
PHASE II INVESTIGATION REPORT

**Lincoln Avenue Site
950 5th Street
Watervliet, NY**

October 2019

Prepared for:
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Envirospec Engineering Project E19-2219

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1.0 INTRODUCTION

This Phase II Report has been prepared by Envirospec Engineering, PLLC (Envirospec) at the request of Couch White for the Lincoln Avenue Property at 950 5th Street in Watervliet, NY. The purpose of this document is to outline the investigation activities that were completed at the Site.

A Phase II site investigation was completed during the week of July 29, 2019 to collect soil, groundwater, surface water, and sediment samples on the northern 71 acres of the property. This Phase II Report (Report) summarizes the work completed during these investigation activities and presents the results.

2.0 SITE HISTORY AND BACKGROUND INFORMATION

2.1 Site Topography and Drainage

The site is relatively flat with elevations of approximately 43 to 44 ft AMSL according to the United States Geological Survey (USGS) topoView (USGS 2019) and the EDR historical topographic maps (Appendix A). Two stormwater retention ponds exist on site. According to the State Pollutant Discharge Elimination System (SPDES) permit NY0088188 (expired 2013), the southern stormwater retention pond drains via an outfall to the Kroma Kill.

2.2 Surrounding Area

The property is bordered by a railyard to the west and a metal scrap yard to the east. The Watervliet Arsenal is located northeast of the property. The Kroma Kill is located on the southern side of the property. The neighboring property to the east of the site where the metal scrap yard is located is listed as an active site on the NYS Environmental Site Remediation Database (E401050). The site was the proposed location for the Schuyler Heights Fire District Station House, and the Certificate of Completion (COC) for remedial activities was granted on December 7, 2018. Additional information on this property can be found in the Record of Decision (ROD) issued by the New York State Department of Conservation (NYSDEC) in 2008 (NYSDEC 2008).

2.3 Site Geology and Hydrogeology

Based on the Phase II activities, soil types across the site ranged from rocks and gravel to clay, with fill and sand also encountered in some areas. Distinct clay layers were primarily encountered in the central area of the site from 6' to 30' bgs based on soil borings SB-05 and



SB-06. Clay was also encountered from approximately 7' to 15' in TP-21 and 11' to 15' in TP-17. These test pits did not extend deeper than 15' due to limits of the excavator.

The depth to water at the site was highly variable and ranged from 2' below ground surface (bgs) to 17' bgs where the water table was encountered. In some instances, no water was encountered at depths up to 30' bgs. According to information on the neighboring property to the east, groundwater flow in the area is southwest toward industrial buildings and the Albany Rural Cemetery and the depth to water ranges from 7.5 to 13.5 ft (NYSDEC 2008). Shallow bedrock was observed near former Building 1 and Building 5 and just north of this area, with bedrock encountered as shallow as 2'. This is consistent with the shallow outcropping observed at the neighboring property (NYSDEC 2008).

2.4 Historical Operations

The Lincoln Avenue property was formerly owned by Delaware and Hudson (D&H) Railway Company. According to investigations completed on the neighboring property and described in the 2008 ROD (NYSDEC 2008), there was historical evidence of SVOCs, VOCs, metals, PCBs, and pesticides due to the usage of the property by D&H as a rail yard and the presence of historical fill in the area.

2.5 Background Information

A Phase II investigation was completed for a 14 acre portion of the Lincoln Avenue property in March 2018, with supplemental samples collected in May 2018. The property consists of an approximately 85 acre parcel as shown on the topographic maps in Appendix A. The 2018 Phase II Investigation focused on a specific section of the 85 acre parcel, which consisted of the southern end of the site and extended approximately 1000 feet from the entrance on 1st Street.

The original Phase II and the Phase II on the remainder of the property were completed as a result of a Phase I. In addition to the former use of the property as a rail yard, the Phase I indicated historical spills of diesel, lube oil, waste oil, and fuel oil associated with former rail activities. The Phase I also identified several tanks that were historically located on the property. The NYSDEC's Spills Incidents Database lists several closed spills for the site address. PBS records indicate that there were aboveground tanks storing fuel oil, waste oil, and lube oil as well as underground gasoline storage tanks. These tanks have reportedly been closed. Based on a review of aerial images from 1952 to 2011, the rail yard activities appear to be focused on the northern area of the property where buildings were located.

Investigation activities were completed in summer 2019 for the remaining approximately 71



acres of the property. The 2018 Phase II investigation activities focused on the non-active industrial portion of the site. Field activities included test pits, soil borings, groundwater, surface water, and sediment sampling. There was no evidence of an onsite source of contamination in the portion of the site investigated in 2018. The 2018 Phase II results were summarized in a report dated July 2018. The results of the 2019 Phase II are summarized below.



3.0 PHASE II SCOPE OF WORK

The Phase II site investigation was completed during the week of July 29, 2019 to collect soil, groundwater, surface water, and sediment samples on the northern 71 acres of the property. The following samples were collected:

- Thirteen (13) soil samples from test pits,
- Eight (8) soil samples from soil borings,
- Two (2) sediment samples from the northern stormwater retention pond area,
- One (1) surface water sample from the northern stormwater retention pond, and
- Four (4) groundwater samples.

Samples were analyzed for varying parameters including VOCs, SVOCs, PCBs, metals and pesticides in order to gain an overall understanding of potential contamination at the site. Samples were analyzed per the following methods:

- PCBs by EPA Method 8082
- Pesticides by EPA Method 8081
- SVOCs by EPA Method 8270
- VOCs by EPA Method 8260
- Cyanide by EPA Method 9014
- Metals by EPA Method 6010, including mercury by 7471 (solid)/ 7470 (aqueous)

Site observation reports are provided in Appendix B. The locations of samples and exceedances are shown in Appendix C. Appendix D includes the full table of results. All analyses were completed by Pace Analytical in Pittsburgh, PA. Laboratory data reports are included in Appendix E.

3.1 Test Pit Investigation

Thirteen (13) test pits were excavated on July 30, 2019. The depth of the bottom of the excavations ranged from 2 to 16 ft bgs, depending on the limits of the excavator and/or refusal. Test pit logs are attached in Appendix F, which include photos of each test pit. Appendix C shows the test pit locations. Sheens were observed on the surface of the water in TP-12, TP-13, and TP-15 just north of former Building 1.

Some test pits, including TP-12, TP-13, TP-18, TP-20, and TP-22 were primarily rocky with some fill and/or sand. The shallowest test pits, where bedrock outcroppings were encountered, were near former Building 1 and Building 5 at test pits TP-15 and TP-22 and just north of that



area at TP-23. Test pit TP-19, near the former Building 29 foundation, was primarily garbage, rocks, and boulders.

3.1.1 Test Pit Soil Sampling Protocol

Table 1 provides the list of samples collected from each test pit, including the depth and analyses completed. Grab samples were collected from the desired sampling interval using Terracore sampling kits for VOCs. Composite samples were collected for the remaining analyses from the desired depth. Visual and olfactory observations were noted. Samples were composited in Ziploc bags to ensure proper mixing. New gloves were used for each sample interval to prevent cross-contamination. Samples were kept cool (<4°C) in an ice-packed cooler for transportation to the lab. A complete chain-of-custody form accompanied each sample shipment.

Table 1. Test Pit Samples and Analyses.

Sample	Media	Depth of sample location (ft bgs)	Analyses Completed
TP-12	Soil	7	PCBs, pesticides, SVOCs, VOCs, cyanide, metals
TP-13	Soil	2	PCBs, SVOCs, VOCs, cyanide, metals
TP-14	Soil	4-6	PCBs, pesticides, SVOCs, VOCs, cyanide, metals
TP-15	Soil	2	PCBs, SVOCs, VOCs, cyanide, metals
TP-16	Soil	10	PCBs, SVOCs, VOCs, cyanide, metals
TP-17	Soil	15	PCBs, SVOCs, VOCs, cyanide, metals
TP-18	Soil	2	PCBs, pesticides, SVOCs, VOCs, cyanide, metals
TP-19	Soil	2	PCBs, SVOCs, VOCs, cyanide, metals
TP-20	Soil	16	PCBs, pesticides, SVOCs, VOCs, cyanide, metals
TP-21	Soil	4-6	PCBs, SVOCs, VOCs, cyanide, metals
TP-22	Soil	2	PCBs, SVOCs, VOCs, cyanide, metals
TP-23	Soil	3	PCBs, SVOCs, VOCs, cyanide, metals



Sample	Media	Depth of sample location (ft bgs)	Analyses Completed
TP-24	Soil	4-6	PCBs, SVOCs, VOCs, cyanide, metals

3.2 Soil Boring Investigation

Eight (8) soil borings were completed on August 1, 2019. The depths of the soil borings ranged from three (3) to thirty (30) ft bgs. Soil borings were advanced to refusal or to a maximum depth of 30'. Soil boring logs and a photo log of the soil borings are provided in Appendices G and H, respectively. At locations where refusal was encountered, the depths ranged from 3' at SB-04 to 24.5' at SB-08. Most soil borings were primarily sand, gravel, and fill. Primarily clay was observed from a depth of 6' to 30' in the two soil borings that were advanced to 30' with no refusal (SB-05 and SB-06). The water table was not encountered at either location.

3.2.1 Soil Boring Sampling Protocol

Table 2 summarizes the samples collected from the soil borings, including the depth and analyses completed. Soil borings were completed with 5 foot macro core samplers via Geoprobe®. The soil type for each interval was characterized and screened for the presence of VOCs using a photoionization detector (PID). A grab sample was collected from each interval and placed in a Ziploc bag for a headspace reading. Visual and olfactory observations were noted. Grab samples were collected for VOCs from the desired sampling interval using a Terracore sampler. The remainder of the sampling interval was composited for the additional analyses. New gloves were used for each sample interval to prevent cross-contamination. Samples were kept cool (<4°C) in an ice-packed cooler for transportation to the lab. A complete chain-of-custody form accompanied each sample shipment.

Table 2. Soil Boring Samples and Analyses.

Sample	Media	Depth of sample location (ft bgs)	Analyses Completed
SB-01	Soil	1-3	PCBs, pesticides, SVOCs, VOCs, cyanide, metals
SB-02	Soil	10-12	PCBs, SVOCs, VOCs, cyanide, metals
SB-03	Soil	2-5	PCBs, pesticides, SVOCs, VOCs, cyanide, metals
SB-04	Soil	1-3	PCBs, VOCs, SVOCs, cyanide, metals



Sample	Media	Depth of sample location (ft bgs)	Analyses Completed
SB-05	Soil	6-8	PCBs, pesticides, SVOCs, VOCs, cyanide, metals
SB-06	Soil	27-28	PCBs, pesticides, SVOCs, VOCs, cyanide, metals
SB-07	Soil	1-3	PCBs, SVOCs, VOCs, cyanide, metals
SB-08	Soil	4-5	PCBs, SVOCs, VOCs, cyanide, metals

3.3 Groundwater Investigation

Table 3 summarizes the depth to water encountered across the site during the test pit and soil boring investigations. The depth to water encountered at the site was highly variable and ranged from 2' at TP-15 to 17' in areas where the water table was encountered. At some locations where soil borings were completed, no water was encountered when the boring was advanced to 30' bgs.

Table 3. Depth to Water Table.

Sample	Depth to water (ft bgs)
TP-12	7
TP-13	7.5
TP-14	8
TP-15	2
TP-16	10
TP-17	Not encountered (>15')
TP-18	4.5
TP-19	Not encountered (>14')
TP-20	Not encountered (>16')
TP-21	Not encountered (>15')
TP-22	3.5
TP-23	2.8
TP-24	9
SB-01	Not encountered (>7')
SB-02	10
SB-03	Not encountered (>5')
SB-04	Not encountered (>3')
SB-05	Not encountered (>30')
SB-06	Not encountered (>30')
SB-07	Not encountered (>9')
SB-08	17



3.3.1 Groundwater Sampling Protocol

Table 4 summarizes the groundwater samples that were collected during the 2019 investigation. Three samples were collected from test pits (samples GW-01, GW-03, and GW-09), and one sample (GW-07) was collected from a temporary well installed at the SB-08 location. Samples from both the test pits and the temporary well were collected using a peristaltic pump. Samples were kept cool (<4°C) in an ice-packed cooler for transportation to the lab. A complete chain-of-custody form accompanied each sample shipment.

Table 4. Groundwater Samples and Analyses.

Sample	Media	Depth of sample location (ft bgs)	Analyses Completed
GW-01	Groundwater from TP-12	7' (top of water table)	PCBs, pesticides, SVOCs, VOCs, cyanide, total and dissolved metals
GW-03	Groundwater from TP-22	3.5' (top of water table)	PCBs, pesticides, SVOCs, VOCs, cyanide, total and dissolved metals
GW-07	Groundwater from SB-08	17-24.5' (location of temporary screen)	PCBs, pesticides, SVOCs, VOCs, cyanide, total and dissolved metals
GW-09	Groundwater from TP-15	2' (top of water table)	SVOCs, VOCs

3.4 Surface Water and Sediment Sampling

Table 5 summarizes the surface water and sediment samples that were collected during the investigation.

Two sediment samples were collected. One sample (SE-02) was collected from the southern end of the northern stormwater retention pond. The second sample (SE-03) was collected from the inlet to the northern end of the stormwater retention pond. Surface water was collected from the northern stormwater retention pond.

The stormwater sample was collected using a peristaltic pump. Samples were kept cool (<4°C) in an ice-packed cooler for transportation to the lab. A complete chain-of-custody form accompanied each sample shipment.



Table 5. Surface Water and Sediment Samples and Analyses.

Sample	Media	Depth of sample location (ft bgs)	Analyses Completed
SE-02	Sediment	0-6"	PCBs, pesticides, SVOCs, VOCs, cyanide, metals
SE-03	Sediment	0-6"	PCBs, SVOCs, VOCs, metals, cyanide
SW-02	Surface Water		PCBs, pesticides, SVOCs, VOCs, cyanide, total and dissolved metals



4.0 SUMMARY OF INVESTIGATION RESULTS

The following sections discuss the comparison of the results to NYSDEC soil cleanup objectives (SCOs), Part 703 Groundwater Standards, Sediment Guideline Values, and Part 703 Surface Water Standards. The full table of results is provided in Appendix D. The full lab results are provided in Appendix E.

4.1 Test Pit and Soil Boring Soil Sampling Results

In general, there were exceedances of NYSDEC cleanup objectives of metals, SVOCs and PCBs in varying locations across the site. Restricted Residential Soil Cleanup Objectives (RRSCOs) were exceeded at several locations across the site, as shown in Table 10 in Appendix D. Exceedances of the Industrial Soil Cleanup Objective (ISCO) for arsenic in soil were observed at several locations as well as exceedances of the Commercial Soil Cleanup Objective (CSCO) for copper and mercury. Sheens were observed at the water table in TP-12 and TP-13, and evidence of free product (oil) was observed in TP-15.

Table 6 summarizes the exceedances for the test pit and soil borings samples for CSCOs and ISCOs only. A total of 21 soil samples were collected from the site, and not all samples were analyzed for all parameters. It is anticipated, based on the presence of fill, that if a full sampling analysis was completed at each location and additional samples were collected, metals and SVOCs would be exceeded fairly consistently across the site.

Table 6. Soil Sample Exceedances.

Analyte (ppm)	CSCO	ISCO	TP-12	TP-13	TP-15	TP-16	TP-19
Metals							
Arsenic	16	16	37.1	59.5	-	18.6	-
Copper	270	10,000	-	-	601	-	-
Mercury	2.8	5.7	-	-	-	3.2	-
PCBs							
PCB-1242	1	25	-	-	-	-	9.52
SVOCs							
Benzo(a)pyrene	1	1.1	-	-	-	1.31	-



Analyte (ppm)	CSCO	ISCO	TP-23	SB-01	SB-04	SB-07
Metals						
Arsenic	16	16	32.3	47.1	-	-
SVOCs						
Benzo(a)anthracene	5.6	11	-	-	-	10.3
Benzo(a)pyrene	1	1.1	-	-	2.76	7.69
Benzo(b)fluoranthene	5.6	11	-	-	-	9.79

The fill list of parameters and results are included in the table in Appendix D.

4.2 Groundwater Investigation Results

The Part 703 Groundwater A standard was exceeded for 2,4-dimethylphenol at GW-07. The analytical results are provided in Table 11 in Appendix D. Both the Part 703 Groundwater A standard and the TOGS 1.1.1 value for 1,2,4-trimethylbenzene were exceeded at GW-09. Some exceedances of Part 703 Groundwater A standards and TOGS 1.1.1 values for iron, manganese, and sodium were also observed. An oil sheen was also observed on top of the water table at TP-15 where GW-09 was collected. Samples were not analyzed for gasoline-range organics (GRO), diesel-range organics (DRO), or total petroleum hydrocarbons (TPH). It is expected they would be elevated in this area given the visual observation of oil.

Some evidence of oil was also observed in the SB-03 soil boring that was collected beneath the former Building 1 foundation on the eastern side of the property, but there was not sufficient oil present for a sample to be collected and no groundwater was encountered at this location. Table 7 summarizes the groundwater exceedances for the site. Groundwater sampling was limited, and only one temporary well was installed.

Table 7. Groundwater Sample Exceedances.

Analyte (ppb)	Part 703 Groundwater A Standard	GW-07	GW-09
2,4-Dimethylphenol	1	1.3	-
1,2,4-Trimethylbenzene	5	-	30.2

4.3 Surface Water and Sediment Investigation Results

The Class C Sediment Guideline Values for copper and lead were exceeded at SE-02, which was collected from the southern side of the northern stormwater retention pond. An exceedance of the



surface water standard for cyanide was observed at this same location. Tables 8 and 9 summarize the exceedances in sediment and surface water, respectively. Full results for surface water and sediment are provided in Appendix D in Tables 12 and 13, respectively.

Table 8. Sediment Sample Exceedances.

Analyte (ppm)	Class C Sediment Guideline Value	SE-02
Copper	150	213
Lead	130	547

Table 9. Surface Water Exceedances.

Analyte (ppb)	Part 703 Surface Water, Class C, Aquatic Chronic Standard	SW-02
Cyanide	5.2	18



5.0 PHASE II INVESTIGATION SUMMARY

Heavy metals exceedances in soil, specifically for arsenic, mercury, and copper, were observed across the northern portion of the site at varying depths, with arsenic exceedances of the ISCO observed. Localized areas of SVOC and PCB exceedances in soil were also observed. Though only a couple minor exceedances of groundwater standards were observed, there was some evidence of oil on the surface of the water encountered in the TP-15 area of the site and beneath the former Building 1 foundation where some historical spills were noted in the Phase I completed for the site. Results were consistent with the presence of fill and the historical use of the site. Additional investigation is warranted on the northern portion of the property based on the results in the Phase II.



6.0 LIMITATIONS

This site investigation was to determine if a gross source of contamination was present on the Site. Access to some areas of the property was limited due to presence of dense vegetation. This study was limited to the scope of work performed and the limitation of the methodologies employed to investigate the Site. This study was restricted to soil, sediment, and groundwater testing, completion of test pits and visual observation made at each test pit and soil boring location. This report is only for reliance by Couch White, LLP and cannot be used by others without written consent of Envirospec Engineering, PLLC.



7.0 REFERENCES

NYSDEC. 2008. Environmental Restoration Record of Decision – Proposed Schuyler Heights Fire District Station House Site, Town of Colonie, Albany County, New York, Site Number E401050.

USGS. topoView website. <https://ngmdb.usgs.gov/topoview/viewer/#4/40.01/-100.06>. Accessed August 2019.




Appendix A

EDR Topographic Maps



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Client Name:

Envirospec
349 Northern Blvd Suite 3
Albany, NY 12204-0000
Contact: Andrew Pieroni



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Envirospec were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	950 5th Street	Latitude:	42.713676 42° 42' 49" North
Project:	950 5th Street	Longitude:	-73.716481 -73° 42' 59" West
		UTM Zone:	Zone 18 North
		UTM X Meters:	605102.69
		UTM Y Meters:	4729818.43
		Elevation:	43.00' above sea level

Maps Provided:

2013	1893
1980	
1953	
1950	
1928	
1925	
1898	
1895	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013 Source Sheets



Troy South
2013
7.5-minute, 24000

1980 Source Sheets



Troy South
1980
7.5-minute, 24000
Aerial Photo Revised 1978

1953 Source Sheets



Troy South
1953
7.5-minute, 24000
Aerial Photo Revised 1952

1950 Source Sheets



Troy
1950
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1928 Source Sheets



Troy
1928
15-minute, 62500

1925 Source Sheets



Troy
1925
15-minute, 48000

1898 Source Sheets



Troy
1898
15-minute, 62500

1895 Source Sheets



Troy
1895
15-minute, 62500

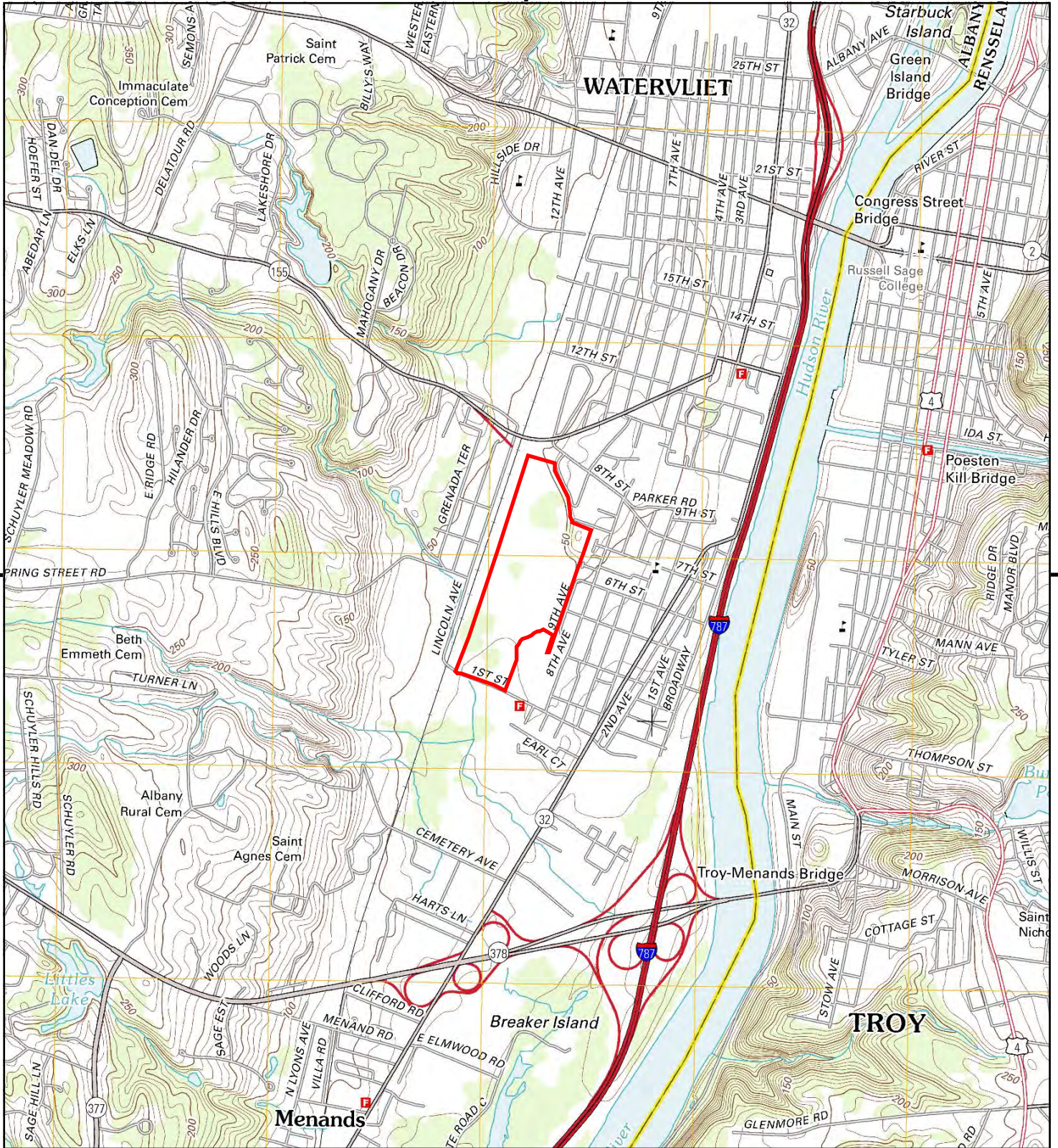
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1893 Source Sheets



Troy
1893
15-minute, 62500



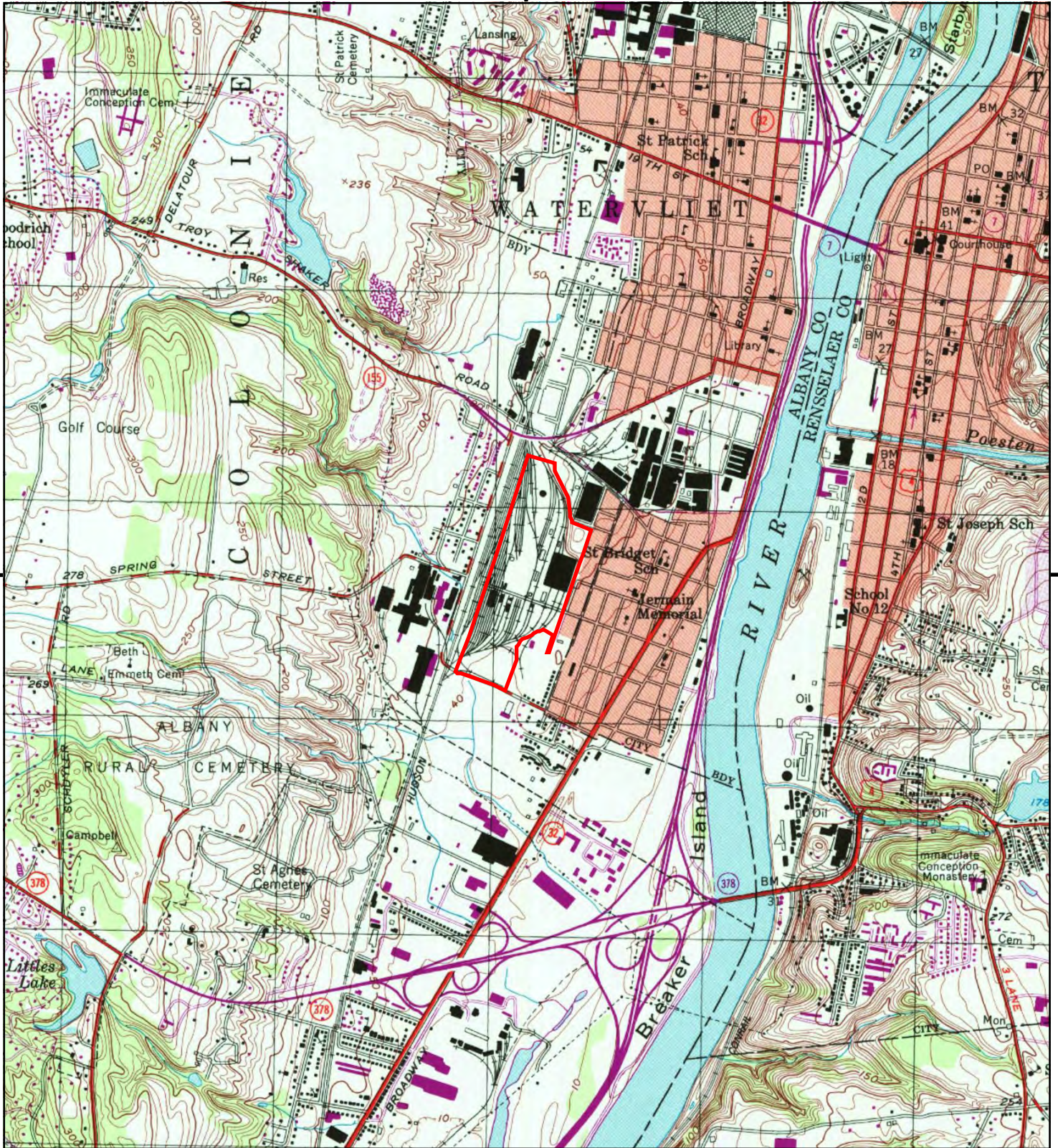
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 ADDRESS: 950 5th Street
 Watervliet, NY 12189
 CLIENT: Envirospec





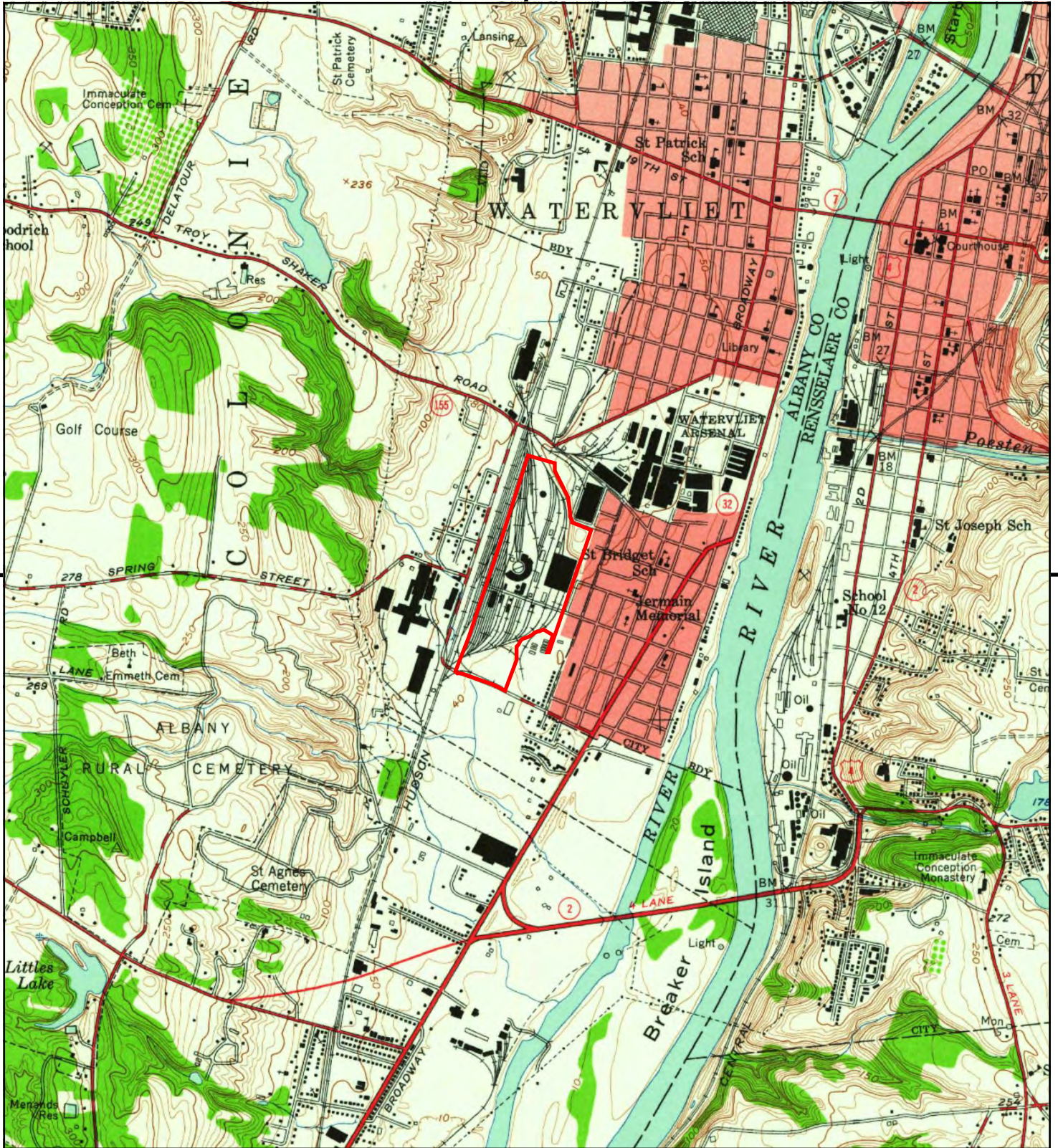
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 ADDRESS: 950 5th Street
 Watervliet, NY 12189
 CLIENT: Envirospec





This report includes information from the following map sheet(s).



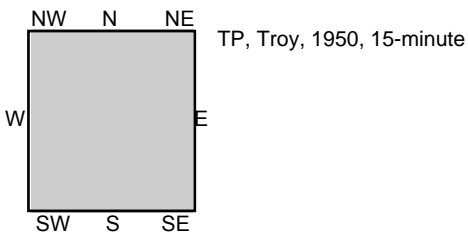
TP, Troy South, 1953, 7.5-minute

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 ADDRESS: 950 5th Street
 Watervliet, NY 12189
 CLIENT: Envirospec



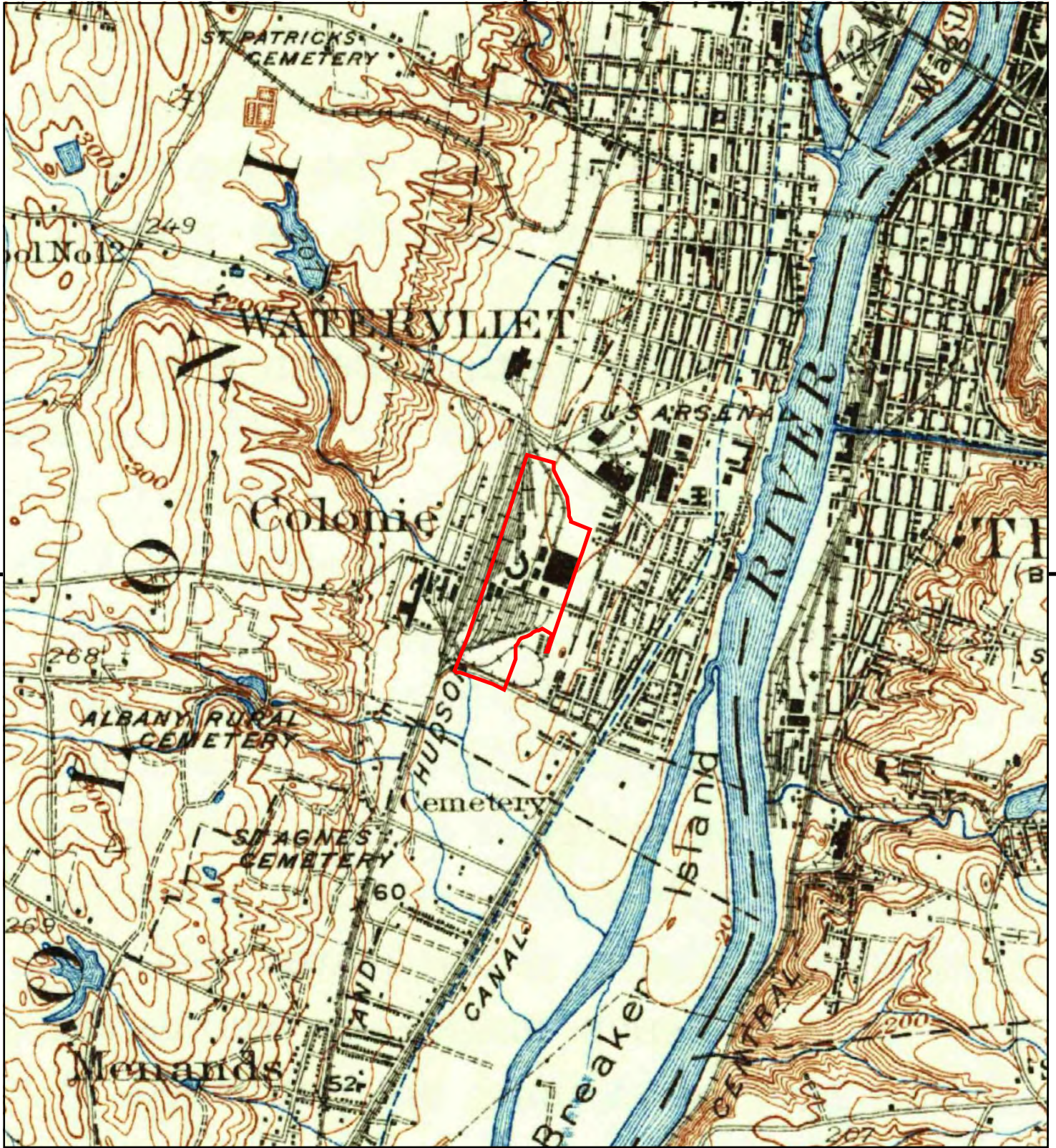


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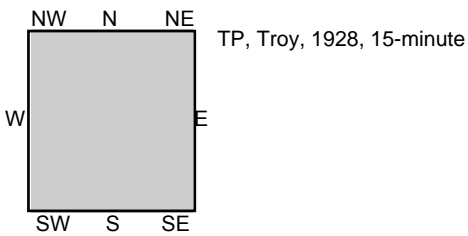


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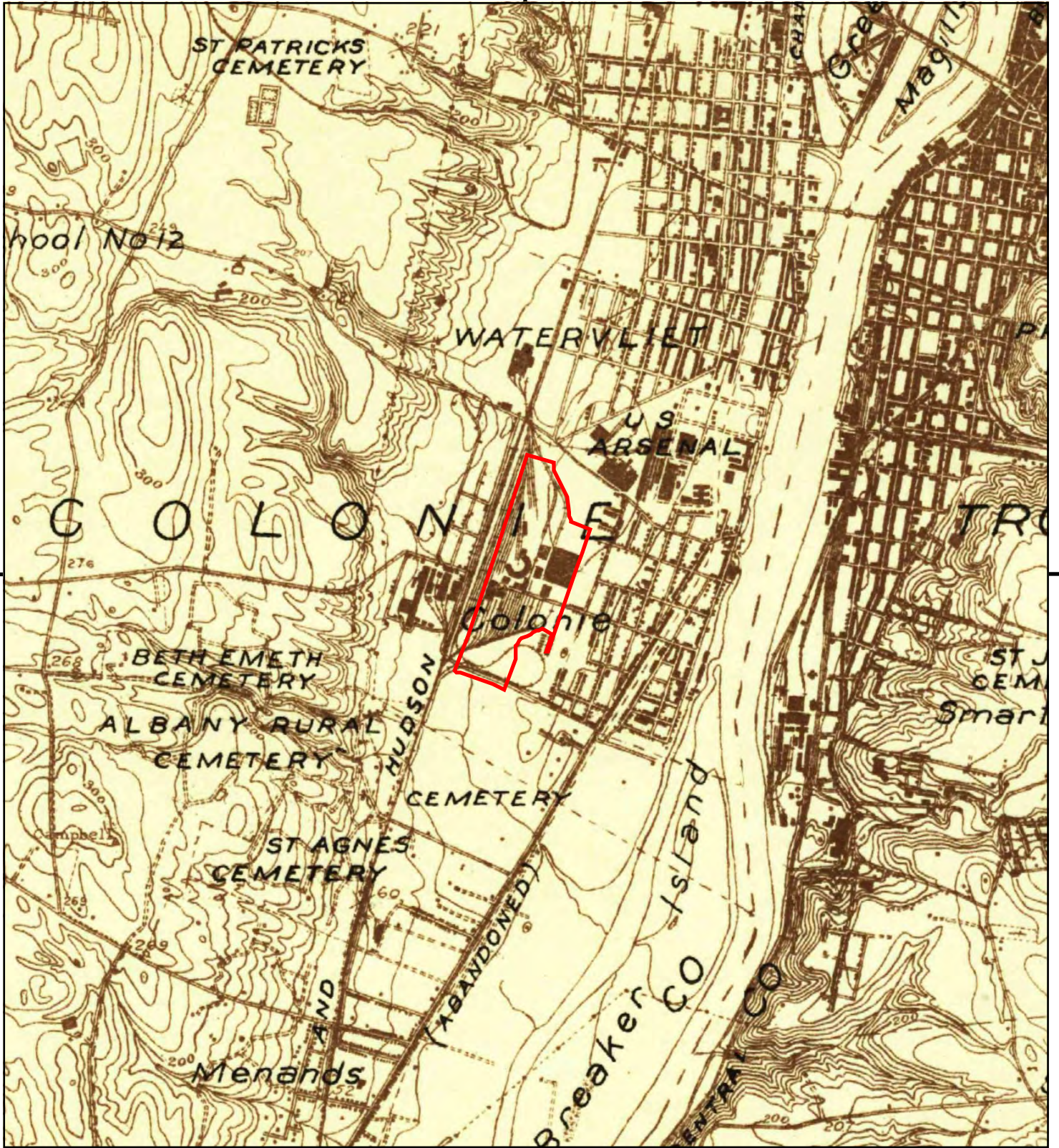


This report includes information from the following map sheet(s).

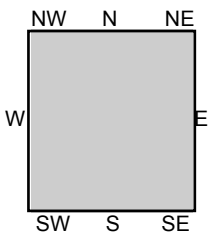
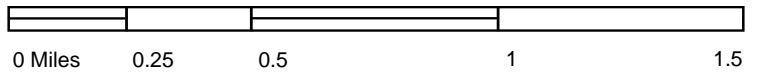


SITE NAME: 950 5th Street
 ADDRESS: 950 5th Street
 Watervliet, NY 12189
 CLIENT: Envirospec





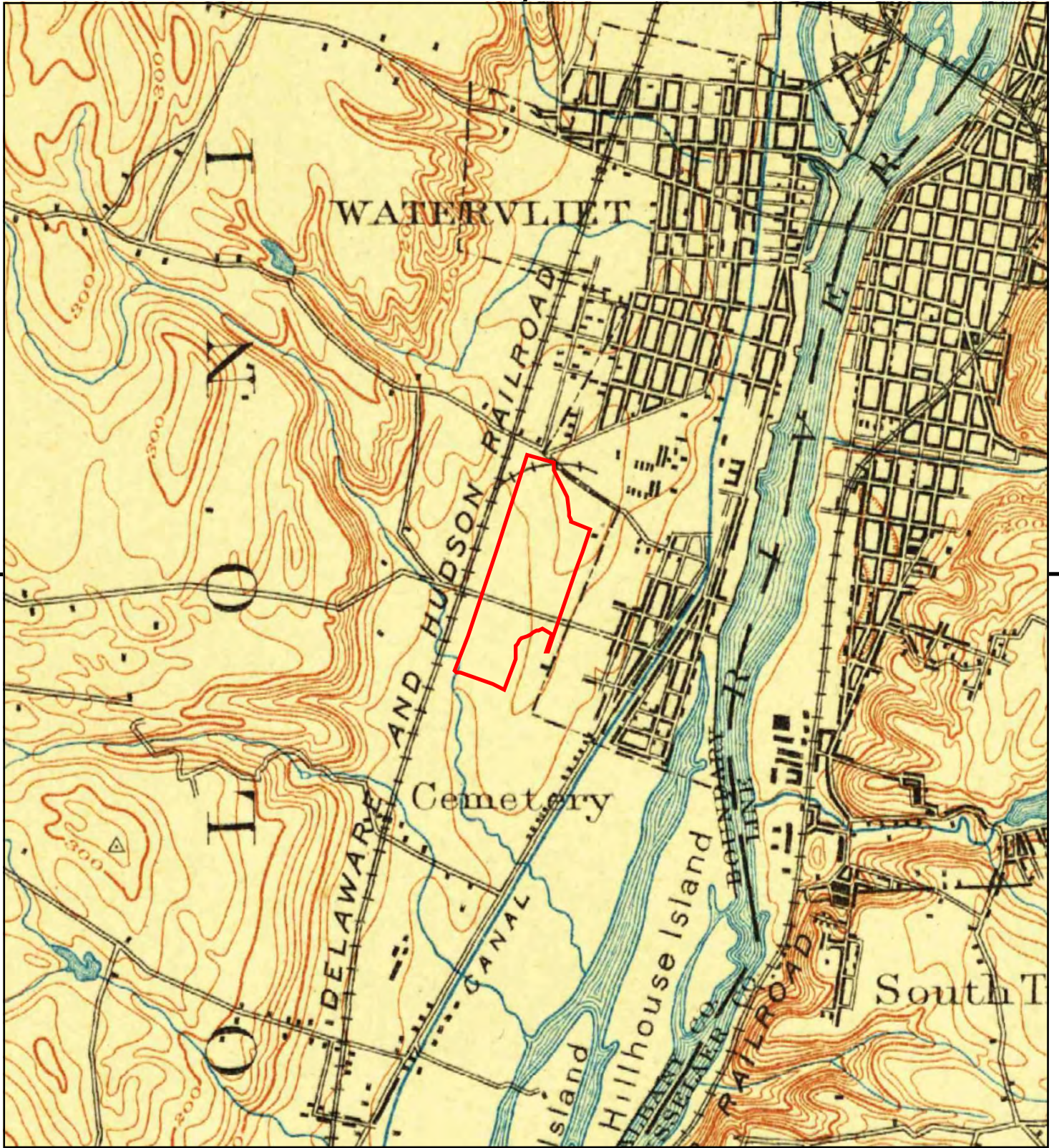
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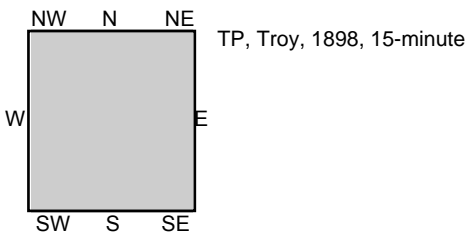
TP, Troy, 1925, 15-minute

SITE NAME: 950 5th Street
 ADDRESS: 950 5th Street
 Watervliet, NY 12189
 CLIENT: Envirospec



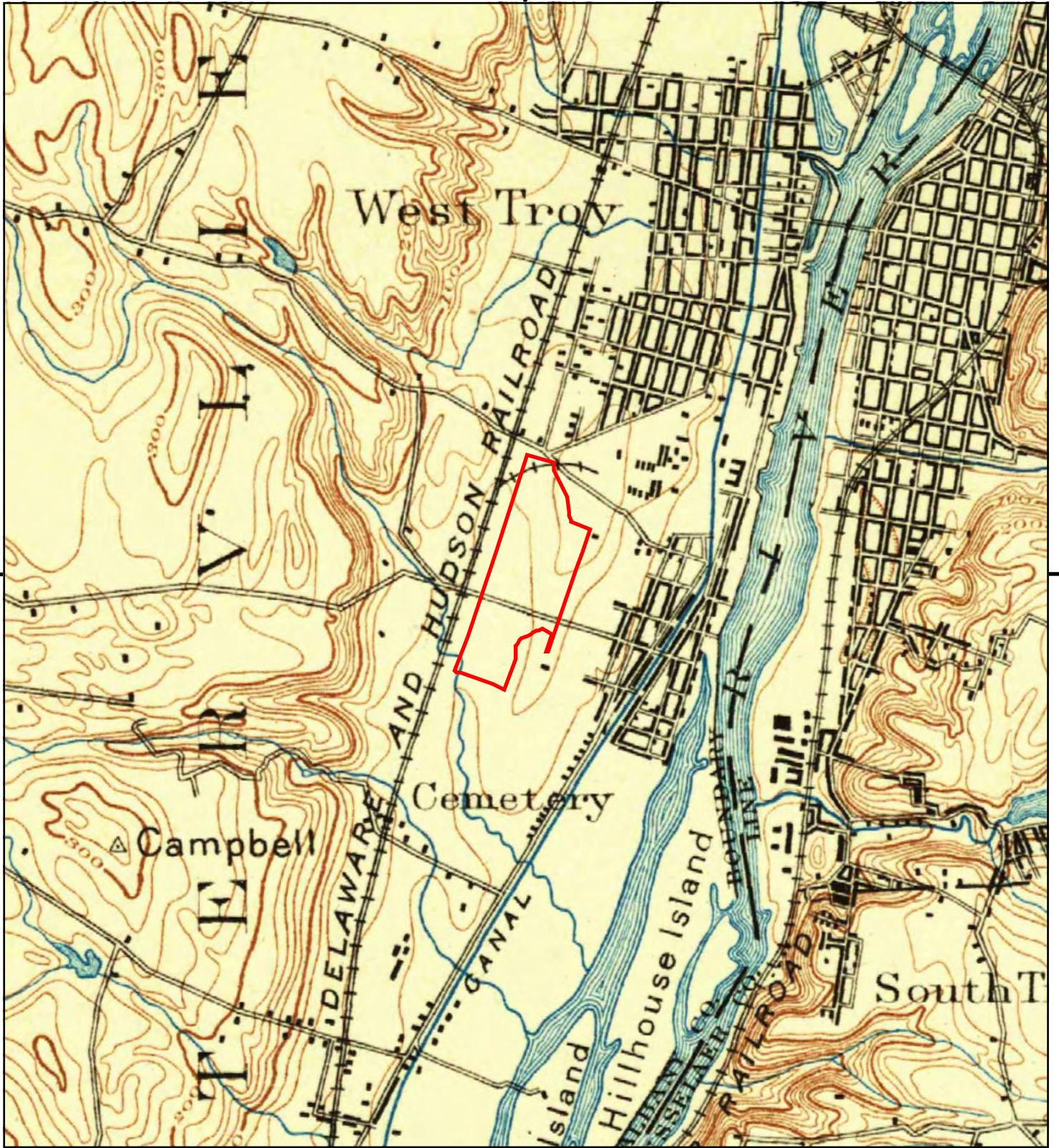


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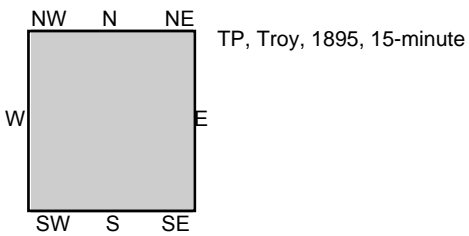


SITE NAME: 950 5th Street
 ADDRESS: 950 5th Street
 Watervliet, NY 12189
 CLIENT: Envirospec



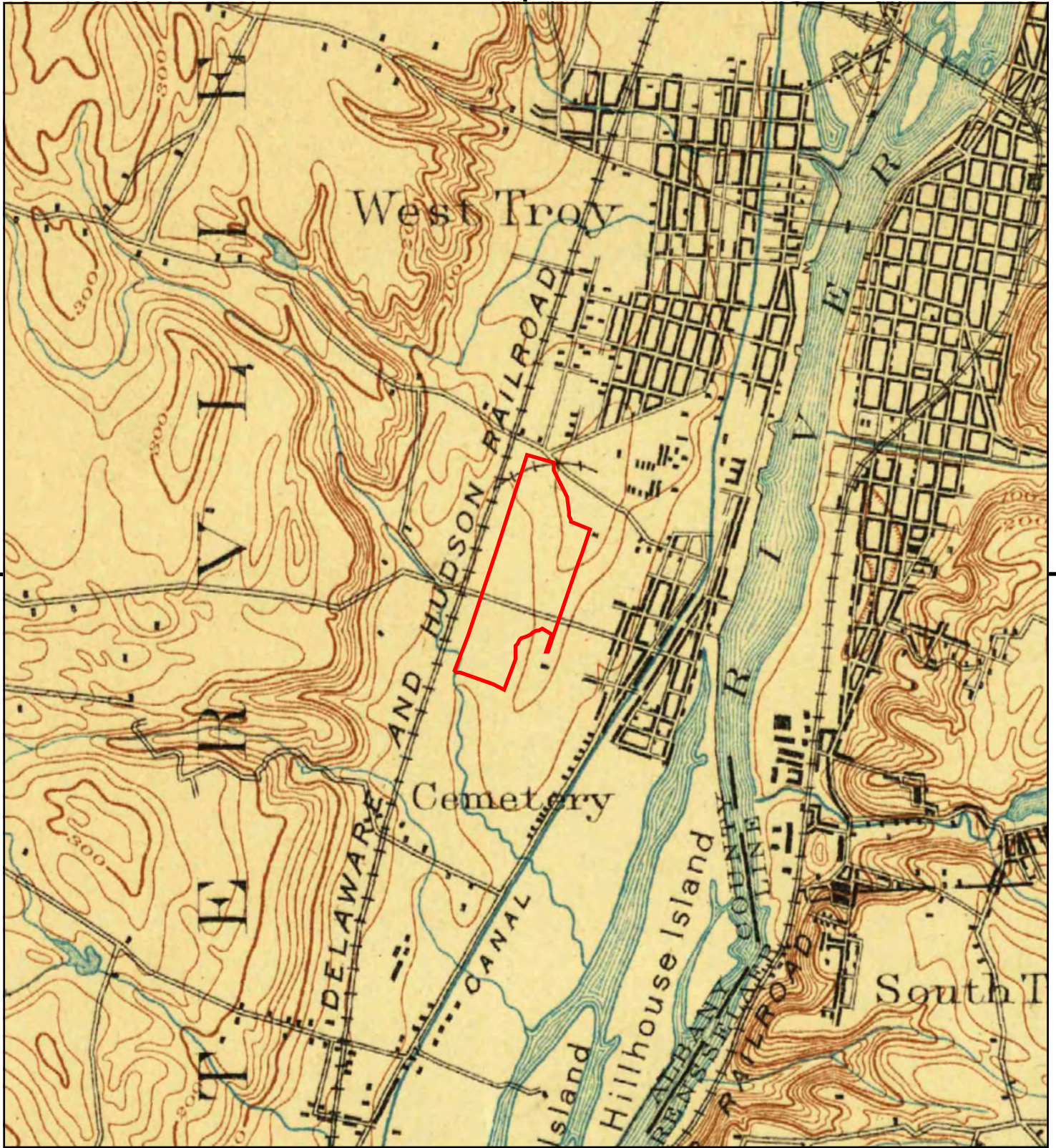


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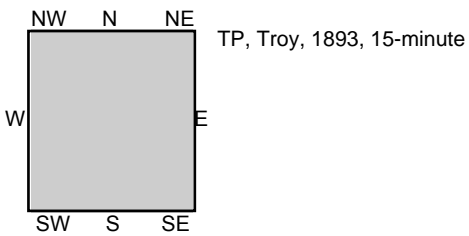


SITE NAME: 950 5th Street
 ADDRESS: 950 5th Street
 Watervliet, NY 12189
 CLIENT: Envirospec





This report includes information from the following map sheet(s).



