269112	06/24/22 13:22	J5XT	ELLE
Total/NA	Analysis	8290A		1			270275	06/28/22 15:00	UA2A	ELLE
	Instrument ID: DF17611B									
Total/NA	Prep	HRMS-Soxtherm	DL		1.04 g	20 uL	269112	06/24/22 13:22	J5XT	ELLE
Total/NA	Analysis	8290A	DL	5			270275	06/28/22 22:47	UA2A	ELLE
	Instrument ID: DF17611B									

Client Sample ID: SB83-SO-01
Lab Sample ID: 680-216698-6
Date Collected: 06/09/22 09:35
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Soxtherm	DL		1.05 g	20 uL	269112	06/24/22 13:22	J5XT	ELLE
Total/NA	Analysis	8290A	DL	20			269999	06/28/22 01:01	UA2A	ELLE
	Instrument ID: DF17280B									
Total/NA	Prep	HRMS-Soxtherm	DL2		1.05 g	20 uL	269112	06/24/22 13:22	J5XT	ELLE
Total/NA	Analysis	8290A	DL2	40			270275	06/28/22 18:22	UA2A	ELLE
	Instrument ID: DF17611B									
Total/NA	Prep	HRMS-Soxtherm			1.05 g	20 uL	269112	06/24/22 13:22	J5XT	ELLE
Total/NA	Analysis	8290A		1			269606	06/27/22 12:11	UA2A	ELLE
	Instrument ID: DF18471									

Client Sample ID: SB84-SO-01
Lab Sample ID: 680-216698-7

Date Collected: 06/09/22 09:10
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290A			1.00 g	10 mL	270746	06/29/22 13:24	RGA5	ELLE
Total/NA	Analysis	8290A		1			271802	07/01/22 22:10	UA2A	ELLE
	Instrument ID: DF18471									
Total/NA	Dilution	Dilution			1000 uL	20 uL	273184	07/07/22 12:57	UMA9	ELLE
Total/NA	Prep	8290A	DL		1.00 g	10 mL	270746	06/29/22 13:24	RGA5	ELLE
Total/NA	Analysis	8290A	DL	20			272351	07/05/22 22:35	UA2A	ELLE
	Instrument ID: DF18471									
Total/NA	Dilution	Dilution	DL		1000 uL	20 uL	273184	07/07/22 12:57	UMA9	ELLE

Client Sample ID: SB85-SO-01
Lab Sample ID: 680-216698-8

Date Collected: 06/09/22 08:55
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290A			1.09 g	10 mL	270746	06/29/22 13:24	RGA5	ELLE
Total/NA	Analysis	8290A		1			271802	07/01/22 22:59	UA2A	ELLE
	Instrument ID: DF18471									
Total/NA	Dilution	Dilution			1000 uL	20 uL	273184	07/07/22 12:57	UMA9	ELLE
Total/NA	Prep	8290A	DL		1.09 g	10 mL	270746	06/29/22 13:24	RGA5	ELLE
Total/NA	Analysis	8290A	DL	20			272351	07/05/22 23:24	UA2A	ELLE
	Instrument ID: DF18471									
Total/NA	Dilution	Dilution	DL		1000 uL	20 uL	273184	07/07/22 12:57	UMA9	ELLE

Client Sample ID: SB86-SO-01
Lab Sample ID: 680-216698-9

Date Collected: 06/09/22 08:25
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Soxtherm	DL		1.03 g	20 uL	269112	06/24/22 13:22	J5XT	ELLE
Total/NA	Analysis	8290A	DL	10			269999	06/28/22 01:49	UA2A	ELLE
	Instrument ID: DF17280B									
Total/NA	Prep	HRMS-Soxtherm			1.03 g	20 uL	269112	06/24/22 13:22	J5XT	ELLE
Total/NA	Analysis	8290A		1			269606	06/27/22 15:41	UA2A	ELLE
	Instrument ID: DF18471									

Client Sample ID: SB88-SO-01
Lab Sample ID: 680-216698-11

Date Collected: 06/09/22 07:50
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290A			1.08 g	10 mL	270746	06/29/22 13:24	RGA5	ELLE
Total/NA	Analysis	8290A		1			271802	07/01/22 23:48	UA2A	ELLE
	Instrument ID: DF18471									
Total/NA	Dilution	Dilution			1000 uL	20 uL	273184	07/07/22 12:57	UMA9	ELLE

Lab Chronicle

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-2
Project/Site: Georgia Atlantic Port, Georgia - Dioxins

Client Sample ID: SB88-SO-01
Lab Sample ID: 680-216698-11
Date Collected: 06/09/22 07:50
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290A	DL		1.08 g	10 mL	270746	06/29/22 13:24	RGA5	ELLE
Total/NA	Analysis	8290A	DL	40			272351	07/06/22 00:13	UA2A	ELLE
	Instrument ID: DF18471									
Total/NA	Dilution	Dilution	DL		1000 uL	20 uL	273184	07/07/22 12:57	UMA9	ELLE

Client Sample ID: DUP-01
Lab Sample ID: 680-216698-12
Date Collected: 06/09/22 08:25
Matrix: Solid
Date Received: 06/09/22 14:53
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Soxtherm	DL		1.01 g	20 uL	269112	06/24/22 13:22	J5XT	ELLE
Total/NA	Analysis	8290A	DL	20			269999	06/28/22 02:38	UA2A	ELLE
	Instrument ID: DF17280B									
Total/NA	Prep	HRMS-Soxtherm			1.01 g	20 uL	269112	06/24/22 13:22	J5XT	ELLE
Total/NA	Analysis	8290A		1			269606	06/27/22 17:18	UA2A	ELLE
	Instrument ID: DF18471									

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone. 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Matt Dostal	Lab PM: Hoffman, Sheila B	Carrier Tracking No(s):	COC No: 680-136533-49819 1
Client Contact: Matthew Dostal	Phone: 314-712-6288	E-Mail: Sheila Hoffman@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 2
Company: EnviroAnalytics Group LLC	PWSID:			Job #:

Address: 1515 Des Peres Rd Suite 300	Due Date Requested:
City: Saint Louis	TAT Requested (days): STND
State, Zip: MO 63131	Compliance Project: Δ Yes Δ No
Phone: 314-835-2824(Tel)	PO #: Purchase Order Requested
Email: mdostal@enviroanalyticsgroup com	WO #:
Project Name: Georgia Atlantic Port	Project #: 68027485
Site: GAP	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, 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, Y Trizma

680-216698 Chain of Custody

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)	7196A, 8290A	Moisture - Percent Moisture	8260D - Volatiles	7471B - Mercury	6020B, 8081B_8082A, 8270E_LL	7196A only								Containers
			Preservation Code:				N	N	N/P	N	N	N								
SB79-50-01	6/9/2022	1210	G	S	N	N		X	X	X	X	X								7
SB79-50-03		1220					X	X	X	X	X									7
SB80-50-01		1130					X	X	X	X	X									7
SB81-50-01		1055						X	X	X	X	X								7
SB82-50-01		1030					X	X	X	X	X									7
SB83-50-01		0935					X	X	X	X	X									7
SB84-50-01		0910					X	X	X	X	X									7
SB85-50-01		0855					X	X	X	X	X									7
SB86-50-01		0825					X	X	X	X	X									7
SB87-50-01		0800						X	X	X	X	X								7
SB88-50-01		0750					X	X	X	X	X									7

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 Ⓘ, Other (specify)

Special Instructions/QC Requirements.