SITE NAME: 950 5th Street
ADDRESS: 950 5th Street
Watervliet, NY 12189
CLIENT: Envirospec



Appendix B

Site Observation Reports



349 Northern Boulevard Suite 3 • Albany, NY 12204 • Phone: 518.453.2203 • Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)



Envirospec Engineering, PLLC
349 Northern Blvd.
Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.453.2204

Report
No. _____
Page No. _____
1 of 2
Date July 30, 2019

Weather	Temperature
	High <u>91°F</u>
	Low _____

SITE OBSERVATION REPORT

Project Lincoln Ave Investigation

Project
No. E19-2219

Location Watervliet, NY

Staff On-Site:

Rachel Farnum

Ross Carpinello

Mike Alix from Luizzi operating the excavator

Equipment onsite:

Summary of Work completed:

TP-12: Water encountered at 7ft Sheen observed. Collected soil Sample at 7ft and GW (GW-01) sample at 8:35
Soil tested for PCBs, SVOCs, VOCs, metals, pesticides, and cyanide; GW tested for PCBs, SVOCs,
VOCs, total & dissolved metals, pesticides, and cyanide.

TP-13: Water encountered at 7.5ft. Collected soil from 2ft at 9:10am. Soil tested for PCBs, SVOCs, VOCs,
metals, and cyanide.

TP-14: Water encountered at 8ft. collected soil sample from 4-6ft at 9:25am. Soil tested for PCBs, SVOCs, VOCs,
metals, pesticides, and cyanide

TP-23: Water encountered at 2.8ft, hit refusal just below that. Collected soil sample from 3ft at 9:50am. Soil tested
for PCBs, SVOCs, VOCs, metals, and cyanide.

TP-22: Water encountered at 3.5ft. Collected soil sample from 2ft and GW (GW-03) sample at 10:20am. Soil
tested for PCBs, SVOCs, VOCs, metals, and cyanide; GW tested for PCBs, SVOCs, VOCs, total &
dissolved metals, pesticides, and cyanide.

TP-15: Water encountered at 2ft. Free Product/ oil layer observed on the western side of the pit, thin black layer.
Collected soil and GW sample at 10:55am. Soil tested for PCBs, SVOCs, VOCs, metals, and cyanide;
GW tested for SVOCs and VOCs.

TP-16: Water encountered at 10ft. Collected soil sample from 10ft at 11:45. Soil tested for PCBs, SVOCs, VOCs,
metals, and cyanide.

TP-24: Water encountered at 9ft. Collected soil sample from 4-6ft at 12:20pm. Soil tested for PCBs, SVOCs,
VOCs, metals, and cyanide.

TP-17: Water not encountered. Soil sample collected from 15ft at 12:40pm. Soil tested for PCBs, SVOCs,
VOCs, metals, and cyanide.

TP-18: Water encountered at 4.5ft. soil sample collected from 2ft at 12:55pm. Soil tested for PCBs, SVOCs,
VOCs, metals, pesticides, and cyanide.



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Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.453.2204

Report No. _____
Page No. 2 of 2
Date July 30, 2019 _____

Weather	Temperature
	High 91°F
	Low

SITE OBSERVATION REPORT

Project Lincoln Ave Investigation

Project No. E19-2219

Location

Summary of Work completed:

- TP-20: Water encountered at 16ft. Soil sample collected from 16ft at 1:30pm. Soil tested for PCBs, SVOCs, VOCs, metals, pesticides, and cyanide.
- TP-21: Water not encountered. Soil sample collected from 4-6ft at 1:55pm. Soil tested for PCBs, SVOCs, VOCs, metals, and cyanide.
- TP-19: Water not encountered. Soil sample collected from 2ft at 2:15pm. Soil tested for PCBs, SVOCs, VOCs, metals, and cyanide.

OTHER

The above comments were made by: RF



Envirospec Engineering, PLLC
349 Northern Blvd.
Suite 3
Albany, NY 12204
Phone: 518.453.2203
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Report No. 2
Page No. 1 of 1
Date August 1, 2019

Weather	Temperature
Sunny	High <u>86°F</u> Low _____

SITE OBSERVATION REPORT

Project Lincoln Ave Investigation

Project No. E19-2219

Location Watervliet, NY

Staff On-Site:

Rachel Farnum

Ross Carpinello

Equipment onsite:

Summary of Work completed:

SB-01: Water not encountered, refusal at 7ft. Soil sample SB-01 sampled at 2:55pm from 1-3ft. tested for PCBs, SVOCs, VOCs, Pesticides, Metals, and Cyanide.

SB-04: Water not encountered, refusal at 3ft. Soil sample SB-04 sampled at 2:25pm from 1-3ft. tested for PCBs, VOCs, SVOCs, Metals, and Cyanide.

SB-03: Water not encountered, refusal at 5ft. Soil sample SB-03 sampled at 2:10pm. Tested for PCBs SVOCs, VOCs, Pesticides, Metals, and Cyanide.

SB-02: Water encountered at 10ft, refusal at 14.75ft. Soil sample SB-02 sampled at 1:30 from 10-12ft. Tested for PCBs, SVOCs, VOCs, Metals, and Cyanide.

SB-07: Water not encountered, refusal at 9ft. Soil sample SB-07 sampled at 1:00pm from 1-3ft. Tested for PCBs, SVOCs, VOCs, Metals, and Cyanide.

SB-05: Water not encountered, no refusal after 30ft. Soil sample SB-05 sampled at 11:20am from 6-8ft. Tested for PCBs, SVOCs, VOCs, Cyanide, Metals, and Pesticides.

SB-06: Water not encountered, no refusal after 30ft. Soil sample SB-06 sampled at 10:30 from 27-28ft. Tested for PCBs, SVOCs, VOCs, Metals, Pesticides, and Cyanide.

SB-08: Water encountered at 17 ft, refusal at 24ft. Soil sample SB-08 sampled at 7:35am from 4-5ft. Tested for VOCs, SVOCs, PCBs, Metals, and Cyanide. Groundwater sample GW-07 attempted but recharge rate was too slow, temporary well placed to sample at a later date.

OTHER

The above comments were made by: RF



Envirospec Engineering, PLLC
349 Northern Blvd.
Suite 3
Albany, NY 12204
Phone: 518.453.2203
Fax: 518.453.2204

Report No. _____
Page No. 1 of 1
Date August 2, 2019

Weather	Temperature
Sunny	High 86°F
	Low

SITE OBSERVATION REPORT

Project Lincoln Ave Investigation

Project No. E19-2219

Location Watervliet, NY

Staff On-Site:

Rachel Farnum

Ross Carpinello

Equipment onsite:

Summary of Work completed:

GW-07 from temporary well at SB-08 at 7:30 AM. Tested for PCBs, SVOCs, VOCs, total and dissolved metals, pesticides and cyanide

SE-2 from southern end of pond at 8:05 am. Tested for PCBs, SVOCs, VOCs, metals, pesticides, and cyanide.

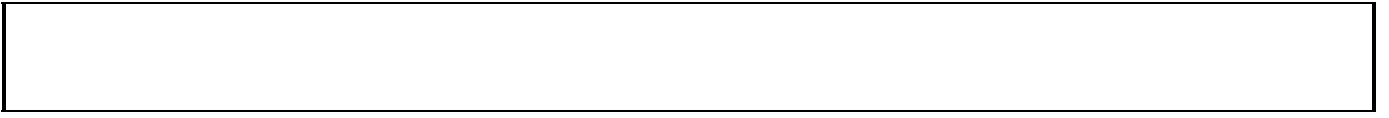
SW-2 from northern part of stormwater pond at 8:30 am. Tested for PCBs, SVOCs, VOCs, total & dissolved metals, pesticides, and cyanide.

SE-3 From North of pond at 8:50 am. Tested for PCBs, SVOCs, VOCs, metals, and cyanide.

SE-4 was attempted under outfall 1. Only rocks, couldn't get a sample. odor of oil near the outfall.

OTHER

The above comments were made by: RF



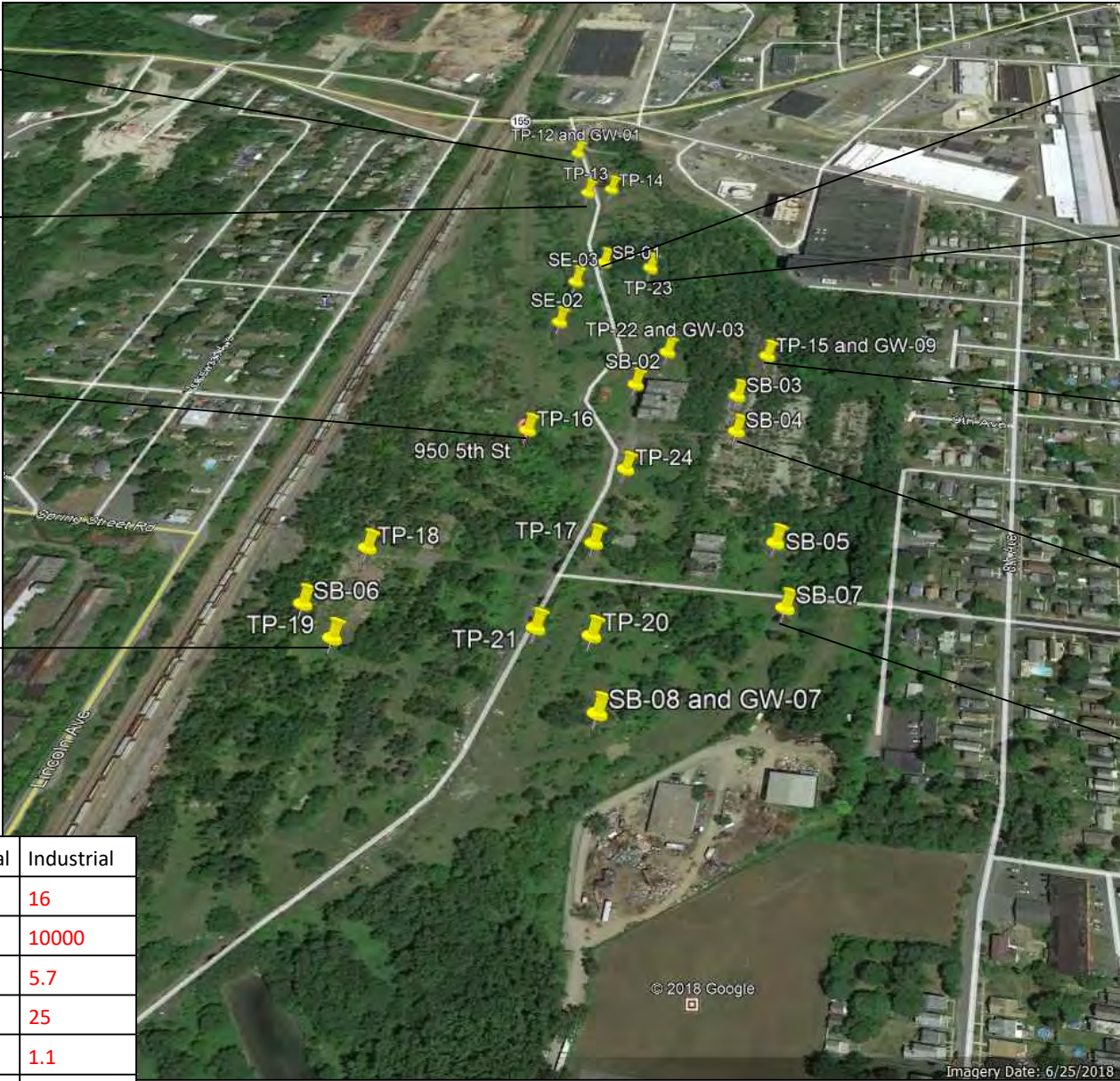
Appendix C

Sample Locations and Exceedances



349 Northern Boulevard Suite 3 • Albany, NY 12204 • Phone: 518.453.2203 • Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)



TP-12	
Parameter	Result (ppm)
Arsenic	37.1

TP-13	
Parameter	Result (ppm)
Arsenic	59.5

TP-16	
Parameter	Result (ppm)
Arsenic	18.6
Mercury	3.2
Benzo(a)pyrene	1.31

TP-19	
Parameter	Result (ppm)
PCB-1242	9.52

Standards (ppm)	Commercial	Industrial
Arsenic	16	16
Copper	270	10000
Mercury	2.8	5.7
PCB-1242	1	25
Benzo(a)pyrene	1	1.1
Benzo(a)anthracene	5.6	11
Benzo(b)fluoranthene	5.6	11

SB-01	
Parameter	Result (ppm)
Arsenic	47.1

TP-23	
Parameter	Result (ppm)
Arsenic	32.3

TP-15	
Parameter	Result (ppm)
Copper	601

SB-04	
Parameter	Result (ppm)
Benzo(a)pyrene	2.76

SB-07	
Parameter	Result (ppm)
Benzo(a)anthracene	10.3
Benzo(a)pyrene	7.69
Benzo(b)fluoranthene	9.79



Sediment, SE-02	
Parameter	Result (ppm)
Copper	213
Lead	547

Surface Water, SW-02	
Parameter	Result (ppb)
Cyanide	18

Groundwater, GW-09	
Parameter	Result (ppm)
1,2,4-trimethylbenzene	30.2

Groundwater, GW-07	
Parameter	Result (ppm)
2,4-dimethylphenol	1.3

Sediment Guideline Value, Class C (ppm)	
Copper	150
Lead	130

Surface Water Standard (ppb)	
Cyanide	5.2

Groundwater Standard (ppb), Part 703	
1,2,4-trimethylbenzene	5
2,4-dimethylphenol	1

Appendix D

Investigation Results



349 Northern Boulevard Suite 3 • Albany, NY 12204 • Phone: 518.453.2203 • Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

TABLE 10. Soil Analytical Results.

Contaminants	Sample ID			TP-12	TP-13	TP-14	TP-15	TP-16	TP-17	TP-18	TP-19	TP-20	TP-21	TP-22	TP-23	TP-24	
	Depth (ft bgs)			7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	7/30/2019	
	6 NYCRR-375.6.8(b) Residential (4)	6 NYCRR-375.6.8(b) Commercial (5)	6 NYCRR-375.6.8(b) Industrial (6)	Sample Date													
2-Hexanone				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Methyl-2-pentanone (MIBK)				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	100	500	1000	0.212	0.225	0.15	0.222	0.156	0.0243	0.0557	0.442	0.074	0.0756	0.252	0.313	0.208	
Benzene	4.8	44	89	ND	ND	ND	0.0103	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromochloromethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromodichloromethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromofom				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromomethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon disulfide				ND	ND	ND	0.0289	ND	ND	ND	0.0088	ND	0.0255	ND	0.0064	ND	
Carbon tetrachloride	2.4	22	44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	49	350	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloromethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethane	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dibromochloromethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	41	390	780	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Isopropylbenzene				ND	ND	ND	ND	ND	ND	ND	0.188	ND	ND	ND	ND	ND	
Methyl-terti-butyl ether	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene Chloride	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene				ND	ND	ND	0.0413	ND	ND	ND	0.0116	ND	ND	ND	ND	ND	
Styrene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	19	150	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,2-Dichloroethene	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
trans-1,3-Dichloropropene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	21	200	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl chloride	0.9	13	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Xylenes, Total	100	500	1000	ND	ND	ND	ND	ND	ND	ND	0.0346	ND	ND	ND	ND	ND	
TOTAL BTEX				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
m&p-Xylene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
p-Xylene				ND	ND	ND	ND	ND	ND	ND	0.0291	ND	ND	ND	ND	ND	
Petroleum Hydrocarbons																	
Diesel Range Organics [C10-C28]																	
GRO (C6-C10)																	

Notes:

- (1) All results in ppm
- (2) ND = Not Detected
- (3) Standards based on Chromium, hexavalent.
- (4) Results exceeding residential SCOs are RED
- (5) Results exceeding commercial SCOs are BLUE
- (6) Results exceeding industrial SCOs are GREEN

TABLE 10. Soil Analytical Results.

Contaminants	Sample ID			SB-01	SB-02	SB-03	SB-04	SB-05	SB-06	SB-07	SB-08
	6 NYCRR-375.6.8(b) Residential (4)	6 NYCRR-375.6.8(b) Commercial (5)	6 NYCRR-375.6.8(b) Industrial (6)	Depth (ft bgs)							
				8/1/2019	8/1/2019	8/1/2019	8/1/2019	8/1/2019	8/1/2019	8/1/2019	8/1/2019
2-Hexanone				ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)				ND	ND	ND	ND	ND	ND	ND	ND
Acetone	100	500	1000	0.0381	0.0136	0.064	0.0144	0.0301	0.0691	0.138	0.0974
Benzene	4.8	44	89	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane				ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane				ND	ND	ND	ND	ND	ND	ND	ND
Bromoforn				ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane				ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide				ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	2.4	22	44	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane				ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	49	350	700	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane				ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene				ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane				ND	ND	ND	ND	ND	ND	ND	ND
Dibromodichloromethane				ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	41	390	780	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene				ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene				ND	ND	ND	ND	ND	ND	ND	ND
Styrene				ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	19	150	300	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene				ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	21	200	400	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	0.9	13	27	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, Total	100	500	1000	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL BTEX				ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene				ND	ND	ND	ND	ND	ND	ND	ND
p-Xylene				ND	ND	ND	ND	ND	ND	ND	ND
Petroleum Hydrocarbons											
Diesel Range Organics [C10-C28]											
GRO (C6-C10)											

Notes:

- (1) All results in ppm
- (2) ND = Not Detected
- (3) Standards based on Chromium, hexavalent.
- (4) Results exceeding residential SCOs are RED
- (5) Results exceeding commercial SCOs are BLUE
- (6) Results exceeding industrial SCOs are GREEN

TABLE 11. Groundwater Analytical Results

	Sample ID		GW-01	GW-03	GW-07	GW-09
	Depth		7ft	2ft	17ft	2 ft
	Sample Date		7/30/19	7/30/19	8/2/19	7/30/19
Contaminants	Part 703 Groundwater A Standard (3)	TOGS 1.1.1 (4)				
Metals						
Aluminum			2470	750	26700	NA*
Aluminum, Dissolved			90.4	ND	368	NA*
Antimony	3	3	ND	ND	ND	NA*
Antimony, Dissolved	3	3	ND	ND	ND	NA*
Arsenic	25	25	ND	ND	24.2	NA*
Arsenic, Dissolved	25	25	ND	ND	ND	NA*
Barium	1000	1000	81.3	101	722	NA*
Barium, Dissolved	1000	1000	73.5	70.1	406	NA*
Beryllium	3	3	ND	ND	1.2	NA*
Beryllium, Dissolved	3	3	ND	ND	ND	NA*
Boron	1000	1000	58.8	139	104	NA*
Boron, Dissolved	1000	1000	65.8	132	97.9	NA*
Cadmium	5	5	ND	ND	ND	NA*
Cadmium, Dissolved	5	5	ND	ND	ND	NA*
Calcium			62300	91300	102000	NA*
Calcium, Dissolved			75000	94600	103000	NA*
Chromium	50	50	ND	ND	44.5	NA*
Chromium, Dissolved	50	50	ND	ND	ND	NA*
Cobalt			ND	ND	17.9	NA*
Cobalt, Dissolved			ND	ND	ND	NA*
Copper	200	200	7.3	6.3	115	NA*
Copper, Dissolved	200	200	ND	ND	ND	NA*
Iron	300	300	3530	1070	52000	NA*
Iron, Dissolved	300	300	ND	ND	896	NA*
Lead	25	25	ND	ND	57.2	NA*
Lead, Dissolved	25	25	ND	ND	ND	NA*
Magnesium	35000	35000	15200	21400	21700	NA*
Magnesium, Dissolved	35000	35000	18400	22400	16100	NA*
Manganese	300	300	108	114	5110	NA*
Manganese, Dissolved	300	300	10.6	7.3	2800	NA*
Molybdenum			ND	ND	ND	NA*
Molybdenum, Dissolved			ND	ND	ND	NA*
Nickel	100	100	ND	ND	45.7	NA*
Nickel, Dissolved	100	100	ND	ND	ND	NA*
Potassium			2720	5000	9720	NA*
Potassium, Dissolved			3060	4910	4680	NA*
Selenium	10	10	ND	ND	ND	NA*
Selenium, Dissolved	10	10	ND	ND	ND	NA*
Silver	50	50	ND	ND	ND	NA*
Silver, Dissolved	50	50	ND	ND	ND	NA*
Sodium	20000	20000	17300	7060	8690	NA*
Sodium, Dissolved	20000	20000	20300	7260	9000	NA*
Thallium		0.5	ND	ND	ND	NA*
Thallium, Dissolved		0.5	ND	ND	ND	NA*
Vanadium			ND	ND	46.4	NA*
Vanadium, Dissolved			ND	ND	ND	NA*
Zinc		2000	15.3	15.5	167	NA*
Zinc, Dissolved		2000	ND	ND	ND	NA*

TABLE 11. Groundwater Analytical Results

	Sample ID		GW-01	GW-03	GW-07	GW-09
	Depth		7ft	2ft	17ft	2 ft
	Sample Date		7/30/19	7/30/19	8/2/19	7/30/19
Contaminants	Part 703 Groundwater A Standard (3)	TOGS 1.1.1 (4)				
Mercury	0.7	0.7	ND	ND	ND	NA*
Mercury, Dissolved	0.7	0.7	ND	ND	ND	NA*
Cyanide	200	200	ND	ND	ND	NA*
Pesticides						
4,4'-DDD	0.3	0.3	ND	ND	ND	NA*
4,4'-DDE	0.2	0.2	ND	ND	ND	NA*
4,4'-DDT	0.2	0.2	ND	ND	ND	NA*
Aldrin	ND	ND	ND	ND	ND	NA*
Dieldrin	0.0004	0.0004	ND	ND	ND	NA*
Endosulfan I			ND	ND	0.032	NA*
Endosulfan II			ND	ND	ND	NA*
Endosulfan sulfate			ND	ND	ND	NA*
Endrin	ND	ND	ND	ND	ND	NA*
Endrin aldehyde	5	5	ND	ND	ND	NA*
Endrin ketone	5	5	ND	ND	ND	NA*
Heptachlor	0.04	0.04	ND	ND	ND	NA*
Heptachlor epoxide	0.03	0.03	ND	ND	ND	NA*
Methoxychlor	35	35	ND	ND	ND	NA*
Toxaphene	0.06	0.06	ND	ND	ND	NA*
alpha-BHC	0.01	0.01	ND	ND	ND	NA*
alpha-Chlordane			ND	ND	0.045	NA*
beta-BHC	0.04	0.04	ND	ND	0.033	NA*
delta-BHC	0.04	0.04	ND	ND	ND	NA*
gamma-BHC (Lindane)	0.05	0.05	ND	ND	ND	NA*
gamma-Chlordane			ND	ND	ND	NA*
PCBs						
PCB-1016 (Aroclor 1016)			ND	ND	ND	NA*
PCB-1221 (Aroclor 1221)			ND	ND	ND	NA*
PCB-1232 (Aroclor 1232)			ND	ND	ND	NA*
PCB-1242 (Aroclor 1242)			ND	ND	ND	NA*
PCB-1248 (Aroclor 1248)			ND	ND	ND	NA*
PCB-1254 (Aroclor 1254)			ND	ND	ND	NA*
PCB-1260 (Aroclor 1260)			ND	ND	ND	NA*
PCB Total	0.09	0.09	ND	ND	ND	NA*
VOCs						
1,1,1-Trichloroethane	5	5	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	5	ND	ND	ND	ND
1,1,2-Trichloroethane	1	1	ND	ND	ND	ND
1,1-Dichloroethane	5	5	ND	ND	ND	ND
1,1-Dichloroethene	5	5	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	5	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	5	ND	ND	ND	30.2
1,2-Dichlorobenzene	3	3	ND	ND	ND	ND
1,2-Dichloroethane	0.6	0.6	ND	ND	ND	ND
1,2-Dichloroethene (Total)	5	5	ND	ND	ND	ND
1,2-Dichloropropane	1	1	ND	ND	ND	ND
1,3,5-Trimethylbenzene			ND	ND	ND	ND
1,3-Dichlorobenzene	3	3	ND	ND	ND	ND
1,4-Dichlorobenzene	3	3	ND	ND	ND	ND

TABLE 11. Groundwater Analytical Results

	Sample ID		GW-01	GW-03	GW-07	GW-09
	Depth		7ft	2ft	17ft	2 ft
	Sample Date		7/30/19	7/30/19	8/2/19	7/30/19
Contaminants	Part 703 Groundwater A Standard (3)	TOGS 1.1.1 (4)				
2-Butanone (MEK)		50	ND	ND	ND	ND
2-Hexanone		50	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)			ND	ND	ND	ND
Acetone		50	ND	15.4	16.3	19.8
Benzene	1	1	ND	ND	ND	ND
Bromochloromethane	5	5	ND	ND	ND	ND
Bromodichloromethane		50	ND	ND	ND	ND
Bromoform		50	ND	ND	ND	ND
Bromomethane	5	5	ND	ND	ND	ND
Carbon disulfide	60		ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND
Chlorobenzene	5	5	ND	ND	ND	ND
Chloroethane	5	5	ND	ND	ND	ND
Chloroform	7	7	ND	ND	ND	ND
Chloromethane			ND	ND	ND	ND
Dibromochloromethane		50	ND	ND	ND	ND
Ethylbenzene	5	5	ND	ND	ND	1.3
Isopropylbenzene (Cumene)	5	5	ND	ND	1.6	4.1
Methyl-tert-butyl ether			ND	ND	ND	ND
Methylene Chloride	5	5	2.8	2.5	3.2	1.3
Naphthalene			ND	ND	ND	ND
Styrene	5	5	ND	ND	ND	ND
TOTAL BTEX			ND	ND	ND	ND
Tetrachloroethene	5	5	ND	ND	ND	ND
Toluene	5	5	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND
Vinyl chloride	2	2	ND	ND	ND	ND
Xylene (Total)	5	5	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	5	ND	ND	ND	ND
cis-1,3-Dichloropropene			ND	ND	ND	ND
m&p-Xylene	5	5	ND	ND	ND	ND
o-Xylene	5	5	ND	ND	ND	1.1
trans-1,2-Dichloroethene	5	5	ND	ND	ND	ND
trans-1,3-Dichloropropene			ND	ND	ND	ND
SVOCs						
1,2,4-Trichlorobenzene	5	5	ND	ND	ND	ND
1,2-Dichlorobenzene	3	3	ND	ND	ND	ND
1,3-Dichlorobenzene	3	3	ND	ND	ND	ND
1,4-Dichlorobenzene	3	3	ND	ND	ND	ND
1-Methylnaphthalene			ND	ND	3.5	94.6
2,4,5-Trichlorophenol			ND	ND	ND	ND
2,4,6-Trichlorophenol			ND	ND	ND	ND
2,4-Dichlorophenol	1	1	ND	ND	ND	ND
2,4-Dimethylphenol	1	50	ND	ND	1.3	ND
2,4-Dinitrophenol	1	10	ND	ND	ND	ND
2,4-Dinitrotoluene	5		ND	ND	2.2	ND
2,6-Dinitrotoluene	5	5	ND	ND	2.8	ND
2-Chloronaphthalene		10	ND	ND	ND	ND
2-Chlorophenol			ND	ND	ND	ND

TABLE 11. Groundwater Analytical Results

	Sample ID		GW-01	GW-03	GW-07	GW-09
	Depth		7ft	2ft	17ft	2 ft
	Sample Date		7/30/19	7/30/19	8/2/19	7/30/19
Contaminants	Part 703 Groundwater A Standard (3)	TOGS 1.1.1 (4)				
2-Methylnaphthalene			ND	ND	ND	98.9
2-Methylphenol (o-Cresol)			ND	ND	ND	ND
2-Nitroaniline	5	5	ND	ND	ND	ND
2-Nitrophenol			ND	ND	ND	ND
3&4-Methylphenol (m&p Cresol)			ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	5	ND	ND	ND	ND
3-Nitroaniline	5	5	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol			ND	ND	ND	ND
4-Bromophenylphenyl ether			ND	ND	ND	ND
4-Chloro-3-methylphenol			ND	ND	ND	ND
4-Chloroaniline	5	5	ND	ND	3.7	2.0
4-Chlorophenylphenyl ether			ND	ND	ND	ND
4-Nitroaniline	5	5	ND	ND	ND	ND
4-Nitrophenol			ND	ND	ND	ND
Acenaphthene		20	ND	ND	4.7	6.2
Acenaphthylene			ND	ND	ND	ND
Anthracene		50	ND	ND	ND	ND
Azobenzene	5	5	ND	ND	ND	ND
Benzo(a)anthracene			ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene		0.002	ND	ND	ND	ND
Benzo(g,h,i)perylene			ND	ND	ND	ND
Benzo(k)fluoranthene		0.002	ND	ND	ND	ND
Benzoic acid			ND	ND	ND	ND
Benzyl alcohol			ND	ND	ND	ND
Butylbenzylphthalate			ND	ND	ND	ND
Carbazole			ND	ND	ND	ND
Chrysene		0.002	ND	ND	ND	ND
Di-n-butylphthalate	50		ND	ND	ND	ND
Di-n-octylphthalate			ND	ND	ND	ND
Dibenz(a,h)anthracene			ND	ND	ND	ND
Dibenzofuran			ND	ND	1.1	6.3
Diethylphthalate			ND	ND	ND	ND
Dimethylphthalate			ND	ND	ND	ND
Fluoranthene		50	ND	ND	ND	ND
Fluorene		50	ND	ND	5.2	11.0
Hexachloro-1,3-butadiene	0.5	0.5	ND	ND	ND	ND
Hexachlorobenzene	0.04	0.04	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	5	ND	ND	ND	ND
Hexachloroethane	5	5	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene		0.002	ND	ND	ND	ND
Isophorone		50	ND	ND	1.9	ND
N-Nitroso-di-n-propylamine			ND	ND	ND	ND
N-Nitrosodimethylamine			ND	ND	ND	ND
N-Nitrosodiphenylamine		50	ND	ND	ND	2.1
Naphthalene		10	ND	ND	ND	1.3
Nitrobenzene	0.4	0.4	ND	ND	ND	ND
Pentachlorophenol	1	1	ND	ND	ND	ND
Phenanthrene		50	ND	ND	8.1	11.6

TABLE 12. Surface Water Analytical Results.

	Sample ID	SW-1
	Depth	1'
	Sample Date	8/2/2019
Contaminants	Part 703 Surface Water Class C Aquatic, Chronic Standard (5)	
Metals		
Aluminum	100	7960
Aluminum, Dissolved		ND
Antimony		ND
Antimony, Dissolved		ND
Arsenic	150	ND
Arsenic, Dissolved		ND
Barium		199
Barium, Dissolved		98.0
Beryllium	1100	ND
Beryllium, Dissolved		ND
Boron	10000	78.8
Boron, Dissolved		70.3
Cadmium	76.5	ND
Cadmium, Dissolved		ND
Calcium		94400
Calcium, Dissolved		89400
Chromium	97.4	10.4
Chromium, Dissolved		ND
Cobalt	5	ND
Cobalt, Dissolved		ND
Copper	24.2	73.4
Copper, Dissolved		ND
Iron	300	9140
Iron, Dissolved		384
Lead	13.1	191
Lead, Dissolved		ND
Magnesium		20400
Magnesium, Dissolved		18900
Manganese		879
Manganese, Dissolved		215
Molybdenum		ND
Molybdenum, Dissolved		ND
Nickel	139.1	13.5
Nickel, Dissolved		ND
Potassium		7070
Potassium, Dissolved		5300
Selenium	4.6	ND
Selenium, Dissolved		ND
Silver	0.1	ND
Silver, Dissolved		ND
Sodium		98800
Sodium, Dissolved		102000
Thallium	8	ND
Thallium, Dissolved		ND
Vanadium	14	16.5
Vanadium, Dissolved		ND

TABLE 12. Surface Water Analytical Results.

	Sample ID	SW-1
	Depth	1'
	Sample Date	8/2/2019
Contaminants	Part 703 Surface Water Class C Aquatic, Chronic Standard (5)	
Zinc	222	87.8
Zinc, Dissolved		ND
Mercury	0.77	ND
Mercury, Dissolved		ND
Cyanide, Total	5.2	18
Pesticides		
4,4'-DDD		ND
4,4'-DDE		ND
4,4'-DDT		ND
Aldrin		ND
alpha-BHC		ND
beta-BHC		ND
alpha-Chlordane		ND
delta-BHC		ND
Dieldrin		ND
Endosulfan I	0.009	ND
Endosulfan II		ND
Endosulfan sulfate		ND
Endrin	0.036	ND
Endrin aldehyde		ND
Endrin ketone		ND
gamma-BHC (Lindane)		ND
Heptachlor		ND
Heptachlor epoxide		ND
Methoxychlor	0.03	ND
Toxaphene	0.005	ND
gamma-Chlordane		ND
PCBs		
PCB-1016 (Aroclor 1016)		ND
PCB-1221 (Aroclor 1221)		ND
PCB-1232 (Aroclor 1232)		ND
PCB-1242 (Aroclor 1242)		ND
PCB-1248 (Aroclor 1248)		ND
PCB-1254 (Aroclor 1254)		ND
PCB-1260 (Aroclor 1260)		ND
PCB Total		ND
SVOCs		
1,2,4-Trichlorobenzene		ND
1,2-Dichlorobenzene		ND
1,3-Dichlorobenzene		ND
1,4-Dichlorobenzene		ND
1-Methylnaphthalene		ND
2,4,5-Trichlorophenol		ND
2,4,6-Trichlorophenol		ND
2,4-Dichlorophenol		ND
2,4-Dimethylphenol		ND
2,4-Dinitrophenol		ND
2,4-Dinitrotoluene		ND

TABLE 12. Surface Water Analytical Results.

	Sample ID	SW-1
	Depth	1'
	Sample Date	8/2/2019
Contaminants	Part 703 Surface Water Class C Aquatic, Chronic Standard (5)	
2,6-Dinitrotoluene		ND
2-Chloronaphthalene		ND
2-Chlorophenol		ND
2-Methylnaphthalene	4.7	ND
2-Methylphenol(o-Cresol)		ND
2-Nitroaniline		ND
2-Nitrophenol		ND
3&4-Methylphenol(m&p Cresol)		ND
3,3'-Dichlorobenzidine		ND
3-Nitroaniline		ND
4,6-Dinitro-2-methylphenol		ND
4-Bromophenylphenyl ether		ND
4-Chloro-3-methylphenol		ND
4-Chloroaniline		ND
4-Chlorophenylphenyl ether		ND
4-Nitroaniline		ND
4-Nitrophenol		ND
Acenaphthene	5.3	ND
Acenaphthylene		ND
Anthracene	3.8	ND
Azobenzene		ND
Benzo(a)anthracene		ND
Benzo(a)pyrene		ND
Benzo(b)fluoranthene		ND
Benzo(g,h,i)perylene		ND
Benzo(k)fluoranthene		ND
Benzoic acid		ND
Benzyl alcohol		ND
Butylbenzylphthalate		ND
Carbazole		ND
Chrysene		ND
Di-n-butylphthalate		ND
Di-n-octylphthalate		ND
Dibenz(a,h)anthracene		ND
Dibenzofuran		ND
Diethylphthalate		ND
Dimethylphthalate		ND
Fluoranthene		ND
Fluorene	0.56	ND
Hexachloro-1,3-butadiene		ND
Hexachlorobenzene	1	ND
Hexachlorocyclopentadiene	0.45	ND
Hexachloroethane		ND
Indeno(1,2,3-cd)pyrene		ND
Isophorone		ND
N-Nitroso-di-n-propylamine		ND
N-Nitrosodimethylamine		ND
N-Nitrosodiphenylamine		ND

TABLE 12. Surface Water Analytical Results.

	Sample ID	SW-1
	Depth	1'
	Sample Date	8/2/2019
Contaminants	Part 703 Surface Water Class C Aquatic, Chronic Standard (5)	
Naphthalene	13	ND
Nitrobenzene		ND
Pentachlorophenol		ND
Phenanthrene	5	ND
Phenol		ND
Pyrene	4.6	ND
bis(2-Chloroethoxy)methane		ND
bis(2-Chloroethyl) ether		ND
bis(2-Chloroisopropyl) ether		ND
bis(2-Ethylhexyl)phthalate	0.6	0.018
VOCs		
1,1,1-Trichloroethane		ND
1,1,2,2-Tetrachloroethane		ND
1,1-Dichloroethane		ND
1,1-Dichloroethene		ND
1,2,4-Trichlorobenzene		ND
1,2,4-Trimethylbenzene		ND
1,2-Dichlorobenzene		ND
1,2-Dichloroethane		ND
1,2-Dichloroethene (Total)		ND
1,2-Dichloropropane		ND
1,3,5-Trimethylbenzene		ND
1,3-Dichlorobenzene	5	ND
1,4-Dichlorobenzene	5	ND
2-Butanone (MEK)		ND
2-Hexanone		ND
4-Methyl-2-pentanone (MIBK)		ND
Acetone		21.1
Benzene	210	ND
Bromochloromethane		ND
Bromodichloromethane		ND
Bromoform		ND
Bromomethane		ND
Carbon disulfide		ND
Carbon tetrachloride		ND
Chlorobenzene	5	ND
Chloroethane		ND
Chloroform		ND
Chloromethane		ND
Dibromochloromethane		ND
Ethylbenzene	17	ND
Isopropylbenzene (Cumene)	2.6	ND
Methyl-tert-butyl ether		ND
Methylene Chloride		3.4
Naphthalene		ND
Styrene		ND
TOTAL BTEX		ND
Tetrachloroethene		ND

TABLE 12. Surface Water Analytical Results.

	Sample ID	SW-1
	Depth	1'
	Sample Date	8/2/2019
Contaminants	Part 703 Surface Water Class C Aquatic, Chronic Standard (5)	
Toluene	100	ND
Trichloroethene		ND
Vinyl chloride		ND
Xylene (Total)		ND
cis-1,2-Dichloroethene		ND
cis-1,3-Dichloropropene		ND
m&p-Xylene		ND
o-Xylene		ND
trans-1,2-Dichloroethene		ND
trans-1,3-Dichloropropene		ND

Notes:

- (1) All results in ppb
- (2) 'ND' = Not Detected
- (3) Applies to ionic silver
- (4) Applies to dissolved form
- (5) Results exceeding Part 703 Surface Water Class C Standards are in **BLUE**

TABLE 13. Sediment Analytical Results.

	Sample ID	SE-2	SE-3
	Depth BGS	0.17-0.33 ft bgs	0.17-0.33 ft bgs
	Sample Date	8/2/2019	8/2/2019
Contaminants	Class C SGV (3)		
Metals			
Aluminum		15600	12200
Antimony		10.6	ND
Arsenic	33	9.0	8.4
Barium		137	137
Beryllium		0.96	0.71
Boron		ND	ND
Cadmium	5	0.56	0.45
Calcium		4720	8650
Chromium	110	28.8	25.8
Cobalt		14.1	17.6
Copper	150	213	62.6
Iron		32400	29000
Lead	130	547	60.6
Magnesium		6200	6610
Manganese		532	814
Molybdenum		ND	ND
Nickel	49	39.6	35.4
Potassium		2380	1940
Selenium		ND	ND
Silver	2.2	ND	ND
Sodium		ND	ND
Thallium		ND	ND
Vanadium		36.5	27.7
Zinc	460	202	146
Mercury	1	ND	ND
Cyanide		ND	ND
Pesticides			
4,4'-DDD		ND	NA*
4,4'-DDE		ND	NA*
4,4'-DDT	48	ND	NA*
Aldrin		ND	NA*
Dieldrin	0.78	ND	NA*
Endosulfan I	0.02	ND	NA*
Endosulfan II	0.02	ND	NA*
Endosulfan sulfate		ND	NA*
Endrin	0.22	ND	NA*
Endrin aldehyde		ND	NA*
Endrin ketone		0.0071	NA*
Heptachlor	10	ND	NA*
Heptachlor epoxide	2.1	ND	NA*
Methoxychlor		ND	NA*
Toxaphene	0.25	ND	NA*
alpha-BHC		ND	NA*
alpha-Chlordane		0.0039	NA*
beta-BHC		0.0118	NA*
delta-BHC		ND	NA*
gamma-BHC (Lindane)	0.078	ND	NA*
gamma-Chlordane	38	ND	NA*

TABLE 13. Sediment Analytical Results.

	Sample ID	SE-2	SE-3
	Depth BGS	0.17-0.33 ft bgs	0.17-0.33 ft bgs
	Sample Date	8/2/2019	8/2/2019
Contaminants	Class C SGV (3)		
PCBs			
PCB-1016 (Aroclor 1016)		ND	ND
PCB-1221 (Aroclor 1221)		ND	ND
PCB-1232 (Aroclor 1232)		ND	ND
PCB-1242 (Aroclor 1242)		ND	ND
PCB-1248 (Aroclor 1248)		ND	ND
PCB-1254 (Aroclor 1254)		ND	ND
PCB-1260 (Aroclor 1260)		ND	ND
PCB, Total	1	ND	ND
VOCs			
1,1,1-Trichloroethane	3.5	ND	ND
1,1,2,2-Tetrachloroethane	5.4	ND	ND
1,1,2-Trichloroethane	3.5	ND	ND
1,1-Dichloroethane		ND	ND
1,1-Dichloroethene	4.7	ND	ND
1,2,4-Trichlorobenzene		ND	ND
1,2,4-Trimethylbenzene		ND	ND
1,2-Dichlorobenzene	2.5	ND	ND
1,2-Dichloroethane		ND	ND
1,2-Dichloroethene (Total)		ND	ND
1,2-Dichloropropane		ND	ND
1,3,5-Trimethylbenzene		ND	ND
1,3-Dichlorobenzene	7.1	ND	ND
1,4-Dichlorobenzene	3.3	ND	ND
2-Butanone (MEK)		ND	ND
2-Hexanone		ND	ND
4-Methyl-2-pentanone (MIBK)		ND	ND
Acetone		0.126	0.0639
Benzene	1.9	ND	ND
Bromochloromethane		ND	ND
Bromodichloromethane		ND	ND
Bromoform		ND	ND
Bromomethane		ND	ND
Carbon disulfide		ND	0.0168
Carbon tetrachloride	9.6	ND	ND
Chlorobenzene	1.7	ND	ND
Chloroethane		ND	ND
Chloroform		ND	ND
Chloromethane		ND	ND
Dibromochloromethane		ND	ND
Ethylbenzene	3.7	ND	ND
Isopropylbenzene (Cumene)		ND	ND
Methyl-tert-butyl ether		ND	ND
Methylene Chloride		ND	ND
Naphthalene		ND	ND
Styrene		ND	ND
TOTAL BTEX		ND	ND
Tetrachloroethene	57	ND	ND
Toluene	4.5	ND	ND

TABLE 13. Sediment Analytical Results.