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

Relinquished by:	Date/Time: 6/9/22 1953	Company EAG	Received by:	Date/Time: 6/9 1453	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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: 3.8-3.8 2.9-2.9

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Matt Dostal	Lab PM: Hoffman Sheila B	Carrier Tracking No(s):	COC No. 680-136533-49819.2
Client Contact: Matthew Dostal	Phone: 314-712-0288	E-Mail: Sheila Hoffman@et.eurofinsus com	State of Origin: GA	Page: Page 2 of 2
Company: EnviroAnalytics Group LLC	PWSID:			Job #:
Address: 1515 Des Peres Rd Suite 300	Due Date Requested:			
City: Saint Louis	TAT Requested (days): STND			
State Zip: MO, 63131	Compliance Project: Δ Yes Δ No			
Phone: 314-835-2824(Tel)	PO #: Purchase Order Requested			
Email: mdostal@enviroanalyticsgroup com	WO #:			
Project Name: Georgia Atlantic Port	Project #: 68027485			
Site: GAP	SSOW#:			

Analysis Requested

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)	7196A, 8290A	Moisture - Percent Moisture	8260D - Volatiles	7471B - Mercury	6020B, 8081B_8082A, 8270E_LL	Trip Blank	~~8290A [illegible] 7196A only~~	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N				
DUP-01	6/9/2022	0825	G	S	N	N	X	X	X	X	X			7	
SB83-SO-01 MS	|	0935	|	S	|	Y	X	X	X	X	X			7	
SB83-SO-01 MSD	|	0935	|	S	|	Y	X	X	X	X	X			7	
TB-01	|	0700	|	W	|	N						X		2	
TB-02	|	1000	|	W	|	N						X		2	

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, Y Trizma, Z other (specify)
Other:

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
[signature]	6/9/22 1453	EAG	[signature]	6/9 1453	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks: 3.8 - 3.8 2.9-2.9

Ver 06/08/2021

Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 680-216698-2

Login Number: 216698

List Source: Eurofins Savannah

List Number: 1

Creator: Watters, David

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: EnviroAnalytics Group LLC

Job Number: 680-216698-2

Login Number: 216698
List Number: 2
Creator: Foreman, Leah M

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 06/11/22 02:28 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	

Accreditation/Certification Summary

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-2
Project/Site: Georgia Atlantic Port, Georgia - Dioxins

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87997	06-30-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: EnviroAnalytics Group LLC
Job ID: 680-216698-2
Project/Site: Georgia Atlantic Port, Georgia - Dioxins

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87997	06-30-22 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

APPENDIX C

ProUCL Input and Output Files

Arsenic	D_Arsenic	Benzo_a_anthracene	D_Benzo_a_anthracene	Benzo_a_pyrene	D_Benzo_a_pyrene	Benzo_b_fluoranthene
1.8	1	0.033	0	0.012	0	0.14
2.5	1	0.016	0	0.0067	0	0.074
10	1	4.7	1	7	1	17
2.1	1	0.79	1	1.1	1	3.2
4.3	1	29	1	48	1	100
1.2	1	0.18	1	0.32	1	0.76
2.8	1	1.7	1	3.5	1	10
1.8	1	1.6	1	2.1	1	7.3
1.4	1	0.44	1	0.3	1	2.1
3.2	1	9.8	1	4.9	1	26

D_Benzo_b_fluoranthene	Dibenz(a,h)anthracene	D_Dibenz(a,h)anthracene	Pentachlorophenol	D_Pentachlorophenol
1	0.033	0	0.67	0
1	0.016	0	0.34	0
1	0.83	1	2	1
1	0.017	0	1.8	1
1	5.7	1	22	1
1	0.061	1	0.77	1
1	2.2	1	5.7	1
1	0.64	1	1.8	1
1	0.15	1	0.94	1
1	1.4	1	20	1

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	ProUCL 5.17/7/2022 1:20:10 PM
From File	ProUCL_Input_Surface.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Arsenic

General Statistics

Total Number of Observations	10	Number of Distinct Observations	9
		Number of Missing Observations	0
Minimum	1.2	Mean	3.11
Maximum	10	Median	2.3
SD	2.59	Std. Error of Mean	0.819
Coefficient of Variation	0.833	Skewness	2.485

Normal GOF Test

Shapiro Wilk Test Statistic	0.687	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.842	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.286	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.262	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	4.612	95% Adjusted-CLT UCL (Chen-1995)	5.145
		95% Modified-t UCL (Johnson-1978)	4.719

Gamma GOF Test

A-D Test Statistic	0.607	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.734	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.2	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.269	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	2.606	k star (bias corrected MLE)	1.891
Theta hat (MLE)	1.193	Theta star (bias corrected MLE)	1.645
nu hat (MLE)	52.12	nu star (bias corrected)	37.82
MLE Mean (bias corrected)	3.11	MLE Sd (bias corrected)	2.262
		Approximate Chi Square Value (0.05)	24.74
Adjusted Level of Significance	0.0267	Adjusted Chi Square Value	22.91

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50)	4.755	95% Adjusted Gamma UCL (use when n<50)	5.133

51	**Lognormal GOF Test**											
52					Shapiro Wilk Test Statistic	0.919	**Shapiro Wilk Lognormal GOF Test**					
53					5% Shapiro Wilk Critical Value	0.842	Data appear Lognormal at 5% Significance Level					
54					Lilliefors Test Statistic	0.153	**Lilliefors Lognormal GOF Test**					
55					5% Lilliefors Critical Value	0.262	Data appear Lognormal at 5% Significance Level					
56	**Data appear Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59					Minimum of Logged Data	0.182	Mean of logged Data	0.931				
60					Maximum of Logged Data	2.303	SD of logged Data	0.615				
61												
62	**Assuming Lognormal Distribution**											
63					95% H-UCL	5.007	90% Chebyshev (MVUE) UCL	4.796				
64					95% Chebyshev (MVUE) UCL	5.609	97.5% Chebyshev (MVUE) UCL	6.738				
65					99% Chebyshev (MVUE) UCL	8.956						
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
69												
70	**Nonparametric Distribution Free UCLs**											
71					95% CLT UCL	4.457	95% Jackknife UCL	4.612				
72					95% Standard Bootstrap UCL	4.374	95% Bootstrap-t UCL	7.212				
73					95% Hall's Bootstrap UCL	10.21	95% Percentile Bootstrap UCL	4.57				
74					95% BCA Bootstrap UCL	5.13						
75					90% Chebyshev(Mean, Sd) UCL	5.567	95% Chebyshev(Mean, Sd) UCL	6.681				
76					97.5% Chebyshev(Mean, Sd) UCL	8.226	99% Chebyshev(Mean, Sd) UCL	11.26				
77												
78	**Suggested UCL to Use**											
79					95% Adjusted Gamma UCL	5.133						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	Recommendations are based upon data size, data distribution, and skewness.											
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
85												
86	**Benzo_a_anthracene**											
87												
88	**General Statistics**											
89					Total Number of Observations	10	Number of Distinct Observations	10				
90					Number of Detects	8	Number of Non-Detects	2				
91					Number of Distinct Detects	8	Number of Distinct Non-Detects	2				
92					Minimum Detect	0.18	Minimum Non-Detect	0.016				
93					Maximum Detect	29	Maximum Non-Detect	0.033				
94					Variance Detects	96.41	Percent Non-Detects	20%				
95					Mean Detects	6.026	SD Detects	9.819				
96					Median Detects	1.65	CV Detects	1.629				
97					Skewness Detects	2.312	Kurtosis Detects	5.516				
98					Mean of Logged Detects	0.678	SD of Logged Detects	1.666				
99												
100	**Normal GOF Test on Detects Only**											

101	Shapiro Wilk Test Statistic					0.659	**Shapiro Wilk GOF Test**					
102	5% Shapiro Wilk Critical Value					0.818	Detected Data Not Normal at 5% Significance Level					
103	Lilliefors Test Statistic					0.304	**Lilliefors GOF Test**					
104	5% Lilliefors Critical Value					0.283	Detected Data Not Normal at 5% Significance Level					
105	**Detected Data Not Normal at 5% Significance Level**											
106												
107	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
108	KM Mean					4.824	KM Standard Error of Mean					2.894
109	KM SD					8.56	95% KM (BCA) UCL					10.36
110	95% KM (t) UCL					10.13	95% KM (Percentile Bootstrap) UCL					9.574
111	95% KM (z) UCL					9.584	95% KM Bootstrap t UCL					28.5
112	90% KM Chebyshev UCL					13.51	95% KM Chebyshev UCL					17.44
113	97.5% KM Chebyshev UCL					22.9	99% KM Chebyshev UCL					33.62
114												
115	**Gamma GOF Tests on Detected Observations Only**											
116	A-D Test Statistic					0.368	**Anderson-Darling GOF Test**					
117	5% A-D Critical Value					0.758	Detected data appear Gamma Distributed at 5% Significance Level					
118	K-S Test Statistic					0.246	**Kolmogorov-Smirnov GOF**					
119	5% K-S Critical Value					0.308	Detected data appear Gamma Distributed at 5% Significance Level					
120	**Detected data appear Gamma Distributed at 5% Significance Level**											
121												
122	**Gamma Statistics on Detected Data Only**											
123	k hat (MLE)					0.559	k star (bias corrected MLE)					0.432
124	Theta hat (MLE)					10.79	Theta star (bias corrected MLE)					13.93
125	nu hat (MLE)					8.939	nu star (bias corrected)					6.92
126	Mean (detects)					6.026						
127												
128	**Gamma ROS Statistics using Imputed Non-Detects**											
129	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
130	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)											
131	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
132	This is especially true when the sample size is small.											
133	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
134	Minimum					0.01	Mean					4.823
135	Maximum					29	Median					1.195
136	SD					9.024	CV					1.871
137	k hat (MLE)					0.345	k star (bias corrected MLE)					0.308
138	Theta hat (MLE)					13.97	Theta star (bias corrected MLE)					15.64
139	nu hat (MLE)					6.906	nu star (bias corrected)					6.167
140	Adjusted Level of Significance (β)					0.0267						
141	Approximate Chi Square Value (6.17, α)					1.726	Adjusted Chi Square Value (6.17, β)					1.35
142	95% Gamma Approximate UCL (use when n>=50)					17.23	95% Gamma Adjusted UCL (use when n<50)					22.03
143												
144	**Estimates of Gamma Parameters using KM Estimates**											
145	Mean (KM)					4.824	SD (KM)					8.56
146	Variance (KM)					73.27	SE of Mean (KM)					2.894
147	k hat (KM)					0.318	k star (KM)					0.289
148	nu hat (KM)					6.353	nu star (KM)					5.78
149	theta hat (KM)					15.19	theta star (KM)					16.69
150	80% gamma percentile (KM)					7.328	90% gamma percentile (KM)					14.29

151					95% gamma percentile (KM)	22.33					99% gamma percentile (KM)	43.33
152												
153	**Gamma Kaplan-Meier (KM) Statistics**											
154					Approximate Chi Square Value (5.78, α)	1.529					Adjusted Chi Square Value (5.78, β)	1.182
155					95% Gamma Approximate KM-UCL (use when n>=50)	18.24					95% Gamma Adjusted KM-UCL (use when n<50)	23.59
156												
157	**Lognormal GOF Test on Detected Observations Only**											
158					Shapiro Wilk Test Statistic	0.983					**Shapiro Wilk GOF Test**	
159					5% Shapiro Wilk Critical Value	0.818					Detected Data appear Lognormal at 5% Significance Level	
160					Lilliefors Test Statistic	0.16					**Lilliefors GOF Test**	
161					5% Lilliefors Critical Value	0.283					Detected Data appear Lognormal at 5% Significance Level	
162	**Detected Data appear Lognormal at 5% Significance Level**											
163												
164	**Lognormal ROS Statistics Using Imputed Non-Detects**											
165					Mean in Original Scale	4.827					Mean in Log Scale	-0.143
166					SD in Original Scale	9.021					SD in Log Scale	2.271
167					95% t UCL (assumes normality of ROS data)	10.06					95% Percentile Bootstrap UCL	9.843
168					95% BCA Bootstrap UCL	12.36					95% Bootstrap t UCL	27.99
169					95% H-UCL (Log ROS)	1121						
170												
171	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
172					KM Mean (logged)	-0.284					KM Geo Mean	0.752
173					KM SD (logged)	2.377					95% Critical H Value (KM-Log)	6.317
174					KM Standard Error of Mean (logged)	0.804					95% H-UCL (KM -Log)	1894
175					KM SD (logged)	2.377					95% Critical H Value (KM-Log)	6.317
176					KM Standard Error of Mean (logged)	0.804						
177												
178	**DL/2 Statistics**											
179	**DL/2 Normal**										**DL/2 Log-Transformed**	
180					Mean in Original Scale	4.823					Mean in Log Scale	-0.351
181					SD in Original Scale	9.023					SD in Log Scale	2.626
182					95% t UCL (Assumes normality)	10.05					95% H-Stat UCL	9536
183	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
184												
185	**Nonparametric Distribution Free UCL Statistics**											
186	**Detected Data appear Gamma Distributed at 5% Significance Level**											
187												
188	**Suggested UCL to Use**											
189					95% KM Bootstrap t UCL	28.5					Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1)	23.59
190												
191	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
192	Recommendations are based upon data size, data distribution, and skewness.											
193	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
194	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
195												
196	**Benzo_a_pyrene**											
197												
198	**General Statistics**											
199					Total Number of Observations	10					Number of Distinct Observations	10
200					Number of Detects	8					Number of Non-Detects	2