	Sample ID	SE-2	SE-3
	Depth BGS	0.17-0.33 ft bgs	0.17-0.33 ft bgs
	Sample Date	8/2/2019	8/2/2019
Contaminants	Class C SGV (3)		
Trichloroethene	8.6	ND	ND
Vinyl chloride		ND	ND
Xylene (Total)	5.2	ND	ND
cis-1,2-Dichloroethene		ND	ND
cis-1,3-Dichloropropene		ND	ND
m&p-Xylene		ND	ND
o-Xylene		ND	ND
trans-1,2-Dichloroethene	11	ND	ND
trans-1,3-Dichloropropene		ND	ND
SVOCs			
1,2,4-Trichlorobenzene	55	ND	ND
1,2-Dichlorobenzene		ND	ND
1,3-Dichlorobenzene		ND	ND
1,4-Dichlorobenzene		ND	ND
1-Methylnaphthalene		ND	ND
2,4,5-Trichlorophenol		ND	ND
2,4,6-Trichlorophenol		ND	ND
2,4-Dichlorophenol		ND	ND
2,4-Dimethylphenol		ND	ND
2,4-Dinitrophenol		ND	ND
2,4-Dinitrotoluene		ND	ND
2,6-Dinitrotoluene		ND	ND
2-Chloronaphthalene		ND	ND
2-Chlorophenol		ND	ND
2-Methylnaphthalene		ND	ND
2-Methylphenol(o-Cresol)		ND	ND
2-Nitroaniline		ND	ND
2-Nitrophenol		ND	ND
3&4-Methylphenol(m&p Cresol)		ND	ND
3,3'-Dichlorobenzidine		ND	ND
3-Nitroaniline		ND	ND
4,6-Dinitro-2-methylphenol		ND	ND
4-Bromophenylphenyl ether		ND	ND
4-Chloro-3-methylphenol		ND	ND
4-Chloroaniline		ND	ND
4-Chlorophenylphenyl ether		ND	ND
4-Nitroaniline		ND	ND
4-Nitrophenol		ND	ND
Acenaphthene		ND	ND
Acenaphthylene		ND	ND
Anthracene		ND	ND
Azobenzene		ND	ND
Benzo(a)anthracene		ND	ND
Benzo(a)pyrene		ND	ND
Benzo(b)fluoranthene		ND	ND
Benzo(g,h,i)perylene		ND	ND
Benzo(k)fluoranthene		ND	ND
Benzoic acid		ND	ND
Benzyl alcohol		ND	ND

TABLE 13. Sediment Analytical Results.

	Sample ID	SE-2	SE-3
	Depth BGS	0.17-0.33 ft bgs	0.17-0.33 ft bgs
	Sample Date	8/2/2019	8/2/2019
Contaminants	Class C SGV (3)		
Butylbenzylphthalate		6.04	ND
Carbazole		ND	ND
Chrysene		ND	ND
Di-n-butylphthalate		ND	ND
Di-n-octylphthalate		ND	ND
Dibenz(a,h)anthracene		ND	ND
Dibenzofuran		ND	ND
Diethylphthalate		ND	ND
Dimethylphthalate		ND	ND
Fluoranthene		ND	0.462
Fluorene		ND	ND
Hexachloro-1,3-butadiene	12	ND	ND
Hexachlorobenzene		ND	ND
Hexachlorocyclopentadiene	8.1	ND	ND
Hexachloroethane		ND	ND
Indeno(1,2,3-cd)pyrene		ND	ND
Isophorone		ND	ND
N-Nitroso-di-n-propylamine		ND	ND
N-Nitrosodimethylamine		ND	ND
N-Nitrosodiphenylamine		ND	ND
Naphthalene		ND	ND
Nitrobenzene		ND	ND
Pentachlorophenol		ND	ND
Phenanthrene		ND	ND
Phenol	19	ND	ND
Pyrene		ND	ND
bis(2-Chloroethoxy)methane		ND	ND
bis(2-Chloroethyl) ether		ND	ND
bis(2-Chloroisopropyl) ether		ND	ND
bis(2-Ethylhexyl)phthalate		ND	ND

Notes:

- (1) All results are in ppm
- (2) 'ND' = Not Detected
- (3) Results exceeding Class C SGVs are **BROWN**

Appendix E

Laboratory Analytical Reports



349 Northern Boulevard Suite 3 • Albany, NY 12204 • Phone: 518.453.2203 • Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

August 09, 2019

Ms. Rachel Farnum
Envirospec Engineering
349 Northern Blvd #3
Albany, NY 12204

RE: Project: TP/GW
Pace Project No.: 30317042

Dear Ms. Farnum:

Enclosed are the analytical results for sample(s) received by the laboratory on July 31, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

cc: Ms. Sheri Roberts, Couch White
Mr. Adam Schultz, Couch White



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: TP/GW
Pace Project No.: 30317042

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: TP/GW
Pace Project No.: 30317042

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30317042001	TP-12	Solid	07/30/19 08:35	07/31/19 09:20
30317042002	GW-01	Water	07/30/19 08:35	07/31/19 09:20
30317042003	TP-13	Solid	07/30/19 09:10	07/31/19 09:20
30317042004	TP-14	Solid	07/30/19 09:25	07/31/19 09:20
30317042005	TP-23	Solid	07/30/19 09:50	07/31/19 09:20
30317042006	TP-22	Solid	07/30/19 10:20	07/31/19 09:20
30317042007	GW-03	Water	07/30/19 10:20	07/31/19 09:20
30317042008	TP-15	Solid	07/30/19 10:55	07/31/19 09:20
30317042009	GW-09	Water	07/30/19 10:55	07/31/19 09:20
30317042010	TP-16	Solid	07/30/19 11:45	07/31/19 09:20
30317042011	TP-24	Solid	07/30/19 12:20	07/31/19 09:20
30317042012	TP-17	Solid	07/30/19 12:40	07/31/19 09:20
30317042013	TP-18	Solid	07/30/19 12:55	07/31/19 09:20
30317042014	TP-20	Solid	07/30/19 13:30	07/31/19 09:20
30317042015	TP-21	Solid	07/30/19 13:55	07/31/19 09:20
30317042016	TP-19	Solid	07/30/19 14:15	07/31/19 09:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TP/GW
Pace Project No.: 30317042

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30317042001	TP-12	EPA 8081B	TAW	23
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
30317042002	GW-01	EPA 8081B	TAW	23
		EPA 8082A	CWB	9
		EPA 6010C	CTS	24
		EPA 6010C	CTS	24
		EPA 7470A	CTS	1
		EPA 7470A	KAS	1
		EPA 8270D	SJG	75
		EPA 8260C	JAS	52
30317042003	TP-13	SM 4500CNE-2011	CMR	1
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
30317042004	TP-14	EPA 8081B	TAW	23
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
30317042005	TP-23	EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TP/GW
Pace Project No.: 30317042

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30317042006	TP-22	ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52
30317042007	GW-03	ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
		EPA 8081B	TAW	23
		EPA 8082A	CWB	9
		EPA 6010C	CTS	24
		EPA 6010C	CTS	24
		EPA 7470A	CTS	1
		EPA 7470A	KAS	1
30317042008	TP-15	EPA 8270D	SJG	75
		EPA 8260C	JAS	52
		SM 4500CNE-2011	CMR	1
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
30317042009	GW-09	EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
30317042010	TP-16	EPA 8270D	SJG	75
		EPA 8260C	JAS	52
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52
30317042011	TP-24	ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TP/GW
Pace Project No.: 30317042

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30317042012	TP-17	EPA 8270D	EAC	75
		EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52
30317042013	TP-18	ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
		EPA 8081B	TAW	23
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
30317042014	TP-20	EPA 9014 Total CN	CMR	1
		EPA 8081B	TAW	23
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	ARG, JEW	52
		ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
30317042015	TP-21	EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52
		EPA 9014 Total CN	CMR	1
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
30317042016	TP-19	EPA 8270D	EAC	75
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1

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SAMPLE ANALYTE COUNT

Project: TP/GW
Pace Project No.: 30317042

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8081B
Description: 8081B GCS Pesticides
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

4 samples were analyzed for EPA 8081B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

- ED: Due to the extract's physical characteristics, the analysis was performed at dilution.
- TP-20 (Lab ID: 30317042014)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 354928

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

- BLANK (Lab ID: 1724101)
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)
- LCS (Lab ID: 1724102)
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)
- MS (Lab ID: 1724103)
 - Decachlorobiphenyl (S)
- MSD (Lab ID: 1724104)
 - Decachlorobiphenyl (S)
- TP-12 (Lab ID: 30317042001)
 - Decachlorobiphenyl (S)
- TP-14 (Lab ID: 30317042004)
 - Tetrachloro-m-xylene (S)
- TP-20 (Lab ID: 30317042014)
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8081B
Description: 8081B GCS Pesticides
Client: Envirospec Engineering
Date: August 09, 2019

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 354928

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 1724102)
 - Endrin ketone

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 354928

C2: Relative percent difference between results from each column was greater than 40%. The lower of the two results was reported.

- TP-14 (Lab ID: 30317042004)
 - beta-BHC

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- BLANK (Lab ID: 1724101)
 - Decachlorobiphenyl (S)
- LCS (Lab ID: 1724102)
 - Decachlorobiphenyl (S)
- MS (Lab ID: 1724103)
 - Decachlorobiphenyl (S)
- MSD (Lab ID: 1724104)
 - Decachlorobiphenyl (S)
- TP-12 (Lab ID: 30317042001)
 - Decachlorobiphenyl (S)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8081B
Description: 8081B Organochlorine Pesticide
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

2 samples were analyzed for EPA 8081B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 354923

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1724087)
 - Endrin ketone
 - Tetrachloro-m-xylene (S)
 - alpha-BHC
 - beta-BHC
 - gamma-BHC (Lindane)
- GW-01 (Lab ID: 30317042002)
 - Endrin ketone
 - Tetrachloro-m-xylene (S)
 - alpha-BHC
 - beta-BHC
 - gamma-BHC (Lindane)
- GW-03 (Lab ID: 30317042007)
 - Endrin ketone
 - Tetrachloro-m-xylene (S)
 - alpha-BHC
 - gamma-BHC (Lindane)
- LCS (Lab ID: 1724088)
 - Endrin ketone
 - Tetrachloro-m-xylene (S)
 - alpha-BHC
 - beta-BHC
 - gamma-BHC (Lindane)

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8081B
Description: 8081B Organochlorine Pesticide
Client: EnviroSpec Engineering
Date: August 09, 2019

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 354923

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 354923

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- GW-01 (Lab ID: 30317042002)
 - 4,4'-DDD
 - 4,4'-DDE
 - 4,4'-DDT
 - Aldrin
 - alpha-BHC
 - beta-BHC
 - delta-BHC
 - gamma-BHC (Lindane)
 - alpha-Chlordane
 - gamma-Chlordane
 - Dieldrin
 - Endosulfan I
 - Endosulfan II
 - Endrin aldehyde
 - Endrin ketone
 - Endrin
 - Endosulfan sulfate
 - Heptachlor
 - Heptachlor epoxide
 - Methoxychlor
 - Toxaphene
- GW-03 (Lab ID: 30317042007)
 - 4,4'-DDD
 - 4,4'-DDE
 - 4,4'-DDT
 - Aldrin
 - alpha-BHC

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8081B
Description: 8081B Organochlorine Pesticide
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 354923

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- GW-03 (Lab ID: 30317042007)
 - beta-BHC
 - delta-BHC
 - gamma-BHC (Lindane)
 - alpha-Chlordane
 - gamma-Chlordane
 - Dieldrin
 - Endosulfan I
 - Endosulfan II
 - Endrin aldehyde
 - Endrin ketone
 - Endrin
 - Endosulfan sulfate
 - Heptachlor
 - Heptachlor epoxide
 - Methoxychlor
 - Toxaphene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8082A
Description: 8082A GCS PCB
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

15 samples were analyzed for EPA 8082A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

ED: Due to the extract's physical characteristics, the analysis was performed at dilution.

- TP-15 (Lab ID: 30317042008)
- TP-16 (Lab ID: 30317042010)
- TP-20 (Lab ID: 30317042014)
- TP-22 (Lab ID: 30317042006)
- TP-23 (Lab ID: 30317042005)
- TP-24 (Lab ID: 30317042011)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 354924

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 354930

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317042016

R1: RPD value was outside control limits.

- MSD (Lab ID: 1724108)
- PCB-1016 (Aroclor 1016)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8082A
Description: 8082A GCS PCB
Client: Envirospec Engineering
Date: August 09, 2019

Additional Comments:

Analyte Comments:

QC Batch: 354924

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- GW-01 (Lab ID: 30317042002)
 - PCB-1016 (Aroclor 1016)
 - PCB-1221 (Aroclor 1221)
 - PCB-1232 (Aroclor 1232)
 - PCB-1242 (Aroclor 1242)
 - PCB-1248 (Aroclor 1248)
 - PCB-1254 (Aroclor 1254)
 - PCB-1260 (Aroclor 1260)
- GW-03 (Lab ID: 30317042007)
 - PCB-1016 (Aroclor 1016)
 - PCB-1221 (Aroclor 1221)
 - PCB-1232 (Aroclor 1232)
 - PCB-1242 (Aroclor 1242)
 - PCB-1248 (Aroclor 1248)
 - PCB-1254 (Aroclor 1254)
 - PCB-1260 (Aroclor 1260)

QC Batch: 354930

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MSD (Lab ID: 1724108)
 - PCB-1016 (Aroclor 1016)
- TP-13 (Lab ID: 30317042003)
 - Decachlorobiphenyl (S)
- TP-14 (Lab ID: 30317042004)
 - Decachlorobiphenyl (S)
- TP-18 (Lab ID: 30317042013)
 - Decachlorobiphenyl (S)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 6010C
Description: 6010C MET ICP
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

15 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 354893

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317042002

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 1723981)
 - Calcium
 - Magnesium
 - Sodium
- MSD (Lab ID: 1723982)
 - Calcium
 - Magnesium
 - Sodium

QC Batch: 355018

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317042001

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 1724887)
 - Aluminum
 - Calcium

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 6010C
Description: 6010C MET ICP
Client: Envirospec Engineering
Date: August 09, 2019

QC Batch: 355018

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317042001

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- Manganese
- Potassium
- MSD (Lab ID: 1724888)
 - Aluminum

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1724887)
 - Antimony
 - Iron
- MSD (Lab ID: 1724888)
 - Antimony
 - Arsenic
 - Boron
 - Calcium
 - Iron
 - Magnesium
 - Manganese

R1: RPD value was outside control limits.

- MSD (Lab ID: 1724888)
 - Calcium
 - Manganese

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 354893

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1723980)
 - Copper

Additional Comments:

Analyte Comments:

QC Batch: 354893

1c: The PDS recovery was outside of the laboratory control limits. Result may be biased high.

- GW-01 (Lab ID: 30317042002)
 - Calcium
 - Magnesium
 - Sodium

8c: The precision between the sample and serial dilution exceeded laboratory control limits.

- GW-01 (Lab ID: 30317042002)
 - Aluminum

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 6010C
Description: 6010C MET ICP
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 354893

8c: The precision between the sample and serial dilution exceeded laboratory control limits.

- GW-01 (Lab ID: 30317042002)
 - Calcium
 - Iron
 - Magnesium
 - Manganese

QC Batch: 355018

6c: The PDS recovery was outside of the laboratory control limits. Result may be biased low.

- TP-12 (Lab ID: 30317042001)
 - Aluminum
 - Arsenic
 - Boron
 - Barium
 - Beryllium
 - Calcium
 - Chromium
 - Copper
 - Iron
 - Potassium
 - Magnesium
 - Manganese
 - Sodium
 - Nickel
 - Antimony
 - Selenium
 - Thallium
 - Zinc

8c: The precision between the sample and serial dilution exceeded laboratory control limits.

- TP-12 (Lab ID: 30317042001)
 - Aluminum
 - Arsenic
 - Barium
 - Beryllium
 - Calcium
 - Cobalt
 - Chromium
 - Copper
 - Iron
 - Potassium
 - Magnesium
 - Manganese
 - Nickel
 - Lead

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 6010C
Description: 6010C MET ICP
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355018

8c: The precision between the sample and serial dilution exceeded laboratory control limits.

- TP-12 (Lab ID: 30317042001)
 - Vanadium
 - Zinc

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 6010C
Description: 6010C MET ICP, Lab Filtered
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

2 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355170

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317042002

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1725285)
 - Calcium, Dissolved
- MSD (Lab ID: 1725286)
 - Calcium, Dissolved
 - Magnesium, Dissolved
 - Sodium, Dissolved

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 6010C
Description: 6010C MET ICP, Lab Filtered
Client: EnviroSpec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355170

6c: The PDS recovery was outside of the laboratory control limits. Result may be biased low.

- GW-01 (Lab ID: 30317042002)
 - Calcium, Dissolved

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 7470A
Description: 7470 Mercury
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

2 samples were analyzed for EPA 7470A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 354938

5c: The PDS recovery was outside of the laboratory control limits. Result may be biased high.

- GW-03 (Lab ID: 30317042007)
 - Mercury

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 7470A
Description: 7470 Mercury, Lab Filtered
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

2 samples were analyzed for EPA 7470A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 355198

4c: The PDS recovery was outside of the laboratory control limits. Result may be biased high

- GW-03 (Lab ID: 30317042007)
- Mercury, Dissolved

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 7471B
Description: 7471B Mercury
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

13 samples were analyzed for EPA 7471B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8270D
Description: 8270D MSSV Microwave
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

13 samples were analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

ED: Due to the extract's physical characteristics, the analysis was performed at dilution.

- TP-19 (Lab ID: 30317042016)

ip: Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 Method 8270D. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

- TP-17 (Lab ID: 30317042012)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 354888

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1723938)
 - Benzoic acid
 - N-Nitrosodimethylamine
- LCS (Lab ID: 1723939)
 - Benzoic acid
 - N-Nitrosodimethylamine
- MS (Lab ID: 1723940)
 - Benzoic acid
 - N-Nitrosodimethylamine
- MSD (Lab ID: 1723941)
 - Benzoic acid
 - N-Nitrosodimethylamine
- TP-12 (Lab ID: 30317042001)
 - Benzoic acid
 - N-Nitrosodimethylamine
- TP-13 (Lab ID: 30317042003)
 - Benzoic acid
 - N-Nitrosodimethylamine
- TP-14 (Lab ID: 30317042004)
 - Benzoic acid

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8270D
Description: 8270D MSSV Microwave
Client: Envirospec Engineering
Date: August 09, 2019

QC Batch: 354888

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- N-Nitrosodimethylamine
- TP-15 (Lab ID: 30317042008)
 - Benzoic acid
 - N-Nitrosodimethylamine
- TP-16 (Lab ID: 30317042010)
 - Benzoic acid
 - N-Nitrosodimethylamine
- TP-17 (Lab ID: 30317042012)
 - Benzoic acid
 - N-Nitrosodimethylamine
- TP-18 (Lab ID: 30317042013)
 - Benzoic acid
 - N-Nitrosodimethylamine
- TP-19 (Lab ID: 30317042016)
 - Benzoic acid
 - N-Nitrosodimethylamine
- TP-20 (Lab ID: 30317042014)
 - Benzoic acid
 - N-Nitrosodimethylamine
- TP-21 (Lab ID: 30317042015)
 - Benzoic acid
 - N-Nitrosodimethylamine
- TP-22 (Lab ID: 30317042006)
 - Benzoic acid
 - N-Nitrosodimethylamine
- TP-23 (Lab ID: 30317042005)
 - Benzoic acid
 - N-Nitrosodimethylamine
- TP-24 (Lab ID: 30317042011)
 - Benzoic acid
 - N-Nitrosodimethylamine

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 354888

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

- TP-15 (Lab ID: 30317042008)
 - 2-Fluorobiphenyl (S)
 - Nitrobenzene-d5 (S)

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8270D
Description: 8270D MSSV Microwave
Client: Envirospec Engineering
Date: August 09, 2019

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 354888

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 1723939)
 - 1-Methylnaphthalene
 - 2,4-Dimethylphenol
 - 4-Chloroaniline
 - Isophorone
 - N-Nitrosodimethylamine

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 354888

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317042001

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 1723940)
 - 1-Methylnaphthalene
 - 2,4-Dimethylphenol
 - 2-Methylnaphthalene
 - 4-Chloro-3-methylphenol
 - 4-Chloroaniline
 - Isophorone
 - N-Nitrosodimethylamine
 - bis(2-Chloroethoxy)methane
- MSD (Lab ID: 1723941)
 - 4-Chloroaniline
 - Isophorone
 - N-Nitrosodimethylamine

R1: RPD value was outside control limits.

- MSD (Lab ID: 1723941)
 - Dimethylphthalate

Additional Comments:

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8270D
Description: 8270D MSSV Microwave
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 354888

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 1723938)
 - Azobenzene
- LCS (Lab ID: 1723939)
 - Azobenzene
- MS (Lab ID: 1723940)
 - Azobenzene
- MSD (Lab ID: 1723941)
 - Azobenzene
- TP-12 (Lab ID: 30317042001)
 - Azobenzene
- TP-13 (Lab ID: 30317042003)
 - Azobenzene
- TP-14 (Lab ID: 30317042004)
 - Azobenzene
- TP-15 (Lab ID: 30317042008)
 - Azobenzene
- TP-16 (Lab ID: 30317042010)
 - Azobenzene
- TP-17 (Lab ID: 30317042012)
 - Azobenzene
- TP-18 (Lab ID: 30317042013)
 - Azobenzene
- TP-19 (Lab ID: 30317042016)
 - Azobenzene
- TP-20 (Lab ID: 30317042014)
 - Azobenzene
- TP-21 (Lab ID: 30317042015)
 - Azobenzene
- TP-22 (Lab ID: 30317042006)
 - Azobenzene
- TP-23 (Lab ID: 30317042005)
 - Azobenzene
- TP-24 (Lab ID: 30317042011)
 - Azobenzene

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8270D
Description: 8270D MSSV Organics
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

3 samples were analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

QC Batch: 354917

IS: The internal standard response is below criteria. Results may be biased high.

- GW-09 (Lab ID: 30317042009)
 - Benzo(a)pyrene
 - Benzo(b)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(k)fluoranthene
 - Di-n-octylphthalate
 - Dibenz(a,h)anthracene
 - Indeno(1,2,3-cd)pyrene

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 354917

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 1724054)
 - Di-n-octylphthalate

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8270D
Description: 8270D MSSV Organics
Client: Envirospec Engineering
Date: August 09, 2019

QC Batch: 354917

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 1724054)
 - Benzo(g,h,i)perylene
 - Dibenz(a,h)anthracene
 - Indeno(1,2,3-cd)pyrene

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 354917

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 354917

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- GW-01 (Lab ID: 30317042002)
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,4-Dichlorobenzene
 - 1-Methylnaphthalene
 - 2,4,6-Trichlorophenol
 - 2,4-Dichlorophenol
 - 2,4-Dimethylphenol
 - 2,4-Dinitrophenol
 - 2,4-Dinitrotoluene
 - 2,4,5-Trichlorophenol
 - 2,6-Dinitrotoluene
 - 2-Chloronaphthalene
 - 2-Chlorophenol
 - 2-Methylphenol(o-Cresol)
 - 2-Methylnaphthalene
 - 2-Nitroaniline
 - 2-Nitrophenol
 - 3,3'-Dichlorobenzidine
 - 3&4-Methylphenol(m&p Cresol)
 - 3-Nitroaniline
 - 4,6-Dinitro-2-methylphenol
 - 4-Bromophenylphenyl ether
 - 4-Chloro-3-methylphenol
 - 4-Chloroaniline
 - 4-Chlorophenylphenyl ether

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8270D
Description: 8270D MSSV Organics
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 354917

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- GW-01 (Lab ID: 30317042002)
 - 4-Nitroaniline
 - 4-Nitrophenol
 - Acenaphthene
 - Acenaphthylene
 - Anthracene
 - Azobenzene
 - Butylbenzylphthalate
 - Benzoic acid
 - Benzyl alcohol
 - Benzo(k)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(a)anthracene
 - Benzo(b)fluoranthene
 - Benzo(a)pyrene
 - bis(2-Chloroethoxy)methane
 - bis(2-Chloroethyl) ether
 - bis(2-Chloroisopropyl) ether
 - bis(2-Ethylhexyl)phthalate
 - Carbazole
 - Chrysene
 - Dibenz(a,h)anthracene
 - Dibenzofuran
 - Dimethylphthalate
 - Di-n-butylphthalate
 - Di-n-octylphthalate
 - Diethylphthalate
 - Fluorene
 - Fluoranthene
 - Hexachloro-1,3-butadiene
 - Hexachlorobenzene
 - Hexachlorocyclopentadiene
 - Hexachloroethane
 - Indeno(1,2,3-cd)pyrene
 - Isophorone
 - Naphthalene
 - N-Nitroso-di-n-propylamine
 - Nitrobenzene
 - N-Nitrosodimethylamine
 - N-Nitrosodiphenylamine
 - Phenol
 - Phenanthrene
 - Pentachlorophenol

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8270D
Description: 8270D MSSV Organics
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 354917

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- GW-01 (Lab ID: 30317042002)
 - Pyrene
- GW-03 (Lab ID: 30317042007)
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,4-Dichlorobenzene
 - 1-Methylnaphthalene
 - 2,4,6-Trichlorophenol
 - 2,4-Dichlorophenol
 - 2,4-Dimethylphenol
 - 2,4-Dinitrophenol
 - 2,4-Dinitrotoluene
 - 2,4,5-Trichlorophenol
 - 2,6-Dinitrotoluene
 - 2-Chloronaphthalene
 - 2-Chlorophenol
 - 2-Methylphenol(o-Cresol)
 - 2-Methylnaphthalene
 - 2-Nitroaniline
 - 2-Nitrophenol
 - 3,3'-Dichlorobenzidine
 - 3&4-Methylphenol(m&p Cresol)
 - 3-Nitroaniline
 - 4,6-Dinitro-2-methylphenol
 - 4-Bromophenylphenyl ether
 - 4-Chloro-3-methylphenol
 - 4-Chloroaniline
 - 4-Chlorophenylphenyl ether
 - 4-Nitroaniline
 - 4-Nitrophenol
 - Acenaphthene
 - Acenaphthylene
 - Anthracene
 - Azobenzene
 - Butylbenzylphthalate
 - Benzoic acid
 - Benzyl alcohol
 - Benzo(k)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(a)anthracene
 - Benzo(b)fluoranthene
 - Benzo(a)pyrene

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8270D
Description: 8270D MSSV Organics
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 354917

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- GW-03 (Lab ID: 30317042007)
 - bis(2-Chloroethoxy)methane
 - bis(2-Chloroethyl) ether
 - bis(2-Chloroisopropyl) ether
 - bis(2-Ethylhexyl)phthalate
 - Carbazole
 - Chrysene
 - Dibenz(a,h)anthracene
 - Dibenzofuran
 - Dimethylphthalate
 - Di-n-butylphthalate
 - Di-n-octylphthalate
 - Diethylphthalate
 - Fluorene
 - Fluoranthene
 - Hexachloro-1,3-butadiene
 - Hexachlorobenzene
 - Hexachlorocyclopentadiene
 - Hexachloroethane
 - Indeno(1,2,3-cd)pyrene
 - Isophorone
 - Naphthalene
 - N-Nitroso-di-n-propylamine
 - Nitrobenzene
 - N-Nitrosodimethylamine
 - N-Nitrosodiphenylamine
 - Phenol
 - Phenanthrene
 - Pentachlorophenol
 - Pyrene
- GW-09 (Lab ID: 30317042009)
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,3-Dichlorobenzene
 - 1,4-Dichlorobenzene
 - 1-Methylnaphthalene
 - 2,4,6-Trichlorophenol
 - 2,4-Dichlorophenol
 - 2,4-Dimethylphenol
 - 2,4-Dinitrophenol
 - 2,4-Dinitrotoluene
 - 2,4,5-Trichlorophenol
 - 2,6-Dinitrotoluene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8270D
Description: 8270D MSSV Organics
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 354917

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- GW-09 (Lab ID: 30317042009)
 - 2-Chloronaphthalene
 - 2-Chlorophenol
 - 2-Methylphenol(o-Cresol)
 - 2-Methylnaphthalene
 - 2-Nitroaniline
 - 2-Nitrophenol
 - 3,3'-Dichlorobenzidine
 - 3&4-Methylphenol(m&p Cresol)
 - 3-Nitroaniline
 - 4,6-Dinitro-2-methylphenol
 - 4-Bromophenylphenyl ether
 - 4-Chloro-3-methylphenol
 - 4-Chloroaniline
 - 4-Chlorophenylphenyl ether
 - 4-Nitroaniline
 - 4-Nitrophenol
 - Acenaphthene
 - Acenaphthylene
 - Anthracene
 - Azobenzene
 - Butylbenzylphthalate
 - Benzoic acid
 - Benzyl alcohol
 - Benzo(k)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(a)anthracene
 - Benzo(b)fluoranthene
 - Benzo(a)pyrene
 - bis(2-Chloroethoxy)methane
 - bis(2-Chloroethyl) ether
 - bis(2-Chloroisopropyl) ether
 - bis(2-Ethylhexyl)phthalate
 - Carbazole
 - Chrysene
 - Dibenz(a,h)anthracene
 - Dibenzofuran
 - Dimethylphthalate
 - Di-n-butylphthalate
 - Di-n-octylphthalate
 - Diethylphthalate
 - Fluorene
 - Fluoranthene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8270D
Description: 8270D MSSV Organics
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 354917

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- GW-09 (Lab ID: 30317042009)
 - Hexachloro-1,3-butadiene
 - Hexachlorobenzene
 - Hexachlorocyclopentadiene
 - Hexachloroethane
 - Indeno(1,2,3-cd)pyrene
 - Isophorone
 - Naphthalene
 - N-Nitroso-di-n-propylamine
 - Nitrobenzene
 - N-Nitrosodimethylamine
 - N-Nitrosodiphenylamine
 - Phenol
 - Phenanthrene
 - Pentachlorophenol
 - Pyrene

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 1724053)
 - Azobenzene
- GW-01 (Lab ID: 30317042002)
 - Azobenzene
- GW-03 (Lab ID: 30317042007)
 - Azobenzene
- GW-09 (Lab ID: 30317042009)
 - Azobenzene
- LCS (Lab ID: 1724054)
 - Azobenzene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

13 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 355562

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1726931)
 - Bromomethane
 - Carbon tetrachloride
- LCS (Lab ID: 1726932)
 - Bromomethane
 - Carbon tetrachloride
- TP-12 (Lab ID: 30317042001)
 - Bromomethane
 - Carbon tetrachloride
- TP-13 (Lab ID: 30317042003)
 - Bromomethane
 - Carbon tetrachloride
- TP-14 (Lab ID: 30317042004)
 - Bromomethane
 - Carbon tetrachloride
- TP-15 (Lab ID: 30317042008)
 - Bromomethane
 - Carbon tetrachloride
- TP-16 (Lab ID: 30317042010)
 - Bromomethane
 - Carbon tetrachloride
- TP-17 (Lab ID: 30317042012)
 - Bromomethane
 - Carbon tetrachloride
- TP-18 (Lab ID: 30317042013)
 - Bromomethane
 - Carbon tetrachloride

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

QC Batch: 355562

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- TP-20 (Lab ID: 30317042014)
 - Bromomethane
 - Carbon tetrachloride
- TP-21 (Lab ID: 30317042015)
 - Bromomethane
 - Carbon tetrachloride
- TP-22 (Lab ID: 30317042006)
 - Bromomethane
 - Carbon tetrachloride
- TP-23 (Lab ID: 30317042005)
 - Bromomethane
 - Carbon tetrachloride
- TP-24 (Lab ID: 30317042011)
 - Bromomethane
 - Carbon tetrachloride

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 355562

SR: Surrogate recovery was below laboratory control limits. Results may be biased low.

- TP-20 (Lab ID: 30317042014)
 - 4-Bromofluorobenzene (S)
- TP-23 (Lab ID: 30317042005)
 - 4-Bromofluorobenzene (S)

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

- TP-20 (Lab ID: 30317042014)
 - Toluene-d8 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355562

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

QC Batch: 355751

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-12 (Lab ID: 30317042001)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-12 (Lab ID: 30317042001)
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- TP-13 (Lab ID: 30317042003)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-13 (Lab ID: 30317042003)
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- TP-14 (Lab ID: 30317042004)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-14 (Lab ID: 30317042004)
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- TP-15 (Lab ID: 30317042008)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-15 (Lab ID: 30317042008)
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- TP-16 (Lab ID: 30317042010)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-16 (Lab ID: 30317042010)
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- TP-17 (Lab ID: 30317042012)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-17 (Lab ID: 30317042012)
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- TP-18 (Lab ID: 30317042013)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-18 (Lab ID: 30317042013)
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- TP-19 (Lab ID: 30317042016)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-19 (Lab ID: 30317042016)
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- TP-20 (Lab ID: 30317042014)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-20 (Lab ID: 30317042014)
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- TP-21 (Lab ID: 30317042015)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-21 (Lab ID: 30317042015)
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-21 (Lab ID: 30317042015)
 - Vinyl chloride
- TP-22 (Lab ID: 30317042006)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-22 (Lab ID: 30317042006)
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- TP-23 (Lab ID: 30317042005)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-23 (Lab ID: 30317042005)
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- TP-24 (Lab ID: 30317042011)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-24 (Lab ID: 30317042011)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride

3c: RF below method recommended limit.

- BLANK (Lab ID: 1726931)
 - 2-Butanone (MEK)
 - Acetone
- LCS (Lab ID: 1726932)
 - 2-Butanone (MEK)
 - Acetone
- TP-12 (Lab ID: 30317042001)
 - 2-Butanone (MEK)
 - Acetone
- TP-13 (Lab ID: 30317042003)
 - 2-Butanone (MEK)
 - Acetone
- TP-14 (Lab ID: 30317042004)
 - 2-Butanone (MEK)
 - Acetone
- TP-15 (Lab ID: 30317042008)
 - 2-Butanone (MEK)
 - Acetone
- TP-16 (Lab ID: 30317042010)
 - 2-Butanone (MEK)
 - Acetone
- TP-17 (Lab ID: 30317042012)
 - 2-Butanone (MEK)
 - Acetone
- TP-18 (Lab ID: 30317042013)
 - 2-Butanone (MEK)
 - Acetone

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355562

3c: RF below method recommended limit.

- TP-20 (Lab ID: 30317042014)
 - 2-Butanone (MEK)
 - Acetone
- TP-21 (Lab ID: 30317042015)
 - 2-Butanone (MEK)
 - Acetone
- TP-22 (Lab ID: 30317042006)
 - 2-Butanone (MEK)
 - Acetone
- TP-23 (Lab ID: 30317042005)
 - 2-Butanone (MEK)
 - Acetone
- TP-24 (Lab ID: 30317042011)
 - 2-Butanone (MEK)
 - Acetone

QC Batch: 355751

2c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- TP-20 (Lab ID: 30317042014)
 - 1,2,4-Trimethylbenzene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

3 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 355058

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1724991)
 - Chloroethane
- GW-01 (Lab ID: 30317042002)
 - Chloroethane
- GW-03 (Lab ID: 30317042007)
 - Chloroethane
- GW-09 (Lab ID: 30317042009)
 - Chloroethane
- LCS (Lab ID: 1724992)
 - Chloroethane
- MS (Lab ID: 1725361)
 - Chloroethane
- MSD (Lab ID: 1725362)
 - Chloroethane

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1724991)
 - Acetone
 - Bromomethane
- GW-01 (Lab ID: 30317042002)
 - Acetone
 - Bromomethane
- GW-03 (Lab ID: 30317042007)
 - Acetone
 - Bromomethane
- GW-09 (Lab ID: 30317042009)
 - Acetone
 - Bromomethane
- LCS (Lab ID: 1724992)
 - Acetone
 - Bromomethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV
Client: Envirospec Engineering
Date: August 09, 2019

QC Batch: 355058

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- MS (Lab ID: 1725361)
 - Acetone
 - Bromomethane
- MSD (Lab ID: 1725362)
 - Acetone
 - Bromomethane

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 355058

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 1724992)
 - Chloromethane

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355058

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317042002

R1: RPD value was outside control limits.

- MSD (Lab ID: 1725362)
 - Acetone

Additional Comments:

Analyte Comments:

QC Batch: 355058

7c: The minimum RF was not met for this compound in the CCV.

- BLANK (Lab ID: 1724991)
 - Bromomethane
- GW-01 (Lab ID: 30317042002)
 - Bromomethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 8260C
Description: 8260C MSV
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355058

7c: The minimum RF was not met for this compound in the CCV.

- GW-03 (Lab ID: 30317042007)
 - Bromomethane
- GW-09 (Lab ID: 30317042009)
 - Bromomethane
- LCS (Lab ID: 1724992)
 - Bromomethane
- MS (Lab ID: 1725361)
 - Bromomethane
- MSD (Lab ID: 1725362)
 - Bromomethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: SM 4500CNE-2011
Description: 4500CNE Cyanide, Total
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

2 samples were analyzed for SM 4500CNE-2011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with SM 4500CNC-2011 with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355102

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30315791001,30316328005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1725099)
 - Cyanide
- MS (Lab ID: 1725101)
 - Cyanide
- MSD (Lab ID: 1725100)
 - Cyanide
- MSD (Lab ID: 1725102)
 - Cyanide

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1725099)
 - Cyanide
- MS (Lab ID: 1725101)
 - Cyanide
- MSD (Lab ID: 1725100)
 - Cyanide
- MSD (Lab ID: 1725102)
 - Cyanide

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 9014 Total CN
Description: 9014 Cyanide, Total
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

13 samples were analyzed for EPA 9014 Total CN. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 9010C with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355101

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317042001,30317042014

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1725091)
 - Cyanide
- MSD (Lab ID: 1725092)
 - Cyanide
- MSD (Lab ID: 1725094)
 - Cyanide

R1: RPD value was outside control limits.

- MSD (Lab ID: 1725092)
 - Cyanide
- MSD (Lab ID: 1725094)
 - Cyanide

Additional Comments:

Analyte Comments:

QC Batch: 355101

- MS (Lab ID: 1725091)
 - Cyanide
- MSD (Lab ID: 1725092)
 - Cyanide

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TP/GW
Pace Project No.: 30317042

Method: EPA 9014 Total CN
Description: 9014 Cyanide, Total
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355101

- MSD (Lab ID: 1725094)
 - Cyanide
- TP-12 (Lab ID: 30317042001)
 - Cyanide
- TP-20 (Lab ID: 30317042014)
 - Cyanide

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-12 **Lab ID: 30317042001** Collected: 07/30/19 08:35 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides									
Analytical Method: EPA 8081B Preparation Method: EPA 3546									
Aldrin	ND	ug/kg	1.8	0.33	1	08/05/19 08:14	08/08/19 13:33	309-00-2	
alpha-BHC	ND	ug/kg	1.8	0.36	1	08/05/19 08:14	08/08/19 13:33	319-84-6	
beta-BHC	ND	ug/kg	1.8	1.3	1	08/05/19 08:14	08/08/19 13:33	319-85-7	
delta-BHC	ND	ug/kg	1.8	1.8	1	08/05/19 08:14	08/08/19 13:33	319-86-8	
gamma-BHC (Lindane)	ND	ug/kg	1.8	0.48	1	08/05/19 08:14	08/08/19 13:33	58-89-9	
alpha-Chlordane	ND	ug/kg	1.8	0.20	1	08/05/19 08:14	08/08/19 13:33	5103-71-9	
gamma-Chlordane	ND	ug/kg	1.8	0.48	1	08/05/19 08:14	08/08/19 13:33	5103-74-2	
4,4'-DDD	ND	ug/kg	3.7	1.2	1	08/05/19 08:14	08/08/19 13:33	72-54-8	
4,4'-DDE	ND	ug/kg	3.7	0.65	1	08/05/19 08:14	08/08/19 13:33	72-55-9	
4,4'-DDT	ND	ug/kg	3.7	0.96	1	08/05/19 08:14	08/08/19 13:33	50-29-3	
Dieldrin	ND	ug/kg	3.7	0.38	1	08/05/19 08:14	08/08/19 13:33	60-57-1	
Endosulfan I	ND	ug/kg	1.8	0.22	1	08/05/19 08:14	08/08/19 13:33	959-98-8	
Endosulfan II	ND	ug/kg	3.7	0.52	1	08/05/19 08:14	08/08/19 13:33	33213-65-9	
Endosulfan sulfate	ND	ug/kg	3.7	0.33	1	08/05/19 08:14	08/08/19 13:33	1031-07-8	
Endrin	ND	ug/kg	3.7	0.58	1	08/05/19 08:14	08/08/19 13:33	72-20-8	
Endrin aldehyde	ND	ug/kg	3.7	0.87	1	08/05/19 08:14	08/08/19 13:33	7421-93-4	
Endrin ketone	ND	ug/kg	3.7	0.33	1	08/05/19 08:14	08/08/19 13:33	53494-70-5	L1
Heptachlor	ND	ug/kg	1.8	0.22	1	08/05/19 08:14	08/08/19 13:33	76-44-8	
Heptachlor epoxide	ND	ug/kg	1.8	0.51	1	08/05/19 08:14	08/08/19 13:33	1024-57-3	
Methoxychlor	ND	ug/kg	18.3	1.8	1	08/05/19 08:14	08/08/19 13:33	72-43-5	
Toxaphene	ND	ug/kg	18.3	6.0	1	08/05/19 08:14	08/08/19 13:33	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	51-88		1	08/05/19 08:14	08/08/19 13:33	877-09-8	
Decachlorobiphenyl (S)	102	%	50-96		1	08/05/19 08:14	08/08/19 13:33	2051-24-3	E,ST

8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	18.3	11.3	1	08/05/19 08:14	08/06/19 21:22	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	18.3	16.2	1	08/05/19 08:14	08/06/19 21:22	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	18.3	16.6	1	08/05/19 08:14	08/06/19 21:22	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	18.3	13.4	1	08/05/19 08:14	08/06/19 21:22	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	18.3	10.5	1	08/05/19 08:14	08/06/19 21:22	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	18.3	9.7	1	08/05/19 08:14	08/06/19 21:22	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	18.3	10.4	1	08/05/19 08:14	08/06/19 21:22	11096-82-5	
PCB, Total	ND	ug/kg	165	103	1	08/05/19 08:14	08/06/19 21:22	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	34-114		1	08/05/19 08:14	08/06/19 21:22	877-09-8	
Decachlorobiphenyl (S)	100	%	38-139		1	08/05/19 08:14	08/06/19 21:22	2051-24-3	

6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	15500	mg/kg	10.4	2.6	1	08/05/19 08:08	08/07/19 09:42	7429-90-5	6c,8c, MH
Antimony	ND	mg/kg	0.62	0.50	1	08/05/19 08:08	08/07/19 09:42	7440-36-0	6c,ML
Arsenic	37.1	mg/kg	0.52	0.50	1	08/05/19 08:08	08/07/19 09:42	7440-38-2	6c,8c, ML
Barium	164	mg/kg	2.1	0.097	1	08/05/19 08:08	08/07/19 09:42	7440-39-3	6c,8c
Beryllium	0.72	mg/kg	0.21	0.031	1	08/05/19 08:08	08/07/19 09:42	7440-41-7	6c,8c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-12 **Lab ID: 30317042001** Collected: 07/30/19 08:35 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Boron	ND	mg/kg	5.2	0.18	1	08/05/19 08:08	08/07/19 09:42	7440-42-8	6c,ML
Cadmium	ND	mg/kg	0.31	0.063	1	08/05/19 08:08	08/07/19 09:42	7440-43-9	
Calcium	869	mg/kg	207	5.0	1	08/05/19 08:08	08/07/19 09:42	7440-70-2	6c,8c, MH,ML, R1
Chromium	24.7	mg/kg	0.52	0.095	1	08/05/19 08:08	08/07/19 09:42	7440-47-3	6c,8c
Cobalt	13.0	mg/kg	1.0	0.11	1	08/05/19 08:08	08/07/19 09:42	7440-48-4	8c
Copper	41.9	mg/kg	1.0	0.60	1	08/05/19 08:08	08/07/19 11:39	7440-50-8	6c,8c
Iron	53300	mg/kg	10.4	1.2	1	08/05/19 08:08	08/07/19 09:42	7439-89-6	6c,8c, ML
Lead	19.4	mg/kg	0.52	0.51	1	08/05/19 08:08	08/07/19 09:42	7439-92-1	8c
Magnesium	6580	mg/kg	51.8	6.0	1	08/05/19 08:08	08/07/19 09:42	7439-95-4	6c,8c, ML
Manganese	437	mg/kg	1.0	0.10	1	08/05/19 08:08	08/07/19 09:42	7439-96-5	6c,8c, MH,ML, R1
Molybdenum	ND	mg/kg	2.1	0.15	1	08/05/19 08:08	08/07/19 09:42	7439-98-7	
Nickel	27.5	mg/kg	2.1	0.26	1	08/05/19 08:08	08/07/19 09:42	7440-02-0	6c,8c
Potassium	2150	mg/kg	51.8	47.7	1	08/05/19 08:08	08/07/19 09:42	7440-09-7	6c,8c, MH
Selenium	ND	mg/kg	0.83	0.60	1	08/05/19 08:08	08/07/19 09:42	7782-49-2	6c
Silver	ND	mg/kg	0.62	0.10	1	08/05/19 08:08	08/07/19 09:42	7440-22-4	
Sodium	ND	mg/kg	518	37.7	1	08/05/19 08:08	08/07/19 09:42	7440-23-5	6c
Thallium	ND	mg/kg	2.1	0.64	1	08/05/19 08:08	08/07/19 09:42	7440-28-0	6c
Vanadium	25.7	mg/kg	1.0	0.084	1	08/05/19 08:08	08/07/19 09:42	7440-62-2	8c
Zinc	51.6	mg/kg	1.0	0.17	1	08/05/19 08:08	08/07/19 09:42	7440-66-6	6c,8c,B
7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.11	0.0053	1	08/02/19 09:21	08/02/19 16:37	7439-97-6	
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	369	125	1	08/02/19 22:23	08/05/19 20:01	83-32-9	
Acenaphthylene	ND	ug/kg	369	111	1	08/02/19 22:23	08/05/19 20:01	208-96-8	
Anthracene	ND	ug/kg	369	84.7	1	08/02/19 22:23	08/05/19 20:01	120-12-7	
Azobenzene	ND	ug/kg	369	130	1	08/02/19 22:23	08/05/19 20:01	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	369	165	1	08/02/19 22:23	08/05/19 20:01	56-55-3	
Benzo(a)pyrene	ND	ug/kg	369	115	1	08/02/19 22:23	08/05/19 20:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	369	112	1	08/02/19 22:23	08/05/19 20:01	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	369	128	1	08/02/19 22:23	08/05/19 20:01	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	369	163	1	08/02/19 22:23	08/05/19 20:01	207-08-9	
Benzoic acid	ND	ug/kg	5530	1870	1	08/02/19 22:23	08/05/19 20:01	65-85-0	CH
Benzyl alcohol	ND	ug/kg	369	326	1	08/02/19 22:23	08/05/19 20:01	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	369	135	1	08/02/19 22:23	08/05/19 20:01	101-55-3	
Butylbenzylphthalate	ND	ug/kg	369	104	1	08/02/19 22:23	08/05/19 20:01	85-68-7	
Carbazole	ND	ug/kg	369	145	1	08/02/19 22:23	08/05/19 20:01	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	369	59.3	1	08/02/19 22:23	08/05/19 20:01	59-50-7	MH
4-Chloroaniline	ND	ug/kg	369	64.9	1	08/02/19 22:23	08/05/19 20:01	106-47-8	L1,MH