201					Number of Distinct Detects	8					Number of Distinct Non-Detects	2
202					Minimum Detect	0.3					Minimum Non-Detect	0.0067
203					Maximum Detect	48					Maximum Non-Detect	0.012
204					Variance Detects	261.5					Percent Non-Detects	20%
205					Mean Detects	8.403					SD Detects	16.17
206					Median Detects	2.8					CV Detects	1.924
207					Skewness Detects	2.713					Kurtosis Detects	7.499
208					Mean of Logged Detects	0.894					SD of Logged Detects	1.681
209												
210	**Normal GOF Test on Detects Only**											
211					Shapiro Wilk Test Statistic	0.55	**Shapiro Wilk GOF Test**					
212					5% Shapiro Wilk Critical Value	0.818	Detected Data Not Normal at 5% Significance Level					
213					Lilliefors Test Statistic	0.41	**Lilliefors GOF Test**					
214					5% Lilliefors Critical Value	0.283	Detected Data Not Normal at 5% Significance Level					
215	**Detected Data Not Normal at 5% Significance Level**											
216												
217	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
218					KM Mean	6.723					KM Standard Error of Mean	4.712
219					KM SD	13.94					95% KM (BCA) UCL	15.68
220					95% KM (t) UCL	15.36					95% KM (Percentile Bootstrap) UCL	15.63
221					95% KM (z) UCL	14.47					95% KM Bootstrap t UCL	52.54
222					90% KM Chebyshev UCL	20.86					95% KM Chebyshev UCL	27.26
223					97.5% KM Chebyshev UCL	36.15					99% KM Chebyshev UCL	53.61
224												
225	**Gamma GOF Tests on Detected Observations Only**											
226					A-D Test Statistic	0.526	**Anderson-Darling GOF Test**					
227					5% A-D Critical Value	0.762	Detected data appear Gamma Distributed at 5% Significance Level					
228					K-S Test Statistic	0.239	**Kolmogorov-Smirnov GOF**					
229					5% K-S Critical Value	0.309	Detected data appear Gamma Distributed at 5% Significance Level					
230	**Detected data appear Gamma Distributed at 5% Significance Level**											
231												
232	**Gamma Statistics on Detected Data Only**											
233					k hat (MLE)	0.513					k star (bias corrected MLE)	0.404
234					Theta hat (MLE)	16.39					Theta star (bias corrected MLE)	20.81
235					nu hat (MLE)	8.201					nu star (bias corrected)	6.459
236					Mean (detects)	8.403						
237												
238	**Gamma ROS Statistics using Imputed Non-Detects**											
239	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
240	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)											
241	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
242	This is especially true when the sample size is small.											
243	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
244					Minimum	0.01					Mean	6.724
245					Maximum	48					Median	1.6
246					SD	14.69					CV	2.185
247					k hat (MLE)	0.323					k star (bias corrected MLE)	0.293
248					Theta hat (MLE)	20.84					Theta star (bias corrected MLE)	22.98
249					nu hat (MLE)	6.454					nu star (bias corrected)	5.851
250					Adjusted Level of Significance (β)	0.0267						

251	Approximate Chi Square Value (5.85, α)					1.564	Adjusted Chi Square Value (5.85, β)					1.213
252	95% Gamma Approximate UCL (use when n>=50)					25.15	95% Gamma Adjusted UCL (use when n<50)					32.45
253												
254	**Estimates of Gamma Parameters using KM Estimates**											
255	Mean (KM)					6.723	SD (KM)					13.94
256	Variance (KM)					194.3	SE of Mean (KM)					4.712
257	k hat (KM)					0.233	k star (KM)					0.23
258	nu hat (KM)					4.653	nu star (KM)					4.59
259	theta hat (KM)					28.9	theta star (KM)					29.29
260	80% gamma percentile (KM)					9.449	90% gamma percentile (KM)					20.28
261	95% gamma percentile (KM)					33.37	99% gamma percentile (KM)					68.63
262												
263	**Gamma Kaplan-Meier (KM) Statistics**											
264	Approximate Chi Square Value (4.59, α)					0.968	Adjusted Chi Square Value (4.59, β)					0.716
265	95% Gamma Approximate KM-UCL (use when n>=50)					31.89	95% Gamma Adjusted KM-UCL (use when n<50)					43.13
266												
267	**Lognormal GOF Test on Detected Observations Only**											
268	Shapiro Wilk Test Statistic					0.951	**Shapiro Wilk GOF Test**					
269	5% Shapiro Wilk Critical Value					0.818	Detected Data appear Lognormal at 5% Significance Level					
270	Lilliefors Test Statistic					0.141	**Lilliefors GOF Test**					
271	5% Lilliefors Critical Value					0.283	Detected Data appear Lognormal at 5% Significance Level					
272	**Detected Data appear Lognormal at 5% Significance Level**											
273												
274	**Lognormal ROS Statistics Using Imputed Non-Detects**											
275	Mean in Original Scale					6.73	Mean in Log Scale					0.0773
276	SD in Original Scale					14.69	SD in Log Scale					2.272
277	95% t UCL (assumes normality of ROS data)					15.25	95% Percentile Bootstrap UCL					15.58
278	95% BCA Bootstrap UCL					20.56	95% Bootstrap t UCL					53.57
279	95% H-UCL (Log ROS)					1406						
280												
281	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
282	KM Mean (logged)					-0.286	KM Geo Mean					0.751
283	KM SD (logged)					2.747	95% Critical H Value (KM-Log)					7.233
284	KM Standard Error of Mean (logged)					0.929	95% H-UCL (KM -Log)					24625
285	KM SD (logged)					2.747	95% Critical H Value (KM-Log)					7.233
286	KM Standard Error of Mean (logged)					0.929						
287												
288	**DL/2 Statistics**											
289	**DL/2 Normal**						**DL/2 Log-Transformed**					
290	Mean in Original Scale					6.723	Mean in Log Scale					-0.366
291	SD in Original Scale					14.69	SD in Log Scale					3.046
292	95% t UCL (Assumes normality)					15.24	95% H-Stat UCL					235925
293	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
294												
295	**Nonparametric Distribution Free UCL Statistics**											
296	**Detected Data appear Gamma Distributed at 5% Significance Level**											
297												
298	**Suggested UCL to Use**											
299	95% KM Bootstrap t UCL					52.54	Adjusted KM-UCL (use when k<=1 and 15 < n < 50 but k<=1)					43.13
300												

	A	B	C	D	E	F	G	H	I	J	K	L
301	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
302	Recommendations are based upon data size, data distribution, and skewness.											
303	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
304	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
305												
306												
307	**Benzo_b_fluoranthene**											
308												
309	**General Statistics**											
310						Total Number of Observations	10				Number of Distinct Observations	10	
311											Number of Missing Observations	0	
312						Minimum	0.074				Mean	16.66	
313						Maximum	100				Median	5.25	
314						SD	30.48				Std. Error of Mean	9.637	
315						Coefficient of Variation	1.83				Skewness	2.748	
316													
317	**Normal GOF Test**											
318						Shapiro Wilk Test Statistic	0.594				**Shapiro Wilk GOF Test**		
319						5% Shapiro Wilk Critical Value	0.842				Data Not Normal at 5% Significance Level		
320						Lilliefors Test Statistic	0.296				**Lilliefors GOF Test**		
321						5% Lilliefors Critical Value	0.262				Data Not Normal at 5% Significance Level		
322	**Data Not Normal at 5% Significance Level**											
323												
324	**Assuming Normal Distribution**											
325						**95% Normal UCL**					**95% UCLs (Adjusted for Skewness)**		
326						95% Student's-t UCL	34.32				95% Adjusted-CLT UCL (Chen-1995)	41.46	
327											95% Modified-t UCL (Johnson-1978)	35.72	
328													
329	**Gamma GOF Test**											
330						A-D Test Statistic	0.211				**Anderson-Darling Gamma GOF Test**		
331						5% A-D Critical Value	0.794				Detected data appear Gamma Distributed at 5% Significance Level		
332						K-S Test Statistic	0.11				**Kolmogorov-Smirnov Gamma GOF Test**		
333						5% K-S Critical Value	0.284				Detected data appear Gamma Distributed at 5% Significance Level		
334	**Detected data appear Gamma Distributed at 5% Significance Level**											
335													
336	**Gamma Statistics**											
337						k hat (MLE)	0.408				k star (bias corrected MLE)	0.352	
338						Theta hat (MLE)	40.84				Theta star (bias corrected MLE)	47.29	
339						nu hat (MLE)	8.158				nu star (bias corrected)	7.044	
340						MLE Mean (bias corrected)	16.66				MLE Sd (bias corrected)	28.07	
341											Approximate Chi Square Value (0.05)	2.195	
342						Adjusted Level of Significance	0.0267				Adjusted Chi Square Value	1.755	
343													
344	**Assuming Gamma Distribution**											
345						95% Approximate Gamma UCL (use when n>=50)	53.46				95% Adjusted Gamma UCL (use when n<50)	66.84	
346													
347	**Lognormal GOF Test**											
348						Shapiro Wilk Test Statistic	0.964				**Shapiro Wilk Lognormal GOF Test**		
349						5% Shapiro Wilk Critical Value	0.842				Data appear Lognormal at 5% Significance Level		
350						Lilliefors Test Statistic	0.134				**Lilliefors Lognormal GOF Test**		

351	5% Lilliefors Critical Value					0.262	Data appear Lognormal at 5% Significance Level					
352	**Data appear Lognormal at 5% Significance Level**											
353												
354	**Lognormal Statistics**											
355	Minimum of Logged Data					-2.604	Mean of logged Data					1.205
356	Maximum of Logged Data					4.605	SD of logged Data					2.29
357												
358	**Assuming Lognormal Distribution**											
359	95% H-UCL					4854	90% Chebyshev (MVUE) UCL					78.77
360	95% Chebyshev (MVUE) UCL					103.2	97.5% Chebyshev (MVUE) UCL					137.1
361	99% Chebyshev (MVUE) UCL					203.6						
362												
363	**Nonparametric Distribution Free UCL Statistics**											
364	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
365												
366	**Nonparametric Distribution Free UCLs**											
367	95% CLT UCL					32.51	95% Jackknife UCL					34.32
368	95% Standard Bootstrap UCL					31.79	95% Bootstrap-t UCL					79.54
369	95% Hall's Bootstrap UCL					91.11	95% Percentile Bootstrap UCL					34.15
370	95% BCA Bootstrap UCL					42.22						
371	90% Chebyshev(Mean, Sd) UCL					45.57	95% Chebyshev(Mean, Sd) UCL					58.67
372	97.5% Chebyshev(Mean, Sd) UCL					76.84	99% Chebyshev(Mean, Sd) UCL					112.5
373												
374	**Suggested UCL to Use**											
375	95% Adjusted Gamma UCL					66.84						
376												
377	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
378	Recommendations are based upon data size, data distribution, and skewness.											
379	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
380	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
381												
382	**Dibenz(a,h)anthracene**											
383												
384	**General Statistics**											
385	Total Number of Observations					10	Number of Distinct Observations					10
386	Number of Detects					7	Number of Non-Detects					3
387	Number of Distinct Detects					7	Number of Distinct Non-Detects					3
388	Minimum Detect					0.061	Minimum Non-Detect					0.016
389	Maximum Detect					5.7	Maximum Non-Detect					0.033
390	Variance Detects					3.865	Percent Non-Detects					30%
391	Mean Detects					1.569	SD Detects					1.966
392	Median Detects					0.83	CV Detects					1.253
393	Skewness Detects					1.943	Kurtosis Detects					4.027
394	Mean of Logged Detects					-0.352	SD of Logged Detects					1.557
395												
396	**Normal GOF Test on Detects Only**											
397	Shapiro Wilk Test Statistic					0.776	**Shapiro Wilk GOF Test**					
398	5% Shapiro Wilk Critical Value					0.803	Detected Data Not Normal at 5% Significance Level					
399	Lilliefors Test Statistic					0.248	**Lilliefors GOF Test**					
400	5% Lilliefors Critical Value					0.304	Detected Data appear Normal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
401	**Detected Data appear Approximate Normal at 5% Significance Level**											
402												
403	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
404	KM Mean					1.103	KM Standard Error of Mean					0.574
405	KM SD					1.681	95% KM (BCA) UCL					2.002
406	95% KM (t) UCL					2.155	95% KM (Percentile Bootstrap) UCL					2.038
407	95% KM (z) UCL					2.047	95% KM Bootstrap t UCL					3.79
408	90% KM Chebyshev UCL					2.825	95% KM Chebyshev UCL					3.605
409	97.5% KM Chebyshev UCL					4.688	99% KM Chebyshev UCL					6.815
410												
411	**Gamma GOF Tests on Detected Observations Only**											
412	A-D Test Statistic					0.176	**Anderson-Darling GOF Test**					
413	5% A-D Critical Value					0.736	Detected data appear Gamma Distributed at 5% Significance Level					
414	K-S Test Statistic					0.139	**Kolmogorov-Smirnov GOF**					
415	5% K-S Critical Value					0.323	Detected data appear Gamma Distributed at 5% Significance Level					
416	**Detected data appear Gamma Distributed at 5% Significance Level**											
417												
418	**Gamma Statistics on Detected Data Only**											
419	k hat (MLE)					0.747	k star (bias corrected MLE)					0.522
420	Theta hat (MLE)					2.1	Theta star (bias corrected MLE)					3.005
421	nu hat (MLE)					10.46	nu star (bias corrected)					7.309
422	Mean (detects)					1.569						
423												
424	**Gamma ROS Statistics using Imputed Non-Detects**											
425	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
426	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)											
427	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
428	This is especially true when the sample size is small.											
429	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
430	Minimum					0.01	Mean					1.101
431	Maximum					5.7	Median					0.395
432	SD					1.773	CV					1.61
433	k hat (MLE)					0.384	k star (bias corrected MLE)					0.336
434	Theta hat (MLE)					2.866	Theta star (bias corrected MLE)					3.281
435	nu hat (MLE)					7.684	nu star (bias corrected)					6.712
436	Adjusted Level of Significance (β)					0.0267						
437	Approximate Chi Square Value (6.71, α)					2.014	Adjusted Chi Square Value (6.71, β)					1.598
438	95% Gamma Approximate UCL (use when n>=50)					3.67	95% Gamma Adjusted UCL (use when n<50)					4.624
439												
440	**Estimates of Gamma Parameters using KM Estimates**											
441	Mean (KM)					1.103	SD (KM)					1.681
442	Variance (KM)					2.825	SE of Mean (KM)					0.574
443	k hat (KM)					0.431	k star (KM)					0.368
444	nu hat (KM)					8.611	nu star (KM)					7.361
445	theta hat (KM)					2.562	theta star (KM)					2.997
446	80% gamma percentile (KM)					1.76	90% gamma percentile (KM)					3.16
447	95% gamma percentile (KM)					4.715	99% gamma percentile (KM)					8.662
448												
449	**Gamma Kaplan-Meier (KM) Statistics**											
450	Approximate Chi Square Value (7.36, α)					2.371	Adjusted Chi Square Value (7.36, β)					1.909