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-12 **Lab ID: 30317042001** Collected: 07/30/19 08:35 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
bis(2-Chloroethoxy)methane	ND	ug/kg	369	146	1	08/02/19 22:23	08/05/19 20:01	111-91-1	MH
bis(2-Chloroethyl) ether	ND	ug/kg	369	67.3	1	08/02/19 22:23	08/05/19 20:01	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	369	313	1	08/02/19 22:23	08/05/19 20:01	108-60-1	
2-Chloronaphthalene	ND	ug/kg	369	105	1	08/02/19 22:23	08/05/19 20:01	91-58-7	
2-Chlorophenol	ND	ug/kg	369	115	1	08/02/19 22:23	08/05/19 20:01	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	369	107	1	08/02/19 22:23	08/05/19 20:01	7005-72-3	
Chrysene	ND	ug/kg	369	136	1	08/02/19 22:23	08/05/19 20:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	369	140	1	08/02/19 22:23	08/05/19 20:01	53-70-3	
Dibenzofuran	ND	ug/kg	369	118	1	08/02/19 22:23	08/05/19 20:01	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	369	115	1	08/02/19 22:23	08/05/19 20:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	369	109	1	08/02/19 22:23	08/05/19 20:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	369	50.9	1	08/02/19 22:23	08/05/19 20:01	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	369	108	1	08/02/19 22:23	08/05/19 20:01	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	369	166	1	08/02/19 22:23	08/05/19 20:01	120-83-2	
Diethylphthalate	ND	ug/kg	369	130	1	08/02/19 22:23	08/05/19 20:01	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	369	112	1	08/02/19 22:23	08/05/19 20:01	105-67-9	L1,MH
Dimethylphthalate	ND	ug/kg	369	114	1	08/02/19 22:23	08/05/19 20:01	131-11-3	R1
Di-n-butylphthalate	ND	ug/kg	369	124	1	08/02/19 22:23	08/05/19 20:01	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	922	275	1	08/02/19 22:23	08/05/19 20:01	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	922	829	1	08/02/19 22:23	08/05/19 20:01	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	369	112	1	08/02/19 22:23	08/05/19 20:01	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	369	112	1	08/02/19 22:23	08/05/19 20:01	606-20-2	
Di-n-octylphthalate	ND	ug/kg	369	83.7	1	08/02/19 22:23	08/05/19 20:01	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	369	118	1	08/02/19 22:23	08/05/19 20:01	117-81-7	
Fluoranthene	ND	ug/kg	369	119	1	08/02/19 22:23	08/05/19 20:01	206-44-0	
Fluorene	ND	ug/kg	369	113	1	08/02/19 22:23	08/05/19 20:01	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	369	120	1	08/02/19 22:23	08/05/19 20:01	87-68-3	
Hexachlorobenzene	ND	ug/kg	369	106	1	08/02/19 22:23	08/05/19 20:01	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	369	87.2	1	08/02/19 22:23	08/05/19 20:01	77-47-4	
Hexachloroethane	ND	ug/kg	369	99.5	1	08/02/19 22:23	08/05/19 20:01	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	369	139	1	08/02/19 22:23	08/05/19 20:01	193-39-5	
Isophorone	ND	ug/kg	369	121	1	08/02/19 22:23	08/05/19 20:01	78-59-1	L1,MH
1-Methylnaphthalene	ND	ug/kg	369	92.6	1	08/02/19 22:23	08/05/19 20:01	90-12-0	L1,MH
2-Methylnaphthalene	ND	ug/kg	369	111	1	08/02/19 22:23	08/05/19 20:01	91-57-6	MH
2-Methylphenol(o-Cresol)	ND	ug/kg	369	133	1	08/02/19 22:23	08/05/19 20:01	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	737	226	1	08/02/19 22:23	08/05/19 20:01		
Naphthalene	ND	ug/kg	369	99.9	1	08/02/19 22:23	08/05/19 20:01	91-20-3	
2-Nitroaniline	ND	ug/kg	922	128	1	08/02/19 22:23	08/05/19 20:01	88-74-4	
3-Nitroaniline	ND	ug/kg	922	241	1	08/02/19 22:23	08/05/19 20:01	99-09-2	
4-Nitroaniline	ND	ug/kg	922	517	1	08/02/19 22:23	08/05/19 20:01	100-01-6	
Nitrobenzene	ND	ug/kg	369	137	1	08/02/19 22:23	08/05/19 20:01	98-95-3	
2-Nitrophenol	ND	ug/kg	369	146	1	08/02/19 22:23	08/05/19 20:01	88-75-5	
4-Nitrophenol	ND	ug/kg	369	124	1	08/02/19 22:23	08/05/19 20:01	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	369	63.2	1	08/02/19 22:23	08/05/19 20:01	62-75-9	CH,L1, MH

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-12 **Lab ID: 30317042001** Collected: 07/30/19 08:35 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
N-Nitroso-di-n-propylamine	ND	ug/kg	369	156	1	08/02/19 22:23	08/05/19 20:01	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	369	83.1	1	08/02/19 22:23	08/05/19 20:01	86-30-6	
Pentachlorophenol	ND	ug/kg	922	485	1	08/02/19 22:23	08/05/19 20:01	87-86-5	
Phenanthrene	ND	ug/kg	369	162	1	08/02/19 22:23	08/05/19 20:01	85-01-8	
Phenol	ND	ug/kg	369	109	1	08/02/19 22:23	08/05/19 20:01	108-95-2	
Pyrene	ND	ug/kg	369	135	1	08/02/19 22:23	08/05/19 20:01	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	369	99.7	1	08/02/19 22:23	08/05/19 20:01	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	922	109	1	08/02/19 22:23	08/05/19 20:01	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	369	96.3	1	08/02/19 22:23	08/05/19 20:01	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	88	%	45-103		1	08/02/19 22:23	08/05/19 20:01	4165-60-0	
2-Fluorobiphenyl (S)	88	%	52-102		1	08/02/19 22:23	08/05/19 20:01	321-60-8	
Terphenyl-d14 (S)	91	%	53-135		1	08/02/19 22:23	08/05/19 20:01	1718-51-0	
Phenol-d6 (S)	91	%	35-120		1	08/02/19 22:23	08/05/19 20:01	13127-88-3	
2-Fluorophenol (S)	95	%	10-147		1	08/02/19 22:23	08/05/19 20:01	367-12-4	
2,4,6-Tribromophenol (S)	85	%	10-160		1	08/02/19 22:23	08/05/19 20:01	118-79-6	
8260C MSV 5035 Low Level									
Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
Acetone	212	ug/kg	11.5	3.6	1	08/07/19 12:42	08/07/19 15:18	67-64-1	2c,3c
Benzene	ND	ug/kg	5.7	1.0	1	08/07/19 12:42	08/07/19 15:18	71-43-2	2c
Bromochloromethane	ND	ug/kg	5.7	1.3	1	08/07/19 12:42	08/07/19 15:18	74-97-5	2c
Bromodichloromethane	ND	ug/kg	5.7	1.3	1	08/07/19 12:42	08/07/19 15:18	75-27-4	2c
Bromoform	ND	ug/kg	5.7	0.76	1	08/07/19 12:42	08/07/19 15:18	75-25-2	2c
Bromomethane	ND	ug/kg	5.7	2.1	1	08/07/19 12:42	08/07/19 15:18	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	34.4	7.0	1	08/07/19 12:42	08/07/19 15:18		
2-Butanone (MEK)	ND	ug/kg	11.5	1.0	1	08/07/19 12:42	08/07/19 15:18	78-93-3	2c,3c
Carbon disulfide	ND	ug/kg	5.7	1.6	1	08/07/19 12:42	08/07/19 15:18	75-15-0	2c
Carbon tetrachloride	ND	ug/kg	5.7	2.0	1	08/07/19 12:42	08/07/19 15:18	56-23-5	2c,CL
Chlorobenzene	ND	ug/kg	5.7	0.90	1	08/07/19 12:42	08/07/19 15:18	108-90-7	2c
Chloroethane	ND	ug/kg	5.7	2.4	1	08/07/19 12:42	08/07/19 15:18	75-00-3	2c
Chloroform	ND	ug/kg	5.7	1.7	1	08/07/19 12:42	08/07/19 15:18	67-66-3	2c
Chloromethane	ND	ug/kg	5.7	1.9	1	08/07/19 12:42	08/07/19 15:18	74-87-3	2c
Dibromochloromethane	ND	ug/kg	5.7	0.91	1	08/07/19 12:42	08/07/19 15:18	124-48-1	2c
1,2-Dichlorobenzene	ND	ug/kg	5.7	0.68	1	08/07/19 12:42	08/07/19 15:18	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/kg	5.7	0.75	1	08/07/19 12:42	08/07/19 15:18	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/kg	5.7	0.81	1	08/07/19 12:42	08/07/19 15:18	106-46-7	2c
1,1-Dichloroethane	ND	ug/kg	5.7	1.4	1	08/07/19 12:42	08/07/19 15:18	75-34-3	2c
1,2-Dichloroethane	ND	ug/kg	5.7	1.5	1	08/07/19 12:42	08/07/19 15:18	107-06-2	2c
1,2-Dichloroethene (Total)	ND	ug/kg	11.5	2.8	1	08/07/19 12:42	08/07/19 15:18	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.7	2.1	1	08/07/19 12:42	08/07/19 15:18	75-35-4	2c
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1.3	1	08/07/19 12:42	08/07/19 15:18	156-59-2	2c
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1.5	1	08/07/19 12:42	08/07/19 15:18	156-60-5	2c
1,2-Dichloropropane	ND	ug/kg	5.7	0.83	1	08/07/19 12:42	08/07/19 15:18	78-87-5	2c
cis-1,3-Dichloropropene	ND	ug/kg	5.7	0.57	1	08/07/19 12:42	08/07/19 15:18	10061-01-5	2c
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1.2	1	08/07/19 12:42	08/07/19 15:18	10061-02-6	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-12 **Lab ID: 30317042001** Collected: 07/30/19 08:35 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Ethylbenzene	ND	ug/kg	5.7	1.2	1	08/07/19 12:42	08/07/19 15:18	100-41-4	2c
2-Hexanone	ND	ug/kg	11.5	1.1	1	08/07/19 12:42	08/07/19 15:18	591-78-6	2c
Isopropylbenzene (Cumene)	ND	ug/kg	5.7	1.3	1	08/07/19 12:42	08/07/19 15:18	98-82-8	2c
Methylene Chloride	ND	ug/kg	5.7	4.8	1	08/07/19 12:42	08/07/19 15:18	75-09-2	2c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.5	1.3	1	08/07/19 12:42	08/07/19 15:18	108-10-1	2c
Methyl-tert-butyl ether	ND	ug/kg	5.7	0.77	1	08/07/19 12:42	08/07/19 15:18	1634-04-4	2c
Naphthalene	ND	ug/kg	5.7	1.1	1	08/07/19 12:42	08/07/19 15:18	91-20-3	2c
Styrene	ND	ug/kg	5.7	1.7	1	08/07/19 12:42	08/07/19 15:18	100-42-5	2c
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	0.68	1	08/07/19 12:42	08/07/19 15:18	79-34-5	2c
Tetrachloroethene	ND	ug/kg	5.7	2.0	1	08/07/19 12:42	08/07/19 15:18	127-18-4	2c
Toluene	ND	ug/kg	5.7	1.1	1	08/07/19 12:42	08/07/19 15:18	108-88-3	2c
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	1.5	1	08/07/19 12:42	08/07/19 15:18	120-82-1	2c
1,1,1-Trichloroethane	ND	ug/kg	5.7	1.7	1	08/07/19 12:42	08/07/19 15:18	71-55-6	2c
1,1,2-Trichloroethane	ND	ug/kg	5.7	1.1	1	08/07/19 12:42	08/07/19 15:18	79-00-5	2c
Trichloroethene	ND	ug/kg	5.7	1.7	1	08/07/19 12:42	08/07/19 15:18	79-01-6	2c
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	2.8	1	08/07/19 12:42	08/07/19 15:18	95-63-6	2c
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	2.3	1	08/07/19 12:42	08/07/19 15:18	108-67-8	2c
Vinyl chloride	ND	ug/kg	5.7	2.5	1	08/07/19 12:42	08/07/19 15:18	75-01-4	2c
Xylene (Total)	ND	ug/kg	17.2	3.6	1	08/07/19 12:42	08/07/19 15:18	1330-20-7	
m&p-Xylene	ND	ug/kg	11.5	2.4	1	08/07/19 12:42	08/07/19 15:18	179601-23-1	2c
o-Xylene	ND	ug/kg	5.7	1.2	1	08/07/19 12:42	08/07/19 15:18	95-47-6	2c
Surrogates									
Toluene-d8 (S)	98	%	70-130		1	08/07/19 12:42	08/07/19 15:18	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1	08/07/19 12:42	08/07/19 15:18	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1	08/07/19 12:42	08/07/19 15:18	17060-07-0	
Dibromofluoromethane (S)	88	%	70-130		1	08/07/19 12:42	08/07/19 15:18	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.5	%	0.10	0.10	1		08/06/19 16:49		
9014 Cyanide, Total		Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C							
Cyanide	2.6	mg/kg	1.0	0.26	1	08/05/19 14:19	08/08/19 16:58	57-12-5	ML,R1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: GW-01 **Lab ID: 30317042002** Collected: 07/30/19 08:35 Received: 07/31/19 09:20 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8081B Organochlorine Pesticide Analytical Method: EPA 8081B Preparation Method: EPA 3510C									
Aldrin	ND	ug/L	0.025	0.0022	1	08/05/19 12:05	08/07/19 18:41	309-00-2	2c
alpha-BHC	ND	ug/L	0.025	0.0032	1	08/05/19 12:05	08/07/19 18:41	319-84-6	2c, CH
beta-BHC	ND	ug/L	0.025	0.0081	1	08/05/19 12:05	08/07/19 18:41	319-85-7	2c, CH
delta-BHC	ND	ug/L	0.025	0.0065	1	08/05/19 12:05	08/07/19 18:41	319-86-8	2c
gamma-BHC (Lindane)	ND	ug/L	0.025	0.0024	1	08/05/19 12:05	08/07/19 18:41	58-89-9	2c, CH
alpha-Chlordane	ND	ug/L	0.025	0.0017	1	08/05/19 12:05	08/07/19 18:41	5103-71-9	2c
gamma-Chlordane	ND	ug/L	0.025	0.0052	1	08/05/19 12:05	08/07/19 18:41	5103-74-2	2c
4,4'-DDD	ND	ug/L	0.049	0.0036	1	08/05/19 12:05	08/07/19 18:41	72-54-8	2c
4,4'-DDE	ND	ug/L	0.049	0.0032	1	08/05/19 12:05	08/07/19 18:41	72-55-9	2c
4,4'-DDT	ND	ug/L	0.049	0.0027	1	08/05/19 12:05	08/07/19 18:41	50-29-3	2c
Dieldrin	ND	ug/L	0.049	0.0018	1	08/05/19 12:05	08/07/19 18:41	60-57-1	2c
Endosulfan I	ND	ug/L	0.025	0.0015	1	08/05/19 12:05	08/07/19 18:41	959-98-8	2c
Endosulfan II	ND	ug/L	0.049	0.0021	1	08/05/19 12:05	08/07/19 18:41	33213-65-9	2c
Endosulfan sulfate	ND	ug/L	0.049	0.0024	1	08/05/19 12:05	08/07/19 18:41	1031-07-8	2c
Endrin	ND	ug/L	0.049	0.0048	1	08/05/19 12:05	08/07/19 18:41	72-20-8	2c
Endrin aldehyde	ND	ug/L	0.049	0.0032	1	08/05/19 12:05	08/07/19 18:41	7421-93-4	2c
Endrin ketone	ND	ug/L	0.049	0.0019	1	08/05/19 12:05	08/07/19 18:41	53494-70-5	2c, CH
Heptachlor	ND	ug/L	0.025	0.0021	1	08/05/19 12:05	08/07/19 18:41	76-44-8	2c
Heptachlor epoxide	ND	ug/L	0.025	0.0015	1	08/05/19 12:05	08/07/19 18:41	1024-57-3	2c
Methoxychlor	ND	ug/L	0.25	0.014	1	08/05/19 12:05	08/07/19 18:41	72-43-5	2c
Toxaphene	ND	ug/L	0.49	0.17	1	08/05/19 12:05	08/07/19 18:41	8001-35-2	2c
Surrogates									
Tetrachloro-m-xylene (S)	74	%	44-93		1	08/05/19 12:05	08/07/19 18:41	877-09-8	CH
Decachlorobiphenyl (S)	65	%	24-108		1	08/05/19 12:05	08/07/19 18:41	2051-24-3	
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3510C									
PCB-1016 (Aroclor 1016)	ND	ug/L	0.25	0.13	1	08/05/19 12:05	08/06/19 15:41	12674-11-2	2c
PCB-1221 (Aroclor 1221)	ND	ug/L	0.25	0.16	1	08/05/19 12:05	08/06/19 15:41	11104-28-2	2c
PCB-1232 (Aroclor 1232)	ND	ug/L	0.25	0.072	1	08/05/19 12:05	08/06/19 15:41	11141-16-5	2c
PCB-1242 (Aroclor 1242)	ND	ug/L	0.25	0.11	1	08/05/19 12:05	08/06/19 15:41	53469-21-9	2c
PCB-1248 (Aroclor 1248)	ND	ug/L	0.25	0.092	1	08/05/19 12:05	08/06/19 15:41	12672-29-6	2c
PCB-1254 (Aroclor 1254)	ND	ug/L	0.25	0.022	1	08/05/19 12:05	08/06/19 15:41	11097-69-1	2c
PCB-1260 (Aroclor 1260)	ND	ug/L	0.25	0.024	1	08/05/19 12:05	08/06/19 15:41	11096-82-5	2c
Surrogates									
Tetrachloro-m-xylene (S)	65	%	36-108		1	08/05/19 12:05	08/06/19 15:41	877-09-8	
Decachlorobiphenyl (S)	58	%	10-120		1	08/05/19 12:05	08/06/19 15:41	2051-24-3	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3005A									
Aluminum	2470	ug/L	50.0	20.3	1	08/02/19 15:07	08/06/19 10:27	7429-90-5	8c
Antimony	ND	ug/L	6.0	3.3	1	08/02/19 15:07	08/06/19 12:18	7440-36-0	
Arsenic	ND	ug/L	5.0	2.0	1	08/02/19 15:07	08/06/19 10:27	7440-38-2	
Barium	81.3	ug/L	10.0	0.68	1	08/02/19 15:07	08/06/19 10:27	7440-39-3	
Beryllium	ND	ug/L	1.0	0.17	1	08/02/19 15:07	08/06/19 10:27	7440-41-7	
Boron	58.8	ug/L	50.0	2.3	1	08/02/19 15:07	08/06/19 10:27	7440-42-8	
Cadmium	ND	ug/L	3.0	0.34	1	08/02/19 15:07	08/06/19 10:27	7440-43-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: GW-01 **Lab ID: 30317042002** Collected: 07/30/19 08:35 Received: 07/31/19 09:20 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3005A									
Calcium	62300	ug/L	1000	99.9	1	08/02/19 15:07	08/06/19 10:27	7440-70-2	1c,8c, MH
Chromium	ND	ug/L	5.0	0.35	1	08/02/19 15:07	08/06/19 10:27	7440-47-3	
Cobalt	ND	ug/L	5.0	0.53	1	08/02/19 15:07	08/06/19 10:27	7440-48-4	
Copper	7.3	ug/L	5.0	2.7	1	08/02/19 15:07	08/06/19 10:27	7440-50-8	D6
Iron	3530	ug/L	70.0	40.9	1	08/02/19 15:07	08/06/19 10:27	7439-89-6	8c
Lead	ND	ug/L	5.0	4.9	1	08/02/19 15:07	08/06/19 10:27	7439-92-1	
Magnesium	15200	ug/L	200	28.4	1	08/02/19 15:07	08/06/19 10:27	7439-95-4	1c,8c, MH
Manganese	108	ug/L	5.0	1.2	1	08/02/19 15:07	08/06/19 10:27	7439-96-5	8c
Molybdenum	ND	ug/L	20.0	0.85	1	08/02/19 15:07	08/06/19 10:27	7439-98-7	
Nickel	ND	ug/L	10.0	1.5	1	08/02/19 15:07	08/06/19 10:27	7440-02-0	
Potassium	2720	ug/L	500	72.4	1	08/02/19 15:07	08/06/19 10:27	7440-09-7	
Selenium	ND	ug/L	8.0	5.5	1	08/02/19 15:07	08/06/19 10:27	7782-49-2	
Silver	ND	ug/L	6.0	1.4	1	08/02/19 15:07	08/06/19 10:27	7440-22-4	
Sodium	17300	ug/L	1000	423	1	08/02/19 15:07	08/06/19 10:27	7440-23-5	1c, MH
Thallium	ND	ug/L	10.0	4.0	1	08/02/19 15:07	08/06/19 10:27	7440-28-0	
Vanadium	ND	ug/L	5.0	0.57	1	08/02/19 15:07	08/06/19 10:27	7440-62-2	
Zinc	15.3	ug/L	10.0	2.4	1	08/02/19 15:07	08/06/19 10:27	7440-66-6	

6010C MET ICP, Lab Filtered Analytical Method: EPA 6010C Preparation Method: EPA 3005A									
Aluminum, Dissolved	90.4	ug/L	50.0	20.3	1	08/05/19 15:40	08/07/19 08:55	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.3	1	08/05/19 15:40	08/07/19 08:55	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.0	1	08/05/19 15:40	08/07/19 08:55	7440-38-2	
Barium, Dissolved	73.5	ug/L	10.0	0.68	1	08/05/19 15:40	08/07/19 08:55	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.17	1	08/05/19 15:40	08/07/19 08:55	7440-41-7	
Boron, Dissolved	65.8	ug/L	50.0	2.3	1	08/05/19 15:40	08/07/19 08:55	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.34	1	08/05/19 15:40	08/07/19 08:55	7440-43-9	
Calcium, Dissolved	75000	ug/L	1000	99.9	1	08/05/19 15:40	08/07/19 08:55	7440-70-2	6c, ML
Chromium, Dissolved	ND	ug/L	5.0	0.35	1	08/05/19 15:40	08/07/19 08:55	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.53	1	08/05/19 15:40	08/07/19 08:55	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	2.7	1	08/05/19 15:40	08/07/19 08:55	7440-50-8	
Iron, Dissolved	ND	ug/L	70.0	40.9	1	08/05/19 15:40	08/07/19 08:55	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	4.9	1	08/05/19 15:40	08/07/19 08:55	7439-92-1	
Magnesium, Dissolved	18400	ug/L	200	28.4	1	08/05/19 15:40	08/07/19 08:55	7439-95-4	ML
Manganese, Dissolved	10.6	ug/L	5.0	1.2	1	08/05/19 15:40	08/07/19 08:55	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	20.0	0.85	1	08/05/19 15:40	08/07/19 08:55	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.5	1	08/05/19 15:40	08/07/19 08:55	7440-02-0	
Potassium, Dissolved	3060	ug/L	500	72.4	1	08/05/19 15:40	08/07/19 08:55	7440-09-7	
Selenium, Dissolved	ND	ug/L	8.0	5.5	1	08/05/19 15:40	08/07/19 08:55	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	1.4	1	08/05/19 15:40	08/07/19 08:55	7440-22-4	
Sodium, Dissolved	20300	ug/L	1000	423	1	08/05/19 15:40	08/07/19 08:55	7440-23-5	ML
Thallium, Dissolved	ND	ug/L	10.0	4.0	1	08/05/19 15:40	08/07/19 08:55	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.57	1	08/05/19 15:40	08/07/19 08:55	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	2.4	1	08/05/19 15:40	08/07/19 08:55	7440-66-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: GW-01 Lab ID: 30317042002 Collected: 07/30/19 08:35 Received: 07/31/19 09:20 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	ug/L	0.20	0.030	1	08/02/19 16:50	08/05/19 08:45	7439-97-6	
7470 Mercury, Lab Filtered Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	08/05/19 16:31	08/05/19 22:07	7439-97-6	
8270D MSSV Organics Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	0.98	0.38	1	08/05/19 08:22	08/06/19 17:06	83-32-9	2c
Acenaphthylene	ND	ug/L	0.98	0.37	1	08/05/19 08:22	08/06/19 17:06	208-96-8	2c
Anthracene	ND	ug/L	0.98	0.26	1	08/05/19 08:22	08/06/19 17:06	120-12-7	2c
Azobenzene	ND	ug/L	0.98	0.35	1	08/05/19 08:22	08/06/19 17:06	103-33-3	2c,N2
Benzo(a)anthracene	ND	ug/L	0.98	0.20	1	08/05/19 08:22	08/06/19 17:06	56-55-3	2c
Benzo(a)pyrene	ND	ug/L	0.98	0.18	1	08/05/19 08:22	08/06/19 17:06	50-32-8	2c
Benzo(b)fluoranthene	ND	ug/L	0.98	0.23	1	08/05/19 08:22	08/06/19 17:06	205-99-2	2c
Benzo(g,h,i)perylene	ND	ug/L	0.98	0.29	1	08/05/19 08:22	08/06/19 17:06	191-24-2	2c,L2
Benzo(k)fluoranthene	ND	ug/L	0.98	0.25	1	08/05/19 08:22	08/06/19 17:06	207-08-9	2c
Benzoic acid	ND	ug/L	14.6	2.7	1	08/05/19 08:22	08/06/19 17:06	65-85-0	2c
Benzyl alcohol	ND	ug/L	0.98	0.68	1	08/05/19 08:22	08/06/19 17:06	100-51-6	2c
4-Bromophenylphenyl ether	ND	ug/L	0.98	0.38	1	08/05/19 08:22	08/06/19 17:06	101-55-3	2c
Butylbenzylphthalate	ND	ug/L	0.98	0.29	1	08/05/19 08:22	08/06/19 17:06	85-68-7	2c
Carbazole	ND	ug/L	0.98	0.23	1	08/05/19 08:22	08/06/19 17:06	86-74-8	2c
4-Chloro-3-methylphenol	ND	ug/L	0.98	0.43	1	08/05/19 08:22	08/06/19 17:06	59-50-7	2c
4-Chloroaniline	ND	ug/L	0.98	0.21	1	08/05/19 08:22	08/06/19 17:06	106-47-8	2c
bis(2-Chloroethoxy)methane	ND	ug/L	0.98	0.35	1	08/05/19 08:22	08/06/19 17:06	111-91-1	2c
bis(2-Chloroethyl) ether	ND	ug/L	0.98	0.40	1	08/05/19 08:22	08/06/19 17:06	111-44-4	2c
bis(2-Chloroisopropyl) ether	ND	ug/L	0.98	0.40	1	08/05/19 08:22	08/06/19 17:06	108-60-1	2c
2-Chloronaphthalene	ND	ug/L	0.98	0.33	1	08/05/19 08:22	08/06/19 17:06	91-58-7	2c
2-Chlorophenol	ND	ug/L	0.98	0.32	1	08/05/19 08:22	08/06/19 17:06	95-57-8	2c
4-Chlorophenylphenyl ether	ND	ug/L	0.98	0.35	1	08/05/19 08:22	08/06/19 17:06	7005-72-3	2c
Chrysene	ND	ug/L	0.98	0.20	1	08/05/19 08:22	08/06/19 17:06	218-01-9	2c
Dibenz(a,h)anthracene	ND	ug/L	0.98	0.30	1	08/05/19 08:22	08/06/19 17:06	53-70-3	2c,L2
Dibenzofuran	ND	ug/L	0.98	0.35	1	08/05/19 08:22	08/06/19 17:06	132-64-9	2c
1,2-Dichlorobenzene	ND	ug/L	0.98	0.33	1	08/05/19 08:22	08/06/19 17:06	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/L	0.98	0.29	1	08/05/19 08:22	08/06/19 17:06	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/L	0.98	0.27	1	08/05/19 08:22	08/06/19 17:06	106-46-7	2c
3,3'-Dichlorobenzidine	ND	ug/L	0.98	0.22	1	08/05/19 08:22	08/06/19 17:06	91-94-1	2c
2,4-Dichlorophenol	ND	ug/L	0.98	0.33	1	08/05/19 08:22	08/06/19 17:06	120-83-2	2c
Diethylphthalate	ND	ug/L	0.98	0.36	1	08/05/19 08:22	08/06/19 17:06	84-66-2	2c
2,4-Dimethylphenol	ND	ug/L	0.98	0.35	1	08/05/19 08:22	08/06/19 17:06	105-67-9	2c
Dimethylphthalate	ND	ug/L	0.98	0.43	1	08/05/19 08:22	08/06/19 17:06	131-11-3	2c
Di-n-butylphthalate	ND	ug/L	0.98	0.31	1	08/05/19 08:22	08/06/19 17:06	84-74-2	2c
4,6-Dinitro-2-methylphenol	ND	ug/L	2.4	0.62	1	08/05/19 08:22	08/06/19 17:06	534-52-1	2c
2,4-Dinitrophenol	ND	ug/L	2.4	0.57	1	08/05/19 08:22	08/06/19 17:06	51-28-5	2c
2,4-Dinitrotoluene	ND	ug/L	0.98	0.35	1	08/05/19 08:22	08/06/19 17:06	121-14-2	2c
2,6-Dinitrotoluene	ND	ug/L	0.98	0.39	1	08/05/19 08:22	08/06/19 17:06	606-20-2	2c
Di-n-octylphthalate	ND	ug/L	0.98	0.26	1	08/05/19 08:22	08/06/19 17:06	117-84-0	2c,L1
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.98	0.35	1	08/05/19 08:22	08/06/19 17:06	117-81-7	2c

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: **GW-01** Lab ID: **30317042002** Collected: 07/30/19 08:35 Received: 07/31/19 09:20 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8270D MSSV Organics									
Analytical Method: EPA 8270D					Preparation Method: EPA 3510C				
Fluoranthene	ND	ug/L	0.98	0.23	1	08/05/19 08:22	08/06/19 17:06	206-44-0	2c
Fluorene	ND	ug/L	0.98	0.36	1	08/05/19 08:22	08/06/19 17:06	86-73-7	2c
Hexachloro-1,3-butadiene	ND	ug/L	0.98	0.32	1	08/05/19 08:22	08/06/19 17:06	87-68-3	2c
Hexachlorobenzene	ND	ug/L	0.98	0.30	1	08/05/19 08:22	08/06/19 17:06	118-74-1	2c
Hexachlorocyclopentadiene	ND	ug/L	0.98	0.19	1	08/05/19 08:22	08/06/19 17:06	77-47-4	2c
Hexachloroethane	ND	ug/L	0.98	0.30	1	08/05/19 08:22	08/06/19 17:06	67-72-1	2c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.98	0.30	1	08/05/19 08:22	08/06/19 17:06	193-39-5	2c,L2
Isophorone	ND	ug/L	0.98	0.56	1	08/05/19 08:22	08/06/19 17:06	78-59-1	2c
1-Methylnaphthalene	ND	ug/L	0.98	0.35	1	08/05/19 08:22	08/06/19 17:06	90-12-0	2c
2-Methylnaphthalene	ND	ug/L	0.98	0.34	1	08/05/19 08:22	08/06/19 17:06	91-57-6	2c
2-Methylphenol(o-Cresol)	ND	ug/L	0.98	0.36	1	08/05/19 08:22	08/06/19 17:06	95-48-7	2c
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1.9	1	08/05/19 08:22	08/06/19 17:06		2c
Naphthalene	ND	ug/L	0.98	0.34	1	08/05/19 08:22	08/06/19 17:06	91-20-3	2c
2-Nitroaniline	ND	ug/L	2.4	0.70	1	08/05/19 08:22	08/06/19 17:06	88-74-4	2c
3-Nitroaniline	ND	ug/L	2.4	0.94	1	08/05/19 08:22	08/06/19 17:06	99-09-2	2c
4-Nitroaniline	ND	ug/L	2.4	1.8	1	08/05/19 08:22	08/06/19 17:06	100-01-6	2c
Nitrobenzene	ND	ug/L	0.98	0.37	1	08/05/19 08:22	08/06/19 17:06	98-95-3	2c
2-Nitrophenol	ND	ug/L	0.98	0.34	1	08/05/19 08:22	08/06/19 17:06	88-75-5	2c
4-Nitrophenol	ND	ug/L	0.98	0.74	1	08/05/19 08:22	08/06/19 17:06	100-02-7	2c
N-Nitrosodimethylamine	ND	ug/L	0.98	0.25	1	08/05/19 08:22	08/06/19 17:06	62-75-9	2c
N-Nitroso-di-n-propylamine	ND	ug/L	0.98	0.53	1	08/05/19 08:22	08/06/19 17:06	621-64-7	2c
N-Nitrosodiphenylamine	ND	ug/L	0.98	0.25	1	08/05/19 08:22	08/06/19 17:06	86-30-6	2c
Pentachlorophenol	ND	ug/L	2.4	1.0	1	08/05/19 08:22	08/06/19 17:06	87-86-5	2c
Phenanthrene	ND	ug/L	0.98	0.33	1	08/05/19 08:22	08/06/19 17:06	85-01-8	2c
Phenol	ND	ug/L	0.98	0.22	1	08/05/19 08:22	08/06/19 17:06	108-95-2	2c
Pyrene	ND	ug/L	0.98	0.29	1	08/05/19 08:22	08/06/19 17:06	129-00-0	2c
1,2,4-Trichlorobenzene	ND	ug/L	0.98	0.31	1	08/05/19 08:22	08/06/19 17:06	120-82-1	2c
2,4,5-Trichlorophenol	ND	ug/L	2.4	0.65	1	08/05/19 08:22	08/06/19 17:06	95-95-4	2c
2,4,6-Trichlorophenol	ND	ug/L	0.98	0.36	1	08/05/19 08:22	08/06/19 17:06	88-06-2	2c
Surrogates									
Nitrobenzene-d5 (S)	29	%	10-120		1	08/05/19 08:22	08/06/19 17:06	4165-60-0	
2-Fluorobiphenyl (S)	32	%	10-121		1	08/05/19 08:22	08/06/19 17:06	321-60-8	
Terphenyl-d14 (S)	60	%	43-119		1	08/05/19 08:22	08/06/19 17:06	1718-51-0	
Phenol-d6 (S)	10	%	10-58		1	08/05/19 08:22	08/06/19 17:06	13127-88-3	
2-Fluorophenol (S)	15	%	10-84		1	08/05/19 08:22	08/06/19 17:06	367-12-4	
2,4,6-Tribromophenol (S)	51	%	33-129		1	08/05/19 08:22	08/06/19 17:06	118-79-6	
8260C MSV									
Analytical Method: EPA 8260C									
Acetone	ND	ug/L	10.0	5.6	1		08/05/19 15:39	67-64-1	CL,R1
Benzene	ND	ug/L	1.0	0.34	1		08/05/19 15:39	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		08/05/19 15:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		08/05/19 15:39	75-27-4	
Bromoform	ND	ug/L	1.0	0.56	1		08/05/19 15:39	75-25-2	
Bromomethane	ND	ug/L	1.0	0.73	1		08/05/19 15:39	74-83-9	7c,CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		08/05/19 15:39		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		08/05/19 15:39	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: GW-01 **Lab ID: 30317042002** Collected: 07/30/19 08:35 Received: 07/31/19 09:20 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260C MSV Analytical Method: EPA 8260C									
Carbon disulfide	ND	ug/L	1.0	0.32	1		08/05/19 15:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		08/05/19 15:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		08/05/19 15:39	108-90-7	
Chloroethane	ND	ug/L	1.0	0.64	1		08/05/19 15:39	75-00-3	CH
Chloroform	ND	ug/L	1.0	0.39	1		08/05/19 15:39	67-66-3	
Chloromethane	ND	ug/L	1.0	0.40	1		08/05/19 15:39	74-87-3	L1
Dibromochloromethane	ND	ug/L	1.0	0.43	1		08/05/19 15:39	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		08/05/19 15:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		08/05/19 15:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		08/05/19 15:39	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.24	1		08/05/19 15:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		08/05/19 15:39	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		08/05/19 15:39	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		08/05/19 15:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		08/05/19 15:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.28	1		08/05/19 15:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.28	1		08/05/19 15:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		08/05/19 15:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		08/05/19 15:39	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		08/05/19 15:39	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		08/05/19 15:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		08/05/19 15:39	98-82-8	
Methylene Chloride	2.8	ug/L	1.0	0.64	1		08/05/19 15:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		08/05/19 15:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		08/05/19 15:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		08/05/19 15:39	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		08/05/19 15:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		08/05/19 15:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		08/05/19 15:39	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		08/05/19 15:39	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		08/05/19 15:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		08/05/19 15:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		08/05/19 15:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.29	1		08/05/19 15:39	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		08/05/19 15:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		08/05/19 15:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		08/05/19 15:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		08/05/19 15:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		08/05/19 15:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		08/05/19 15:39	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	78-122		1		08/05/19 15:39	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		08/05/19 15:39	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		08/05/19 15:39	2037-26-5	
Dibromofluoromethane (S)	100	%	80-120		1		08/05/19 15:39	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: GW-01		Lab ID: 30317042002		Collected: 07/30/19 08:35	Received: 07/31/19 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500CNE Cyanide, Total		Analytical Method: SM 4500CNE-2011 Preparation Method: SM 4500CNC-2011							
Cyanide	ND	mg/L	0.010	0.0057	1	08/06/19 15:46	08/08/19 16:20	57-12-5	

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-13 **Lab ID: 30317042003** Collected: 07/30/19 09:10 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	17.5	10.8	1	08/05/19 08:14	08/06/19 22:13	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	17.5	15.5	1	08/05/19 08:14	08/06/19 22:13	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	17.5	16.0	1	08/05/19 08:14	08/06/19 22:13	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	17.5	12.8	1	08/05/19 08:14	08/06/19 22:13	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	17.5	10.1	1	08/05/19 08:14	08/06/19 22:13	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	17.5	9.3	1	08/05/19 08:14	08/06/19 22:13	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	17.5	10	1	08/05/19 08:14	08/06/19 22:13	11096-82-5	
PCB, Total	ND	ug/kg	158	99.0	1	08/05/19 08:14	08/06/19 22:13	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	92	%	34-114		1	08/05/19 08:14	08/06/19 22:13	877-09-8	
Decachlorobiphenyl (S)	103	%	38-139		1	08/05/19 08:14	08/06/19 22:13	2051-24-3	E
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	10000	mg/kg	9.9	2.5	1	08/05/19 08:08	08/07/19 09:53	7429-90-5	
Antimony	ND	mg/kg	0.59	0.48	1	08/05/19 08:08	08/07/19 09:53	7440-36-0	
Arsenic	59.5	mg/kg	0.49	0.47	1	08/05/19 08:08	08/07/19 09:53	7440-38-2	
Barium	142	mg/kg	2.0	0.093	1	08/05/19 08:08	08/07/19 09:53	7440-39-3	
Beryllium	0.40	mg/kg	0.20	0.030	1	08/05/19 08:08	08/07/19 09:53	7440-41-7	
Boron	ND	mg/kg	4.9	0.17	1	08/05/19 08:08	08/07/19 09:53	7440-42-8	
Cadmium	ND	mg/kg	0.30	0.060	1	08/05/19 08:08	08/07/19 09:53	7440-43-9	
Calcium	504	mg/kg	197	4.8	1	08/05/19 08:08	08/07/19 09:53	7440-70-2	
Chromium	18.2	mg/kg	0.49	0.091	1	08/05/19 08:08	08/07/19 09:53	7440-47-3	
Cobalt	6.1	mg/kg	0.99	0.10	1	08/05/19 08:08	08/07/19 09:53	7440-48-4	
Copper	38.4	mg/kg	0.99	0.58	1	08/05/19 08:08	08/07/19 11:50	7440-50-8	
Iron	44500	mg/kg	9.9	1.1	1	08/05/19 08:08	08/07/19 09:53	7439-89-6	
Lead	23.1	mg/kg	0.49	0.48	1	08/05/19 08:08	08/07/19 09:53	7439-92-1	
Magnesium	3540	mg/kg	49.4	5.8	1	08/05/19 08:08	08/07/19 09:53	7439-95-4	
Manganese	148	mg/kg	0.99	0.099	1	08/05/19 08:08	08/07/19 09:53	7439-96-5	
Molybdenum	ND	mg/kg	2.0	0.14	1	08/05/19 08:08	08/07/19 09:53	7439-98-7	
Nickel	17.6	mg/kg	2.0	0.25	1	08/05/19 08:08	08/07/19 09:53	7440-02-0	
Potassium	1540	mg/kg	49.4	45.5	1	08/05/19 08:08	08/07/19 09:53	7440-09-7	
Selenium	3.2	mg/kg	0.79	0.58	1	08/05/19 08:08	08/07/19 09:53	7782-49-2	
Silver	ND	mg/kg	0.59	0.095	1	08/05/19 08:08	08/07/19 09:53	7440-22-4	
Sodium	ND	mg/kg	494	36.0	1	08/05/19 08:08	08/07/19 09:53	7440-23-5	
Thallium	ND	mg/kg	2.0	0.61	1	08/05/19 08:08	08/07/19 09:53	7440-28-0	
Vanadium	22.9	mg/kg	0.99	0.080	1	08/05/19 08:08	08/07/19 09:53	7440-62-2	
Zinc	80.9	mg/kg	0.99	0.17	1	08/05/19 08:08	08/07/19 09:53	7440-66-6	B
7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.11	0.0052	1	08/02/19 09:21	08/02/19 16:45	7439-97-6	
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	347	118	1	08/02/19 22:23	08/05/19 21:08	83-32-9	
Acenaphthylene	ND	ug/kg	347	104	1	08/02/19 22:23	08/05/19 21:08	208-96-8	
Anthracene	ND	ug/kg	347	79.8	1	08/02/19 22:23	08/05/19 21:08	120-12-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-13 **Lab ID: 30317042003** Collected: 07/30/19 09:10 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Azobenzene	ND	ug/kg	347	123	1	08/02/19 22:23	08/05/19 21:08	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	347	156	1	08/02/19 22:23	08/05/19 21:08	56-55-3	
Benzo(a)pyrene	ND	ug/kg	347	108	1	08/02/19 22:23	08/05/19 21:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	347	106	1	08/02/19 22:23	08/05/19 21:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	347	120	1	08/02/19 22:23	08/05/19 21:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	347	153	1	08/02/19 22:23	08/05/19 21:08	207-08-9	
Benzoic acid	ND	ug/kg	5210	1760	1	08/02/19 22:23	08/05/19 21:08	65-85-0	CH
Benzyl alcohol	ND	ug/kg	347	307	1	08/02/19 22:23	08/05/19 21:08	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	347	128	1	08/02/19 22:23	08/05/19 21:08	101-55-3	
Butylbenzylphthalate	ND	ug/kg	347	97.6	1	08/02/19 22:23	08/05/19 21:08	85-68-7	
Carbazole	ND	ug/kg	347	136	1	08/02/19 22:23	08/05/19 21:08	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	347	55.9	1	08/02/19 22:23	08/05/19 21:08	59-50-7	
4-Chloroaniline	ND	ug/kg	347	61.1	1	08/02/19 22:23	08/05/19 21:08	106-47-8	L1
bis(2-Chloroethoxy)methane	ND	ug/kg	347	137	1	08/02/19 22:23	08/05/19 21:08	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	347	63.4	1	08/02/19 22:23	08/05/19 21:08	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	347	295	1	08/02/19 22:23	08/05/19 21:08	108-60-1	
2-Chloronaphthalene	ND	ug/kg	347	99.2	1	08/02/19 22:23	08/05/19 21:08	91-58-7	
2-Chlorophenol	ND	ug/kg	347	108	1	08/02/19 22:23	08/05/19 21:08	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	347	100	1	08/02/19 22:23	08/05/19 21:08	7005-72-3	
Chrysene	ND	ug/kg	347	128	1	08/02/19 22:23	08/05/19 21:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	347	132	1	08/02/19 22:23	08/05/19 21:08	53-70-3	
Dibenzofuran	ND	ug/kg	347	111	1	08/02/19 22:23	08/05/19 21:08	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	347	109	1	08/02/19 22:23	08/05/19 21:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	347	103	1	08/02/19 22:23	08/05/19 21:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	347	48.0	1	08/02/19 22:23	08/05/19 21:08	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	347	102	1	08/02/19 22:23	08/05/19 21:08	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	347	156	1	08/02/19 22:23	08/05/19 21:08	120-83-2	
Diethylphthalate	ND	ug/kg	347	122	1	08/02/19 22:23	08/05/19 21:08	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	347	106	1	08/02/19 22:23	08/05/19 21:08	105-67-9	L1
Dimethylphthalate	ND	ug/kg	347	107	1	08/02/19 22:23	08/05/19 21:08	131-11-3	
Di-n-butylphthalate	ND	ug/kg	347	117	1	08/02/19 22:23	08/05/19 21:08	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	869	259	1	08/02/19 22:23	08/05/19 21:08	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	869	781	1	08/02/19 22:23	08/05/19 21:08	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	347	105	1	08/02/19 22:23	08/05/19 21:08	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	347	106	1	08/02/19 22:23	08/05/19 21:08	606-20-2	
Di-n-octylphthalate	ND	ug/kg	347	78.9	1	08/02/19 22:23	08/05/19 21:08	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	347	111	1	08/02/19 22:23	08/05/19 21:08	117-81-7	
Fluoranthene	ND	ug/kg	347	112	1	08/02/19 22:23	08/05/19 21:08	206-44-0	
Fluorene	ND	ug/kg	347	106	1	08/02/19 22:23	08/05/19 21:08	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	347	113	1	08/02/19 22:23	08/05/19 21:08	87-68-3	
Hexachlorobenzene	ND	ug/kg	347	99.8	1	08/02/19 22:23	08/05/19 21:08	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	347	82.2	1	08/02/19 22:23	08/05/19 21:08	77-47-4	
Hexachloroethane	ND	ug/kg	347	93.8	1	08/02/19 22:23	08/05/19 21:08	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	347	131	1	08/02/19 22:23	08/05/19 21:08	193-39-5	
Isophorone	ND	ug/kg	347	114	1	08/02/19 22:23	08/05/19 21:08	78-59-1	L1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-13 **Lab ID: 30317042003** Collected: 07/30/19 09:10 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
1-Methylnaphthalene	ND	ug/kg	347	87.3	1	08/02/19 22:23	08/05/19 21:08	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	347	104	1	08/02/19 22:23	08/05/19 21:08	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	347	125	1	08/02/19 22:23	08/05/19 21:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	695	213	1	08/02/19 22:23	08/05/19 21:08		
Naphthalene	ND	ug/kg	347	94.2	1	08/02/19 22:23	08/05/19 21:08	91-20-3	
2-Nitroaniline	ND	ug/kg	869	121	1	08/02/19 22:23	08/05/19 21:08	88-74-4	
3-Nitroaniline	ND	ug/kg	869	227	1	08/02/19 22:23	08/05/19 21:08	99-09-2	
4-Nitroaniline	ND	ug/kg	869	488	1	08/02/19 22:23	08/05/19 21:08	100-01-6	
Nitrobenzene	ND	ug/kg	347	129	1	08/02/19 22:23	08/05/19 21:08	98-95-3	
2-Nitrophenol	ND	ug/kg	347	138	1	08/02/19 22:23	08/05/19 21:08	88-75-5	
4-Nitrophenol	ND	ug/kg	347	117	1	08/02/19 22:23	08/05/19 21:08	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	347	59.6	1	08/02/19 22:23	08/05/19 21:08	62-75-9	CH,L1
N-Nitroso-di-n-propylamine	ND	ug/kg	347	147	1	08/02/19 22:23	08/05/19 21:08	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	347	78.3	1	08/02/19 22:23	08/05/19 21:08	86-30-6	
Pentachlorophenol	ND	ug/kg	869	458	1	08/02/19 22:23	08/05/19 21:08	87-86-5	
Phenanthrene	ND	ug/kg	347	153	1	08/02/19 22:23	08/05/19 21:08	85-01-8	
Phenol	ND	ug/kg	347	103	1	08/02/19 22:23	08/05/19 21:08	108-95-2	
Pyrene	ND	ug/kg	347	127	1	08/02/19 22:23	08/05/19 21:08	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	347	94.0	1	08/02/19 22:23	08/05/19 21:08	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	869	103	1	08/02/19 22:23	08/05/19 21:08	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	347	90.8	1	08/02/19 22:23	08/05/19 21:08	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	85	%	45-103		1	08/02/19 22:23	08/05/19 21:08	4165-60-0	
2-Fluorobiphenyl (S)	86	%	52-102		1	08/02/19 22:23	08/05/19 21:08	321-60-8	
Terphenyl-d14 (S)	88	%	53-135		1	08/02/19 22:23	08/05/19 21:08	1718-51-0	
Phenol-d6 (S)	88	%	35-120		1	08/02/19 22:23	08/05/19 21:08	13127-88-3	
2-Fluorophenol (S)	91	%	10-147		1	08/02/19 22:23	08/05/19 21:08	367-12-4	
2,4,6-Tribromophenol (S)	81	%	10-160		1	08/02/19 22:23	08/05/19 21:08	118-79-6	
8260C MSV 5035 Low Level Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
Acetone	225	ug/kg	23.5	7.5	1	08/07/19 12:42	08/07/19 15:46	67-64-1	2c,3c
Benzene	ND	ug/kg	11.7	2.0	1	08/07/19 12:42	08/07/19 15:46	71-43-2	2c
Bromochloromethane	ND	ug/kg	11.7	2.6	1	08/07/19 12:42	08/07/19 15:46	74-97-5	2c
Bromodichloromethane	ND	ug/kg	11.7	2.6	1	08/07/19 12:42	08/07/19 15:46	75-27-4	2c
Bromoform	ND	ug/kg	11.7	1.5	1	08/07/19 12:42	08/07/19 15:46	75-25-2	2c
Bromomethane	ND	ug/kg	11.7	4.4	1	08/07/19 12:42	08/07/19 15:46	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	70.5	14.4	1	08/07/19 12:42	08/07/19 15:46		
2-Butanone (MEK)	ND	ug/kg	23.5	2.1	1	08/07/19 12:42	08/07/19 15:46	78-93-3	2c,3c
Carbon disulfide	ND	ug/kg	11.7	3.3	1	08/07/19 12:42	08/07/19 15:46	75-15-0	2c
Carbon tetrachloride	ND	ug/kg	11.7	4.0	1	08/07/19 12:42	08/07/19 15:46	56-23-5	2c,CL
Chlorobenzene	ND	ug/kg	11.7	1.8	1	08/07/19 12:42	08/07/19 15:46	108-90-7	2c
Chloroethane	ND	ug/kg	11.7	4.9	1	08/07/19 12:42	08/07/19 15:46	75-00-3	2c
Chloroform	ND	ug/kg	11.7	3.5	1	08/07/19 12:42	08/07/19 15:46	67-66-3	2c
Chloromethane	ND	ug/kg	11.7	4.0	1	08/07/19 12:42	08/07/19 15:46	74-87-3	2c
Dibromochloromethane	ND	ug/kg	11.7	1.9	1	08/07/19 12:42	08/07/19 15:46	124-48-1	2c