451	95% Gamma Approximate KM-UCL (use when n>=50)					3.424	95% Gamma Adjusted KM-UCL (use when n<50)					4.252
452												
453	**Lognormal GOF Test on Detected Observations Only**											
454	Shapiro Wilk Test Statistic					0.967	**Shapiro Wilk GOF Test**					
455	5% Shapiro Wilk Critical Value					0.803	Detected Data appear Lognormal at 5% Significance Level					
456	Lilliefors Test Statistic					0.19	**Lilliefors GOF Test**					
457	5% Lilliefors Critical Value					0.304	Detected Data appear Lognormal at 5% Significance Level					
458	**Detected Data appear Lognormal at 5% Significance Level**											
459												
460	**Lognormal ROS Statistics Using Imputed Non-Detects**											
461	Mean in Original Scale					1.102	Mean in Log Scale					-1.513
462	SD in Original Scale					1.772	SD in Log Scale					2.262
463	95% t UCL (assumes normality of ROS data)					2.13	95% Percentile Bootstrap UCL					2.061
464	95% BCA Bootstrap UCL					2.502	95% Bootstrap t UCL					3.643
465	95% H-UCL (Log ROS)					268.7						
466												
467	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
468	KM Mean (logged)					-1.487	KM Geo Mean					0.226
469	KM SD (logged)					2.112	95% Critical H Value (KM-Log)					5.668
470	KM Standard Error of Mean (logged)					0.721	95% H-UCL (KM -Log)					113.9
471	KM SD (logged)					2.112	95% Critical H Value (KM-Log)					5.668
472	KM Standard Error of Mean (logged)					0.721						
473												
474	**DL/2 Statistics**											
475	**DL/2 Normal**						**DL/2 Log-Transformed**					
476	Mean in Original Scale					1.101	Mean in Log Scale					-1.616
477	SD in Original Scale					1.773	SD in Log Scale					2.408
478	95% t UCL (Assumes normality)					2.129	95% H-Stat UCL					611.1
479	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
480												
481	**Nonparametric Distribution Free UCL Statistics**											
482	**Detected Data appear Approximate Normal Distributed at 5% Significance Level**											
483												
484	**Suggested UCL to Use**											
485	95% KM (t) UCL					2.155						
486												
487	When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test											
488	When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL											
489												
490	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
491	Recommendations are based upon data size, data distribution, and skewness.											
492	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
493	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
494												
495	**Pentachlorophenol**											
496												
497	**General Statistics**											
498	Total Number of Observations					10	Number of Distinct Observations					9
499	Number of Detects					8	Number of Non-Detects					2
500	Number of Distinct Detects					7	Number of Distinct Non-Detects					2

	A	B	C	D	E	F	G	H	I	J	K	L
501					Minimum Detect	0.77					Minimum Non-Detect	0.34
502					Maximum Detect	22					Maximum Non-Detect	0.67
503					Variance Detects	78.6					Percent Non-Detects	20%
504					Mean Detects	6.876					SD Detects	8.866
505					Median Detects	1.9					CV Detects	1.289
506					Skewness Detects	1.34					Kurtosis Detects	-0.0988
507					Mean of Logged Detects	1.172					SD of Logged Detects	1.299
508												
509	**Normal GOF Test on Detects Only**											
510					Shapiro Wilk Test Statistic	0.696	**Shapiro Wilk GOF Test**					
511					5% Shapiro Wilk Critical Value	0.818	Detected Data Not Normal at 5% Significance Level					
512					Lilliefors Test Statistic	0.334	**Lilliefors GOF Test**					
513					5% Lilliefors Critical Value	0.283	Detected Data Not Normal at 5% Significance Level					
514	**Detected Data Not Normal at 5% Significance Level**											
515												
516	**Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs**											
517					KM Mean	5.569					KM Standard Error of Mean	2.659
518					KM SD	7.865					95% KM (BCA) UCL	9.925
519					95% KM (t) UCL	10.44					95% KM (Percentile Bootstrap) UCL	9.777
520					95% KM (z) UCL	9.942					95% KM Bootstrap t UCL	26.55
521					90% KM Chebyshev UCL	13.55					95% KM Chebyshev UCL	17.16
522					97.5% KM Chebyshev UCL	22.17					99% KM Chebyshev UCL	32.02
523												
524	**Gamma GOF Tests on Detected Observations Only**											
525					A-D Test Statistic	0.764	**Anderson-Darling GOF Test**					
526					5% A-D Critical Value	0.744	Detected Data Not Gamma Distributed at 5% Significance Level					
527					K-S Test Statistic	0.319	**Kolmogorov-Smirnov GOF**					
528					5% K-S Critical Value	0.304	Detected Data Not Gamma Distributed at 5% Significance Level					
529	**Detected Data Not Gamma Distributed at 5% Significance Level**											
530												
531	**Gamma Statistics on Detected Data Only**											
532					k hat (MLE)	0.786					k star (bias corrected MLE)	0.575
533					Theta hat (MLE)	8.745					Theta star (bias corrected MLE)	11.96
534					nu hat (MLE)	12.58					nu star (bias corrected)	9.197
535					Mean (detects)	6.876						
536												
537	**Gamma ROS Statistics using Imputed Non-Detects**											
538	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
539	GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)											
540	For such situations, GROS method may yield incorrect values of UCLs and BTVs											
541	This is especially true when the sample size is small.											
542	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
543					Minimum	0.01					Mean	5.503
544					Maximum	22					Median	1.8
545					SD	8.337					CV	1.515
546					k hat (MLE)	0.391					k star (bias corrected MLE)	0.34
547					Theta hat (MLE)	14.07					Theta star (bias corrected MLE)	16.17
548					nu hat (MLE)	7.82					nu star (bias corrected)	6.808
549					Adjusted Level of Significance (β)	0.0267						
550					Approximate Chi Square Value (6.81, α)	2.066					Adjusted Chi Square Value (6.81, β)	1.643

551	95% Gamma Approximate UCL (use when n>=50)					18.14	95% Gamma Adjusted UCL (use when n<50)					22.8
552												
553	**Estimates of Gamma Parameters using KM Estimates**											
554	Mean (KM)					5.569	SD (KM)					7.865
555	Variance (KM)					61.85	SE of Mean (KM)					2.659
556	k hat (KM)					0.501	k star (KM)					0.418
557	nu hat (KM)					10.03	nu star (KM)					8.353
558	theta hat (KM)					11.11	theta star (KM)					13.33
559	80% gamma percentile (KM)					9.03	90% gamma percentile (KM)					15.61
560	95% gamma percentile (KM)					22.79	99% gamma percentile (KM)					40.79
561												
562	**Gamma Kaplan-Meier (KM) Statistics**											
563	Approximate Chi Square Value (8.35, α)					2.941	Adjusted Chi Square Value (8.35, β)					2.412
564	95% Gamma Approximate KM-UCL (use when n>=50)					15.82	95% Gamma Adjusted KM-UCL (use when n<50)					19.29
565												
566	**Lognormal GOF Test on Detected Observations Only**											
567	Shapiro Wilk Test Statistic					0.868	**Shapiro Wilk GOF Test**					
568	5% Shapiro Wilk Critical Value					0.818	Detected Data appear Lognormal at 5% Significance Level					
569	Lilliefors Test Statistic					0.269	**Lilliefors GOF Test**					
570	5% Lilliefors Critical Value					0.283	Detected Data appear Lognormal at 5% Significance Level					
571	**Detected Data appear Lognormal at 5% Significance Level**											
572												
573	**Lognormal ROS Statistics Using Imputed Non-Detects**											
574	Mean in Original Scale					5.53	Mean in Log Scale					0.553
575	SD in Original Scale					8.318	SD in Log Scale					1.736
576	95% t UCL (assumes normality of ROS data)					10.35	95% Percentile Bootstrap UCL					9.739
577	95% BCA Bootstrap UCL					11.27	95% Bootstrap t UCL					26.01
578	95% H-UCL (Log ROS)					123.2						
579												
580	**Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution**											
581	KM Mean (logged)					0.722	KM Geo Mean					2.058
582	KM SD (logged)					1.412	95% Critical H Value (KM-Log)					4.002
583	KM Standard Error of Mean (logged)					0.477	95% H-UCL (KM -Log)					36.63
584	KM SD (logged)					1.412	95% Critical H Value (KM-Log)					4.002
585	KM Standard Error of Mean (logged)					0.477						
586												
587	**DL/2 Statistics**											
588	**DL/2 Normal**						**DL/2 Log-Transformed**					
589	Mean in Original Scale					5.552	Mean in Log Scale					0.651
590	SD in Original Scale					8.303	SD in Log Scale					1.595
591	95% t UCL (Assumes normality)					10.36	95% H-Stat UCL					72.1
592	**DL/2 is not a recommended method, provided for comparisons and historical reasons**											
593												
594	**Nonparametric Distribution Free UCL Statistics**											
595	**Detected Data appear Lognormal Distributed at 5% Significance Level**											
596												
597	**Suggested UCL to Use**											
598	95% KM (Chebyshev) UCL					17.16						
599												
600	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											

	A	B	C	D	E	F	G	H	I	J	K	L
601	Recommendations are based upon data size, data distribution, and skewness.											
602	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
603	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
604												

APPENDIX D

Construction Worker SSL Calculations

Table D-1

Summary of Exposure Parameters

Variable	Construction Worker Soil - Other Default Value	Site-Specific Value	Rationale
$A_{c\text{-}doz}$ (areal extent of dozing) acres	0	2.53	Total road lease area
A_{excav} (area of excavation site) m^2	0	0	No significant excavation planned
$A_{c\text{-}grade}$ (areal extent of grading) acres	0	2.53	Total road lease area
A (PEF Dispersion Constant)	2.4538	2.4538	
A_{surf} (areal extent of site) m^2	2023.43	10238.5558	Lease area converted to sqare meters
A_{till} (areal extent of tilling) acres	0	0	No tilling planned
$B_{l\text{-}doz}$ (dozing blade length) m	0	3	Medium dozer blade
$B_{l\text{-}grade}$ (grading blade length) m	0	3	Medium grader blade
B (PEF Dispersion Constant)	17.566	17.566	
C (PEF Dispersion Constant)	189.0426	189.0426	
F_D Unitless Dispersion Correction Factor	0.185837208	0.190501731	Calculated by RSL Calculator
U_m/U_t derived using Cowherd et al. (1985))	0.194	0.194	
$M_{m\text{-}doz}$ (Gravimetric soil moisture content) %	7.9	7.9	
$M_{m\text{-}excav}$ (Gravimetric soil moisture content) %	12	12	
M_{wind} (dust emitted by wind erosion) g	51288.84717	44547.80254	Calculated by RSL Calculator
$N_{A\text{-}doz}$ (number of times site was dozed)	0	1	
$N_{A\text{-}dump}$ (number of times soil is dumped)	2	2	
$N_{A\text{-}grade}$ (number of times site was graded)	0	1	Minimal grading of subbase required
$N_{A\text{-}till}$ (number of times soil is tilled)	2	2	
Q/C_{sa} (g/m^2-s per kg/m^3)	14.31407	10.61153242	Calculated by RSL Calculator
p_{soil} (density) g/cm^3 - chemical-specific	1.68	1.68	
s_{doz} (soil silt content) %	6.9	6.9	
AF_{con} (skin adherence factor - construction worker) mg/cm^2	0.3	0.3	
AT_{con} (averaging time - construction worker) days	365	365	
$AT_{con\text{-}a}$ (averaging time - construction worker) days	350	42	6 week exposure based construciton schedule
BW_{con} (body weight - construction worker) kg	80	80	
ED_{con} (exposure duration - construction worker) yr	1	1	
EF_{con} (exposure frequency - construction worker) day/yr	250	30	6 week exposure based construciton schedule
ET_{con} (exposure time - construction worker) hr/day	8	8	

THQ (target hazard quotient) unitless	0.1	1	Set to 1 to calculate unit risk concentration
IRS_{con} (soil ingestion rate - construction worker) mg/day	330	330	
LT (lifetime) yr	70	70	
SA_{con} (surface area - construction worker) cm^2/day	3527	3527	
TR (target cancer risk) unitless	0.000001	0.000001	
S_{doz} (dozing speed) kph	11.4	11.4	
S_{grade} (grading speed) kph	11.4	11.4	
s_{till} (soil silt content) %	18	18	
t_c (overall duration of construction) hours	8400	1008	6 week duration based construction schedule
T_c (overall duration of construction) s	30240000	3628800	6 week duration based construction schedule
T (time over which traffic occurs) s	7200000	864000	Calculated by RSL Calculator
T_t (overall duration of traffic) s	7200000	864000	Calculated by RSL Calculator
U_m (mean annual wind speed) m/s	4.69	4.69	
U_t (equivalent threshold value) m/s	11.32	11.32	
V (fraction of vegetative cover)	0	0	

Site-specific
Construction Worker Inputs

Variable	Construction Worker Soil - Other Default Value	Site-Specific Value
$A_{c\text{-}doz}$ (areal extent of dozing) acres	.	2.53
A_{excav} (area of excavation site) m^2	.	0
$A_{c\text{-}grade}$ (areal extent of grading) acres	.	2.53
A (PEF Dispersion Constant)	2.4538	2.4538
A_{surf} (areal extent of site) m^2	2023.43	10238.5558
A_{till} (areal extent of tilling) acres	.	0
$B_{l\text{-}doz}$ (dozing blade length) m	.	3
$B_{l\text{-}grade}$ (grading blade length) m	.	3
B (PEF Dispersion Constant)	17.5660	17.5660
C (PEF Dispersion Constant)	189.0426	189.0426
F_D Unitless Dispersion Correction Factor	0.185837208	0.1905017307964
F(x) (function dependant on U_m/U_t derived using Cowherd et al. (1985))	0.194	0.194
$M_{m\text{-}doz}$ (Gravimetric soil moisture content) %	7.9	7.9
$M_{m\text{-}excav}$ (Gravimetric soil moisture content) %	12	12
M_{wind} (dust emitted by wind erosion) g	51288.84717	44547.802542003
$N_{A\text{-}doz}$ (number of times site was dozed)	.	1
$N_{A\text{-}dump}$ (number of times soil is dumped)	2	2
$N_{A\text{-}grade}$ (number of times site was graded)	.	1
$N_{A\text{-}till}$ (number of times soil is tilled)	2	2
Q/C_{sa} (g/m^2-s per kg/m^3)	14.31407	10.611532416471
p_{soil} (density) g/cm^3 - chemical-specific	1.68	1.68
s_{doz} (soil silt content) %	6.9	6.9
AF_{con} (skin adherence factor - construction worker) mg/cm^2	0.3	0.3
AT_{con} (averaging time - construction worker) days	365	365
$AT_{con\text{-}a}$ (averaging time - construction worker) days	350	42
BW_{con} (body weight - construction worker) kg	80	80
ED_{con} (exposure duration - construction worker) yr	1	1
EF_{con} (exposure frequency - construction worker) day/yr	250	30
ET_{con} (exposure time - construction worker) hr/day	8	8
THQ (target hazard quotient) unitless	0.1	1