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-13 **Lab ID: 30317042003** Collected: 07/30/19 09:10 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
1,2-Dichlorobenzene	ND	ug/kg	11.7	1.4	1	08/07/19 12:42	08/07/19 15:46	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/kg	11.7	1.5	1	08/07/19 12:42	08/07/19 15:46	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/kg	11.7	1.7	1	08/07/19 12:42	08/07/19 15:46	106-46-7	2c
1,1-Dichloroethane	ND	ug/kg	11.7	3.0	1	08/07/19 12:42	08/07/19 15:46	75-34-3	2c
1,2-Dichloroethane	ND	ug/kg	11.7	3.0	1	08/07/19 12:42	08/07/19 15:46	107-06-2	2c
1,2-Dichloroethene (Total)	ND	ug/kg	23.5	5.7	1	08/07/19 12:42	08/07/19 15:46	540-59-0	
1,1-Dichloroethene	ND	ug/kg	11.7	4.4	1	08/07/19 12:42	08/07/19 15:46	75-35-4	2c
cis-1,2-Dichloroethene	ND	ug/kg	11.7	2.7	1	08/07/19 12:42	08/07/19 15:46	156-59-2	2c
trans-1,2-Dichloroethene	ND	ug/kg	11.7	3.0	1	08/07/19 12:42	08/07/19 15:46	156-60-5	2c
1,2-Dichloropropane	ND	ug/kg	11.7	1.7	1	08/07/19 12:42	08/07/19 15:46	78-87-5	2c
cis-1,3-Dichloropropene	ND	ug/kg	11.7	1.2	1	08/07/19 12:42	08/07/19 15:46	10061-01-5	2c
trans-1,3-Dichloropropene	ND	ug/kg	11.7	2.4	1	08/07/19 12:42	08/07/19 15:46	10061-02-6	2c
Ethylbenzene	ND	ug/kg	11.7	2.5	1	08/07/19 12:42	08/07/19 15:46	100-41-4	2c
2-Hexanone	ND	ug/kg	23.5	2.3	1	08/07/19 12:42	08/07/19 15:46	591-78-6	2c
Isopropylbenzene (Cumene)	ND	ug/kg	11.7	2.7	1	08/07/19 12:42	08/07/19 15:46	98-82-8	2c
Methylene Chloride	ND	ug/kg	11.7	9.8	1	08/07/19 12:42	08/07/19 15:46	75-09-2	2c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.5	2.6	1	08/07/19 12:42	08/07/19 15:46	108-10-1	2c
Methyl-tert-butyl ether	ND	ug/kg	11.7	1.6	1	08/07/19 12:42	08/07/19 15:46	1634-04-4	2c
Naphthalene	ND	ug/kg	11.7	2.2	1	08/07/19 12:42	08/07/19 15:46	91-20-3	2c
Styrene	ND	ug/kg	11.7	3.4	1	08/07/19 12:42	08/07/19 15:46	100-42-5	2c
1,1,2,2-Tetrachloroethane	ND	ug/kg	11.7	1.4	1	08/07/19 12:42	08/07/19 15:46	79-34-5	2c
Tetrachloroethene	ND	ug/kg	11.7	4.1	1	08/07/19 12:42	08/07/19 15:46	127-18-4	2c
Toluene	ND	ug/kg	11.7	2.3	1	08/07/19 12:42	08/07/19 15:46	108-88-3	2c
1,2,4-Trichlorobenzene	ND	ug/kg	11.7	3.0	1	08/07/19 12:42	08/07/19 15:46	120-82-1	2c
1,1,1-Trichloroethane	ND	ug/kg	11.7	3.5	1	08/07/19 12:42	08/07/19 15:46	71-55-6	2c
1,1,2-Trichloroethane	ND	ug/kg	11.7	2.3	1	08/07/19 12:42	08/07/19 15:46	79-00-5	2c
Trichloroethene	ND	ug/kg	11.7	3.5	1	08/07/19 12:42	08/07/19 15:46	79-01-6	2c
1,2,4-Trimethylbenzene	ND	ug/kg	11.7	5.7	1	08/07/19 12:42	08/07/19 15:46	95-63-6	2c
1,3,5-Trimethylbenzene	ND	ug/kg	11.7	4.8	1	08/07/19 12:42	08/07/19 15:46	108-67-8	2c
Vinyl chloride	ND	ug/kg	11.7	5.0	1	08/07/19 12:42	08/07/19 15:46	75-01-4	2c
Xylene (Total)	ND	ug/kg	35.2	7.4	1	08/07/19 12:42	08/07/19 15:46	1330-20-7	
m&p-Xylene	ND	ug/kg	23.5	4.9	1	08/07/19 12:42	08/07/19 15:46	179601-23-1	2c
o-Xylene	ND	ug/kg	11.7	2.5	1	08/07/19 12:42	08/07/19 15:46	95-47-6	2c
Surrogates									
Toluene-d8 (S)	97	%	70-130		1	08/07/19 12:42	08/07/19 15:46	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1	08/07/19 12:42	08/07/19 15:46	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130		1	08/07/19 12:42	08/07/19 15:46	17060-07-0	
Dibromofluoromethane (S)	127	%	70-130		1	08/07/19 12:42	08/07/19 15:46	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **6.2** % 0.10 0.10 1 08/06/19 16:49

9014 Cyanide, Total

Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C

Cyanide **3.0** mg/kg 0.97 0.25 1 08/05/19 14:19 08/08/19 17:03 57-12-5

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-14 **Lab ID: 30317042004** Collected: 07/30/19 09:25 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8081B GCS Pesticides									
Analytical Method: EPA 8081B Preparation Method: EPA 3546									
Aldrin	ND	ug/kg	1.8	0.32	1	08/05/19 08:14	08/08/19 13:13	309-00-2	
alpha-BHC	ND	ug/kg	1.8	0.35	1	08/05/19 08:14	08/08/19 13:13	319-84-6	
beta-BHC	2.7	ug/kg	1.8	1.3	1	08/05/19 08:14	08/08/19 13:13	319-85-7	C2
delta-BHC	ND	ug/kg	1.8	1.7	1	08/05/19 08:14	08/08/19 13:13	319-86-8	
gamma-BHC (Lindane)	ND	ug/kg	1.8	0.47	1	08/05/19 08:14	08/08/19 13:13	58-89-9	
alpha-Chlordane	ND	ug/kg	1.8	0.19	1	08/05/19 08:14	08/08/19 13:13	5103-71-9	
gamma-Chlordane	ND	ug/kg	1.8	0.47	1	08/05/19 08:14	08/08/19 13:13	5103-74-2	
4,4'-DDD	ND	ug/kg	3.6	1.2	1	08/05/19 08:14	08/08/19 13:13	72-54-8	
4,4'-DDE	ND	ug/kg	3.6	0.64	1	08/05/19 08:14	08/08/19 13:13	72-55-9	
4,4'-DDT	ND	ug/kg	3.6	0.94	1	08/05/19 08:14	08/08/19 13:13	50-29-3	
Dieldrin	ND	ug/kg	3.6	0.37	1	08/05/19 08:14	08/08/19 13:13	60-57-1	
Endosulfan I	ND	ug/kg	1.8	0.22	1	08/05/19 08:14	08/08/19 13:13	959-98-8	
Endosulfan II	ND	ug/kg	3.6	0.51	1	08/05/19 08:14	08/08/19 13:13	33213-65-9	
Endosulfan sulfate	ND	ug/kg	3.6	0.32	1	08/05/19 08:14	08/08/19 13:13	1031-07-8	
Endrin	ND	ug/kg	3.6	0.57	1	08/05/19 08:14	08/08/19 13:13	72-20-8	
Endrin aldehyde	ND	ug/kg	3.6	0.85	1	08/05/19 08:14	08/08/19 13:13	7421-93-4	
Endrin ketone	ND	ug/kg	3.6	0.33	1	08/05/19 08:14	08/08/19 13:13	53494-70-5	L1
Heptachlor	ND	ug/kg	1.8	0.22	1	08/05/19 08:14	08/08/19 13:13	76-44-8	
Heptachlor epoxide	ND	ug/kg	1.8	0.50	1	08/05/19 08:14	08/08/19 13:13	1024-57-3	
Methoxychlor	ND	ug/kg	17.9	1.7	1	08/05/19 08:14	08/08/19 13:13	72-43-5	
Toxaphene	ND	ug/kg	17.9	5.9	1	08/05/19 08:14	08/08/19 13:13	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	51-88		1	08/05/19 08:14	08/08/19 13:13	877-09-8	ST
Decachlorobiphenyl (S)	96	%	50-96		1	08/05/19 08:14	08/08/19 13:13	2051-24-3	

8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	17.9	11.0	1	08/05/19 08:14	08/06/19 21:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	17.9	15.9	1	08/05/19 08:14	08/06/19 21:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	17.9	16.3	1	08/05/19 08:14	08/06/19 21:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	17.9	13.1	1	08/05/19 08:14	08/06/19 21:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	17.9	10.3	1	08/05/19 08:14	08/06/19 21:30	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	17.9	9.5	1	08/05/19 08:14	08/06/19 21:30	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	17.9	10.2	1	08/05/19 08:14	08/06/19 21:30	11096-82-5	
PCB, Total	ND	ug/kg	161	101	1	08/05/19 08:14	08/06/19 21:30	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	34-114		1	08/05/19 08:14	08/06/19 21:30	877-09-8	
Decachlorobiphenyl (S)	101	%	38-139		1	08/05/19 08:14	08/06/19 21:30	2051-24-3	E

6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	15800	mg/kg	9.8	2.4	1	08/05/19 08:08	08/07/19 09:55	7429-90-5	
Antimony	ND	mg/kg	0.59	0.47	1	08/05/19 08:08	08/07/19 09:55	7440-36-0	
Arsenic	11.3	mg/kg	0.49	0.47	1	08/05/19 08:08	08/07/19 09:55	7440-38-2	
Barium	121	mg/kg	2.0	0.092	1	08/05/19 08:08	08/07/19 09:55	7440-39-3	
Beryllium	0.76	mg/kg	0.20	0.030	1	08/05/19 08:08	08/07/19 09:55	7440-41-7	
Boron	ND	mg/kg	4.9	0.17	1	08/05/19 08:08	08/07/19 09:55	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-14 **Lab ID: 30317042004** Collected: 07/30/19 09:25 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Cadmium	ND	mg/kg	0.29	0.059	1	08/05/19 08:08	08/07/19 09:55	7440-43-9	
Calcium	1220	mg/kg	195	4.7	1	08/05/19 08:08	08/07/19 09:55	7440-70-2	
Chromium	21.2	mg/kg	0.49	0.090	1	08/05/19 08:08	08/07/19 09:55	7440-47-3	
Cobalt	15.9	mg/kg	0.98	0.10	1	08/05/19 08:08	08/07/19 09:55	7440-48-4	
Copper	44.1	mg/kg	0.98	0.57	1	08/05/19 08:08	08/07/19 11:52	7440-50-8	
Iron	33200	mg/kg	9.8	1.1	1	08/05/19 08:08	08/07/19 09:55	7439-89-6	
Lead	20.2	mg/kg	0.49	0.48	1	08/05/19 08:08	08/07/19 09:55	7439-92-1	
Magnesium	6570	mg/kg	48.8	5.7	1	08/05/19 08:08	08/07/19 09:55	7439-95-4	
Manganese	1030	mg/kg	0.98	0.098	1	08/05/19 08:08	08/07/19 09:55	7439-96-5	
Molybdenum	ND	mg/kg	2.0	0.14	1	08/05/19 08:08	08/07/19 09:55	7439-98-7	
Nickel	30.6	mg/kg	2.0	0.24	1	08/05/19 08:08	08/07/19 09:55	7440-02-0	
Potassium	1610	mg/kg	48.8	45.0	1	08/05/19 08:08	08/07/19 09:55	7440-09-7	
Selenium	ND	mg/kg	0.78	0.57	1	08/05/19 08:08	08/07/19 09:55	7782-49-2	
Silver	ND	mg/kg	0.59	0.094	1	08/05/19 08:08	08/07/19 09:55	7440-22-4	
Sodium	ND	mg/kg	488	35.6	1	08/05/19 08:08	08/07/19 09:55	7440-23-5	
Thallium	ND	mg/kg	2.0	0.60	1	08/05/19 08:08	08/07/19 09:55	7440-28-0	
Vanadium	21.3	mg/kg	0.98	0.079	1	08/05/19 08:08	08/07/19 09:55	7440-62-2	
Zinc	85.9	mg/kg	0.98	0.16	1	08/05/19 08:08	08/07/19 09:55	7440-66-6	B

7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.10	0.0049	1	08/02/19 09:21	08/02/19 16:47	7439-97-6	

8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	358	122	1	08/02/19 22:23	08/05/19 21:31	83-32-9	
Acenaphthylene	ND	ug/kg	358	108	1	08/02/19 22:23	08/05/19 21:31	208-96-8	
Anthracene	ND	ug/kg	358	82.3	1	08/02/19 22:23	08/05/19 21:31	120-12-7	
Azobenzene	ND	ug/kg	358	126	1	08/02/19 22:23	08/05/19 21:31	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	358	161	1	08/02/19 22:23	08/05/19 21:31	56-55-3	
Benzo(a)pyrene	ND	ug/kg	358	111	1	08/02/19 22:23	08/05/19 21:31	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	358	109	1	08/02/19 22:23	08/05/19 21:31	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	358	124	1	08/02/19 22:23	08/05/19 21:31	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	358	158	1	08/02/19 22:23	08/05/19 21:31	207-08-9	
Benzoic acid	ND	ug/kg	5370	1810	1	08/02/19 22:23	08/05/19 21:31	65-85-0	CH
Benzyl alcohol	ND	ug/kg	358	317	1	08/02/19 22:23	08/05/19 21:31	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	358	132	1	08/02/19 22:23	08/05/19 21:31	101-55-3	
Butylbenzylphthalate	ND	ug/kg	358	101	1	08/02/19 22:23	08/05/19 21:31	85-68-7	
Carbazole	ND	ug/kg	358	141	1	08/02/19 22:23	08/05/19 21:31	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	358	57.6	1	08/02/19 22:23	08/05/19 21:31	59-50-7	
4-Chloroaniline	ND	ug/kg	358	63.0	1	08/02/19 22:23	08/05/19 21:31	106-47-8	L1
bis(2-Chloroethoxy)methane	ND	ug/kg	358	142	1	08/02/19 22:23	08/05/19 21:31	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	358	65.4	1	08/02/19 22:23	08/05/19 21:31	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	358	304	1	08/02/19 22:23	08/05/19 21:31	108-60-1	
2-Chloronaphthalene	ND	ug/kg	358	102	1	08/02/19 22:23	08/05/19 21:31	91-58-7	
2-Chlorophenol	ND	ug/kg	358	112	1	08/02/19 22:23	08/05/19 21:31	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	358	104	1	08/02/19 22:23	08/05/19 21:31	7005-72-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-14 **Lab ID: 30317042004** Collected: 07/30/19 09:25 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Chrysene	ND	ug/kg	358	132	1	08/02/19 22:23	08/05/19 21:31	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	358	136	1	08/02/19 22:23	08/05/19 21:31	53-70-3	
Dibenzofuran	ND	ug/kg	358	115	1	08/02/19 22:23	08/05/19 21:31	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	358	112	1	08/02/19 22:23	08/05/19 21:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	358	106	1	08/02/19 22:23	08/05/19 21:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	358	49.5	1	08/02/19 22:23	08/05/19 21:31	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	358	105	1	08/02/19 22:23	08/05/19 21:31	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	358	161	1	08/02/19 22:23	08/05/19 21:31	120-83-2	
Diethylphthalate	ND	ug/kg	358	126	1	08/02/19 22:23	08/05/19 21:31	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	358	109	1	08/02/19 22:23	08/05/19 21:31	105-67-9	L1
Dimethylphthalate	ND	ug/kg	358	110	1	08/02/19 22:23	08/05/19 21:31	131-11-3	
Di-n-butylphthalate	ND	ug/kg	358	121	1	08/02/19 22:23	08/05/19 21:31	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	896	267	1	08/02/19 22:23	08/05/19 21:31	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	896	805	1	08/02/19 22:23	08/05/19 21:31	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	358	109	1	08/02/19 22:23	08/05/19 21:31	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	358	109	1	08/02/19 22:23	08/05/19 21:31	606-20-2	
Di-n-octylphthalate	ND	ug/kg	358	81.3	1	08/02/19 22:23	08/05/19 21:31	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	358	114	1	08/02/19 22:23	08/05/19 21:31	117-81-7	
Fluoranthene	ND	ug/kg	358	115	1	08/02/19 22:23	08/05/19 21:31	206-44-0	
Fluorene	ND	ug/kg	358	110	1	08/02/19 22:23	08/05/19 21:31	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	358	117	1	08/02/19 22:23	08/05/19 21:31	87-68-3	
Hexachlorobenzene	ND	ug/kg	358	103	1	08/02/19 22:23	08/05/19 21:31	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	358	84.8	1	08/02/19 22:23	08/05/19 21:31	77-47-4	
Hexachloroethane	ND	ug/kg	358	96.7	1	08/02/19 22:23	08/05/19 21:31	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	358	135	1	08/02/19 22:23	08/05/19 21:31	193-39-5	
Isophorone	ND	ug/kg	358	118	1	08/02/19 22:23	08/05/19 21:31	78-59-1	L1
1-Methylnaphthalene	ND	ug/kg	358	90.0	1	08/02/19 22:23	08/05/19 21:31	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	358	108	1	08/02/19 22:23	08/05/19 21:31	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	358	129	1	08/02/19 22:23	08/05/19 21:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	716	220	1	08/02/19 22:23	08/05/19 21:31		
Naphthalene	ND	ug/kg	358	97.1	1	08/02/19 22:23	08/05/19 21:31	91-20-3	
2-Nitroaniline	ND	ug/kg	896	124	1	08/02/19 22:23	08/05/19 21:31	88-74-4	
3-Nitroaniline	ND	ug/kg	896	234	1	08/02/19 22:23	08/05/19 21:31	99-09-2	
4-Nitroaniline	ND	ug/kg	896	503	1	08/02/19 22:23	08/05/19 21:31	100-01-6	
Nitrobenzene	ND	ug/kg	358	133	1	08/02/19 22:23	08/05/19 21:31	98-95-3	
2-Nitrophenol	ND	ug/kg	358	142	1	08/02/19 22:23	08/05/19 21:31	88-75-5	
4-Nitrophenol	ND	ug/kg	358	120	1	08/02/19 22:23	08/05/19 21:31	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	358	61.4	1	08/02/19 22:23	08/05/19 21:31	62-75-9	CH,L1
N-Nitroso-di-n-propylamine	ND	ug/kg	358	152	1	08/02/19 22:23	08/05/19 21:31	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	358	80.8	1	08/02/19 22:23	08/05/19 21:31	86-30-6	
Pentachlorophenol	ND	ug/kg	896	472	1	08/02/19 22:23	08/05/19 21:31	87-86-5	
Phenanthrene	ND	ug/kg	358	157	1	08/02/19 22:23	08/05/19 21:31	85-01-8	
Phenol	ND	ug/kg	358	106	1	08/02/19 22:23	08/05/19 21:31	108-95-2	
Pyrene	ND	ug/kg	358	131	1	08/02/19 22:23	08/05/19 21:31	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	358	96.9	1	08/02/19 22:23	08/05/19 21:31	120-82-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-14 **Lab ID: 30317042004** Collected: 07/30/19 09:25 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
2,4,5-Trichlorophenol	ND	ug/kg	896	106	1	08/02/19 22:23	08/05/19 21:31	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	358	93.6	1	08/02/19 22:23	08/05/19 21:31	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	88	%	45-103		1	08/02/19 22:23	08/05/19 21:31	4165-60-0	
2-Fluorobiphenyl (S)	89	%	52-102		1	08/02/19 22:23	08/05/19 21:31	321-60-8	
Terphenyl-d14 (S)	79	%	53-135		1	08/02/19 22:23	08/05/19 21:31	1718-51-0	
Phenol-d6 (S)	91	%	35-120		1	08/02/19 22:23	08/05/19 21:31	13127-88-3	
2-Fluorophenol (S)	95	%	10-147		1	08/02/19 22:23	08/05/19 21:31	367-12-4	
2,4,6-Tribromophenol (S)	84	%	10-160		1	08/02/19 22:23	08/05/19 21:31	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Acetone	150	ug/kg	11.6	3.7	1	08/07/19 12:42	08/07/19 16:13	67-64-1	2c,3c
Benzene	ND	ug/kg	5.8	1.0	1	08/07/19 12:42	08/07/19 16:13	71-43-2	2c
Bromochloromethane	ND	ug/kg	5.8	1.3	1	08/07/19 12:42	08/07/19 16:13	74-97-5	2c
Bromodichloromethane	ND	ug/kg	5.8	1.3	1	08/07/19 12:42	08/07/19 16:13	75-27-4	2c
Bromoform	ND	ug/kg	5.8	0.77	1	08/07/19 12:42	08/07/19 16:13	75-25-2	2c
Bromomethane	ND	ug/kg	5.8	2.2	1	08/07/19 12:42	08/07/19 16:13	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	34.8	7.1	1	08/07/19 12:42	08/07/19 16:13		
2-Butanone (MEK)	12.5	ug/kg	11.6	1.1	1	08/07/19 12:42	08/07/19 16:13	78-93-3	2c,3c
Carbon disulfide	ND	ug/kg	5.8	1.6	1	08/07/19 12:42	08/07/19 16:13	75-15-0	2c
Carbon tetrachloride	ND	ug/kg	5.8	2.0	1	08/07/19 12:42	08/07/19 16:13	56-23-5	2c,CL
Chlorobenzene	ND	ug/kg	5.8	0.91	1	08/07/19 12:42	08/07/19 16:13	108-90-7	2c
Chloroethane	ND	ug/kg	5.8	2.4	1	08/07/19 12:42	08/07/19 16:13	75-00-3	2c
Chloroform	ND	ug/kg	5.8	1.7	1	08/07/19 12:42	08/07/19 16:13	67-66-3	2c
Chloromethane	ND	ug/kg	5.8	2.0	1	08/07/19 12:42	08/07/19 16:13	74-87-3	2c
Dibromochloromethane	ND	ug/kg	5.8	0.92	1	08/07/19 12:42	08/07/19 16:13	124-48-1	2c
1,2-Dichlorobenzene	ND	ug/kg	5.8	0.68	1	08/07/19 12:42	08/07/19 16:13	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/kg	5.8	0.75	1	08/07/19 12:42	08/07/19 16:13	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/kg	5.8	0.82	1	08/07/19 12:42	08/07/19 16:13	106-46-7	2c
1,1-Dichloroethane	ND	ug/kg	5.8	1.5	1	08/07/19 12:42	08/07/19 16:13	75-34-3	2c
1,2-Dichloroethane	ND	ug/kg	5.8	1.5	1	08/07/19 12:42	08/07/19 16:13	107-06-2	2c
1,2-Dichloroethene (Total)	ND	ug/kg	11.6	2.8	1	08/07/19 12:42	08/07/19 16:13	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.8	2.2	1	08/07/19 12:42	08/07/19 16:13	75-35-4	2c
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1.3	1	08/07/19 12:42	08/07/19 16:13	156-59-2	2c
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1.5	1	08/07/19 12:42	08/07/19 16:13	156-60-5	2c
1,2-Dichloropropane	ND	ug/kg	5.8	0.84	1	08/07/19 12:42	08/07/19 16:13	78-87-5	2c
cis-1,3-Dichloropropene	ND	ug/kg	5.8	0.58	1	08/07/19 12:42	08/07/19 16:13	10061-01-5	2c
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1.2	1	08/07/19 12:42	08/07/19 16:13	10061-02-6	2c
Ethylbenzene	ND	ug/kg	5.8	1.3	1	08/07/19 12:42	08/07/19 16:13	100-41-4	2c
2-Hexanone	ND	ug/kg	11.6	1.1	1	08/07/19 12:42	08/07/19 16:13	591-78-6	2c
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1.3	1	08/07/19 12:42	08/07/19 16:13	98-82-8	2c
Methylene Chloride	ND	ug/kg	5.8	4.9	1	08/07/19 12:42	08/07/19 16:13	75-09-2	2c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.6	1.3	1	08/07/19 12:42	08/07/19 16:13	108-10-1	2c
Methyl-tert-butyl ether	ND	ug/kg	5.8	0.78	1	08/07/19 12:42	08/07/19 16:13	1634-04-4	2c
Naphthalene	ND	ug/kg	5.8	1.1	1	08/07/19 12:42	08/07/19 16:13	91-20-3	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-14 **Lab ID: 30317042004** Collected: 07/30/19 09:25 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	5.8	1.7	1	08/07/19 12:42	08/07/19 16:13	100-42-5	2c
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	0.68	1	08/07/19 12:42	08/07/19 16:13	79-34-5	2c
Tetrachloroethene	ND	ug/kg	5.8	2.0	1	08/07/19 12:42	08/07/19 16:13	127-18-4	2c
Toluene	ND	ug/kg	5.8	1.1	1	08/07/19 12:42	08/07/19 16:13	108-88-3	2c
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1.5	1	08/07/19 12:42	08/07/19 16:13	120-82-1	2c
1,1,1-Trichloroethane	ND	ug/kg	5.8	1.8	1	08/07/19 12:42	08/07/19 16:13	71-55-6	2c
1,1,2-Trichloroethane	ND	ug/kg	5.8	1.1	1	08/07/19 12:42	08/07/19 16:13	79-00-5	2c
Trichloroethene	ND	ug/kg	5.8	1.7	1	08/07/19 12:42	08/07/19 16:13	79-01-6	2c
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	2.8	1	08/07/19 12:42	08/07/19 16:13	95-63-6	2c
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	2.4	1	08/07/19 12:42	08/07/19 16:13	108-67-8	2c
Vinyl chloride	ND	ug/kg	5.8	2.5	1	08/07/19 12:42	08/07/19 16:13	75-01-4	2c
Xylene (Total)	ND	ug/kg	17.4	3.7	1	08/07/19 12:42	08/07/19 16:13	1330-20-7	
m&p-Xylene	ND	ug/kg	11.6	2.4	1	08/07/19 12:42	08/07/19 16:13	179601-23-1	2c
o-Xylene	ND	ug/kg	5.8	1.2	1	08/07/19 12:42	08/07/19 16:13	95-47-6	2c
Surrogates									
Toluene-d8 (S)	78	%	70-130		1	08/07/19 12:42	08/07/19 16:13	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1	08/07/19 12:42	08/07/19 16:13	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1	08/07/19 12:42	08/07/19 16:13	17060-07-0	
Dibromofluoromethane (S)	109	%	70-130		1	08/07/19 12:42	08/07/19 16:13	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	8.5	%	0.10	0.10	1		08/06/19 16:49		
9014 Cyanide, Total		Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C							
Cyanide	2.2	mg/kg	0.99	0.25	1	08/05/19 14:19	08/08/19 17:05	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-23 **Lab ID: 30317042005** Collected: 07/30/19 09:50 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	102	62.9	5	08/05/19 08:14	08/06/19 22:21	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	102	90.3	5	08/05/19 08:14	08/06/19 22:21	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	102	92.8	5	08/05/19 08:14	08/06/19 22:21	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	102	74.5	5	08/05/19 08:14	08/06/19 22:21	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	102	58.6	5	08/05/19 08:14	08/06/19 22:21	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	102	54.3	5	08/05/19 08:14	08/06/19 22:21	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	102	58.0	5	08/05/19 08:14	08/06/19 22:21	11096-82-5	ED
PCB, Total	ND	ug/kg	917	576	5	08/05/19 08:14	08/06/19 22:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	34-114		5	08/05/19 08:14	08/06/19 22:21	877-09-8	
Decachlorobiphenyl (S)	104	%	38-139		5	08/05/19 08:14	08/06/19 22:21	2051-24-3	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	16000	mg/kg	11.4	2.8	1	08/05/19 08:08	08/07/19 09:57	7429-90-5	
Antimony	ND	mg/kg	0.68	0.55	1	08/05/19 08:08	08/07/19 09:57	7440-36-0	
Arsenic	32.3	mg/kg	0.57	0.55	1	08/05/19 08:08	08/07/19 09:57	7440-38-2	
Barium	125	mg/kg	2.3	0.11	1	08/05/19 08:08	08/07/19 09:57	7440-39-3	
Beryllium	0.65	mg/kg	0.23	0.035	1	08/05/19 08:08	08/07/19 09:57	7440-41-7	
Boron	ND	mg/kg	5.7	0.20	1	08/05/19 08:08	08/07/19 09:57	7440-42-8	
Cadmium	ND	mg/kg	0.34	0.069	1	08/05/19 08:08	08/07/19 09:57	7440-43-9	
Calcium	1590	mg/kg	228	5.5	1	08/05/19 08:08	08/07/19 09:57	7440-70-2	
Chromium	25.3	mg/kg	0.57	0.10	1	08/05/19 08:08	08/07/19 09:57	7440-47-3	
Cobalt	10.7	mg/kg	1.1	0.12	1	08/05/19 08:08	08/07/19 09:57	7440-48-4	
Copper	37.7	mg/kg	1.1	0.67	1	08/05/19 08:08	08/07/19 11:54	7440-50-8	
Iron	44100	mg/kg	11.4	1.3	1	08/05/19 08:08	08/07/19 09:57	7439-89-6	
Lead	25.2	mg/kg	0.57	0.56	1	08/05/19 08:08	08/07/19 09:57	7439-92-1	
Magnesium	6740	mg/kg	57.0	6.6	1	08/05/19 08:08	08/07/19 09:57	7439-95-4	
Manganese	212	mg/kg	1.1	0.11	1	08/05/19 08:08	08/07/19 09:57	7439-96-5	
Molybdenum	ND	mg/kg	2.3	0.16	1	08/05/19 08:08	08/07/19 09:57	7439-98-7	
Nickel	28.4	mg/kg	2.3	0.28	1	08/05/19 08:08	08/07/19 09:57	7440-02-0	
Potassium	2320	mg/kg	57.0	52.5	1	08/05/19 08:08	08/07/19 09:57	7440-09-7	
Selenium	0.97	mg/kg	0.91	0.67	1	08/05/19 08:08	08/07/19 09:57	7782-49-2	
Silver	ND	mg/kg	0.68	0.11	1	08/05/19 08:08	08/07/19 09:57	7440-22-4	
Sodium	ND	mg/kg	570	41.5	1	08/05/19 08:08	08/07/19 09:57	7440-23-5	
Thallium	ND	mg/kg	2.3	0.70	1	08/05/19 08:08	08/07/19 09:57	7440-28-0	
Vanadium	29.0	mg/kg	1.1	0.093	1	08/05/19 08:08	08/07/19 09:57	7440-62-2	
Zinc	64.5	mg/kg	1.1	0.19	1	08/05/19 08:08	08/07/19 09:57	7440-66-6	B
7471B Mercury									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.12	0.0058	1	08/02/19 09:21	08/02/19 16:48	7439-97-6	
8270D MSSV Microwave									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	410	139	1	08/02/19 22:23	08/05/19 21:53	83-32-9	
Acenaphthylene	ND	ug/kg	410	123	1	08/02/19 22:23	08/05/19 21:53	208-96-8	
Anthracene	ND	ug/kg	410	94.2	1	08/02/19 22:23	08/05/19 21:53	120-12-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-23 Lab ID: 30317042005 Collected: 07/30/19 09:50 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Azobenzene	ND	ug/kg	410	145	1	08/02/19 22:23	08/05/19 21:53	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	410	184	1	08/02/19 22:23	08/05/19 21:53	56-55-3	
Benzo(a)pyrene	ND	ug/kg	410	127	1	08/02/19 22:23	08/05/19 21:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	410	125	1	08/02/19 22:23	08/05/19 21:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	410	142	1	08/02/19 22:23	08/05/19 21:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	410	181	1	08/02/19 22:23	08/05/19 21:53	207-08-9	
Benzoic acid	ND	ug/kg	6150	2080	1	08/02/19 22:23	08/05/19 21:53	65-85-0	CH
Benzyl alcohol	ND	ug/kg	410	362	1	08/02/19 22:23	08/05/19 21:53	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	410	151	1	08/02/19 22:23	08/05/19 21:53	101-55-3	
Butylbenzylphthalate	ND	ug/kg	410	115	1	08/02/19 22:23	08/05/19 21:53	85-68-7	
Carbazole	ND	ug/kg	410	161	1	08/02/19 22:23	08/05/19 21:53	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	410	66.0	1	08/02/19 22:23	08/05/19 21:53	59-50-7	
4-Chloroaniline	ND	ug/kg	410	72.1	1	08/02/19 22:23	08/05/19 21:53	106-47-8	L1
bis(2-Chloroethoxy)methane	ND	ug/kg	410	162	1	08/02/19 22:23	08/05/19 21:53	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	410	74.9	1	08/02/19 22:23	08/05/19 21:53	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	410	348	1	08/02/19 22:23	08/05/19 21:53	108-60-1	
2-Chloronaphthalene	ND	ug/kg	410	117	1	08/02/19 22:23	08/05/19 21:53	91-58-7	
2-Chlorophenol	ND	ug/kg	410	128	1	08/02/19 22:23	08/05/19 21:53	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	410	119	1	08/02/19 22:23	08/05/19 21:53	7005-72-3	
Chrysene	ND	ug/kg	410	152	1	08/02/19 22:23	08/05/19 21:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	410	156	1	08/02/19 22:23	08/05/19 21:53	53-70-3	
Dibenzofuran	ND	ug/kg	410	131	1	08/02/19 22:23	08/05/19 21:53	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	410	128	1	08/02/19 22:23	08/05/19 21:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	410	121	1	08/02/19 22:23	08/05/19 21:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	410	56.6	1	08/02/19 22:23	08/05/19 21:53	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	410	120	1	08/02/19 22:23	08/05/19 21:53	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	410	184	1	08/02/19 22:23	08/05/19 21:53	120-83-2	
Diethylphthalate	ND	ug/kg	410	144	1	08/02/19 22:23	08/05/19 21:53	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	410	125	1	08/02/19 22:23	08/05/19 21:53	105-67-9	L1
Dimethylphthalate	ND	ug/kg	410	126	1	08/02/19 22:23	08/05/19 21:53	131-11-3	
Di-n-butylphthalate	ND	ug/kg	410	138	1	08/02/19 22:23	08/05/19 21:53	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1030	305	1	08/02/19 22:23	08/05/19 21:53	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1030	922	1	08/02/19 22:23	08/05/19 21:53	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	410	124	1	08/02/19 22:23	08/05/19 21:53	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	410	125	1	08/02/19 22:23	08/05/19 21:53	606-20-2	
Di-n-octylphthalate	ND	ug/kg	410	93.1	1	08/02/19 22:23	08/05/19 21:53	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	131	1	08/02/19 22:23	08/05/19 21:53	117-81-7	
Fluoranthene	ND	ug/kg	410	132	1	08/02/19 22:23	08/05/19 21:53	206-44-0	
Fluorene	ND	ug/kg	410	126	1	08/02/19 22:23	08/05/19 21:53	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	410	134	1	08/02/19 22:23	08/05/19 21:53	87-68-3	
Hexachlorobenzene	ND	ug/kg	410	118	1	08/02/19 22:23	08/05/19 21:53	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	410	97.0	1	08/02/19 22:23	08/05/19 21:53	77-47-4	
Hexachloroethane	ND	ug/kg	410	111	1	08/02/19 22:23	08/05/19 21:53	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	410	154	1	08/02/19 22:23	08/05/19 21:53	193-39-5	
Isophorone	ND	ug/kg	410	135	1	08/02/19 22:23	08/05/19 21:53	78-59-1	L1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-23 **Lab ID: 30317042005** Collected: 07/30/19 09:50 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
1-Methylnaphthalene	ND	ug/kg	410	103	1	08/02/19 22:23	08/05/19 21:53	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	410	123	1	08/02/19 22:23	08/05/19 21:53	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	410	148	1	08/02/19 22:23	08/05/19 21:53	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	820	252	1	08/02/19 22:23	08/05/19 21:53		
Naphthalene	ND	ug/kg	410	111	1	08/02/19 22:23	08/05/19 21:53	91-20-3	
2-Nitroaniline	ND	ug/kg	1030	142	1	08/02/19 22:23	08/05/19 21:53	88-74-4	
3-Nitroaniline	ND	ug/kg	1030	268	1	08/02/19 22:23	08/05/19 21:53	99-09-2	
4-Nitroaniline	ND	ug/kg	1030	576	1	08/02/19 22:23	08/05/19 21:53	100-01-6	
Nitrobenzene	ND	ug/kg	410	152	1	08/02/19 22:23	08/05/19 21:53	98-95-3	
2-Nitrophenol	ND	ug/kg	410	163	1	08/02/19 22:23	08/05/19 21:53	88-75-5	
4-Nitrophenol	ND	ug/kg	410	138	1	08/02/19 22:23	08/05/19 21:53	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	410	70.3	1	08/02/19 22:23	08/05/19 21:53	62-75-9	CH,L1
N-Nitroso-di-n-propylamine	ND	ug/kg	410	173	1	08/02/19 22:23	08/05/19 21:53	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	92.5	1	08/02/19 22:23	08/05/19 21:53	86-30-6	
Pentachlorophenol	ND	ug/kg	1030	540	1	08/02/19 22:23	08/05/19 21:53	87-86-5	
Phenanthrene	ND	ug/kg	410	180	1	08/02/19 22:23	08/05/19 21:53	85-01-8	
Phenol	ND	ug/kg	410	122	1	08/02/19 22:23	08/05/19 21:53	108-95-2	
Pyrene	ND	ug/kg	410	150	1	08/02/19 22:23	08/05/19 21:53	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	410	111	1	08/02/19 22:23	08/05/19 21:53	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1030	121	1	08/02/19 22:23	08/05/19 21:53	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	410	107	1	08/02/19 22:23	08/05/19 21:53	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	87	%	45-103		1	08/02/19 22:23	08/05/19 21:53	4165-60-0	
2-Fluorobiphenyl (S)	87	%	52-102		1	08/02/19 22:23	08/05/19 21:53	321-60-8	
Terphenyl-d14 (S)	90	%	53-135		1	08/02/19 22:23	08/05/19 21:53	1718-51-0	
Phenol-d6 (S)	92	%	35-120		1	08/02/19 22:23	08/05/19 21:53	13127-88-3	
2-Fluorophenol (S)	96	%	10-147		1	08/02/19 22:23	08/05/19 21:53	367-12-4	
2,4,6-Tribromophenol (S)	109	%	10-160		1	08/02/19 22:23	08/05/19 21:53	118-79-6	
8260C MSV 5035 Low Level Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
Acetone	313	ug/kg	11.4	3.6	1	08/07/19 12:42	08/07/19 16:41	67-64-1	2c,3c
Benzene	ND	ug/kg	5.7	0.99	1	08/07/19 12:42	08/07/19 16:41	71-43-2	2c
Bromochloromethane	ND	ug/kg	5.7	1.2	1	08/07/19 12:42	08/07/19 16:41	74-97-5	2c
Bromodichloromethane	ND	ug/kg	5.7	1.2	1	08/07/19 12:42	08/07/19 16:41	75-27-4	2c
Bromoform	ND	ug/kg	5.7	0.75	1	08/07/19 12:42	08/07/19 16:41	75-25-2	2c
Bromomethane	ND	ug/kg	5.7	2.1	1	08/07/19 12:42	08/07/19 16:41	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	34.3	7.0	1	08/07/19 12:42	08/07/19 16:41		
2-Butanone (MEK)	29.3	ug/kg	11.4	1.0	1	08/07/19 12:42	08/07/19 16:41	78-93-3	2c,3c
Carbon disulfide	ND	ug/kg	5.7	1.6	1	08/07/19 12:42	08/07/19 16:41	75-15-0	2c
Carbon tetrachloride	ND	ug/kg	5.7	2.0	1	08/07/19 12:42	08/07/19 16:41	56-23-5	2c,CL
Chlorobenzene	ND	ug/kg	5.7	0.89	1	08/07/19 12:42	08/07/19 16:41	108-90-7	2c
Chloroethane	ND	ug/kg	5.7	2.4	1	08/07/19 12:42	08/07/19 16:41	75-00-3	2c
Chloroform	ND	ug/kg	5.7	1.7	1	08/07/19 12:42	08/07/19 16:41	67-66-3	2c
Chloromethane	ND	ug/kg	5.7	1.9	1	08/07/19 12:42	08/07/19 16:41	74-87-3	2c
Dibromochloromethane	ND	ug/kg	5.7	0.90	1	08/07/19 12:42	08/07/19 16:41	124-48-1	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-23 **Lab ID: 30317042005** Collected: 07/30/19 09:50 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level									
Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
1,2-Dichlorobenzene	ND	ug/kg	5.7	0.67	1	08/07/19 12:42	08/07/19 16:41	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/kg	5.7	0.74	1	08/07/19 12:42	08/07/19 16:41	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/kg	5.7	0.81	1	08/07/19 12:42	08/07/19 16:41	106-46-7	2c
1,1-Dichloroethane	ND	ug/kg	5.7	1.4	1	08/07/19 12:42	08/07/19 16:41	75-34-3	2c
1,2-Dichloroethane	ND	ug/kg	5.7	1.5	1	08/07/19 12:42	08/07/19 16:41	107-06-2	2c
1,2-Dichloroethene (Total)	ND	ug/kg	11.4	2.8	1	08/07/19 12:42	08/07/19 16:41	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.7	2.1	1	08/07/19 12:42	08/07/19 16:41	75-35-4	2c
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1.3	1	08/07/19 12:42	08/07/19 16:41	156-59-2	2c
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1.5	1	08/07/19 12:42	08/07/19 16:41	156-60-5	2c
1,2-Dichloropropane	ND	ug/kg	5.7	0.82	1	08/07/19 12:42	08/07/19 16:41	78-87-5	2c
cis-1,3-Dichloropropene	ND	ug/kg	5.7	0.57	1	08/07/19 12:42	08/07/19 16:41	10061-01-5	2c
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1.2	1	08/07/19 12:42	08/07/19 16:41	10061-02-6	2c
Ethylbenzene	ND	ug/kg	5.7	1.2	1	08/07/19 12:42	08/07/19 16:41	100-41-4	2c
2-Hexanone	ND	ug/kg	11.4	1.1	1	08/07/19 12:42	08/07/19 16:41	591-78-6	2c
Isopropylbenzene (Cumene)	ND	ug/kg	5.7	1.3	1	08/07/19 12:42	08/07/19 16:41	98-82-8	2c
Methylene Chloride	ND	ug/kg	5.7	4.8	1	08/07/19 12:42	08/07/19 16:41	75-09-2	2c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.4	1.3	1	08/07/19 12:42	08/07/19 16:41	108-10-1	2c
Methyl-tert-butyl ether	ND	ug/kg	5.7	0.77	1	08/07/19 12:42	08/07/19 16:41	1634-04-4	2c
Naphthalene	ND	ug/kg	5.7	1.1	1	08/07/19 12:42	08/07/19 16:41	91-20-3	2c
Styrene	ND	ug/kg	5.7	1.6	1	08/07/19 12:42	08/07/19 16:41	100-42-5	2c
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	0.67	1	08/07/19 12:42	08/07/19 16:41	79-34-5	2c
Tetrachloroethene	ND	ug/kg	5.7	2.0	1	08/07/19 12:42	08/07/19 16:41	127-18-4	2c
Toluene	ND	ug/kg	5.7	1.1	1	08/07/19 12:42	08/07/19 16:41	108-88-3	2c
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	1.5	1	08/07/19 12:42	08/07/19 16:41	120-82-1	2c
1,1,1-Trichloroethane	ND	ug/kg	5.7	1.7	1	08/07/19 12:42	08/07/19 16:41	71-55-6	2c
1,1,2-Trichloroethane	ND	ug/kg	5.7	1.1	1	08/07/19 12:42	08/07/19 16:41	79-00-5	2c
Trichloroethene	ND	ug/kg	5.7	1.7	1	08/07/19 12:42	08/07/19 16:41	79-01-6	2c
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	2.8	1	08/07/19 12:42	08/07/19 16:41	95-63-6	2c
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	2.3	1	08/07/19 12:42	08/07/19 16:41	108-67-8	2c
Vinyl chloride	ND	ug/kg	5.7	2.5	1	08/07/19 12:42	08/07/19 16:41	75-01-4	2c
Xylene (Total)	ND	ug/kg	17.1	3.6	1	08/07/19 12:42	08/07/19 16:41	1330-20-7	
m&p-Xylene	ND	ug/kg	11.4	2.4	1	08/07/19 12:42	08/07/19 16:41	179601-23-1	2c
o-Xylene	ND	ug/kg	5.7	1.2	1	08/07/19 12:42	08/07/19 16:41	95-47-6	2c
Surrogates									
Toluene-d8 (S)	118	%	70-130		1	08/07/19 12:42	08/07/19 16:41	2037-26-5	
4-Bromofluorobenzene (S)	66	%	70-130		1	08/07/19 12:42	08/07/19 16:41	460-00-4	SR
1,2-Dichloroethane-d4 (S)	105	%	70-130		1	08/07/19 12:42	08/07/19 16:41	17060-07-0	
Dibromofluoromethane (S)	98	%	70-130		1	08/07/19 12:42	08/07/19 16:41	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **18.8** % 0.10 0.10 1 08/06/19 16:49

9014 Cyanide, Total

Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C

Cyanide **1.7** mg/kg 1.1 0.29 1 08/05/19 14:19 08/08/19 17:06 57-12-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-22 **Lab ID: 30317042006** Collected: 07/30/19 10:20 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	177	109	10	08/05/19 08:14	08/06/19 22:38	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	177	157	10	08/05/19 08:14	08/06/19 22:38	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	177	161	10	08/05/19 08:14	08/06/19 22:38	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	177	130	10	08/05/19 08:14	08/06/19 22:38	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	177	102	10	08/05/19 08:14	08/06/19 22:38	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	177	94.5	10	08/05/19 08:14	08/06/19 22:38	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	177	101	10	08/05/19 08:14	08/06/19 22:38	11096-82-5	ED
PCB, Total	ND	ug/kg	1600	1000	10	08/05/19 08:14	08/06/19 22:38	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	100	%	34-114		10	08/05/19 08:14	08/06/19 22:38	877-09-8	
Decachlorobiphenyl (S)	108	%	38-139		10	08/05/19 08:14	08/06/19 22:38	2051-24-3	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	14700	mg/kg	9.9	2.5	1	08/05/19 08:08	08/07/19 10:04	7429-90-5	
Antimony	ND	mg/kg	0.60	0.48	1	08/05/19 08:08	08/07/19 10:04	7440-36-0	
Arsenic	11.5	mg/kg	0.50	0.48	1	08/05/19 08:08	08/07/19 10:04	7440-38-2	
Barium	112	mg/kg	2.0	0.093	1	08/05/19 08:08	08/07/19 10:04	7440-39-3	
Beryllium	0.71	mg/kg	0.20	0.030	1	08/05/19 08:08	08/07/19 10:04	7440-41-7	
Boron	ND	mg/kg	5.0	0.17	1	08/05/19 08:08	08/07/19 10:04	7440-42-8	
Cadmium	0.51	mg/kg	0.30	0.060	1	08/05/19 08:08	08/07/19 10:04	7440-43-9	
Calcium	4650	mg/kg	199	4.8	1	08/05/19 08:08	08/07/19 10:04	7440-70-2	
Chromium	23.7	mg/kg	0.50	0.091	1	08/05/19 08:08	08/07/19 10:04	7440-47-3	
Cobalt	15.1	mg/kg	0.99	0.10	1	08/05/19 08:08	08/07/19 10:04	7440-48-4	
Copper	66.5	mg/kg	0.99	0.58	1	08/05/19 08:08	08/07/19 12:01	7440-50-8	
Iron	28800	mg/kg	9.9	1.2	1	08/05/19 08:08	08/07/19 10:04	7439-89-6	
Lead	69.8	mg/kg	0.50	0.49	1	08/05/19 08:08	08/07/19 10:04	7439-92-1	
Magnesium	7210	mg/kg	49.7	5.8	1	08/05/19 08:08	08/07/19 10:04	7439-95-4	
Manganese	923	mg/kg	0.99	0.099	1	08/05/19 08:08	08/07/19 10:04	7439-96-5	
Molybdenum	ND	mg/kg	2.0	0.14	1	08/05/19 08:08	08/07/19 10:04	7439-98-7	
Nickel	29.2	mg/kg	2.0	0.25	1	08/05/19 08:08	08/07/19 10:04	7440-02-0	
Potassium	1710	mg/kg	49.7	45.8	1	08/05/19 08:08	08/07/19 10:04	7440-09-7	
Selenium	ND	mg/kg	0.79	0.58	1	08/05/19 08:08	08/07/19 10:04	7782-49-2	
Silver	ND	mg/kg	0.60	0.096	1	08/05/19 08:08	08/07/19 10:04	7440-22-4	
Sodium	ND	mg/kg	497	36.2	1	08/05/19 08:08	08/07/19 10:04	7440-23-5	
Thallium	ND	mg/kg	2.0	0.61	1	08/05/19 08:08	08/07/19 10:04	7440-28-0	
Vanadium	20.4	mg/kg	0.99	0.081	1	08/05/19 08:08	08/07/19 10:04	7440-62-2	
Zinc	105	mg/kg	0.99	0.17	1	08/05/19 08:08	08/07/19 10:04	7440-66-6	B
7471B Mercury									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.11	0.0053	1	08/02/19 09:21	08/02/19 16:54	7439-97-6	
8270D MSSV Microwave									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	352	120	1	08/02/19 22:23	08/06/19 00:53	83-32-9	
Acenaphthylene	ND	ug/kg	352	106	1	08/02/19 22:23	08/06/19 00:53	208-96-8	
Anthracene	ND	ug/kg	352	80.8	1	08/02/19 22:23	08/06/19 00:53	120-12-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-22 **Lab ID: 30317042006** Collected: 07/30/19 10:20 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Azobenzene	ND	ug/kg	352	124	1	08/02/19 22:23	08/06/19 00:53	103-33-3	N2
Benzo(a)anthracene	1000	ug/kg	352	158	1	08/02/19 22:23	08/06/19 00:53	56-55-3	
Benzo(a)pyrene	944	ug/kg	352	109	1	08/02/19 22:23	08/06/19 00:53	50-32-8	
Benzo(b)fluoranthene	1010	ug/kg	352	107	1	08/02/19 22:23	08/06/19 00:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	352	122	1	08/02/19 22:23	08/06/19 00:53	191-24-2	
Benzo(k)fluoranthene	1130	ug/kg	352	155	1	08/02/19 22:23	08/06/19 00:53	207-08-9	
Benzoic acid	ND	ug/kg	5270	1780	1	08/02/19 22:23	08/06/19 00:53	65-85-0	CH
Benzyl alcohol	ND	ug/kg	352	311	1	08/02/19 22:23	08/06/19 00:53	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	352	129	1	08/02/19 22:23	08/06/19 00:53	101-55-3	
Butylbenzylphthalate	ND	ug/kg	352	98.8	1	08/02/19 22:23	08/06/19 00:53	85-68-7	
Carbazole	ND	ug/kg	352	138	1	08/02/19 22:23	08/06/19 00:53	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	352	56.6	1	08/02/19 22:23	08/06/19 00:53	59-50-7	
4-Chloroaniline	ND	ug/kg	352	61.9	1	08/02/19 22:23	08/06/19 00:53	106-47-8	L1
bis(2-Chloroethoxy)methane	ND	ug/kg	352	139	1	08/02/19 22:23	08/06/19 00:53	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	352	64.2	1	08/02/19 22:23	08/06/19 00:53	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	352	298	1	08/02/19 22:23	08/06/19 00:53	108-60-1	
2-Chloronaphthalene	ND	ug/kg	352	100	1	08/02/19 22:23	08/06/19 00:53	91-58-7	
2-Chlorophenol	ND	ug/kg	352	110	1	08/02/19 22:23	08/06/19 00:53	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	352	102	1	08/02/19 22:23	08/06/19 00:53	7005-72-3	
Chrysene	991	ug/kg	352	130	1	08/02/19 22:23	08/06/19 00:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	352	134	1	08/02/19 22:23	08/06/19 00:53	53-70-3	
Dibenzofuran	ND	ug/kg	352	113	1	08/02/19 22:23	08/06/19 00:53	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	352	110	1	08/02/19 22:23	08/06/19 00:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	352	104	1	08/02/19 22:23	08/06/19 00:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	352	48.6	1	08/02/19 22:23	08/06/19 00:53	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	352	103	1	08/02/19 22:23	08/06/19 00:53	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	352	158	1	08/02/19 22:23	08/06/19 00:53	120-83-2	
Diethylphthalate	ND	ug/kg	352	124	1	08/02/19 22:23	08/06/19 00:53	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	352	107	1	08/02/19 22:23	08/06/19 00:53	105-67-9	L1
Dimethylphthalate	ND	ug/kg	352	108	1	08/02/19 22:23	08/06/19 00:53	131-11-3	
Di-n-butylphthalate	ND	ug/kg	352	119	1	08/02/19 22:23	08/06/19 00:53	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	880	262	1	08/02/19 22:23	08/06/19 00:53	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	880	791	1	08/02/19 22:23	08/06/19 00:53	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	352	107	1	08/02/19 22:23	08/06/19 00:53	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	352	107	1	08/02/19 22:23	08/06/19 00:53	606-20-2	
Di-n-octylphthalate	ND	ug/kg	352	79.8	1	08/02/19 22:23	08/06/19 00:53	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	352	112	1	08/02/19 22:23	08/06/19 00:53	117-81-7	
Fluoranthene	1880	ug/kg	352	113	1	08/02/19 22:23	08/06/19 00:53	206-44-0	
Fluorene	ND	ug/kg	352	108	1	08/02/19 22:23	08/06/19 00:53	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	352	115	1	08/02/19 22:23	08/06/19 00:53	87-68-3	
Hexachlorobenzene	ND	ug/kg	352	101	1	08/02/19 22:23	08/06/19 00:53	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	352	83.2	1	08/02/19 22:23	08/06/19 00:53	77-47-4	
Hexachloroethane	ND	ug/kg	352	94.9	1	08/02/19 22:23	08/06/19 00:53	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	352	132	1	08/02/19 22:23	08/06/19 00:53	193-39-5	
Isophorone	ND	ug/kg	352	116	1	08/02/19 22:23	08/06/19 00:53	78-59-1	L1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-22 **Lab ID: 30317042006** Collected: 07/30/19 10:20 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
1-Methylnaphthalene	ND	ug/kg	352	88.4	1	08/02/19 22:23	08/06/19 00:53	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	352	106	1	08/02/19 22:23	08/06/19 00:53	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	352	127	1	08/02/19 22:23	08/06/19 00:53	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	703	216	1	08/02/19 22:23	08/06/19 00:53		
Naphthalene	ND	ug/kg	352	95.4	1	08/02/19 22:23	08/06/19 00:53	91-20-3	
2-Nitroaniline	ND	ug/kg	880	122	1	08/02/19 22:23	08/06/19 00:53	88-74-4	
3-Nitroaniline	ND	ug/kg	880	230	1	08/02/19 22:23	08/06/19 00:53	99-09-2	
4-Nitroaniline	ND	ug/kg	880	494	1	08/02/19 22:23	08/06/19 00:53	100-01-6	
Nitrobenzene	ND	ug/kg	352	130	1	08/02/19 22:23	08/06/19 00:53	98-95-3	
2-Nitrophenol	ND	ug/kg	352	140	1	08/02/19 22:23	08/06/19 00:53	88-75-5	
4-Nitrophenol	ND	ug/kg	352	118	1	08/02/19 22:23	08/06/19 00:53	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	352	60.3	1	08/02/19 22:23	08/06/19 00:53	62-75-9	CH,L1
N-Nitroso-di-n-propylamine	ND	ug/kg	352	149	1	08/02/19 22:23	08/06/19 00:53	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	352	79.3	1	08/02/19 22:23	08/06/19 00:53	86-30-6	
Pentachlorophenol	ND	ug/kg	880	463	1	08/02/19 22:23	08/06/19 00:53	87-86-5	
Phenanthrene	698	ug/kg	352	155	1	08/02/19 22:23	08/06/19 00:53	85-01-8	
Phenol	ND	ug/kg	352	104	1	08/02/19 22:23	08/06/19 00:53	108-95-2	
Pyrene	1420	ug/kg	352	129	1	08/02/19 22:23	08/06/19 00:53	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	352	95.1	1	08/02/19 22:23	08/06/19 00:53	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	880	104	1	08/02/19 22:23	08/06/19 00:53	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	352	91.9	1	08/02/19 22:23	08/06/19 00:53	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	89	%	45-103		1	08/02/19 22:23	08/06/19 00:53	4165-60-0	
2-Fluorobiphenyl (S)	91	%	52-102		1	08/02/19 22:23	08/06/19 00:53	321-60-8	
Terphenyl-d14 (S)	85	%	53-135		1	08/02/19 22:23	08/06/19 00:53	1718-51-0	
Phenol-d6 (S)	96	%	35-120		1	08/02/19 22:23	08/06/19 00:53	13127-88-3	
2-Fluorophenol (S)	95	%	10-147		1	08/02/19 22:23	08/06/19 00:53	367-12-4	
2,4,6-Tribromophenol (S)	104	%	10-160		1	08/02/19 22:23	08/06/19 00:53	118-79-6	
8260C MSV 5035 Low Level Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
Acetone	252	ug/kg	13.5	4.3	1	08/07/19 12:42	08/07/19 17:08	67-64-1	2c,3c
Benzene	ND	ug/kg	6.8	1.2	1	08/07/19 12:42	08/07/19 17:08	71-43-2	2c
Bromochloromethane	ND	ug/kg	6.8	1.5	1	08/07/19 12:42	08/07/19 17:08	74-97-5	2c
Bromodichloromethane	ND	ug/kg	6.8	1.5	1	08/07/19 12:42	08/07/19 17:08	75-27-4	2c
Bromoform	ND	ug/kg	6.8	0.89	1	08/07/19 12:42	08/07/19 17:08	75-25-2	2c
Bromomethane	ND	ug/kg	6.8	2.5	1	08/07/19 12:42	08/07/19 17:08	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	40.5	8.3	1	08/07/19 12:42	08/07/19 17:08		
2-Butanone (MEK)	ND	ug/kg	13.5	1.2	1	08/07/19 12:42	08/07/19 17:08	78-93-3	2c,3c
Carbon disulfide	25.5	ug/kg	6.8	1.9	1	08/07/19 12:42	08/07/19 17:08	75-15-0	2c
Carbon tetrachloride	ND	ug/kg	6.8	2.3	1	08/07/19 12:42	08/07/19 17:08	56-23-5	2c,CL
Chlorobenzene	ND	ug/kg	6.8	1.1	1	08/07/19 12:42	08/07/19 17:08	108-90-7	2c
Chloroethane	ND	ug/kg	6.8	2.8	1	08/07/19 12:42	08/07/19 17:08	75-00-3	2c
Chloroform	ND	ug/kg	6.8	2.0	1	08/07/19 12:42	08/07/19 17:08	67-66-3	2c
Chloromethane	ND	ug/kg	6.8	2.3	1	08/07/19 12:42	08/07/19 17:08	74-87-3	2c
Dibromochloromethane	ND	ug/kg	6.8	1.1	1	08/07/19 12:42	08/07/19 17:08	124-48-1	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-22 **Lab ID: 30317042006** Collected: 07/30/19 10:20 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level									
Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
1,2-Dichlorobenzene	ND	ug/kg	6.8	0.80	1	08/07/19 12:42	08/07/19 17:08	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/kg	6.8	0.88	1	08/07/19 12:42	08/07/19 17:08	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/kg	6.8	0.96	1	08/07/19 12:42	08/07/19 17:08	106-46-7	2c
1,1-Dichloroethane	ND	ug/kg	6.8	1.7	1	08/07/19 12:42	08/07/19 17:08	75-34-3	2c
1,2-Dichloroethane	ND	ug/kg	6.8	1.7	1	08/07/19 12:42	08/07/19 17:08	107-06-2	2c
1,2-Dichloroethene (Total)	ND	ug/kg	13.5	3.3	1	08/07/19 12:42	08/07/19 17:08	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.8	2.5	1	08/07/19 12:42	08/07/19 17:08	75-35-4	2c
cis-1,2-Dichloroethene	ND	ug/kg	6.8	1.6	1	08/07/19 12:42	08/07/19 17:08	156-59-2	2c
trans-1,2-Dichloroethene	ND	ug/kg	6.8	1.7	1	08/07/19 12:42	08/07/19 17:08	156-60-5	2c
1,2-Dichloropropane	ND	ug/kg	6.8	0.97	1	08/07/19 12:42	08/07/19 17:08	78-87-5	2c
cis-1,3-Dichloropropene	ND	ug/kg	6.8	0.68	1	08/07/19 12:42	08/07/19 17:08	10061-01-5	2c
trans-1,3-Dichloropropene	ND	ug/kg	6.8	1.4	1	08/07/19 12:42	08/07/19 17:08	10061-02-6	2c
Ethylbenzene	ND	ug/kg	6.8	1.5	1	08/07/19 12:42	08/07/19 17:08	100-41-4	2c
2-Hexanone	ND	ug/kg	13.5	1.3	1	08/07/19 12:42	08/07/19 17:08	591-78-6	2c
Isopropylbenzene (Cumene)	ND	ug/kg	6.8	1.6	1	08/07/19 12:42	08/07/19 17:08	98-82-8	2c
Methylene Chloride	ND	ug/kg	6.8	5.7	1	08/07/19 12:42	08/07/19 17:08	75-09-2	2c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	13.5	1.5	1	08/07/19 12:42	08/07/19 17:08	108-10-1	2c
Methyl-tert-butyl ether	ND	ug/kg	6.8	0.91	1	08/07/19 12:42	08/07/19 17:08	1634-04-4	2c
Naphthalene	ND	ug/kg	6.8	1.3	1	08/07/19 12:42	08/07/19 17:08	91-20-3	2c
Styrene	ND	ug/kg	6.8	1.9	1	08/07/19 12:42	08/07/19 17:08	100-42-5	2c
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.8	0.80	1	08/07/19 12:42	08/07/19 17:08	79-34-5	2c
Tetrachloroethene	ND	ug/kg	6.8	2.3	1	08/07/19 12:42	08/07/19 17:08	127-18-4	2c
Toluene	ND	ug/kg	6.8	1.3	1	08/07/19 12:42	08/07/19 17:08	108-88-3	2c
1,2,4-Trichlorobenzene	ND	ug/kg	6.8	1.7	1	08/07/19 12:42	08/07/19 17:08	120-82-1	2c
1,1,1-Trichloroethane	ND	ug/kg	6.8	2.0	1	08/07/19 12:42	08/07/19 17:08	71-55-6	2c
1,1,2-Trichloroethane	ND	ug/kg	6.8	1.3	1	08/07/19 12:42	08/07/19 17:08	79-00-5	2c
Trichloroethene	ND	ug/kg	6.8	2.0	1	08/07/19 12:42	08/07/19 17:08	79-01-6	2c
1,2,4-Trimethylbenzene	ND	ug/kg	6.8	3.3	1	08/07/19 12:42	08/07/19 17:08	95-63-6	2c
1,3,5-Trimethylbenzene	ND	ug/kg	6.8	2.7	1	08/07/19 12:42	08/07/19 17:08	108-67-8	2c
Vinyl chloride	ND	ug/kg	6.8	2.9	1	08/07/19 12:42	08/07/19 17:08	75-01-4	2c
Xylene (Total)	ND	ug/kg	20.3	4.3	1	08/07/19 12:42	08/07/19 17:08	1330-20-7	
m&p-Xylene	ND	ug/kg	13.5	2.8	1	08/07/19 12:42	08/07/19 17:08	179601-23-1	2c
o-Xylene	ND	ug/kg	6.8	1.4	1	08/07/19 12:42	08/07/19 17:08	95-47-6	2c
Surrogates									
Toluene-d8 (S)	97	%	70-130		1	08/07/19 12:42	08/07/19 17:08	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1	08/07/19 12:42	08/07/19 17:08	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1	08/07/19 12:42	08/07/19 17:08	17060-07-0	
Dibromofluoromethane (S)	125	%	70-130		1	08/07/19 12:42	08/07/19 17:08	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **6.8** % 0.10 0.10 1 08/06/19 16:49

9014 Cyanide, Total

Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C

Cyanide ND mg/kg 1.1 0.27 1 08/05/19 14:19 08/08/19 17:07 57-12-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: GW-03 **Lab ID: 30317042007** Collected: 07/30/19 10:20 Received: 07/31/19 09:20 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8081B Organochlorine Pesticide Analytical Method: EPA 8081B Preparation Method: EPA 3510C									
Aldrin	ND	ug/L	0.025	0.0022	1	08/05/19 12:05	08/07/19 18:31	309-00-2	2c
alpha-BHC	ND	ug/L	0.025	0.0033	1	08/05/19 12:05	08/07/19 18:31	319-84-6	2c, CH
beta-BHC	ND	ug/L	0.025	0.0082	1	08/05/19 12:05	08/07/19 18:31	319-85-7	2c
delta-BHC	ND	ug/L	0.025	0.0065	1	08/05/19 12:05	08/07/19 18:31	319-86-8	2c
gamma-BHC (Lindane)	ND	ug/L	0.025	0.0024	1	08/05/19 12:05	08/07/19 18:31	58-89-9	2c, CH
alpha-Chlordane	ND	ug/L	0.025	0.0017	1	08/05/19 12:05	08/07/19 18:31	5103-71-9	2c
gamma-Chlordane	ND	ug/L	0.025	0.0052	1	08/05/19 12:05	08/07/19 18:31	5103-74-2	2c
4,4'-DDD	ND	ug/L	0.050	0.0037	1	08/05/19 12:05	08/07/19 18:31	72-54-8	2c
4,4'-DDE	ND	ug/L	0.050	0.0033	1	08/05/19 12:05	08/07/19 18:31	72-55-9	2c
4,4'-DDT	ND	ug/L	0.050	0.0028	1	08/05/19 12:05	08/07/19 18:31	50-29-3	2c
Dieldrin	ND	ug/L	0.050	0.0018	1	08/05/19 12:05	08/07/19 18:31	60-57-1	2c
Endosulfan I	ND	ug/L	0.025	0.0015	1	08/05/19 12:05	08/07/19 18:31	959-98-8	2c
Endosulfan II	ND	ug/L	0.050	0.0021	1	08/05/19 12:05	08/07/19 18:31	33213-65-9	2c
Endosulfan sulfate	ND	ug/L	0.050	0.0024	1	08/05/19 12:05	08/07/19 18:31	1031-07-8	2c
Endrin	ND	ug/L	0.050	0.0049	1	08/05/19 12:05	08/07/19 18:31	72-20-8	2c
Endrin aldehyde	ND	ug/L	0.050	0.0033	1	08/05/19 12:05	08/07/19 18:31	7421-93-4	2c
Endrin ketone	ND	ug/L	0.050	0.0019	1	08/05/19 12:05	08/07/19 18:31	53494-70-5	2c, CH
Heptachlor	ND	ug/L	0.025	0.0021	1	08/05/19 12:05	08/07/19 18:31	76-44-8	2c
Heptachlor epoxide	ND	ug/L	0.025	0.0015	1	08/05/19 12:05	08/07/19 18:31	1024-57-3	2c
Methoxychlor	ND	ug/L	0.25	0.014	1	08/05/19 12:05	08/07/19 18:31	72-43-5	2c
Toxaphene	ND	ug/L	0.50	0.17	1	08/05/19 12:05	08/07/19 18:31	8001-35-2	2c
Surrogates									
Tetrachloro-m-xylene (S)	72	%	44-93		1	08/05/19 12:05	08/07/19 18:31	877-09-8	CH
Decachlorobiphenyl (S)	73	%	24-108		1	08/05/19 12:05	08/07/19 18:31	2051-24-3	
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3510C									
PCB-1016 (Aroclor 1016)	ND	ug/L	0.25	0.14	1	08/05/19 12:05	08/06/19 15:49	12674-11-2	2c
PCB-1221 (Aroclor 1221)	ND	ug/L	0.25	0.16	1	08/05/19 12:05	08/06/19 15:49	11104-28-2	2c
PCB-1232 (Aroclor 1232)	ND	ug/L	0.25	0.072	1	08/05/19 12:05	08/06/19 15:49	11141-16-5	2c
PCB-1242 (Aroclor 1242)	ND	ug/L	0.25	0.11	1	08/05/19 12:05	08/06/19 15:49	53469-21-9	2c
PCB-1248 (Aroclor 1248)	ND	ug/L	0.25	0.093	1	08/05/19 12:05	08/06/19 15:49	12672-29-6	2c
PCB-1254 (Aroclor 1254)	ND	ug/L	0.25	0.022	1	08/05/19 12:05	08/06/19 15:49	11097-69-1	2c
PCB-1260 (Aroclor 1260)	ND	ug/L	0.25	0.024	1	08/05/19 12:05	08/06/19 15:49	11096-82-5	2c
Surrogates									
Tetrachloro-m-xylene (S)	61	%	36-108		1	08/05/19 12:05	08/06/19 15:49	877-09-8	
Decachlorobiphenyl (S)	65	%	10-120		1	08/05/19 12:05	08/06/19 15:49	2051-24-3	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3005A									
Aluminum	750	ug/L	50.0	20.3	1	08/02/19 15:07	08/06/19 10:40	7429-90-5	
Antimony	ND	ug/L	6.0	3.3	1	08/02/19 15:07	08/06/19 12:30	7440-36-0	
Arsenic	ND	ug/L	5.0	2.0	1	08/02/19 15:07	08/06/19 10:40	7440-38-2	
Barium	101	ug/L	10.0	0.68	1	08/02/19 15:07	08/06/19 10:40	7440-39-3	
Beryllium	ND	ug/L	1.0	0.17	1	08/02/19 15:07	08/06/19 10:40	7440-41-7	
Boron	139	ug/L	50.0	2.3	1	08/02/19 15:07	08/06/19 10:40	7440-42-8	
Cadmium	ND	ug/L	3.0	0.34	1	08/02/19 15:07	08/06/19 10:40	7440-43-9	
Calcium	91300	ug/L	1000	99.9	1	08/02/19 15:07	08/06/19 10:40	7440-70-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: GW-03 **Lab ID: 30317042007** Collected: 07/30/19 10:20 Received: 07/31/19 09:20 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3005A									
Chromium	ND	ug/L	5.0	0.35	1	08/02/19 15:07	08/06/19 10:40	7440-47-3	
Cobalt	ND	ug/L	5.0	0.53	1	08/02/19 15:07	08/06/19 10:40	7440-48-4	
Copper	6.3	ug/L	5.0	2.7	1	08/02/19 15:07	08/06/19 10:40	7440-50-8	
Iron	1070	ug/L	70.0	40.9	1	08/02/19 15:07	08/06/19 10:40	7439-89-6	
Lead	ND	ug/L	5.0	4.9	1	08/02/19 15:07	08/06/19 10:40	7439-92-1	
Magnesium	21400	ug/L	200	28.4	1	08/02/19 15:07	08/06/19 10:40	7439-95-4	
Manganese	114	ug/L	5.0	1.2	1	08/02/19 15:07	08/06/19 10:40	7439-96-5	
Molybdenum	ND	ug/L	20.0	0.85	1	08/02/19 15:07	08/06/19 10:40	7439-98-7	
Nickel	ND	ug/L	10.0	1.5	1	08/02/19 15:07	08/06/19 10:40	7440-02-0	
Potassium	5000	ug/L	500	72.4	1	08/02/19 15:07	08/06/19 10:40	7440-09-7	
Selenium	ND	ug/L	8.0	5.5	1	08/02/19 15:07	08/06/19 10:40	7782-49-2	
Silver	ND	ug/L	6.0	1.4	1	08/02/19 15:07	08/06/19 10:40	7440-22-4	
Sodium	7060	ug/L	1000	423	1	08/02/19 15:07	08/06/19 10:40	7440-23-5	
Thallium	ND	ug/L	10.0	4.0	1	08/02/19 15:07	08/06/19 10:40	7440-28-0	
Vanadium	ND	ug/L	5.0	0.57	1	08/02/19 15:07	08/06/19 10:40	7440-62-2	
Zinc	15.5	ug/L	10.0	2.4	1	08/02/19 15:07	08/06/19 10:40	7440-66-6	

6010C MET ICP, Lab Filtered Analytical Method: EPA 6010C Preparation Method: EPA 3005A									
Aluminum, Dissolved	ND	ug/L	50.0	20.3	1	08/05/19 15:40	08/07/19 09:07	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.3	1	08/05/19 15:40	08/07/19 09:07	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.0	1	08/05/19 15:40	08/07/19 09:07	7440-38-2	
Barium, Dissolved	70.1	ug/L	10.0	0.68	1	08/05/19 15:40	08/07/19 09:07	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.17	1	08/05/19 15:40	08/07/19 09:07	7440-41-7	
Boron, Dissolved	132	ug/L	50.0	2.3	1	08/05/19 15:40	08/07/19 09:07	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.34	1	08/05/19 15:40	08/07/19 09:07	7440-43-9	
Calcium, Dissolved	94600	ug/L	1000	99.9	1	08/05/19 15:40	08/07/19 09:07	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.35	1	08/05/19 15:40	08/07/19 09:07	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.53	1	08/05/19 15:40	08/07/19 09:07	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	2.7	1	08/05/19 15:40	08/07/19 09:07	7440-50-8	
Iron, Dissolved	ND	ug/L	70.0	40.9	1	08/05/19 15:40	08/07/19 09:07	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	4.9	1	08/05/19 15:40	08/07/19 09:07	7439-92-1	
Magnesium, Dissolved	22400	ug/L	200	28.4	1	08/05/19 15:40	08/07/19 09:07	7439-95-4	
Manganese, Dissolved	7.3	ug/L	5.0	1.2	1	08/05/19 15:40	08/07/19 09:07	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	20.0	0.85	1	08/05/19 15:40	08/07/19 09:07	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.5	1	08/05/19 15:40	08/07/19 09:07	7440-02-0	
Potassium, Dissolved	4910	ug/L	500	72.4	1	08/05/19 15:40	08/07/19 09:07	7440-09-7	
Selenium, Dissolved	ND	ug/L	8.0	5.5	1	08/05/19 15:40	08/07/19 09:07	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	1.4	1	08/05/19 15:40	08/07/19 09:07	7440-22-4	
Sodium, Dissolved	7260	ug/L	1000	423	1	08/05/19 15:40	08/07/19 09:07	7440-23-5	
Thallium, Dissolved	ND	ug/L	10.0	4.0	1	08/05/19 15:40	08/07/19 09:07	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.57	1	08/05/19 15:40	08/07/19 09:07	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	2.4	1	08/05/19 15:40	08/07/19 09:07	7440-66-6	

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	ug/L	0.20	0.030	1	08/02/19 16:50	08/05/19 08:34	7439-97-6	5c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: **GW-03** Lab ID: **30317042007** Collected: 07/30/19 10:20 Received: 07/31/19 09:20 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
7470 Mercury, Lab Filtered			Analytical Method: EPA 7470A Preparation Method: EPA 7470A						
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	08/05/19 16:31	08/05/19 21:58	7439-97-6	4c
8270D MSSV Organics			Analytical Method: EPA 8270D Preparation Method: EPA 3510C						
Acenaphthene	ND	ug/L	1.0	0.39	1	08/05/19 08:22	08/06/19 17:28	83-32-9	2c
Acenaphthylene	ND	ug/L	1.0	0.39	1	08/05/19 08:22	08/06/19 17:28	208-96-8	2c
Anthracene	ND	ug/L	1.0	0.27	1	08/05/19 08:22	08/06/19 17:28	120-12-7	2c
Azobenzene	ND	ug/L	1.0	0.36	1	08/05/19 08:22	08/06/19 17:28	103-33-3	2c,N2
Benzo(a)anthracene	ND	ug/L	1.0	0.21	1	08/05/19 08:22	08/06/19 17:28	56-55-3	2c
Benzo(a)pyrene	ND	ug/L	1.0	0.19	1	08/05/19 08:22	08/06/19 17:28	50-32-8	2c
Benzo(b)fluoranthene	ND	ug/L	1.0	0.24	1	08/05/19 08:22	08/06/19 17:28	205-99-2	2c
Benzo(g,h,i)perylene	ND	ug/L	1.0	0.30	1	08/05/19 08:22	08/06/19 17:28	191-24-2	2c,L2
Benzo(k)fluoranthene	ND	ug/L	1.0	0.26	1	08/05/19 08:22	08/06/19 17:28	207-08-9	2c
Benzoic acid	ND	ug/L	15.2	2.8	1	08/05/19 08:22	08/06/19 17:28	65-85-0	2c
Benzyl alcohol	ND	ug/L	1.0	0.71	1	08/05/19 08:22	08/06/19 17:28	100-51-6	2c
4-Bromophenylphenyl ether	ND	ug/L	1.0	0.39	1	08/05/19 08:22	08/06/19 17:28	101-55-3	2c
Butylbenzylphthalate	ND	ug/L	1.0	0.30	1	08/05/19 08:22	08/06/19 17:28	85-68-7	2c
Carbazole	ND	ug/L	1.0	0.24	1	08/05/19 08:22	08/06/19 17:28	86-74-8	2c
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.44	1	08/05/19 08:22	08/06/19 17:28	59-50-7	2c
4-Chloroaniline	ND	ug/L	1.0	0.22	1	08/05/19 08:22	08/06/19 17:28	106-47-8	2c
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	0.36	1	08/05/19 08:22	08/06/19 17:28	111-91-1	2c
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.41	1	08/05/19 08:22	08/06/19 17:28	111-44-4	2c
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	0.41	1	08/05/19 08:22	08/06/19 17:28	108-60-1	2c
2-Chloronaphthalene	ND	ug/L	1.0	0.34	1	08/05/19 08:22	08/06/19 17:28	91-58-7	2c
2-Chlorophenol	ND	ug/L	1.0	0.33	1	08/05/19 08:22	08/06/19 17:28	95-57-8	2c
4-Chlorophenylphenyl ether	ND	ug/L	1.0	0.37	1	08/05/19 08:22	08/06/19 17:28	7005-72-3	2c
Chrysene	ND	ug/L	1.0	0.21	1	08/05/19 08:22	08/06/19 17:28	218-01-9	2c
Dibenz(a,h)anthracene	ND	ug/L	1.0	0.32	1	08/05/19 08:22	08/06/19 17:28	53-70-3	2c,L2
Dibenzofuran	ND	ug/L	1.0	0.37	1	08/05/19 08:22	08/06/19 17:28	132-64-9	2c
1,2-Dichlorobenzene	ND	ug/L	1.0	0.35	1	08/05/19 08:22	08/06/19 17:28	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/L	1.0	0.30	1	08/05/19 08:22	08/06/19 17:28	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/L	1.0	0.28	1	08/05/19 08:22	08/06/19 17:28	106-46-7	2c
3,3'-Dichlorobenzidine	ND	ug/L	1.0	0.23	1	08/05/19 08:22	08/06/19 17:28	91-94-1	2c
2,4-Dichlorophenol	ND	ug/L	1.0	0.34	1	08/05/19 08:22	08/06/19 17:28	120-83-2	2c
Diethylphthalate	ND	ug/L	1.0	0.37	1	08/05/19 08:22	08/06/19 17:28	84-66-2	2c
2,4-Dimethylphenol	ND	ug/L	1.0	0.36	1	08/05/19 08:22	08/06/19 17:28	105-67-9	2c
Dimethylphthalate	ND	ug/L	1.0	0.44	1	08/05/19 08:22	08/06/19 17:28	131-11-3	2c
Di-n-butylphthalate	ND	ug/L	1.0	0.32	1	08/05/19 08:22	08/06/19 17:28	84-74-2	2c
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	0.64	1	08/05/19 08:22	08/06/19 17:28	534-52-1	2c
2,4-Dinitrophenol	ND	ug/L	2.5	0.59	1	08/05/19 08:22	08/06/19 17:28	51-28-5	2c
2,4-Dinitrotoluene	ND	ug/L	1.0	0.36	1	08/05/19 08:22	08/06/19 17:28	121-14-2	2c
2,6-Dinitrotoluene	ND	ug/L	1.0	0.41	1	08/05/19 08:22	08/06/19 17:28	606-20-2	2c
Di-n-octylphthalate	ND	ug/L	1.0	0.27	1	08/05/19 08:22	08/06/19 17:28	117-84-0	2c,L1
bis(2-Ethylhexyl)phthalate	ND	ug/L	1.0	0.36	1	08/05/19 08:22	08/06/19 17:28	117-81-7	2c
Fluoranthene	ND	ug/L	1.0	0.24	1	08/05/19 08:22	08/06/19 17:28	206-44-0	2c
Fluorene	ND	ug/L	1.0	0.37	1	08/05/19 08:22	08/06/19 17:28	86-73-7	2c
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.33	1	08/05/19 08:22	08/06/19 17:28	87-68-3	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: GW-03 **Lab ID: 30317042007** Collected: 07/30/19 10:20 Received: 07/31/19 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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8270D MSSV Organics

Analytical Method: EPA 8270D Preparation Method: EPA 3510C

Hexachlorobenzene	ND	ug/L	1.0	0.31	1	08/05/19 08:22	08/06/19 17:28	118-74-1	2c
Hexachlorocyclopentadiene	ND	ug/L	1.0	0.19	1	08/05/19 08:22	08/06/19 17:28	77-47-4	2c
Hexachloroethane	ND	ug/L	1.0	0.31	1	08/05/19 08:22	08/06/19 17:28	67-72-1	2c
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	0.31	1	08/05/19 08:22	08/06/19 17:28	193-39-5	2c, L2
Isophorone	ND	ug/L	1.0	0.58	1	08/05/19 08:22	08/06/19 17:28	78-59-1	2c
1-Methylnaphthalene	ND	ug/L	1.0	0.36	1	08/05/19 08:22	08/06/19 17:28	90-12-0	2c
2-Methylnaphthalene	ND	ug/L	1.0	0.35	1	08/05/19 08:22	08/06/19 17:28	91-57-6	2c
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	0.37	1	08/05/19 08:22	08/06/19 17:28	95-48-7	2c
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1.9	1	08/05/19 08:22	08/06/19 17:28		2c
Naphthalene	ND	ug/L	1.0	0.35	1	08/05/19 08:22	08/06/19 17:28	91-20-3	2c
2-Nitroaniline	ND	ug/L	2.5	0.72	1	08/05/19 08:22	08/06/19 17:28	88-74-4	2c
3-Nitroaniline	ND	ug/L	2.5	0.97	1	08/05/19 08:22	08/06/19 17:28	99-09-2	2c
4-Nitroaniline	ND	ug/L	2.5	1.9	1	08/05/19 08:22	08/06/19 17:28	100-01-6	2c
Nitrobenzene	ND	ug/L	1.0	0.38	1	08/05/19 08:22	08/06/19 17:28	98-95-3	2c
2-Nitrophenol	ND	ug/L	1.0	0.35	1	08/05/19 08:22	08/06/19 17:28	88-75-5	2c
4-Nitrophenol	ND	ug/L	1.0	0.77	1	08/05/19 08:22	08/06/19 17:28	100-02-7	2c
N-Nitrosodimethylamine	ND	ug/L	1.0	0.26	1	08/05/19 08:22	08/06/19 17:28	62-75-9	2c
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	0.54	1	08/05/19 08:22	08/06/19 17:28	621-64-7	2c
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.26	1	08/05/19 08:22	08/06/19 17:28	86-30-6	2c
Pentachlorophenol	ND	ug/L	2.5	1.1	1	08/05/19 08:22	08/06/19 17:28	87-86-5	2c
Phenanthrene	ND	ug/L	1.0	0.34	1	08/05/19 08:22	08/06/19 17:28	85-01-8	2c
Phenol	ND	ug/L	1.0	0.23	1	08/05/19 08:22	08/06/19 17:28	108-95-2	2c
Pyrene	ND	ug/L	1.0	0.30	1	08/05/19 08:22	08/06/19 17:28	129-00-0	2c
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.32	1	08/05/19 08:22	08/06/19 17:28	120-82-1	2c
2,4,5-Trichlorophenol	ND	ug/L	2.5	0.68	1	08/05/19 08:22	08/06/19 17:28	95-95-4	2c
2,4,6-Trichlorophenol	ND	ug/L	1.0	0.37	1	08/05/19 08:22	08/06/19 17:28	88-06-2	2c

Surrogates

Nitrobenzene-d5 (S)	44	%	10-120		1	08/05/19 08:22	08/06/19 17:28	4165-60-0	
2-Fluorobiphenyl (S)	41	%	10-121		1	08/05/19 08:22	08/06/19 17:28	321-60-8	
Terphenyl-d14 (S)	59	%	43-119		1	08/05/19 08:22	08/06/19 17:28	1718-51-0	
Phenol-d6 (S)	17	%	10-58		1	08/05/19 08:22	08/06/19 17:28	13127-88-3	
2-Fluorophenol (S)	24	%	10-84		1	08/05/19 08:22	08/06/19 17:28	367-12-4	
2,4,6-Tribromophenol (S)	62	%	33-129		1	08/05/19 08:22	08/06/19 17:28	118-79-6	

8260C MSV

Analytical Method: EPA 8260C

Acetone	15.4	ug/L	10.0	5.6	1		08/05/19 16:04	67-64-1	CL
Benzene	ND	ug/L	1.0	0.34	1		08/05/19 16:04	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		08/05/19 16:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		08/05/19 16:04	75-27-4	
Bromoform	ND	ug/L	1.0	0.56	1		08/05/19 16:04	75-25-2	
Bromomethane	ND	ug/L	1.0	0.73	1		08/05/19 16:04	74-83-9	7c, CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		08/05/19 16:04		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		08/05/19 16:04	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		08/05/19 16:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		08/05/19 16:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		08/05/19 16:04	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: GW-03 **Lab ID: 30317042007** Collected: 07/30/19 10:20 Received: 07/31/19 09:20 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260C MSV Analytical Method: EPA 8260C									
Chloroethane	ND	ug/L	1.0	0.64	1		08/05/19 16:04	75-00-3	CH
Chloroform	ND	ug/L	1.0	0.39	1		08/05/19 16:04	67-66-3	
Chloromethane	ND	ug/L	1.0	0.40	1		08/05/19 16:04	74-87-3	L1
Dibromochloromethane	ND	ug/L	1.0	0.43	1		08/05/19 16:04	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		08/05/19 16:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		08/05/19 16:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		08/05/19 16:04	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.24	1		08/05/19 16:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		08/05/19 16:04	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		08/05/19 16:04	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		08/05/19 16:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		08/05/19 16:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.28	1		08/05/19 16:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.28	1		08/05/19 16:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		08/05/19 16:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		08/05/19 16:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		08/05/19 16:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		08/05/19 16:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		08/05/19 16:04	98-82-8	
Methylene Chloride	2.5	ug/L	1.0	0.64	1		08/05/19 16:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		08/05/19 16:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		08/05/19 16:04	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		08/05/19 16:04	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		08/05/19 16:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		08/05/19 16:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		08/05/19 16:04	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		08/05/19 16:04	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		08/05/19 16:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		08/05/19 16:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		08/05/19 16:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.29	1		08/05/19 16:04	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		08/05/19 16:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		08/05/19 16:04	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		08/05/19 16:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		08/05/19 16:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		08/05/19 16:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		08/05/19 16:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	78-122		1		08/05/19 16:04	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		08/05/19 16:04	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		08/05/19 16:04	2037-26-5	
Dibromofluoromethane (S)	99	%	80-120		1		08/05/19 16:04	1868-53-7	

4500CNE Cyanide, Total Analytical Method: SM 4500CNE-2011 Preparation Method: SM 4500CNC-2011

Cyanide	ND	mg/L	0.010	0.0057	1	08/06/19 15:46	08/08/19 16:24	57-12-5	
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-15 **Lab ID: 30317042008** Collected: 07/30/19 10:55 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	209	129	10	08/05/19 08:14	08/06/19 22:47	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	209	186	10	08/05/19 08:14	08/06/19 22:47	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	209	191	10	08/05/19 08:14	08/06/19 22:47	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	209	153	10	08/05/19 08:14	08/06/19 22:47	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	209	120	10	08/05/19 08:14	08/06/19 22:47	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	209	112	10	08/05/19 08:14	08/06/19 22:47	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	209	119	10	08/05/19 08:14	08/06/19 22:47	11096-82-5	ED
PCB, Total	ND	ug/kg	1880	1180	10	08/05/19 08:14	08/06/19 22:47	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	34-114		10	08/05/19 08:14	08/06/19 22:47	877-09-8	
Decachlorobiphenyl (S)	103	%	38-139		10	08/05/19 08:14	08/06/19 22:47	2051-24-3	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	8000	mg/kg	11.2	2.8	1	08/05/19 08:08	08/07/19 10:06	7429-90-5	
Antimony	12.4	mg/kg	0.67	0.54	1	08/05/19 08:08	08/07/19 10:06	7440-36-0	
Arsenic	9.3	mg/kg	0.56	0.54	1	08/05/19 08:08	08/07/19 10:06	7440-38-2	
Barium	146	mg/kg	2.2	0.11	1	08/05/19 08:08	08/07/19 10:06	7440-39-3	
Beryllium	0.52	mg/kg	0.22	0.034	1	08/05/19 08:08	08/07/19 10:06	7440-41-7	
Boron	ND	mg/kg	5.6	0.20	1	08/05/19 08:08	08/07/19 10:06	7440-42-8	
Cadmium	0.53	mg/kg	0.34	0.068	1	08/05/19 08:08	08/07/19 10:06	7440-43-9	
Calcium	4810	mg/kg	224	5.4	1	08/05/19 08:08	08/07/19 10:06	7440-70-2	
Chromium	183	mg/kg	0.56	0.10	1	08/05/19 08:08	08/07/19 10:06	7440-47-3	
Cobalt	11.3	mg/kg	1.1	0.12	1	08/05/19 08:08	08/07/19 10:06	7440-48-4	
Copper	601	mg/kg	1.1	0.65	1	08/05/19 08:08	08/07/19 12:03	7440-50-8	
Iron	31100	mg/kg	11.2	1.3	1	08/05/19 08:08	08/07/19 10:06	7439-89-6	
Lead	661	mg/kg	0.56	0.55	1	08/05/19 08:08	08/07/19 10:06	7439-92-1	
Magnesium	4640	mg/kg	55.9	6.5	1	08/05/19 08:08	08/07/19 10:06	7439-95-4	
Manganese	485	mg/kg	1.1	0.11	1	08/05/19 08:08	08/07/19 10:06	7439-96-5	
Molybdenum	ND	mg/kg	2.2	0.16	1	08/05/19 08:08	08/07/19 10:06	7439-98-7	
Nickel	28.8	mg/kg	2.2	0.28	1	08/05/19 08:08	08/07/19 10:06	7440-02-0	
Potassium	1150	mg/kg	55.9	51.5	1	08/05/19 08:08	08/07/19 10:06	7440-09-7	
Selenium	ND	mg/kg	0.89	0.65	1	08/05/19 08:08	08/07/19 10:06	7782-49-2	
Silver	ND	mg/kg	0.67	0.11	1	08/05/19 08:08	08/07/19 10:06	7440-22-4	
Sodium	ND	mg/kg	559	40.7	1	08/05/19 08:08	08/07/19 10:06	7440-23-5	
Thallium	ND	mg/kg	2.2	0.69	1	08/05/19 08:08	08/07/19 10:06	7440-28-0	
Vanadium	20.2	mg/kg	1.1	0.091	1	08/05/19 08:08	08/07/19 10:06	7440-62-2	
Zinc	193	mg/kg	1.1	0.19	1	08/05/19 08:08	08/07/19 10:06	7440-66-6	B
7471B Mercury									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.12	0.0060	1	08/02/19 09:21	08/02/19 16:56	7439-97-6	
8270D MSSV Microwave									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	1310	ug/kg	422	144	1	08/02/19 22:23	08/06/19 01:37	83-32-9	
Acenaphthylene	ND	ug/kg	422	127	1	08/02/19 22:23	08/06/19 01:37	208-96-8	
Anthracene	ND	ug/kg	422	97.0	1	08/02/19 22:23	08/06/19 01:37	120-12-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-15 **Lab ID: 30317042008** Collected: 07/30/19 10:55 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Azobenzene	ND	ug/kg	422	149	1	08/02/19 22:23	08/06/19 01:37	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	422	190	1	08/02/19 22:23	08/06/19 01:37	56-55-3	
Benzo(a)pyrene	ND	ug/kg	422	131	1	08/02/19 22:23	08/06/19 01:37	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	422	128	1	08/02/19 22:23	08/06/19 01:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	422	146	1	08/02/19 22:23	08/06/19 01:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	422	187	1	08/02/19 22:23	08/06/19 01:37	207-08-9	
Benzoic acid	ND	ug/kg	6340	2140	1	08/02/19 22:23	08/06/19 01:37	65-85-0	CH
Benzyl alcohol	ND	ug/kg	422	373	1	08/02/19 22:23	08/06/19 01:37	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	422	155	1	08/02/19 22:23	08/06/19 01:37	101-55-3	
Butylbenzylphthalate	ND	ug/kg	422	119	1	08/02/19 22:23	08/06/19 01:37	85-68-7	
Carbazole	ND	ug/kg	422	166	1	08/02/19 22:23	08/06/19 01:37	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	422	68.0	1	08/02/19 22:23	08/06/19 01:37	59-50-7	
4-Chloroaniline	ND	ug/kg	422	74.3	1	08/02/19 22:23	08/06/19 01:37	106-47-8	L1
bis(2-Chloroethoxy)methane	ND	ug/kg	422	167	1	08/02/19 22:23	08/06/19 01:37	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	422	77.1	1	08/02/19 22:23	08/06/19 01:37	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	422	358	1	08/02/19 22:23	08/06/19 01:37	108-60-1	
2-Chloronaphthalene	ND	ug/kg	422	121	1	08/02/19 22:23	08/06/19 01:37	91-58-7	
2-Chlorophenol	ND	ug/kg	422	132	1	08/02/19 22:23	08/06/19 01:37	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	422	122	1	08/02/19 22:23	08/06/19 01:37	7005-72-3	
Chrysene	ND	ug/kg	422	156	1	08/02/19 22:23	08/06/19 01:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	422	161	1	08/02/19 22:23	08/06/19 01:37	53-70-3	
Dibenzofuran	1090	ug/kg	422	135	1	08/02/19 22:23	08/06/19 01:37	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	422	132	1	08/02/19 22:23	08/06/19 01:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	422	125	1	08/02/19 22:23	08/06/19 01:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	422	58.3	1	08/02/19 22:23	08/06/19 01:37	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	422	124	1	08/02/19 22:23	08/06/19 01:37	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	422	190	1	08/02/19 22:23	08/06/19 01:37	120-83-2	
Diethylphthalate	ND	ug/kg	422	149	1	08/02/19 22:23	08/06/19 01:37	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	422	128	1	08/02/19 22:23	08/06/19 01:37	105-67-9	L1
Dimethylphthalate	ND	ug/kg	422	130	1	08/02/19 22:23	08/06/19 01:37	131-11-3	
Di-n-butylphthalate	ND	ug/kg	422	142	1	08/02/19 22:23	08/06/19 01:37	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1060	315	1	08/02/19 22:23	08/06/19 01:37	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1060	950	1	08/02/19 22:23	08/06/19 01:37	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	422	128	1	08/02/19 22:23	08/06/19 01:37	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	422	128	1	08/02/19 22:23	08/06/19 01:37	606-20-2	
Di-n-octylphthalate	ND	ug/kg	422	95.9	1	08/02/19 22:23	08/06/19 01:37	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	422	135	1	08/02/19 22:23	08/06/19 01:37	117-81-7	
Fluoranthene	ND	ug/kg	422	136	1	08/02/19 22:23	08/06/19 01:37	206-44-0	
Fluorene	ND	ug/kg	422	129	1	08/02/19 22:23	08/06/19 01:37	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	422	138	1	08/02/19 22:23	08/06/19 01:37	87-68-3	
Hexachlorobenzene	ND	ug/kg	422	121	1	08/02/19 22:23	08/06/19 01:37	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	422	99.9	1	08/02/19 22:23	08/06/19 01:37	77-47-4	
Hexachloroethane	ND	ug/kg	422	114	1	08/02/19 22:23	08/06/19 01:37	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	422	159	1	08/02/19 22:23	08/06/19 01:37	193-39-5	
Isophorone	628	ug/kg	422	139	1	08/02/19 22:23	08/06/19 01:37	78-59-1	L1