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Site-specific
Construction Worker Inputs

Variable	Construction Worker Soil - Other Default Value	Site-Specific Value
IRS_{con} (soil ingestion rate - construction worker) mg/day	330	330
LT (lifetime) yr	70	70
SA_{con} (surface area - construction worker) cm^2/day	3527	3527
TR (target cancer risk) unitless	1.0E-06	1.0E-06
S_{doz} (dozing speed) kph	11.4	11.4
S_{grade} (grading speed) kph	11.4	11.4
s_{till} (soil silt content) %	18	18
t_c (overall duration of construction) hours	8400	1008
T_c (overall duration of construction) s	30240000	3628800
T (time over which traffic occurs) s	7200000	864000
T_t (overall duration of traffic) s	7200000	864000
U_m (mean annual wind speed) m/s	4.69	4.69
U_t (equivalent threshold value) m/s	11.32	11.32
V (fraction of vegetative cover)	0	0

Site-specific

Construction Worker Regional Screening Levels (RSL) for Soil - Other Construction Activities

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Chemical	CAS Number	Mutagen?	Volatile?	Chemical Type	SF_o $(mg/kg\text{-}day)^{-1}$	SF_o Ref	IUR $(ug/m^3)^{-1}$	IUR Ref	RfD (mg/kg-day)	RfD Ref
Arsenic, Inorganic	7440-38-2	No	No	Inorganics	1.50E+00	I	4.30E-03	I	3.00E-04	I /Chronic
Benz[a]anthracene	56-55-3	Yes	Yes	Organics	1.00E-01	E	6.00E-05	E	-	
Benzo[a]pyrene	50-32-8	Yes	No	Organics	1.00E+00	I	6.00E-04	I	3.00E-04	I /Chronic
Benzo[b]fluoranthene	205-99-2	Yes	No	Organics	1.00E-01	E	6.00E-05	E	-	
Dibenz[a,h]anthracene	53-70-3	Yes	No	Organics	1.00E+00	E	6.00E-04	E	-	
Pentachlorophenol	87-86-5	No	No	Organics	4.00E-01	I	5.10E-06	C	3.00E-02	H /Subchronic
TCDD, 2,3,7,8-	1746-01-6	No	Yes	Organics	1.30E+05	C	3.80E+01	C	2.00E-08	A /Subchronic

Site-specific

Construction Worker Regional Screening Levels (RSL) for Soil - Other Construction Activities

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

RfC (mg/m^3)	RfC Ref	GIABS	ABS	RBA	Soil Saturation Concentration (mg/kg)	S (mg/L)	K_{oc} \ (cm^3/g)	K_d \ (cm^3/g)	HLC ($atm\text{-}m^3/mole$)	Henry's Law Constant Used in Calcs (unitless)	H` and HLC Ref	Normal Boiling Point BP (K)
1.50E-05	C /Chronic	1	0.03	0.6	-	-	-	2.90E+01	-	-		888.15
-		1	0.13	1	-	9.40E-03	1.77E+05	1.06E+03	1.20E-05	4.91E-04	PHYSPROP	710.75
2.00E-06	I /Chronic	1	0.13	1	-	1.62E-03	5.87E+05	-	4.57E-07	1.87E-05	PHYSPROP	768.15
-		1	0.13	1	-	1.50E-03	5.99E+05	-	6.57E-07	2.69E-05	PHYSPROP	715.9
-		1	0.13	1	-	2.49E-03	1.91E+06	-	1.41E-07	5.76E-06	EPI	797.15
-		1	0.25	1	-	1.40E+01	5.92E+02	-	2.45E-08	1.00E-06	PHYSPROP	582.65
4.00E-08	C /Chronic	1	0.03	1	-	2.00E-04	2.49E+05	1.49E+03	5.00E-05	2.04E-03	EPI	652.32

Site-specific

Construction Worker Regional Screening Levels (RSL) for Soil - Other Construction Activities

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

BP Ref	Critical Temperature T_C (K)	T_C Ref	Chemical Type	D_{ia} (cm^2/s)	D_{iw} (cm^2/s)	D_A (cm^2/s)	Particulate Emission Factor (m^3/kg)	Volatilization Factor Unlimited Reservoir (m^3/kg)	Volatilization Factor Mass Limit (m^3/kg)
PHYSPROP	1673	CRC	INORGANIC	-	-	-	1.07E+07	-	-
PHYSPROP	979	YAWS	PAH	2.61E-02	6.75E-06	6.83E-10	1.07E+07	-	-
PHYSPROP	969.27	EPA 2001 Fact Sheet	PAH	2.55E-02	6.58E-06	-	1.07E+07	-	-
EPI	969.27	EPA 2001 Fact Sheet	PAH	2.50E-02	6.43E-06	-	1.07E+07	-	-
PHYSPROP	990.41	EPA 2001 Fact Sheet	PAH	2.36E-02	6.02E-06	-	1.07E+07	-	-
EPI	-		HERB	2.95E-02	8.01E-06	-	1.07E+07	-	-
EPI	978.48	Approx. from Tcrit=1.5xTBoil	DIOXIN	4.70E-02	6.76E-06	3.46E-09	1.07E+07	-	-

Site-specific

Construction Worker Regional Screening Levels (RSL) for Soil - Other Construction Activities

Key: I = IRIS; P = PPRTV; O = OPP; A = ATSDR; C = Cal EPA; X = PPRTV Screening Level; H = HEAST; D = OW; W = TEF applied; E = RPF applied; G = see user's guide; U = user provided; ca = cancer; nc = noncancer; * = where: nc SL < 100X ca SL; ** = where nc SL < 10X ca SL; SSL values are based on DAF=1; max = ceiling limit exceeded; sat = Csat exceeded.

Volatilization Factor Selected (m^3/kg)	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)	Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL THQ=1 (mg/kg)	Dermal SL THQ=1 (mg/kg)	Inhalation SL THQ=1 (mg/kg)	Noncarcinogenic SL THI=1 (mg/kg)	Screening Level (mg/kg)
-	2.29E+02	1.43E+03	6.35E+03	1.92E+02	1.70E+02	1.06E+03	6.73E+02	1.20E+02	1.20E+02 nc
2.40E+05	2.06E+03	4.95E+03	9.99E+03	1.27E+03	-	-	-	-	1.27E+03 ca
-	2.06E+02	4.95E+02	4.55E+04	1.45E+02	1.02E+02	2.44E+02	8.97E+01	3.99E+01	3.99E+01 nc
-	2.06E+03	4.95E+03	4.55E+05	1.45E+03	-	-	-	-	1.45E+03 ca
-	2.06E+02	4.95E+02	4.55E+04	1.45E+02	-	-	-	-	1.45E+02 ca
-	5.16E+02	6.44E+02	5.35E+06	2.86E+02	1.02E+04	1.27E+04	-	5.65E+03	2.86E+02 ca*
1.07E+05	1.59E-03	1.65E-02	7.10E-03	1.20E-03	6.79E-03	7.06E-02	1.77E-02	4.59E-03	1.20E-03 ca**