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-15 **Lab ID: 30317042008** Collected: 07/30/19 10:55 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
1-Methylnaphthalene	13000	ug/kg	2110	531	5	08/02/19 22:23	08/07/19 00:00	90-12-0	L1
2-Methylnaphthalene	20800	ug/kg	2110	635	5	08/02/19 22:23	08/07/19 00:00	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	422	152	1	08/02/19 22:23	08/06/19 01:37	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	845	259	1	08/02/19 22:23	08/06/19 01:37		
Naphthalene	3060	ug/kg	422	115	1	08/02/19 22:23	08/06/19 01:37	91-20-3	
2-Nitroaniline	ND	ug/kg	1060	147	1	08/02/19 22:23	08/06/19 01:37	88-74-4	
3-Nitroaniline	ND	ug/kg	1060	276	1	08/02/19 22:23	08/06/19 01:37	99-09-2	
4-Nitroaniline	ND	ug/kg	1060	593	1	08/02/19 22:23	08/06/19 01:37	100-01-6	
Nitrobenzene	ND	ug/kg	422	157	1	08/02/19 22:23	08/06/19 01:37	98-95-3	
2-Nitrophenol	ND	ug/kg	422	168	1	08/02/19 22:23	08/06/19 01:37	88-75-5	
4-Nitrophenol	ND	ug/kg	422	142	1	08/02/19 22:23	08/06/19 01:37	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	422	72.4	1	08/02/19 22:23	08/06/19 01:37	62-75-9	CH,L1
N-Nitroso-di-n-propylamine	ND	ug/kg	422	179	1	08/02/19 22:23	08/06/19 01:37	621-64-7	
N-Nitrosodiphenylamine	1090	ug/kg	422	95.2	1	08/02/19 22:23	08/06/19 01:37	86-30-6	
Pentachlorophenol	ND	ug/kg	1060	556	1	08/02/19 22:23	08/06/19 01:37	87-86-5	
Phenanthrene	3010	ug/kg	422	186	1	08/02/19 22:23	08/06/19 01:37	85-01-8	
Phenol	ND	ug/kg	422	125	1	08/02/19 22:23	08/06/19 01:37	108-95-2	
Pyrene	595	ug/kg	422	154	1	08/02/19 22:23	08/06/19 01:37	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	422	114	1	08/02/19 22:23	08/06/19 01:37	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1060	125	1	08/02/19 22:23	08/06/19 01:37	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	422	110	1	08/02/19 22:23	08/06/19 01:37	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	106	%	45-103		1	08/02/19 22:23	08/06/19 01:37	4165-60-0	ST
2-Fluorobiphenyl (S)	111	%	52-102		1	08/02/19 22:23	08/06/19 01:37	321-60-8	ST
Terphenyl-d14 (S)	70	%	53-135		1	08/02/19 22:23	08/06/19 01:37	1718-51-0	
Phenol-d6 (S)	79	%	35-120		1	08/02/19 22:23	08/06/19 01:37	13127-88-3	
2-Fluorophenol (S)	78	%	10-147		1	08/02/19 22:23	08/06/19 01:37	367-12-4	
2,4,6-Tribromophenol (S)	100	%	10-160		1	08/02/19 22:23	08/06/19 01:37	118-79-6	
8260C MSV 5035 Low Level Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
Acetone	222	ug/kg	14.0	4.5	1	08/07/19 12:42	08/07/19 17:36	67-64-1	2c,3c
Benzene	10.3	ug/kg	7.0	1.2	1	08/07/19 12:42	08/07/19 17:36	71-43-2	2c
Bromochloromethane	ND	ug/kg	7.0	1.5	1	08/07/19 12:42	08/07/19 17:36	74-97-5	2c
Bromodichloromethane	ND	ug/kg	7.0	1.5	1	08/07/19 12:42	08/07/19 17:36	75-27-4	2c
Bromoform	ND	ug/kg	7.0	0.92	1	08/07/19 12:42	08/07/19 17:36	75-25-2	2c
Bromomethane	ND	ug/kg	7.0	2.6	1	08/07/19 12:42	08/07/19 17:36	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	42.0	8.6	1	08/07/19 12:42	08/07/19 17:36		
2-Butanone (MEK)	44.4	ug/kg	14.0	1.3	1	08/07/19 12:42	08/07/19 17:36	78-93-3	2c,3c
Carbon disulfide	28.9	ug/kg	7.0	2.0	1	08/07/19 12:42	08/07/19 17:36	75-15-0	2c
Carbon tetrachloride	ND	ug/kg	7.0	2.4	1	08/07/19 12:42	08/07/19 17:36	56-23-5	2c,CL
Chlorobenzene	ND	ug/kg	7.0	1.1	1	08/07/19 12:42	08/07/19 17:36	108-90-7	2c
Chloroethane	ND	ug/kg	7.0	2.9	1	08/07/19 12:42	08/07/19 17:36	75-00-3	2c
Chloroform	ND	ug/kg	7.0	2.1	1	08/07/19 12:42	08/07/19 17:36	67-66-3	2c
Chloromethane	ND	ug/kg	7.0	2.4	1	08/07/19 12:42	08/07/19 17:36	74-87-3	2c
Dibromochloromethane	ND	ug/kg	7.0	1.1	1	08/07/19 12:42	08/07/19 17:36	124-48-1	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-15 **Lab ID: 30317042008** Collected: 07/30/19 10:55 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
1,2-Dichlorobenzene	ND	ug/kg	7.0	0.83	1	08/07/19 12:42	08/07/19 17:36	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/kg	7.0	0.91	1	08/07/19 12:42	08/07/19 17:36	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/kg	7.0	0.99	1	08/07/19 12:42	08/07/19 17:36	106-46-7	2c
1,1-Dichloroethane	ND	ug/kg	7.0	1.8	1	08/07/19 12:42	08/07/19 17:36	75-34-3	2c
1,2-Dichloroethane	ND	ug/kg	7.0	1.8	1	08/07/19 12:42	08/07/19 17:36	107-06-2	2c
1,2-Dichloroethene (Total)	ND	ug/kg	14.0	3.4	1	08/07/19 12:42	08/07/19 17:36	540-59-0	
1,1-Dichloroethene	ND	ug/kg	7.0	2.6	1	08/07/19 12:42	08/07/19 17:36	75-35-4	2c
cis-1,2-Dichloroethene	ND	ug/kg	7.0	1.6	1	08/07/19 12:42	08/07/19 17:36	156-59-2	2c
trans-1,2-Dichloroethene	ND	ug/kg	7.0	1.8	1	08/07/19 12:42	08/07/19 17:36	156-60-5	2c
1,2-Dichloropropane	ND	ug/kg	7.0	1.0	1	08/07/19 12:42	08/07/19 17:36	78-87-5	2c
cis-1,3-Dichloropropene	ND	ug/kg	7.0	0.70	1	08/07/19 12:42	08/07/19 17:36	10061-01-5	2c
trans-1,3-Dichloropropene	ND	ug/kg	7.0	1.5	1	08/07/19 12:42	08/07/19 17:36	10061-02-6	2c
Ethylbenzene	ND	ug/kg	7.0	1.5	1	08/07/19 12:42	08/07/19 17:36	100-41-4	2c
2-Hexanone	ND	ug/kg	14.0	1.4	1	08/07/19 12:42	08/07/19 17:36	591-78-6	2c
Isopropylbenzene (Cumene)	ND	ug/kg	7.0	1.6	1	08/07/19 12:42	08/07/19 17:36	98-82-8	2c
Methylene Chloride	ND	ug/kg	7.0	5.9	1	08/07/19 12:42	08/07/19 17:36	75-09-2	2c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	14.0	1.6	1	08/07/19 12:42	08/07/19 17:36	108-10-1	2c
Methyl-tert-butyl ether	ND	ug/kg	7.0	0.94	1	08/07/19 12:42	08/07/19 17:36	1634-04-4	2c
Naphthalene	41.3	ug/kg	7.0	1.3	1	08/07/19 12:42	08/07/19 17:36	91-20-3	2c
Styrene	ND	ug/kg	7.0	2.0	1	08/07/19 12:42	08/07/19 17:36	100-42-5	2c
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.0	0.83	1	08/07/19 12:42	08/07/19 17:36	79-34-5	2c
Tetrachloroethene	ND	ug/kg	7.0	2.4	1	08/07/19 12:42	08/07/19 17:36	127-18-4	2c
Toluene	ND	ug/kg	7.0	1.4	1	08/07/19 12:42	08/07/19 17:36	108-88-3	2c
1,2,4-Trichlorobenzene	ND	ug/kg	7.0	1.8	1	08/07/19 12:42	08/07/19 17:36	120-82-1	2c
1,1,1-Trichloroethane	ND	ug/kg	7.0	2.1	1	08/07/19 12:42	08/07/19 17:36	71-55-6	2c
1,1,2-Trichloroethane	ND	ug/kg	7.0	1.4	1	08/07/19 12:42	08/07/19 17:36	79-00-5	2c
Trichloroethene	ND	ug/kg	7.0	2.1	1	08/07/19 12:42	08/07/19 17:36	79-01-6	2c
1,2,4-Trimethylbenzene	95.3	ug/kg	7.0	3.4	1	08/07/19 12:42	08/07/19 17:36	95-63-6	2c
1,3,5-Trimethylbenzene	23.2	ug/kg	7.0	2.8	1	08/07/19 12:42	08/07/19 17:36	108-67-8	2c
Vinyl chloride	ND	ug/kg	7.0	3.0	1	08/07/19 12:42	08/07/19 17:36	75-01-4	2c
Xylene (Total)	ND	ug/kg	21.0	4.4	1	08/07/19 12:42	08/07/19 17:36	1330-20-7	
m&p-Xylene	ND	ug/kg	14.0	2.9	1	08/07/19 12:42	08/07/19 17:36	179601-23-1	2c
o-Xylene	ND	ug/kg	7.0	1.5	1	08/07/19 12:42	08/07/19 17:36	95-47-6	2c
Surrogates									
Toluene-d8 (S)	86	%	70-130		1	08/07/19 12:42	08/07/19 17:36	2037-26-5	
4-Bromofluorobenzene (S)	116	%	70-130		1	08/07/19 12:42	08/07/19 17:36	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1	08/07/19 12:42	08/07/19 17:36	17060-07-0	
Dibromofluoromethane (S)	102	%	70-130		1	08/07/19 12:42	08/07/19 17:36	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **21.6** % 0.10 0.10 1 08/06/19 16:49

9014 Cyanide, Total

Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C

Cyanide **3.2** mg/kg 1.2 0.31 1 08/05/19 14:19 08/08/19 17:07 57-12-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: **GW-09** Lab ID: **30317042009** Collected: 07/30/19 10:55 Received: 07/31/19 09:20 Matrix: Water

Comments: • Headspace in one vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics									
Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	6.2	ug/L	0.99	0.39	1	08/05/19 08:22	08/06/19 19:39	83-32-9	2c
Acenaphthylene	ND	ug/L	0.99	0.38	1	08/05/19 08:22	08/06/19 19:39	208-96-8	2c
Anthracene	ND	ug/L	0.99	0.26	1	08/05/19 08:22	08/06/19 19:39	120-12-7	2c
Azobenzene	ND	ug/L	0.99	0.35	1	08/05/19 08:22	08/06/19 19:39	103-33-3	2c,N2
Benzo(a)anthracene	ND	ug/L	0.99	0.20	1	08/05/19 08:22	08/06/19 19:39	56-55-3	2c
Benzo(a)pyrene	ND	ug/L	0.99	0.18	1	08/05/19 08:22	08/06/19 19:39	50-32-8	2c,IS
Benzo(b)fluoranthene	ND	ug/L	0.99	0.23	1	08/05/19 08:22	08/06/19 19:39	205-99-2	2c,IS
Benzo(g,h,i)perylene	ND	ug/L	0.99	0.29	1	08/05/19 08:22	08/06/19 19:39	191-24-2	2c,IS,L2
Benzo(k)fluoranthene	ND	ug/L	0.99	0.25	1	08/05/19 08:22	08/06/19 19:39	207-08-9	2c,IS
Benzoic acid	ND	ug/L	14.9	2.8	1	08/05/19 08:22	08/06/19 19:39	65-85-0	2c
Benzyl alcohol	ND	ug/L	0.99	0.69	1	08/05/19 08:22	08/06/19 19:39	100-51-6	2c
4-Bromophenylphenyl ether	ND	ug/L	0.99	0.39	1	08/05/19 08:22	08/06/19 19:39	101-55-3	2c
Butylbenzylphthalate	ND	ug/L	0.99	0.29	1	08/05/19 08:22	08/06/19 19:39	85-68-7	2c
Carbazole	ND	ug/L	0.99	0.23	1	08/05/19 08:22	08/06/19 19:39	86-74-8	2c
4-Chloro-3-methylphenol	ND	ug/L	0.99	0.43	1	08/05/19 08:22	08/06/19 19:39	59-50-7	2c
4-Chloroaniline	2.0	ug/L	0.99	0.21	1	08/05/19 08:22	08/06/19 19:39	106-47-8	2c
bis(2-Chloroethoxy)methane	ND	ug/L	0.99	0.35	1	08/05/19 08:22	08/06/19 19:39	111-91-1	2c
bis(2-Chloroethyl) ether	ND	ug/L	0.99	0.41	1	08/05/19 08:22	08/06/19 19:39	111-44-4	2c
bis(2-Chloroisopropyl) ether	ND	ug/L	0.99	0.40	1	08/05/19 08:22	08/06/19 19:39	108-60-1	2c
2-Chloronaphthalene	ND	ug/L	0.99	0.33	1	08/05/19 08:22	08/06/19 19:39	91-58-7	2c
2-Chlorophenol	ND	ug/L	0.99	0.32	1	08/05/19 08:22	08/06/19 19:39	95-57-8	2c
4-Chlorophenylphenyl ether	ND	ug/L	0.99	0.36	1	08/05/19 08:22	08/06/19 19:39	7005-72-3	2c
Chrysene	ND	ug/L	0.99	0.20	1	08/05/19 08:22	08/06/19 19:39	218-01-9	2c
Dibenz(a,h)anthracene	ND	ug/L	0.99	0.31	1	08/05/19 08:22	08/06/19 19:39	53-70-3	2c,IS,L2
Dibenzofuran	6.3	ug/L	0.99	0.36	1	08/05/19 08:22	08/06/19 19:39	132-64-9	2c
1,2-Dichlorobenzene	ND	ug/L	0.99	0.34	1	08/05/19 08:22	08/06/19 19:39	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/L	0.99	0.30	1	08/05/19 08:22	08/06/19 19:39	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/L	0.99	0.27	1	08/05/19 08:22	08/06/19 19:39	106-46-7	2c
3,3'-Dichlorobenzidine	ND	ug/L	0.99	0.22	1	08/05/19 08:22	08/06/19 19:39	91-94-1	2c
2,4-Dichlorophenol	ND	ug/L	0.99	0.33	1	08/05/19 08:22	08/06/19 19:39	120-83-2	2c
Diethylphthalate	ND	ug/L	0.99	0.36	1	08/05/19 08:22	08/06/19 19:39	84-66-2	2c
2,4-Dimethylphenol	ND	ug/L	0.99	0.36	1	08/05/19 08:22	08/06/19 19:39	105-67-9	2c
Dimethylphthalate	ND	ug/L	0.99	0.43	1	08/05/19 08:22	08/06/19 19:39	131-11-3	2c
Di-n-butylphthalate	ND	ug/L	0.99	0.32	1	08/05/19 08:22	08/06/19 19:39	84-74-2	2c
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	0.63	1	08/05/19 08:22	08/06/19 19:39	534-52-1	2c
2,4-Dinitrophenol	ND	ug/L	2.5	0.58	1	08/05/19 08:22	08/06/19 19:39	51-28-5	2c
2,4-Dinitrotoluene	ND	ug/L	0.99	0.35	1	08/05/19 08:22	08/06/19 19:39	121-14-2	2c
2,6-Dinitrotoluene	ND	ug/L	0.99	0.40	1	08/05/19 08:22	08/06/19 19:39	606-20-2	2c
Di-n-octylphthalate	ND	ug/L	0.99	0.27	1	08/05/19 08:22	08/06/19 19:39	117-84-0	2c,IS,L1
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.99	0.36	1	08/05/19 08:22	08/06/19 19:39	117-81-7	2c
Fluoranthene	ND	ug/L	0.99	0.23	1	08/05/19 08:22	08/06/19 19:39	206-44-0	2c
Fluorene	11.0	ug/L	0.99	0.37	1	08/05/19 08:22	08/06/19 19:39	86-73-7	2c
Hexachloro-1,3-butadiene	ND	ug/L	0.99	0.33	1	08/05/19 08:22	08/06/19 19:39	87-68-3	2c
Hexachlorobenzene	ND	ug/L	0.99	0.30	1	08/05/19 08:22	08/06/19 19:39	118-74-1	2c
Hexachlorocyclopentadiene	ND	ug/L	0.99	0.19	1	08/05/19 08:22	08/06/19 19:39	77-47-4	2c

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: GW-09 **Lab ID: 30317042009** Collected: 07/30/19 10:55 Received: 07/31/19 09:20 Matrix: Water

Comments: • Headspace in one vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Organics									
Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Hexachloroethane	ND	ug/L	0.99	0.30	1	08/05/19 08:22	08/06/19 19:39	67-72-1	2c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.99	0.30	1	08/05/19 08:22	08/06/19 19:39	193-39-5	2c, IS, L2
Isophorone	ND	ug/L	0.99	0.57	1	08/05/19 08:22	08/06/19 19:39	78-59-1	2c
1-Methylnaphthalene	94.6	ug/L	9.9	3.6	10	08/05/19 08:22	08/07/19 16:12	90-12-0	2c
2-Methylnaphthalene	98.9	ug/L	9.9	3.4	10	08/05/19 08:22	08/07/19 16:12	91-57-6	2c
2-Methylphenol(o-Cresol)	ND	ug/L	0.99	0.36	1	08/05/19 08:22	08/06/19 19:39	95-48-7	2c
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1.9	1	08/05/19 08:22	08/06/19 19:39		2c
Naphthalene	1.3	ug/L	0.99	0.35	1	08/05/19 08:22	08/06/19 19:39	91-20-3	2c
2-Nitroaniline	ND	ug/L	2.5	0.71	1	08/05/19 08:22	08/06/19 19:39	88-74-4	2c
3-Nitroaniline	ND	ug/L	2.5	0.95	1	08/05/19 08:22	08/06/19 19:39	99-09-2	2c
4-Nitroaniline	ND	ug/L	2.5	1.8	1	08/05/19 08:22	08/06/19 19:39	100-01-6	2c
Nitrobenzene	ND	ug/L	0.99	0.37	1	08/05/19 08:22	08/06/19 19:39	98-95-3	2c
2-Nitrophenol	ND	ug/L	0.99	0.35	1	08/05/19 08:22	08/06/19 19:39	88-75-5	2c
4-Nitrophenol	ND	ug/L	0.99	0.75	1	08/05/19 08:22	08/06/19 19:39	100-02-7	2c
N-Nitrosodimethylamine	ND	ug/L	0.99	0.26	1	08/05/19 08:22	08/06/19 19:39	62-75-9	2c
N-Nitroso-di-n-propylamine	ND	ug/L	0.99	0.53	1	08/05/19 08:22	08/06/19 19:39	621-64-7	2c
N-Nitrosodiphenylamine	2.1	ug/L	0.99	0.25	1	08/05/19 08:22	08/06/19 19:39	86-30-6	2c
Pentachlorophenol	ND	ug/L	2.5	1.0	1	08/05/19 08:22	08/06/19 19:39	87-86-5	2c
Phenanthrene	11.6	ug/L	0.99	0.34	1	08/05/19 08:22	08/06/19 19:39	85-01-8	2c
Phenol	ND	ug/L	0.99	0.22	1	08/05/19 08:22	08/06/19 19:39	108-95-2	2c
Pyrene	1.2	ug/L	0.99	0.30	1	08/05/19 08:22	08/06/19 19:39	129-00-0	2c
1,2,4-Trichlorobenzene	ND	ug/L	0.99	0.31	1	08/05/19 08:22	08/06/19 19:39	120-82-1	2c
2,4,5-Trichlorophenol	ND	ug/L	2.5	0.66	1	08/05/19 08:22	08/06/19 19:39	95-95-4	2c
2,4,6-Trichlorophenol	ND	ug/L	0.99	0.36	1	08/05/19 08:22	08/06/19 19:39	88-06-2	2c
Surrogates									
Nitrobenzene-d5 (S)	81	%	10-120		1	08/05/19 08:22	08/06/19 19:39	4165-60-0	
2-Fluorobiphenyl (S)	74	%	10-121		1	08/05/19 08:22	08/06/19 19:39	321-60-8	
Terphenyl-d14 (S)	91	%	43-119		1	08/05/19 08:22	08/06/19 19:39	1718-51-0	
Phenol-d6 (S)	16	%	10-58		1	08/05/19 08:22	08/06/19 19:39	13127-88-3	
2-Fluorophenol (S)	22	%	10-84		1	08/05/19 08:22	08/06/19 19:39	367-12-4	
2,4,6-Tribromophenol (S)	90	%	33-129		1	08/05/19 08:22	08/06/19 19:39	118-79-6	
8260C MSV									
Analytical Method: EPA 8260C									
Acetone	19.8	ug/L	10.0	5.6	1		08/05/19 18:06	67-64-1	CL
Benzene	ND	ug/L	1.0	0.34	1		08/05/19 18:06	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		08/05/19 18:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		08/05/19 18:06	75-27-4	
Bromoform	ND	ug/L	1.0	0.56	1		08/05/19 18:06	75-25-2	
Bromomethane	ND	ug/L	1.0	0.73	1		08/05/19 18:06	74-83-9	7c, CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		08/05/19 18:06		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		08/05/19 18:06	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		08/05/19 18:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		08/05/19 18:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		08/05/19 18:06	108-90-7	
Chloroethane	ND	ug/L	1.0	0.64	1		08/05/19 18:06	75-00-3	CH

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: GW-09 **Lab ID: 30317042009** Collected: 07/30/19 10:55 Received: 07/31/19 09:20 Matrix: Water

Comments: • Headspace in one vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV									
Analytical Method: EPA 8260C									
Chloroform	ND	ug/L	1.0	0.39	1		08/05/19 18:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.40	1		08/05/19 18:06	74-87-3	L1
Dibromochloromethane	ND	ug/L	1.0	0.43	1		08/05/19 18:06	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		08/05/19 18:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		08/05/19 18:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		08/05/19 18:06	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.24	1		08/05/19 18:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		08/05/19 18:06	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		08/05/19 18:06	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		08/05/19 18:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		08/05/19 18:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.28	1		08/05/19 18:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.28	1		08/05/19 18:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		08/05/19 18:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		08/05/19 18:06	10061-02-6	
Ethylbenzene	1.3	ug/L	1.0	0.40	1		08/05/19 18:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		08/05/19 18:06	591-78-6	
Isopropylbenzene (Cumene)	4.1	ug/L	1.0	0.47	1		08/05/19 18:06	98-82-8	
Methylene Chloride	1.3	ug/L	1.0	0.64	1		08/05/19 18:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		08/05/19 18:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		08/05/19 18:06	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		08/05/19 18:06	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		08/05/19 18:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		08/05/19 18:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		08/05/19 18:06	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		08/05/19 18:06	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		08/05/19 18:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		08/05/19 18:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		08/05/19 18:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.29	1		08/05/19 18:06	79-01-6	
1,2,4-Trimethylbenzene	30.2	ug/L	1.0	0.63	1		08/05/19 18:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		08/05/19 18:06	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		08/05/19 18:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		08/05/19 18:06	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		08/05/19 18:06	179601-23-1	
o-Xylene	1.1	ug/L	1.0	0.41	1		08/05/19 18:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	78-122		1		08/05/19 18:06	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120		1		08/05/19 18:06	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		08/05/19 18:06	2037-26-5	
Dibromofluoromethane (S)	105	%	80-120		1		08/05/19 18:06	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-16 **Lab ID: 30317042010** Collected: 07/30/19 11:45 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	184	113	10	08/05/19 08:14	08/06/19 23:04	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	184	163	10	08/05/19 08:14	08/06/19 23:04	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	184	167	10	08/05/19 08:14	08/06/19 23:04	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	184	134	10	08/05/19 08:14	08/06/19 23:04	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	184	106	10	08/05/19 08:14	08/06/19 23:04	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	184	97.9	10	08/05/19 08:14	08/06/19 23:04	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	184	105	10	08/05/19 08:14	08/06/19 23:04	11096-82-5	ED
PCB, Total	ND	ug/kg	1650	1040	10	08/05/19 08:14	08/06/19 23:04	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	34-114		10	08/05/19 08:14	08/06/19 23:04	877-09-8	
Decachlorobiphenyl (S)	113	%	38-139		10	08/05/19 08:14	08/06/19 23:04	2051-24-3	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	7770	mg/kg	10.0	2.5	1	08/05/19 08:08	08/07/19 10:08	7429-90-5	
Antimony	1.8	mg/kg	0.60	0.48	1	08/05/19 08:08	08/07/19 10:08	7440-36-0	
Arsenic	18.6	mg/kg	0.50	0.48	1	08/05/19 08:08	08/07/19 10:08	7440-38-2	
Barium	123	mg/kg	2.0	0.094	1	08/05/19 08:08	08/07/19 10:08	7440-39-3	
Beryllium	0.53	mg/kg	0.20	0.030	1	08/05/19 08:08	08/07/19 10:08	7440-41-7	
Boron	ND	mg/kg	5.0	0.18	1	08/05/19 08:08	08/07/19 10:08	7440-42-8	
Cadmium	0.41	mg/kg	0.30	0.061	1	08/05/19 08:08	08/07/19 10:08	7440-43-9	
Calcium	3500	mg/kg	200	4.9	1	08/05/19 08:08	08/07/19 10:08	7440-70-2	
Chromium	20.3	mg/kg	0.50	0.092	1	08/05/19 08:08	08/07/19 10:08	7440-47-3	
Cobalt	11.3	mg/kg	1.0	0.11	1	08/05/19 08:08	08/07/19 10:08	7440-48-4	
Copper	116	mg/kg	1.0	0.58	1	08/05/19 08:08	08/07/19 12:05	7440-50-8	
Iron	33400	mg/kg	10.0	1.2	1	08/05/19 08:08	08/07/19 10:08	7439-89-6	
Lead	303	mg/kg	0.50	0.49	1	08/05/19 08:08	08/07/19 10:08	7439-92-1	
Magnesium	3080	mg/kg	50.1	5.8	1	08/05/19 08:08	08/07/19 10:08	7439-95-4	
Manganese	493	mg/kg	1.0	0.10	1	08/05/19 08:08	08/07/19 10:08	7439-96-5	
Molybdenum	ND	mg/kg	2.0	0.14	1	08/05/19 08:08	08/07/19 10:08	7439-98-7	
Nickel	29.3	mg/kg	2.0	0.25	1	08/05/19 08:08	08/07/19 10:08	7440-02-0	
Potassium	969	mg/kg	50.1	46.1	1	08/05/19 08:08	08/07/19 10:08	7440-09-7	
Selenium	1.3	mg/kg	0.80	0.58	1	08/05/19 08:08	08/07/19 10:08	7782-49-2	
Silver	ND	mg/kg	0.60	0.097	1	08/05/19 08:08	08/07/19 10:08	7440-22-4	
Sodium	ND	mg/kg	501	36.5	1	08/05/19 08:08	08/07/19 10:08	7440-23-5	
Thallium	ND	mg/kg	2.0	0.61	1	08/05/19 08:08	08/07/19 10:08	7440-28-0	
Vanadium	19.0	mg/kg	1.0	0.081	1	08/05/19 08:08	08/07/19 10:08	7440-62-2	
Zinc	153	mg/kg	1.0	0.17	1	08/05/19 08:08	08/07/19 10:08	7440-66-6	B
7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	3.2	mg/kg	0.54	0.026	5	08/02/19 09:21	08/02/19 18:19	7439-97-6	
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	367	125	1	08/02/19 22:23	08/06/19 01:15	83-32-9	
Acenaphthylene	ND	ug/kg	367	110	1	08/02/19 22:23	08/06/19 01:15	208-96-8	
Anthracene	ND	ug/kg	367	84.2	1	08/02/19 22:23	08/06/19 01:15	120-12-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-16 Lab ID: 30317042010 Collected: 07/30/19 11:45 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Azobenzene	ND	ug/kg	367	129	1	08/02/19 22:23	08/06/19 01:15	103-33-3	N2
Benzo(a)anthracene	1290	ug/kg	367	165	1	08/02/19 22:23	08/06/19 01:15	56-55-3	
Benzo(a)pyrene	1310	ug/kg	367	114	1	08/02/19 22:23	08/06/19 01:15	50-32-8	
Benzo(b)fluoranthene	1750	ug/kg	367	111	1	08/02/19 22:23	08/06/19 01:15	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	367	127	1	08/02/19 22:23	08/06/19 01:15	191-24-2	
Benzo(k)fluoranthene	1440	ug/kg	367	162	1	08/02/19 22:23	08/06/19 01:15	207-08-9	
Benzoic acid	ND	ug/kg	5500	1860	1	08/02/19 22:23	08/06/19 01:15	65-85-0	CH
Benzyl alcohol	ND	ug/kg	367	324	1	08/02/19 22:23	08/06/19 01:15	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	367	135	1	08/02/19 22:23	08/06/19 01:15	101-55-3	
Butylbenzylphthalate	ND	ug/kg	367	103	1	08/02/19 22:23	08/06/19 01:15	85-68-7	
Carbazole	ND	ug/kg	367	144	1	08/02/19 22:23	08/06/19 01:15	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	367	59.0	1	08/02/19 22:23	08/06/19 01:15	59-50-7	
4-Chloroaniline	ND	ug/kg	367	64.5	1	08/02/19 22:23	08/06/19 01:15	106-47-8	L1
bis(2-Chloroethoxy)methane	ND	ug/kg	367	145	1	08/02/19 22:23	08/06/19 01:15	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	367	66.9	1	08/02/19 22:23	08/06/19 01:15	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	367	311	1	08/02/19 22:23	08/06/19 01:15	108-60-1	
2-Chloronaphthalene	ND	ug/kg	367	105	1	08/02/19 22:23	08/06/19 01:15	91-58-7	
2-Chlorophenol	ND	ug/kg	367	114	1	08/02/19 22:23	08/06/19 01:15	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	367	106	1	08/02/19 22:23	08/06/19 01:15	7005-72-3	
Chrysene	1560	ug/kg	367	136	1	08/02/19 22:23	08/06/19 01:15	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	367	139	1	08/02/19 22:23	08/06/19 01:15	53-70-3	
Dibenzofuran	ND	ug/kg	367	118	1	08/02/19 22:23	08/06/19 01:15	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	367	115	1	08/02/19 22:23	08/06/19 01:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	367	109	1	08/02/19 22:23	08/06/19 01:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	367	50.6	1	08/02/19 22:23	08/06/19 01:15	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	367	108	1	08/02/19 22:23	08/06/19 01:15	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	367	165	1	08/02/19 22:23	08/06/19 01:15	120-83-2	
Diethylphthalate	ND	ug/kg	367	129	1	08/02/19 22:23	08/06/19 01:15	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	367	111	1	08/02/19 22:23	08/06/19 01:15	105-67-9	L1
Dimethylphthalate	ND	ug/kg	367	113	1	08/02/19 22:23	08/06/19 01:15	131-11-3	
Di-n-butylphthalate	ND	ug/kg	367	124	1	08/02/19 22:23	08/06/19 01:15	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	917	273	1	08/02/19 22:23	08/06/19 01:15	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	917	824	1	08/02/19 22:23	08/06/19 01:15	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	367	111	1	08/02/19 22:23	08/06/19 01:15	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	367	112	1	08/02/19 22:23	08/06/19 01:15	606-20-2	
Di-n-octylphthalate	ND	ug/kg	367	83.2	1	08/02/19 22:23	08/06/19 01:15	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	367	117	1	08/02/19 22:23	08/06/19 01:15	117-81-7	
Fluoranthene	1700	ug/kg	367	118	1	08/02/19 22:23	08/06/19 01:15	206-44-0	
Fluorene	ND	ug/kg	367	112	1	08/02/19 22:23	08/06/19 01:15	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	367	119	1	08/02/19 22:23	08/06/19 01:15	87-68-3	
Hexachlorobenzene	ND	ug/kg	367	105	1	08/02/19 22:23	08/06/19 01:15	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	367	86.8	1	08/02/19 22:23	08/06/19 01:15	77-47-4	
Hexachloroethane	ND	ug/kg	367	99.0	1	08/02/19 22:23	08/06/19 01:15	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	367	138	1	08/02/19 22:23	08/06/19 01:15	193-39-5	
Isophorone	ND	ug/kg	367	121	1	08/02/19 22:23	08/06/19 01:15	78-59-1	L1

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-16 **Lab ID: 30317042010** Collected: 07/30/19 11:45 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
1-Methylnaphthalene	ND	ug/kg	367	92.1	1	08/02/19 22:23	08/06/19 01:15	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	367	110	1	08/02/19 22:23	08/06/19 01:15	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	367	132	1	08/02/19 22:23	08/06/19 01:15	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	733	225	1	08/02/19 22:23	08/06/19 01:15		
Naphthalene	ND	ug/kg	367	99.4	1	08/02/19 22:23	08/06/19 01:15	91-20-3	
2-Nitroaniline	ND	ug/kg	917	127	1	08/02/19 22:23	08/06/19 01:15	88-74-4	
3-Nitroaniline	ND	ug/kg	917	239	1	08/02/19 22:23	08/06/19 01:15	99-09-2	
4-Nitroaniline	ND	ug/kg	917	515	1	08/02/19 22:23	08/06/19 01:15	100-01-6	
Nitrobenzene	ND	ug/kg	367	136	1	08/02/19 22:23	08/06/19 01:15	98-95-3	
2-Nitrophenol	ND	ug/kg	367	146	1	08/02/19 22:23	08/06/19 01:15	88-75-5	
4-Nitrophenol	ND	ug/kg	367	123	1	08/02/19 22:23	08/06/19 01:15	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	367	62.9	1	08/02/19 22:23	08/06/19 01:15	62-75-9	CH,L1
N-Nitroso-di-n-propylamine	ND	ug/kg	367	155	1	08/02/19 22:23	08/06/19 01:15	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	367	82.7	1	08/02/19 22:23	08/06/19 01:15	86-30-6	
Pentachlorophenol	ND	ug/kg	917	483	1	08/02/19 22:23	08/06/19 01:15	87-86-5	
Phenanthrene	823	ug/kg	367	161	1	08/02/19 22:23	08/06/19 01:15	85-01-8	
Phenol	ND	ug/kg	367	109	1	08/02/19 22:23	08/06/19 01:15	108-95-2	
Pyrene	1920	ug/kg	367	134	1	08/02/19 22:23	08/06/19 01:15	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	367	99.2	1	08/02/19 22:23	08/06/19 01:15	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	917	108	1	08/02/19 22:23	08/06/19 01:15	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	367	95.8	1	08/02/19 22:23	08/06/19 01:15	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	88	%	45-103		1	08/02/19 22:23	08/06/19 01:15	4165-60-0	
2-Fluorobiphenyl (S)	88	%	52-102		1	08/02/19 22:23	08/06/19 01:15	321-60-8	
Terphenyl-d14 (S)	81	%	53-135		1	08/02/19 22:23	08/06/19 01:15	1718-51-0	
Phenol-d6 (S)	93	%	35-120		1	08/02/19 22:23	08/06/19 01:15	13127-88-3	
2-Fluorophenol (S)	95	%	10-147		1	08/02/19 22:23	08/06/19 01:15	367-12-4	
2,4,6-Tribromophenol (S)	82	%	10-160		1	08/02/19 22:23	08/06/19 01:15	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Acetone	156	ug/kg	13.7	4.4	1	08/07/19 12:42	08/07/19 18:03	67-64-1	2c,3c
Benzene	ND	ug/kg	6.9	1.2	1	08/07/19 12:42	08/07/19 18:03	71-43-2	2c
Bromochloromethane	ND	ug/kg	6.9	1.5	1	08/07/19 12:42	08/07/19 18:03	74-97-5	2c
Bromodichloromethane	ND	ug/kg	6.9	1.5	1	08/07/19 12:42	08/07/19 18:03	75-27-4	2c
Bromoform	ND	ug/kg	6.9	0.91	1	08/07/19 12:42	08/07/19 18:03	75-25-2	2c
Bromomethane	ND	ug/kg	6.9	2.6	1	08/07/19 12:42	08/07/19 18:03	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	41.2	8.4	1	08/07/19 12:42	08/07/19 18:03		
2-Butanone (MEK)	ND	ug/kg	13.7	1.3	1	08/07/19 12:42	08/07/19 18:03	78-93-3	2c,3c
Carbon disulfide	ND	ug/kg	6.9	2.0	1	08/07/19 12:42	08/07/19 18:03	75-15-0	2c
Carbon tetrachloride	ND	ug/kg	6.9	2.4	1	08/07/19 12:42	08/07/19 18:03	56-23-5	2c,CL
Chlorobenzene	ND	ug/kg	6.9	1.1	1	08/07/19 12:42	08/07/19 18:03	108-90-7	2c
Chloroethane	ND	ug/kg	6.9	2.9	1	08/07/19 12:42	08/07/19 18:03	75-00-3	2c
Chloroform	ND	ug/kg	6.9	2.1	1	08/07/19 12:42	08/07/19 18:03	67-66-3	2c
Chloromethane	ND	ug/kg	6.9	2.3	1	08/07/19 12:42	08/07/19 18:03	74-87-3	2c
Dibromochloromethane	ND	ug/kg	6.9	1.1	1	08/07/19 12:42	08/07/19 18:03	124-48-1	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-16 **Lab ID: 30317042010** Collected: 07/30/19 11:45 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
1,2-Dichlorobenzene	ND	ug/kg	6.9	0.81	1	08/07/19 12:42	08/07/19 18:03	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/kg	6.9	0.89	1	08/07/19 12:42	08/07/19 18:03	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/kg	6.9	0.98	1	08/07/19 12:42	08/07/19 18:03	106-46-7	2c
1,1-Dichloroethane	ND	ug/kg	6.9	1.7	1	08/07/19 12:42	08/07/19 18:03	75-34-3	2c
1,2-Dichloroethane	ND	ug/kg	6.9	1.8	1	08/07/19 12:42	08/07/19 18:03	107-06-2	2c
1,2-Dichloroethene (Total)	ND	ug/kg	13.7	3.3	1	08/07/19 12:42	08/07/19 18:03	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.9	2.6	1	08/07/19 12:42	08/07/19 18:03	75-35-4	2c
cis-1,2-Dichloroethene	ND	ug/kg	6.9	1.6	1	08/07/19 12:42	08/07/19 18:03	156-59-2	2c
trans-1,2-Dichloroethene	ND	ug/kg	6.9	1.7	1	08/07/19 12:42	08/07/19 18:03	156-60-5	2c
1,2-Dichloropropane	ND	ug/kg	6.9	0.99	1	08/07/19 12:42	08/07/19 18:03	78-87-5	2c
cis-1,3-Dichloropropene	ND	ug/kg	6.9	0.69	1	08/07/19 12:42	08/07/19 18:03	10061-01-5	2c
trans-1,3-Dichloropropene	ND	ug/kg	6.9	1.4	1	08/07/19 12:42	08/07/19 18:03	10061-02-6	2c
Ethylbenzene	ND	ug/kg	6.9	1.5	1	08/07/19 12:42	08/07/19 18:03	100-41-4	2c
2-Hexanone	ND	ug/kg	13.7	1.3	1	08/07/19 12:42	08/07/19 18:03	591-78-6	2c
Isopropylbenzene (Cumene)	ND	ug/kg	6.9	1.6	1	08/07/19 12:42	08/07/19 18:03	98-82-8	2c
Methylene Chloride	ND	ug/kg	6.9	5.8	1	08/07/19 12:42	08/07/19 18:03	75-09-2	2c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	13.7	1.5	1	08/07/19 12:42	08/07/19 18:03	108-10-1	2c
Methyl-tert-butyl ether	ND	ug/kg	6.9	0.92	1	08/07/19 12:42	08/07/19 18:03	1634-04-4	2c
Naphthalene	ND	ug/kg	6.9	1.3	1	08/07/19 12:42	08/07/19 18:03	91-20-3	2c
Styrene	ND	ug/kg	6.9	2.0	1	08/07/19 12:42	08/07/19 18:03	100-42-5	2c
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.9	0.81	1	08/07/19 12:42	08/07/19 18:03	79-34-5	2c
Tetrachloroethene	ND	ug/kg	6.9	2.4	1	08/07/19 12:42	08/07/19 18:03	127-18-4	2c
Toluene	ND	ug/kg	6.9	1.4	1	08/07/19 12:42	08/07/19 18:03	108-88-3	2c
1,2,4-Trichlorobenzene	ND	ug/kg	6.9	1.7	1	08/07/19 12:42	08/07/19 18:03	120-82-1	2c
1,1,1-Trichloroethane	ND	ug/kg	6.9	2.1	1	08/07/19 12:42	08/07/19 18:03	71-55-6	2c
1,1,2-Trichloroethane	ND	ug/kg	6.9	1.4	1	08/07/19 12:42	08/07/19 18:03	79-00-5	2c
Trichloroethene	ND	ug/kg	6.9	2.0	1	08/07/19 12:42	08/07/19 18:03	79-01-6	2c
1,2,4-Trimethylbenzene	ND	ug/kg	6.9	3.4	1	08/07/19 12:42	08/07/19 18:03	95-63-6	2c
1,3,5-Trimethylbenzene	ND	ug/kg	6.9	2.8	1	08/07/19 12:42	08/07/19 18:03	108-67-8	2c
Vinyl chloride	ND	ug/kg	6.9	3.0	1	08/07/19 12:42	08/07/19 18:03	75-01-4	2c
Xylene (Total)	ND	ug/kg	20.6	4.4	1	08/07/19 12:42	08/07/19 18:03	1330-20-7	
m&p-Xylene	ND	ug/kg	13.7	2.9	1	08/07/19 12:42	08/07/19 18:03	179601-23-1	2c
o-Xylene	ND	ug/kg	6.9	1.5	1	08/07/19 12:42	08/07/19 18:03	95-47-6	2c
Surrogates									
Toluene-d8 (S)	99	%	70-130		1	08/07/19 12:42	08/07/19 18:03	2037-26-5	
4-Bromofluorobenzene (S)	85	%	70-130		1	08/07/19 12:42	08/07/19 18:03	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1	08/07/19 12:42	08/07/19 18:03	17060-07-0	
Dibromofluoromethane (S)	94	%	70-130		1	08/07/19 12:42	08/07/19 18:03	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **10.8** % 0.10 0.10 1 08/06/19 16:49

9014 Cyanide, Total

Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C

Cyanide ND mg/kg 1.1 0.27 1 08/05/19 14:19 08/08/19 17:10 57-12-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-24 **Lab ID: 30317042011** Collected: 07/30/19 12:20 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	90.9	56.1	5	08/05/19 08:14	08/06/19 23:12	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	90.9	80.6	5	08/05/19 08:14	08/06/19 23:12	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	90.9	82.8	5	08/05/19 08:14	08/06/19 23:12	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	90.9	66.4	5	08/05/19 08:14	08/06/19 23:12	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	90.9	52.3	5	08/05/19 08:14	08/06/19 23:12	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	90.9	48.5	5	08/05/19 08:14	08/06/19 23:12	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	90.9	51.7	5	08/05/19 08:14	08/06/19 23:12	11096-82-5	ED
PCB, Total	ND	ug/kg	818	514	5	08/05/19 08:14	08/06/19 23:12	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	106	%	34-114		5	08/05/19 08:14	08/06/19 23:12	877-09-8	
Decachlorobiphenyl (S)	126	%	38-139		5	08/05/19 08:14	08/06/19 23:12	2051-24-3	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	7620	mg/kg	10.4	2.6	1	08/05/19 08:08	08/07/19 10:10	7429-90-5	
Antimony	ND	mg/kg	0.62	0.50	1	08/05/19 08:08	08/07/19 10:10	7440-36-0	
Arsenic	4.4	mg/kg	0.52	0.50	1	08/05/19 08:08	08/07/19 10:10	7440-38-2	
Barium	75.4	mg/kg	2.1	0.097	1	08/05/19 08:08	08/07/19 10:10	7440-39-3	
Beryllium	0.35	mg/kg	0.21	0.031	1	08/05/19 08:08	08/07/19 10:10	7440-41-7	
Boron	ND	mg/kg	5.2	0.18	1	08/05/19 08:08	08/07/19 10:10	7440-42-8	
Cadmium	0.39	mg/kg	0.31	0.063	1	08/05/19 08:08	08/07/19 10:10	7440-43-9	
Calcium	2110	mg/kg	207	5.0	1	08/05/19 08:08	08/07/19 10:10	7440-70-2	
Chromium	12.0	mg/kg	0.52	0.095	1	08/05/19 08:08	08/07/19 10:10	7440-47-3	
Cobalt	5.9	mg/kg	1.0	0.11	1	08/05/19 08:08	08/07/19 10:10	7440-48-4	
Copper	44.8	mg/kg	1.0	0.60	1	08/05/19 08:08	08/07/19 12:07	7440-50-8	
Iron	15500	mg/kg	10.4	1.2	1	08/05/19 08:08	08/07/19 10:10	7439-89-6	
Lead	176	mg/kg	0.52	0.51	1	08/05/19 08:08	08/07/19 10:10	7439-92-1	
Magnesium	2630	mg/kg	51.8	6.0	1	08/05/19 08:08	08/07/19 10:10	7439-95-4	
Manganese	338	mg/kg	1.0	0.10	1	08/05/19 08:08	08/07/19 10:10	7439-96-5	
Molybdenum	ND	mg/kg	2.1	0.15	1	08/05/19 08:08	08/07/19 10:10	7439-98-7	
Nickel	13.3	mg/kg	2.1	0.26	1	08/05/19 08:08	08/07/19 10:10	7440-02-0	
Potassium	849	mg/kg	51.8	47.7	1	08/05/19 08:08	08/07/19 10:10	7440-09-7	
Selenium	ND	mg/kg	0.83	0.61	1	08/05/19 08:08	08/07/19 10:10	7782-49-2	
Silver	ND	mg/kg	0.62	0.10	1	08/05/19 08:08	08/07/19 10:10	7440-22-4	
Sodium	ND	mg/kg	518	37.7	1	08/05/19 08:08	08/07/19 10:10	7440-23-5	
Thallium	ND	mg/kg	2.1	0.64	1	08/05/19 08:08	08/07/19 10:10	7440-28-0	
Vanadium	13.1	mg/kg	1.0	0.084	1	08/05/19 08:08	08/07/19 10:10	7440-62-2	
Zinc	125	mg/kg	1.0	0.17	1	08/05/19 08:08	08/07/19 10:10	7440-66-6	B
7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.81	mg/kg	0.10	0.0051	1	08/02/19 09:21	08/02/19 17:01	7439-97-6	
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	368	125	1	08/02/19 22:23	08/06/19 00:08	83-32-9	
Acenaphthylene	ND	ug/kg	368	111	1	08/02/19 22:23	08/06/19 00:08	208-96-8	
Anthracene	ND	ug/kg	368	84.6	1	08/02/19 22:23	08/06/19 00:08	120-12-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-24 **Lab ID: 30317042011** Collected: 07/30/19 12:20 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Azobenzene	ND	ug/kg	368	130	1	08/02/19 22:23	08/06/19 00:08	103-33-3	N2
Benzo(a)anthracene	469	ug/kg	368	165	1	08/02/19 22:23	08/06/19 00:08	56-55-3	
Benzo(a)pyrene	383	ug/kg	368	114	1	08/02/19 22:23	08/06/19 00:08	50-32-8	
Benzo(b)fluoranthene	552	ug/kg	368	112	1	08/02/19 22:23	08/06/19 00:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	368	128	1	08/02/19 22:23	08/06/19 00:08	191-24-2	
Benzo(k)fluoranthene	409	ug/kg	368	163	1	08/02/19 22:23	08/06/19 00:08	207-08-9	
Benzoic acid	ND	ug/kg	5520	1870	1	08/02/19 22:23	08/06/19 00:08	65-85-0	CH
Benzyl alcohol	ND	ug/kg	368	325	1	08/02/19 22:23	08/06/19 00:08	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	368	135	1	08/02/19 22:23	08/06/19 00:08	101-55-3	
Butylbenzylphthalate	ND	ug/kg	368	103	1	08/02/19 22:23	08/06/19 00:08	85-68-7	
Carbazole	ND	ug/kg	368	145	1	08/02/19 22:23	08/06/19 00:08	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	368	59.3	1	08/02/19 22:23	08/06/19 00:08	59-50-7	
4-Chloroaniline	ND	ug/kg	368	64.8	1	08/02/19 22:23	08/06/19 00:08	106-47-8	L1
bis(2-Chloroethoxy)methane	ND	ug/kg	368	146	1	08/02/19 22:23	08/06/19 00:08	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	368	67.2	1	08/02/19 22:23	08/06/19 00:08	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	368	312	1	08/02/19 22:23	08/06/19 00:08	108-60-1	
2-Chloronaphthalene	ND	ug/kg	368	105	1	08/02/19 22:23	08/06/19 00:08	91-58-7	
2-Chlorophenol	ND	ug/kg	368	115	1	08/02/19 22:23	08/06/19 00:08	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	368	106	1	08/02/19 22:23	08/06/19 00:08	7005-72-3	
Chrysene	578	ug/kg	368	136	1	08/02/19 22:23	08/06/19 00:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	368	140	1	08/02/19 22:23	08/06/19 00:08	53-70-3	
Dibenzofuran	ND	ug/kg	368	118	1	08/02/19 22:23	08/06/19 00:08	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	368	115	1	08/02/19 22:23	08/06/19 00:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	368	109	1	08/02/19 22:23	08/06/19 00:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	368	50.9	1	08/02/19 22:23	08/06/19 00:08	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	368	108	1	08/02/19 22:23	08/06/19 00:08	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	368	165	1	08/02/19 22:23	08/06/19 00:08	120-83-2	
Diethylphthalate	ND	ug/kg	368	130	1	08/02/19 22:23	08/06/19 00:08	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	368	112	1	08/02/19 22:23	08/06/19 00:08	105-67-9	L1
Dimethylphthalate	ND	ug/kg	368	114	1	08/02/19 22:23	08/06/19 00:08	131-11-3	
Di-n-butylphthalate	ND	ug/kg	368	124	1	08/02/19 22:23	08/06/19 00:08	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	921	274	1	08/02/19 22:23	08/06/19 00:08	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	921	828	1	08/02/19 22:23	08/06/19 00:08	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	368	112	1	08/02/19 22:23	08/06/19 00:08	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	368	112	1	08/02/19 22:23	08/06/19 00:08	606-20-2	
Di-n-octylphthalate	ND	ug/kg	368	83.6	1	08/02/19 22:23	08/06/19 00:08	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	368	117	1	08/02/19 22:23	08/06/19 00:08	117-81-7	
Fluoranthene	894	ug/kg	368	119	1	08/02/19 22:23	08/06/19 00:08	206-44-0	
Fluorene	ND	ug/kg	368	113	1	08/02/19 22:23	08/06/19 00:08	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	368	120	1	08/02/19 22:23	08/06/19 00:08	87-68-3	
Hexachlorobenzene	ND	ug/kg	368	106	1	08/02/19 22:23	08/06/19 00:08	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	368	87.1	1	08/02/19 22:23	08/06/19 00:08	77-47-4	
Hexachloroethane	ND	ug/kg	368	99.4	1	08/02/19 22:23	08/06/19 00:08	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	368	139	1	08/02/19 22:23	08/06/19 00:08	193-39-5	
Isophorone	ND	ug/kg	368	121	1	08/02/19 22:23	08/06/19 00:08	78-59-1	L1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-24 **Lab ID: 30317042011** Collected: 07/30/19 12:20 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
1-Methylnaphthalene	ND	ug/kg	368	92.5	1	08/02/19 22:23	08/06/19 00:08	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	368	111	1	08/02/19 22:23	08/06/19 00:08	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	368	132	1	08/02/19 22:23	08/06/19 00:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	736	226	1	08/02/19 22:23	08/06/19 00:08		
Naphthalene	ND	ug/kg	368	99.8	1	08/02/19 22:23	08/06/19 00:08	91-20-3	
2-Nitroaniline	ND	ug/kg	921	128	1	08/02/19 22:23	08/06/19 00:08	88-74-4	
3-Nitroaniline	ND	ug/kg	921	240	1	08/02/19 22:23	08/06/19 00:08	99-09-2	
4-Nitroaniline	ND	ug/kg	921	517	1	08/02/19 22:23	08/06/19 00:08	100-01-6	
Nitrobenzene	ND	ug/kg	368	136	1	08/02/19 22:23	08/06/19 00:08	98-95-3	
2-Nitrophenol	ND	ug/kg	368	146	1	08/02/19 22:23	08/06/19 00:08	88-75-5	
4-Nitrophenol	ND	ug/kg	368	124	1	08/02/19 22:23	08/06/19 00:08	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	368	63.1	1	08/02/19 22:23	08/06/19 00:08	62-75-9	CH,L1
N-Nitroso-di-n-propylamine	ND	ug/kg	368	156	1	08/02/19 22:23	08/06/19 00:08	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	368	83.0	1	08/02/19 22:23	08/06/19 00:08	86-30-6	
Pentachlorophenol	ND	ug/kg	921	485	1	08/02/19 22:23	08/06/19 00:08	87-86-5	
Phenanthrene	ND	ug/kg	368	162	1	08/02/19 22:23	08/06/19 00:08	85-01-8	
Phenol	ND	ug/kg	368	109	1	08/02/19 22:23	08/06/19 00:08	108-95-2	
Pyrene	853	ug/kg	368	135	1	08/02/19 22:23	08/06/19 00:08	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	368	99.6	1	08/02/19 22:23	08/06/19 00:08	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	921	109	1	08/02/19 22:23	08/06/19 00:08	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	368	96.2	1	08/02/19 22:23	08/06/19 00:08	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	84	%	45-103		1	08/02/19 22:23	08/06/19 00:08	4165-60-0	
2-Fluorobiphenyl (S)	85	%	52-102		1	08/02/19 22:23	08/06/19 00:08	321-60-8	
Terphenyl-d14 (S)	86	%	53-135		1	08/02/19 22:23	08/06/19 00:08	1718-51-0	
Phenol-d6 (S)	91	%	35-120		1	08/02/19 22:23	08/06/19 00:08	13127-88-3	
2-Fluorophenol (S)	92	%	10-147		1	08/02/19 22:23	08/06/19 00:08	367-12-4	
2,4,6-Tribromophenol (S)	80	%	10-160		1	08/02/19 22:23	08/06/19 00:08	118-79-6	
8260C MSV 5035 Low Level Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
Acetone	209	ug/kg	10.2	3.2	1	08/07/19 12:42	08/07/19 18:31	67-64-1	2c,3c
Benzene	ND	ug/kg	5.1	0.89	1	08/07/19 12:42	08/07/19 18:31	71-43-2	2c
Bromochloromethane	ND	ug/kg	5.1	1.1	1	08/07/19 12:42	08/07/19 18:31	74-97-5	2c
Bromodichloromethane	ND	ug/kg	5.1	1.1	1	08/07/19 12:42	08/07/19 18:31	75-27-4	2c
Bromoform	ND	ug/kg	5.1	0.67	1	08/07/19 12:42	08/07/19 18:31	75-25-2	2c
Bromomethane	ND	ug/kg	5.1	1.9	1	08/07/19 12:42	08/07/19 18:31	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	30.6	6.2	1	08/07/19 12:42	08/07/19 18:31		
2-Butanone (MEK)	11.8	ug/kg	10.2	0.93	1	08/07/19 12:42	08/07/19 18:31	78-93-3	2c,3c
Carbon disulfide	6.4	ug/kg	5.1	1.4	1	08/07/19 12:42	08/07/19 18:31	75-15-0	2c
Carbon tetrachloride	ND	ug/kg	5.1	1.8	1	08/07/19 12:42	08/07/19 18:31	56-23-5	2c,CL
Chlorobenzene	ND	ug/kg	5.1	0.80	1	08/07/19 12:42	08/07/19 18:31	108-90-7	2c
Chloroethane	ND	ug/kg	5.1	2.1	1	08/07/19 12:42	08/07/19 18:31	75-00-3	2c
Chloroform	ND	ug/kg	5.1	1.5	1	08/07/19 12:42	08/07/19 18:31	67-66-3	2c
Chloromethane	ND	ug/kg	5.1	1.7	1	08/07/19 12:42	08/07/19 18:31	74-87-3	2c
Dibromochloromethane	ND	ug/kg	5.1	0.81	1	08/07/19 12:42	08/07/19 18:31	124-48-1	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-24 **Lab ID: 30317042011** Collected: 07/30/19 12:20 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level									
Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
1,2-Dichlorobenzene	ND	ug/kg	5.1	0.60	1	08/07/19 12:42	08/07/19 18:31	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/kg	5.1	0.66	1	08/07/19 12:42	08/07/19 18:31	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/kg	5.1	0.72	1	08/07/19 12:42	08/07/19 18:31	106-46-7	2c
1,1-Dichloroethane	ND	ug/kg	5.1	1.3	1	08/07/19 12:42	08/07/19 18:31	75-34-3	2c
1,2-Dichloroethane	ND	ug/kg	5.1	1.3	1	08/07/19 12:42	08/07/19 18:31	107-06-2	2c
1,2-Dichloroethene (Total)	ND	ug/kg	10.2	2.5	1	08/07/19 12:42	08/07/19 18:31	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.1	1.9	1	08/07/19 12:42	08/07/19 18:31	75-35-4	2c
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1.2	1	08/07/19 12:42	08/07/19 18:31	156-59-2	2c
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1.3	1	08/07/19 12:42	08/07/19 18:31	156-60-5	2c
1,2-Dichloropropane	ND	ug/kg	5.1	0.74	1	08/07/19 12:42	08/07/19 18:31	78-87-5	2c
cis-1,3-Dichloropropene	ND	ug/kg	5.1	0.51	1	08/07/19 12:42	08/07/19 18:31	10061-01-5	2c
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1.1	1	08/07/19 12:42	08/07/19 18:31	10061-02-6	2c
Ethylbenzene	ND	ug/kg	5.1	1.1	1	08/07/19 12:42	08/07/19 18:31	100-41-4	2c
2-Hexanone	ND	ug/kg	10.2	1.0	1	08/07/19 12:42	08/07/19 18:31	591-78-6	2c
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	1.2	1	08/07/19 12:42	08/07/19 18:31	98-82-8	2c
Methylene Chloride	ND	ug/kg	5.1	4.3	1	08/07/19 12:42	08/07/19 18:31	75-09-2	2c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.2	1.1	1	08/07/19 12:42	08/07/19 18:31	108-10-1	2c
Methyl-tert-butyl ether	ND	ug/kg	5.1	0.68	1	08/07/19 12:42	08/07/19 18:31	1634-04-4	2c
Naphthalene	ND	ug/kg	5.1	0.96	1	08/07/19 12:42	08/07/19 18:31	91-20-3	2c
Styrene	ND	ug/kg	5.1	1.5	1	08/07/19 12:42	08/07/19 18:31	100-42-5	2c
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	0.60	1	08/07/19 12:42	08/07/19 18:31	79-34-5	2c
Tetrachloroethene	ND	ug/kg	5.1	1.8	1	08/07/19 12:42	08/07/19 18:31	127-18-4	2c
Toluene	ND	ug/kg	5.1	1.0	1	08/07/19 12:42	08/07/19 18:31	108-88-3	2c
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1.3	1	08/07/19 12:42	08/07/19 18:31	120-82-1	2c
1,1,1-Trichloroethane	ND	ug/kg	5.1	1.5	1	08/07/19 12:42	08/07/19 18:31	71-55-6	2c
1,1,2-Trichloroethane	ND	ug/kg	5.1	1.0	1	08/07/19 12:42	08/07/19 18:31	79-00-5	2c
Trichloroethene	ND	ug/kg	5.1	1.5	1	08/07/19 12:42	08/07/19 18:31	79-01-6	2c
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	2.5	1	08/07/19 12:42	08/07/19 18:31	95-63-6	2c
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	2.1	1	08/07/19 12:42	08/07/19 18:31	108-67-8	2c
Vinyl chloride	ND	ug/kg	5.1	2.2	1	08/07/19 12:42	08/07/19 18:31	75-01-4	2c
Xylene (Total)	ND	ug/kg	15.3	3.2	1	08/07/19 12:42	08/07/19 18:31	1330-20-7	
m&p-Xylene	ND	ug/kg	10.2	2.1	1	08/07/19 12:42	08/07/19 18:31	179601-23-1	2c
o-Xylene	ND	ug/kg	5.1	1.1	1	08/07/19 12:42	08/07/19 18:31	95-47-6	2c
Surrogates									
Toluene-d8 (S)	96	%	70-130		1	08/07/19 12:42	08/07/19 18:31	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1	08/07/19 12:42	08/07/19 18:31	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1	08/07/19 12:42	08/07/19 18:31	17060-07-0	
Dibromofluoromethane (S)	99	%	70-130		1	08/07/19 12:42	08/07/19 18:31	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **10.6** % 0.10 0.10 1 08/06/19 16:50

9014 Cyanide, Total

Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C

Cyanide **1.7** mg/kg 0.93 0.24 1 08/05/19 14:19 08/08/19 17:10 57-12-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-17 **Lab ID: 30317042012** Collected: 07/30/19 12:40 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	21.0	12.9	1	08/05/19 08:14	08/06/19 23:29	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	21.0	18.6	1	08/05/19 08:14	08/06/19 23:29	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	21.0	19.1	1	08/05/19 08:14	08/06/19 23:29	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	21.0	15.3	1	08/05/19 08:14	08/06/19 23:29	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	21.0	12.1	1	08/05/19 08:14	08/06/19 23:29	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	21.0	11.2	1	08/05/19 08:14	08/06/19 23:29	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	21.0	11.9	1	08/05/19 08:14	08/06/19 23:29	11096-82-5	
PCB, Total	ND	ug/kg	189	118	1	08/05/19 08:14	08/06/19 23:29	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	34-114		1	08/05/19 08:14	08/06/19 23:29	877-09-8	
Decachlorobiphenyl (S)	98	%	38-139		1	08/05/19 08:14	08/06/19 23:29	2051-24-3	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	14100	mg/kg	11.8	2.9	1	08/05/19 08:08	08/07/19 10:13	7429-90-5	
Antimony	ND	mg/kg	0.71	0.57	1	08/05/19 08:08	08/07/19 10:13	7440-36-0	
Arsenic	8.3	mg/kg	0.59	0.57	1	08/05/19 08:08	08/07/19 10:13	7440-38-2	
Barium	92.0	mg/kg	2.4	0.11	1	08/05/19 08:08	08/07/19 10:13	7440-39-3	
Beryllium	0.61	mg/kg	0.24	0.036	1	08/05/19 08:08	08/07/19 10:13	7440-41-7	
Boron	ND	mg/kg	5.9	0.21	1	08/05/19 08:08	08/07/19 10:13	7440-42-8	
Cadmium	ND	mg/kg	0.35	0.072	1	08/05/19 08:08	08/07/19 10:13	7440-43-9	
Calcium	2300	mg/kg	236	5.7	1	08/05/19 08:08	08/07/19 10:13	7440-70-2	
Chromium	18.5	mg/kg	0.59	0.11	1	08/05/19 08:08	08/07/19 10:13	7440-47-3	
Cobalt	11.5	mg/kg	1.2	0.12	1	08/05/19 08:08	08/07/19 10:13	7440-48-4	
Copper	31.7	mg/kg	1.2	0.69	1	08/05/19 08:08	08/07/19 12:09	7440-50-8	
Iron	28200	mg/kg	11.8	1.4	1	08/05/19 08:08	08/07/19 10:13	7439-89-6	
Lead	16.3	mg/kg	0.59	0.58	1	08/05/19 08:08	08/07/19 10:13	7439-92-1	
Magnesium	4840	mg/kg	58.9	6.9	1	08/05/19 08:08	08/07/19 10:13	7439-95-4	
Manganese	480	mg/kg	1.2	0.12	1	08/05/19 08:08	08/07/19 10:13	7439-96-5	
Molybdenum	ND	mg/kg	2.4	0.17	1	08/05/19 08:08	08/07/19 10:13	7439-98-7	
Nickel	25.9	mg/kg	2.4	0.29	1	08/05/19 08:08	08/07/19 10:13	7440-02-0	
Potassium	1770	mg/kg	58.9	54.3	1	08/05/19 08:08	08/07/19 10:13	7440-09-7	
Selenium	ND	mg/kg	0.94	0.69	1	08/05/19 08:08	08/07/19 10:13	7782-49-2	
Silver	ND	mg/kg	0.71	0.11	1	08/05/19 08:08	08/07/19 10:13	7440-22-4	
Sodium	ND	mg/kg	589	42.9	1	08/05/19 08:08	08/07/19 10:13	7440-23-5	
Thallium	ND	mg/kg	2.4	0.72	1	08/05/19 08:08	08/07/19 10:13	7440-28-0	
Vanadium	20.7	mg/kg	1.2	0.096	1	08/05/19 08:08	08/07/19 10:13	7440-62-2	
Zinc	63.3	mg/kg	1.2	0.20	1	08/05/19 08:08	08/07/19 10:13	7440-66-6	B
7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.12	0.0061	1	08/02/19 09:21	08/02/19 17:03	7439-97-6	
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	428	146	1	08/02/19 22:23	08/05/19 23:01	83-32-9	
Acenaphthylene	ND	ug/kg	428	129	1	08/02/19 22:23	08/05/19 23:01	208-96-8	
Anthracene	ND	ug/kg	428	98.4	1	08/02/19 22:23	08/05/19 23:01	120-12-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-17 **Lab ID: 30317042012** Collected: 07/30/19 12:40 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Azobenzene	ND	ug/kg	428	151	1	08/02/19 22:23	08/05/19 23:01	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	428	192	1	08/02/19 22:23	08/05/19 23:01	56-55-3	
Benzo(a)pyrene	ND	ug/kg	428	133	1	08/02/19 22:23	08/05/19 23:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	428	130	1	08/02/19 22:23	08/05/19 23:01	205-99-2	ip
Benzo(g,h,i)perylene	ND	ug/kg	428	148	1	08/02/19 22:23	08/05/19 23:01	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	428	189	1	08/02/19 22:23	08/05/19 23:01	207-08-9	ip
Benzoic acid	ND	ug/kg	6420	2170	1	08/02/19 22:23	08/05/19 23:01	65-85-0	CH
Benzyl alcohol	ND	ug/kg	428	378	1	08/02/19 22:23	08/05/19 23:01	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	428	157	1	08/02/19 22:23	08/05/19 23:01	101-55-3	
Butylbenzylphthalate	ND	ug/kg	428	120	1	08/02/19 22:23	08/05/19 23:01	85-68-7	
Carbazole	ND	ug/kg	428	168	1	08/02/19 22:23	08/05/19 23:01	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	428	68.9	1	08/02/19 22:23	08/05/19 23:01	59-50-7	
4-Chloroaniline	ND	ug/kg	428	75.3	1	08/02/19 22:23	08/05/19 23:01	106-47-8	L1
bis(2-Chloroethoxy)methane	ND	ug/kg	428	169	1	08/02/19 22:23	08/05/19 23:01	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	428	78.2	1	08/02/19 22:23	08/05/19 23:01	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	428	363	1	08/02/19 22:23	08/05/19 23:01	108-60-1	
2-Chloronaphthalene	ND	ug/kg	428	122	1	08/02/19 22:23	08/05/19 23:01	91-58-7	
2-Chlorophenol	ND	ug/kg	428	133	1	08/02/19 22:23	08/05/19 23:01	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	428	124	1	08/02/19 22:23	08/05/19 23:01	7005-72-3	
Chrysene	ND	ug/kg	428	158	1	08/02/19 22:23	08/05/19 23:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	428	163	1	08/02/19 22:23	08/05/19 23:01	53-70-3	
Dibenzofuran	ND	ug/kg	428	137	1	08/02/19 22:23	08/05/19 23:01	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	428	134	1	08/02/19 22:23	08/05/19 23:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	428	127	1	08/02/19 22:23	08/05/19 23:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	428	59.1	1	08/02/19 22:23	08/05/19 23:01	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	428	126	1	08/02/19 22:23	08/05/19 23:01	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	428	192	1	08/02/19 22:23	08/05/19 23:01	120-83-2	
Diethylphthalate	ND	ug/kg	428	151	1	08/02/19 22:23	08/05/19 23:01	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	428	130	1	08/02/19 22:23	08/05/19 23:01	105-67-9	L1
Dimethylphthalate	ND	ug/kg	428	132	1	08/02/19 22:23	08/05/19 23:01	131-11-3	
Di-n-butylphthalate	ND	ug/kg	428	144	1	08/02/19 22:23	08/05/19 23:01	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1070	319	1	08/02/19 22:23	08/05/19 23:01	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1070	963	1	08/02/19 22:23	08/05/19 23:01	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	428	130	1	08/02/19 22:23	08/05/19 23:01	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	428	130	1	08/02/19 22:23	08/05/19 23:01	606-20-2	
Di-n-octylphthalate	ND	ug/kg	428	97.2	1	08/02/19 22:23	08/05/19 23:01	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	428	137	1	08/02/19 22:23	08/05/19 23:01	117-81-7	
Fluoranthene	ND	ug/kg	428	138	1	08/02/19 22:23	08/05/19 23:01	206-44-0	
Fluorene	ND	ug/kg	428	131	1	08/02/19 22:23	08/05/19 23:01	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	428	139	1	08/02/19 22:23	08/05/19 23:01	87-68-3	
Hexachlorobenzene	ND	ug/kg	428	123	1	08/02/19 22:23	08/05/19 23:01	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	428	101	1	08/02/19 22:23	08/05/19 23:01	77-47-4	
Hexachloroethane	ND	ug/kg	428	116	1	08/02/19 22:23	08/05/19 23:01	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	428	161	1	08/02/19 22:23	08/05/19 23:01	193-39-5	
Isophorone	ND	ug/kg	428	141	1	08/02/19 22:23	08/05/19 23:01	78-59-1	L1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-17 **Lab ID: 30317042012** Collected: 07/30/19 12:40 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
1-Methylnaphthalene	ND	ug/kg	428	108	1	08/02/19 22:23	08/05/19 23:01	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	428	129	1	08/02/19 22:23	08/05/19 23:01	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	428	154	1	08/02/19 22:23	08/05/19 23:01	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	856	263	1	08/02/19 22:23	08/05/19 23:01		
Naphthalene	ND	ug/kg	428	116	1	08/02/19 22:23	08/05/19 23:01	91-20-3	
2-Nitroaniline	ND	ug/kg	1070	149	1	08/02/19 22:23	08/05/19 23:01	88-74-4	
3-Nitroaniline	ND	ug/kg	1070	280	1	08/02/19 22:23	08/05/19 23:01	99-09-2	
4-Nitroaniline	ND	ug/kg	1070	601	1	08/02/19 22:23	08/05/19 23:01	100-01-6	
Nitrobenzene	ND	ug/kg	428	159	1	08/02/19 22:23	08/05/19 23:01	98-95-3	
2-Nitrophenol	ND	ug/kg	428	170	1	08/02/19 22:23	08/05/19 23:01	88-75-5	
4-Nitrophenol	ND	ug/kg	428	144	1	08/02/19 22:23	08/05/19 23:01	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	428	73.4	1	08/02/19 22:23	08/05/19 23:01	62-75-9	CH,L1
N-Nitroso-di-n-propylamine	ND	ug/kg	428	181	1	08/02/19 22:23	08/05/19 23:01	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	428	96.6	1	08/02/19 22:23	08/05/19 23:01	86-30-6	
Pentachlorophenol	ND	ug/kg	1070	564	1	08/02/19 22:23	08/05/19 23:01	87-86-5	
Phenanthrene	ND	ug/kg	428	188	1	08/02/19 22:23	08/05/19 23:01	85-01-8	
Phenol	ND	ug/kg	428	127	1	08/02/19 22:23	08/05/19 23:01	108-95-2	
Pyrene	ND	ug/kg	428	156	1	08/02/19 22:23	08/05/19 23:01	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	428	116	1	08/02/19 22:23	08/05/19 23:01	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1070	127	1	08/02/19 22:23	08/05/19 23:01	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	428	112	1	08/02/19 22:23	08/05/19 23:01	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	90	%	45-103		1	08/02/19 22:23	08/05/19 23:01	4165-60-0	
2-Fluorobiphenyl (S)	91	%	52-102		1	08/02/19 22:23	08/05/19 23:01	321-60-8	
Terphenyl-d14 (S)	95	%	53-135		1	08/02/19 22:23	08/05/19 23:01	1718-51-0	
Phenol-d6 (S)	93	%	35-120		1	08/02/19 22:23	08/05/19 23:01	13127-88-3	
2-Fluorophenol (S)	97	%	10-147		1	08/02/19 22:23	08/05/19 23:01	367-12-4	
2,4,6-Tribromophenol (S)	73	%	10-160		1	08/02/19 22:23	08/05/19 23:01	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Acetone	24.3	ug/kg	10.8	3.4	1	08/07/19 12:42	08/07/19 18:58	67-64-1	2c,3c
Benzene	ND	ug/kg	5.4	0.94	1	08/07/19 12:42	08/07/19 18:58	71-43-2	2c
Bromochloromethane	ND	ug/kg	5.4	1.2	1	08/07/19 12:42	08/07/19 18:58	74-97-5	2c
Bromodichloromethane	ND	ug/kg	5.4	1.2	1	08/07/19 12:42	08/07/19 18:58	75-27-4	2c
Bromoform	ND	ug/kg	5.4	0.71	1	08/07/19 12:42	08/07/19 18:58	75-25-2	2c
Bromomethane	ND	ug/kg	5.4	2.0	1	08/07/19 12:42	08/07/19 18:58	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	32.4	6.6	1	08/07/19 12:42	08/07/19 18:58		
2-Butanone (MEK)	ND	ug/kg	10.8	0.98	1	08/07/19 12:42	08/07/19 18:58	78-93-3	2c,3c
Carbon disulfide	ND	ug/kg	5.4	1.5	1	08/07/19 12:42	08/07/19 18:58	75-15-0	2c
Carbon tetrachloride	ND	ug/kg	5.4	1.9	1	08/07/19 12:42	08/07/19 18:58	56-23-5	2c,CL
Chlorobenzene	ND	ug/kg	5.4	0.84	1	08/07/19 12:42	08/07/19 18:58	108-90-7	2c
Chloroethane	ND	ug/kg	5.4	2.3	1	08/07/19 12:42	08/07/19 18:58	75-00-3	2c
Chloroform	ND	ug/kg	5.4	1.6	1	08/07/19 12:42	08/07/19 18:58	67-66-3	2c
Chloromethane	ND	ug/kg	5.4	1.8	1	08/07/19 12:42	08/07/19 18:58	74-87-3	2c
Dibromochloromethane	ND	ug/kg	5.4	0.85	1	08/07/19 12:42	08/07/19 18:58	124-48-1	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-17 **Lab ID: 30317042012** Collected: 07/30/19 12:40 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
1,2-Dichlorobenzene	ND	ug/kg	5.4	0.64	1	08/07/19 12:42	08/07/19 18:58	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/kg	5.4	0.70	1	08/07/19 12:42	08/07/19 18:58	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/kg	5.4	0.77	1	08/07/19 12:42	08/07/19 18:58	106-46-7	2c
1,1-Dichloroethane	ND	ug/kg	5.4	1.4	1	08/07/19 12:42	08/07/19 18:58	75-34-3	2c
1,2-Dichloroethane	ND	ug/kg	5.4	1.4	1	08/07/19 12:42	08/07/19 18:58	107-06-2	2c
1,2-Dichloroethene (Total)	ND	ug/kg	10.8	2.6	1	08/07/19 12:42	08/07/19 18:58	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.4	2.0	1	08/07/19 12:42	08/07/19 18:58	75-35-4	2c
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1.3	1	08/07/19 12:42	08/07/19 18:58	156-59-2	2c
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1.4	1	08/07/19 12:42	08/07/19 18:58	156-60-5	2c
1,2-Dichloropropane	ND	ug/kg	5.4	0.78	1	08/07/19 12:42	08/07/19 18:58	78-87-5	2c
cis-1,3-Dichloropropene	ND	ug/kg	5.4	0.54	1	08/07/19 12:42	08/07/19 18:58	10061-01-5	2c
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1.1	1	08/07/19 12:42	08/07/19 18:58	10061-02-6	2c
Ethylbenzene	ND	ug/kg	5.4	1.2	1	08/07/19 12:42	08/07/19 18:58	100-41-4	2c
2-Hexanone	ND	ug/kg	10.8	1.1	1	08/07/19 12:42	08/07/19 18:58	591-78-6	2c
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1.3	1	08/07/19 12:42	08/07/19 18:58	98-82-8	2c
Methylene Chloride	ND	ug/kg	5.4	4.5	1	08/07/19 12:42	08/07/19 18:58	75-09-2	2c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.8	1.2	1	08/07/19 12:42	08/07/19 18:58	108-10-1	2c
Methyl-tert-butyl ether	ND	ug/kg	5.4	0.72	1	08/07/19 12:42	08/07/19 18:58	1634-04-4	2c
Naphthalene	ND	ug/kg	5.4	1.0	1	08/07/19 12:42	08/07/19 18:58	91-20-3	2c
Styrene	ND	ug/kg	5.4	1.6	1	08/07/19 12:42	08/07/19 18:58	100-42-5	2c
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	0.64	1	08/07/19 12:42	08/07/19 18:58	79-34-5	2c
Tetrachloroethene	ND	ug/kg	5.4	1.9	1	08/07/19 12:42	08/07/19 18:58	127-18-4	2c
Toluene	ND	ug/kg	5.4	1.1	1	08/07/19 12:42	08/07/19 18:58	108-88-3	2c
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1.4	1	08/07/19 12:42	08/07/19 18:58	120-82-1	2c
1,1,1-Trichloroethane	ND	ug/kg	5.4	1.6	1	08/07/19 12:42	08/07/19 18:58	71-55-6	2c
1,1,2-Trichloroethane	ND	ug/kg	5.4	1.1	1	08/07/19 12:42	08/07/19 18:58	79-00-5	2c
Trichloroethene	ND	ug/kg	5.4	1.6	1	08/07/19 12:42	08/07/19 18:58	79-01-6	2c
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	2.6	1	08/07/19 12:42	08/07/19 18:58	95-63-6	2c
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	2.2	1	08/07/19 12:42	08/07/19 18:58	108-67-8	2c
Vinyl chloride	ND	ug/kg	5.4	2.3	1	08/07/19 12:42	08/07/19 18:58	75-01-4	2c
Xylene (Total)	ND	ug/kg	16.2	3.4	1	08/07/19 12:42	08/07/19 18:58	1330-20-7	
m&p-Xylene	ND	ug/kg	10.8	2.3	1	08/07/19 12:42	08/07/19 18:58	179601-23-1	2c
o-Xylene	ND	ug/kg	5.4	1.2	1	08/07/19 12:42	08/07/19 18:58	95-47-6	2c
Surrogates									
Toluene-d8 (S)	100	%	70-130		1	08/07/19 12:42	08/07/19 18:58	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1	08/07/19 12:42	08/07/19 18:58	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1	08/07/19 12:42	08/07/19 18:58	17060-07-0	
Dibromofluoromethane (S)	114	%	70-130		1	08/07/19 12:42	08/07/19 18:58	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **22.8** % 0.10 0.10 1 08/06/19 16:50

9014 Cyanide, Total

Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C

Cyanide **1.8** mg/kg 1.3 0.33 1 08/05/19 14:19 08/08/19 17:11 57-12-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-18 **Lab ID: 30317042013** Collected: 07/30/19 12:55 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8081B GCS Pesticides									
Analytical Method: EPA 8081B Preparation Method: EPA 3546									
Aldrin	ND	ug/kg	2.1	0.37	1	08/05/19 08:14	08/08/19 12:54	309-00-2	
alpha-BHC	ND	ug/kg	2.1	0.40	1	08/05/19 08:14	08/08/19 12:54	319-84-6	
beta-BHC	ND	ug/kg	2.1	1.5	1	08/05/19 08:14	08/08/19 12:54	319-85-7	
delta-BHC	ND	ug/kg	2.1	2.0	1	08/05/19 08:14	08/08/19 12:54	319-86-8	
gamma-BHC (Lindane)	ND	ug/kg	2.1	0.54	1	08/05/19 08:14	08/08/19 12:54	58-89-9	
alpha-Chlordane	ND	ug/kg	2.1	0.22	1	08/05/19 08:14	08/08/19 12:54	5103-71-9	
gamma-Chlordane	ND	ug/kg	2.1	0.54	1	08/05/19 08:14	08/08/19 12:54	5103-74-2	
4,4'-DDD	ND	ug/kg	4.1	1.4	1	08/05/19 08:14	08/08/19 12:54	72-54-8	
4,4'-DDE	ND	ug/kg	4.1	0.73	1	08/05/19 08:14	08/08/19 12:54	72-55-9	
4,4'-DDT	ND	ug/kg	4.1	1.1	1	08/05/19 08:14	08/08/19 12:54	50-29-3	
Dieldrin	ND	ug/kg	4.1	0.43	1	08/05/19 08:14	08/08/19 12:54	60-57-1	
Endosulfan I	ND	ug/kg	2.1	0.25	1	08/05/19 08:14	08/08/19 12:54	959-98-8	
Endosulfan II	ND	ug/kg	4.1	0.59	1	08/05/19 08:14	08/08/19 12:54	33213-65-9	
Endosulfan sulfate	ND	ug/kg	4.1	0.37	1	08/05/19 08:14	08/08/19 12:54	1031-07-8	
Endrin	ND	ug/kg	4.1	0.65	1	08/05/19 08:14	08/08/19 12:54	72-20-8	
Endrin aldehyde	ND	ug/kg	4.1	0.98	1	08/05/19 08:14	08/08/19 12:54	7421-93-4	
Endrin ketone	ND	ug/kg	4.1	0.38	1	08/05/19 08:14	08/08/19 12:54	53494-70-5	L1
Heptachlor	ND	ug/kg	2.1	0.25	1	08/05/19 08:14	08/08/19 12:54	76-44-8	
Heptachlor epoxide	ND	ug/kg	2.1	0.58	1	08/05/19 08:14	08/08/19 12:54	1024-57-3	
Methoxychlor	ND	ug/kg	20.6	2.0	1	08/05/19 08:14	08/08/19 12:54	72-43-5	
Toxaphene	ND	ug/kg	20.6	6.8	1	08/05/19 08:14	08/08/19 12:54	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	51-88		1	08/05/19 08:14	08/08/19 12:54	877-09-8	
Decachlorobiphenyl (S)	96	%	50-96		1	08/05/19 08:14	08/08/19 12:54	2051-24-3	

8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	20.6	12.7	1	08/05/19 08:14	08/06/19 21:47	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	20.6	18.2	1	08/05/19 08:14	08/06/19 21:47	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	20.6	18.7	1	08/05/19 08:14	08/06/19 21:47	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	20.6	15.0	1	08/05/19 08:14	08/06/19 21:47	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	20.6	11.8	1	08/05/19 08:14	08/06/19 21:47	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	20.6	11.0	1	08/05/19 08:14	08/06/19 21:47	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	20.6	11.7	1	08/05/19 08:14	08/06/19 21:47	11096-82-5	
PCB, Total	ND	ug/kg	185	116	1	08/05/19 08:14	08/06/19 21:47	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	34-114		1	08/05/19 08:14	08/06/19 21:47	877-09-8	
Decachlorobiphenyl (S)	100	%	38-139		1	08/05/19 08:14	08/06/19 21:47	2051-24-3	E

6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	7820	mg/kg	11.2	2.8	1	08/05/19 08:08	08/07/19 10:15	7429-90-5	
Antimony	ND	mg/kg	0.67	0.54	1	08/05/19 08:08	08/07/19 10:15	7440-36-0	
Arsenic	3.4	mg/kg	0.56	0.54	1	08/05/19 08:08	08/07/19 10:15	7440-38-2	
Barium	35.9	mg/kg	2.2	0.10	1	08/05/19 08:08	08/07/19 10:15	7440-39-3	
Beryllium	0.36	mg/kg	0.22	0.034	1	08/05/19 08:08	08/07/19 10:15	7440-41-7	
Boron	ND	mg/kg	5.6	0.20	1	08/05/19 08:08	08/07/19 10:15	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-18 **Lab ID: 30317042013** Collected: 07/30/19 12:55 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Cadmium	ND	mg/kg	0.33	0.068	1	08/05/19 08:08	08/07/19 10:15	7440-43-9	
Calcium	732	mg/kg	223	5.4	1	08/05/19 08:08	08/07/19 10:15	7440-70-2	
Chromium	8.8	mg/kg	0.56	0.10	1	08/05/19 08:08	08/07/19 10:15	7440-47-3	
Cobalt	5.6	mg/kg	1.1	0.12	1	08/05/19 08:08	08/07/19 10:15	7440-48-4	
Copper	14.5	mg/kg	1.1	0.65	1	08/05/19 08:08	08/07/19 12:11	7440-50-8	
Iron	14500	mg/kg	11.2	1.3	1	08/05/19 08:08	08/07/19 10:15	7439-89-6	
Lead	6.4	mg/kg	0.56	0.55	1	08/05/19 08:08	08/07/19 10:15	7439-92-1	
Magnesium	2680	mg/kg	55.8	6.5	1	08/05/19 08:08	08/07/19 10:15	7439-95-4	
Manganese	401	mg/kg	1.1	0.11	1	08/05/19 08:08	08/07/19 10:15	7439-96-5	
Molybdenum	ND	mg/kg	2.2	0.16	1	08/05/19 08:08	08/07/19 10:15	7439-98-7	
Nickel	12.5	mg/kg	2.2	0.28	1	08/05/19 08:08	08/07/19 10:15	7440-02-0	
Potassium	835	mg/kg	55.8	51.4	1	08/05/19 08:08	08/07/19 10:15	7440-09-7	
Selenium	ND	mg/kg	0.89	0.65	1	08/05/19 08:08	08/07/19 10:15	7782-49-2	
Silver	ND	mg/kg	0.67	0.11	1	08/05/19 08:08	08/07/19 10:15	7440-22-4	
Sodium	ND	mg/kg	558	40.7	1	08/05/19 08:08	08/07/19 10:15	7440-23-5	
Thallium	ND	mg/kg	2.2	0.68	1	08/05/19 08:08	08/07/19 10:15	7440-28-0	
Vanadium	12.4	mg/kg	1.1	0.091	1	08/05/19 08:08	08/07/19 10:15	7440-62-2	
Zinc	34.7	mg/kg	1.1	0.19	1	08/05/19 08:08	08/07/19 10:15	7440-66-6	B

7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.12	0.0059	1	08/02/19 09:21	08/02/19 17:05	7439-97-6	

8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	413	140	1	08/02/19 22:23	08/05/19 23:23	83-32-9	
Acenaphthylene	ND	ug/kg	413	124	1	08/02/19 22:23	08/05/19 23:23	208-96-8	
Anthracene	ND	ug/kg	413	94.9	1	08/02/19 22:23	08/05/19 23:23	120-12-7	
Azobenzene	ND	ug/kg	413	146	1	08/02/19 22:23	08/05/19 23:23	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	413	185	1	08/02/19 22:23	08/05/19 23:23	56-55-3	
Benzo(a)pyrene	ND	ug/kg	413	128	1	08/02/19 22:23	08/05/19 23:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	413	126	1	08/02/19 22:23	08/05/19 23:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	413	143	1	08/02/19 22:23	08/05/19 23:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	413	182	1	08/02/19 22:23	08/05/19 23:23	207-08-9	
Benzoic acid	ND	ug/kg	6200	2090	1	08/02/19 22:23	08/05/19 23:23	65-85-0	CH
Benzyl alcohol	ND	ug/kg	413	365	1	08/02/19 22:23	08/05/19 23:23	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	413	152	1	08/02/19 22:23	08/05/19 23:23	101-55-3	
Butylbenzylphthalate	ND	ug/kg	413	116	1	08/02/19 22:23	08/05/19 23:23	85-68-7	
Carbazole	ND	ug/kg	413	162	1	08/02/19 22:23	08/05/19 23:23	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	413	66.5	1	08/02/19 22:23	08/05/19 23:23	59-50-7	
4-Chloroaniline	ND	ug/kg	413	72.7	1	08/02/19 22:23	08/05/19 23:23	106-47-8	L1
bis(2-Chloroethoxy)methane	ND	ug/kg	413	163	1	08/02/19 22:23	08/05/19 23:23	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	413	75.4	1	08/02/19 22:23	08/05/19 23:23	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	413	350	1	08/02/19 22:23	08/05/19 23:23	108-60-1	
2-Chloronaphthalene	ND	ug/kg	413	118	1	08/02/19 22:23	08/05/19 23:23	91-58-7	
2-Chlorophenol	ND	ug/kg	413	129	1	08/02/19 22:23	08/05/19 23:23	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	413	119	1	08/02/19 22:23	08/05/19 23:23	7005-72-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-18 **Lab ID: 30317042013** Collected: 07/30/19 12:55 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Chrysene	ND	ug/kg	413	153	1	08/02/19 22:23	08/05/19 23:23	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	413	157	1	08/02/19 22:23	08/05/19 23:23	53-70-3	
Dibenzofuran	ND	ug/kg	413	132	1	08/02/19 22:23	08/05/19 23:23	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	413	129	1	08/02/19 22:23	08/05/19 23:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	413	122	1	08/02/19 22:23	08/05/19 23:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	413	57.1	1	08/02/19 22:23	08/05/19 23:23	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	413	121	1	08/02/19 22:23	08/05/19 23:23	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	413	186	1	08/02/19 22:23	08/05/19 23:23	120-83-2	
Diethylphthalate	ND	ug/kg	413	145	1	08/02/19 22:23	08/05/19 23:23	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	413	126	1	08/02/19 22:23	08/05/19 23:23	105-67-9	L1
Dimethylphthalate	ND	ug/kg	413	127	1	08/02/19 22:23	08/05/19 23:23	131-11-3	
Di-n-butylphthalate	ND	ug/kg	413	139	1	08/02/19 22:23	08/05/19 23:23	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1030	308	1	08/02/19 22:23	08/05/19 23:23	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1030	929	1	08/02/19 22:23	08/05/19 23:23	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	413	125	1	08/02/19 22:23	08/05/19 23:23	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	413	126	1	08/02/19 22:23	08/05/19 23:23	606-20-2	
Di-n-octylphthalate	ND	ug/kg	413	93.8	1	08/02/19 22:23	08/05/19 23:23	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	413	132	1	08/02/19 22:23	08/05/19 23:23	117-81-7	
Fluoranthene	ND	ug/kg	413	133	1	08/02/19 22:23	08/05/19 23:23	206-44-0	
Fluorene	ND	ug/kg	413	127	1	08/02/19 22:23	08/05/19 23:23	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	413	135	1	08/02/19 22:23	08/05/19 23:23	87-68-3	
Hexachlorobenzene	ND	ug/kg	413	119	1	08/02/19 22:23	08/05/19 23:23	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	413	97.7	1	08/02/19 22:23	08/05/19 23:23	77-47-4	
Hexachloroethane	ND	ug/kg	413	112	1	08/02/19 22:23	08/05/19 23:23	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	413	155	1	08/02/19 22:23	08/05/19 23:23	193-39-5	
Isophorone	ND	ug/kg	413	136	1	08/02/19 22:23	08/05/19 23:23	78-59-1	L1
1-Methylnaphthalene	ND	ug/kg	413	104	1	08/02/19 22:23	08/05/19 23:23	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	413	124	1	08/02/19 22:23	08/05/19 23:23	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	413	149	1	08/02/19 22:23	08/05/19 23:23	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	826	254	1	08/02/19 22:23	08/05/19 23:23		
Naphthalene	ND	ug/kg	413	112	1	08/02/19 22:23	08/05/19 23:23	91-20-3	
2-Nitroaniline	ND	ug/kg	1030	144	1	08/02/19 22:23	08/05/19 23:23	88-74-4	
3-Nitroaniline	ND	ug/kg	1030	270	1	08/02/19 22:23	08/05/19 23:23	99-09-2	
4-Nitroaniline	ND	ug/kg	1030	580	1	08/02/19 22:23	08/05/19 23:23	100-01-6	
Nitrobenzene	ND	ug/kg	413	153	1	08/02/19 22:23	08/05/19 23:23	98-95-3	
2-Nitrophenol	ND	ug/kg	413	164	1	08/02/19 22:23	08/05/19 23:23	88-75-5	
4-Nitrophenol	ND	ug/kg	413	139	1	08/02/19 22:23	08/05/19 23:23	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	413	70.8	1	08/02/19 22:23	08/05/19 23:23	62-75-9	CH,L1
N-Nitroso-di-n-propylamine	ND	ug/kg	413	175	1	08/02/19 22:23	08/05/19 23:23	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	413	93.1	1	08/02/19 22:23	08/05/19 23:23	86-30-6	
Pentachlorophenol	ND	ug/kg	1030	544	1	08/02/19 22:23	08/05/19 23:23	87-86-5	
Phenanthrene	ND	ug/kg	413	182	1	08/02/19 22:23	08/05/19 23:23	85-01-8	
Phenol	ND	ug/kg	413	122	1	08/02/19 22:23	08/05/19 23:23	108-95-2	
Pyrene	ND	ug/kg	413	151	1	08/02/19 22:23	08/05/19 23:23	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	413	112	1	08/02/19 22:23	08/05/19 23:23	120-82-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-18 **Lab ID: 30317042013** Collected: 07/30/19 12:55 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
2,4,5-Trichlorophenol	ND	ug/kg	1030	122	1	08/02/19 22:23	08/05/19 23:23	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	413	108	1	08/02/19 22:23	08/05/19 23:23	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	87	%	45-103		1	08/02/19 22:23	08/05/19 23:23	4165-60-0	
2-Fluorobiphenyl (S)	89	%	52-102		1	08/02/19 22:23	08/05/19 23:23	321-60-8	
Terphenyl-d14 (S)	90	%	53-135		1	08/02/19 22:23	08/05/19 23:23	1718-51-0	
Phenol-d6 (S)	90	%	35-120		1	08/02/19 22:23	08/05/19 23:23	13127-88-3	
2-Fluorophenol (S)	95	%	10-147		1	08/02/19 22:23	08/05/19 23:23	367-12-4	
2,4,6-Tribromophenol (S)	78	%	10-160		1	08/02/19 22:23	08/05/19 23:23	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Acetone	55.7	ug/kg	10.1	3.2	1	08/07/19 12:42	08/07/19 19:26	67-64-1	2c,3c
Benzene	ND	ug/kg	5.1	0.88	1	08/07/19 12:42	08/07/19 19:26	71-43-2	2c
Bromochloromethane	ND	ug/kg	5.1	1.1	1	08/07/19 12:42	08/07/19 19:26	74-97-5	2c
Bromodichloromethane	ND	ug/kg	5.1	1.1	1	08/07/19 12:42	08/07/19 19:26	75-27-4	2c
Bromoform	ND	ug/kg	5.1	0.67	1	08/07/19 12:42	08/07/19 19:26	75-25-2	2c
Bromomethane	ND	ug/kg	5.1	1.9	1	08/07/19 12:42	08/07/19 19:26	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	30.3	6.2	1	08/07/19 12:42	08/07/19 19:26		
2-Butanone (MEK)	ND	ug/kg	10.1	0.92	1	08/07/19 12:42	08/07/19 19:26	78-93-3	2c,3c
Carbon disulfide	ND	ug/kg	5.1	1.4	1	08/07/19 12:42	08/07/19 19:26	75-15-0	2c
Carbon tetrachloride	ND	ug/kg	5.1	1.7	1	08/07/19 12:42	08/07/19 19:26	56-23-5	2c,CL
Chlorobenzene	ND	ug/kg	5.1	0.79	1	08/07/19 12:42	08/07/19 19:26	108-90-7	2c
Chloroethane	ND	ug/kg	5.1	2.1	1	08/07/19 12:42	08/07/19 19:26	75-00-3	2c
Chloroform	ND	ug/kg	5.1	1.5	1	08/07/19 12:42	08/07/19 19:26	67-66-3	2c
Chloromethane	ND	ug/kg	5.1	1.7	1	08/07/19 12:42	08/07/19 19:26	74-87-3	2c
Dibromochloromethane	ND	ug/kg	5.1	0.80	1	08/07/19 12:42	08/07/19 19:26	124-48-1	2c
1,2-Dichlorobenzene	ND	ug/kg	5.1	0.60	1	08/07/19 12:42	08/07/19 19:26	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/kg	5.1	0.66	1	08/07/19 12:42	08/07/19 19:26	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/kg	5.1	0.72	1	08/07/19 12:42	08/07/19 19:26	106-46-7	2c
1,1-Dichloroethane	ND	ug/kg	5.1	1.3	1	08/07/19 12:42	08/07/19 19:26	75-34-3	2c
1,2-Dichloroethane	ND	ug/kg	5.1	1.3	1	08/07/19 12:42	08/07/19 19:26	107-06-2	2c
1,2-Dichloroethene (Total)	ND	ug/kg	10.1	2.5	1	08/07/19 12:42	08/07/19 19:26	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.1	1.9	1	08/07/19 12:42	08/07/19 19:26	75-35-4	2c
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1.2	1	08/07/19 12:42	08/07/19 19:26	156-59-2	2c
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1.3	1	08/07/19 12:42	08/07/19 19:26	156-60-5	2c
1,2-Dichloropropane	ND	ug/kg	5.1	0.73	1	08/07/19 12:42	08/07/19 19:26	78-87-5	2c
cis-1,3-Dichloropropene	ND	ug/kg	5.1	0.51	1	08/07/19 12:42	08/07/19 19:26	10061-01-5	2c
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1.1	1	08/07/19 12:42	08/07/19 19:26	10061-02-6	2c
Ethylbenzene	ND	ug/kg	5.1	1.1	1	08/07/19 12:42	08/07/19 19:26	100-41-4	2c
2-Hexanone	ND	ug/kg	10.1	0.99	1	08/07/19 12:42	08/07/19 19:26	591-78-6	2c
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	1.2	1	08/07/19 12:42	08/07/19 19:26	98-82-8	2c
Methylene Chloride	ND	ug/kg	5.1	4.2	1	08/07/19 12:42	08/07/19 19:26	75-09-2	2c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.1	1.1	1	08/07/19 12:42	08/07/19 19:26	108-10-1	2c
Methyl-tert-butyl ether	ND	ug/kg	5.1	0.68	1	08/07/19 12:42	08/07/19 19:26	1634-04-4	2c
Naphthalene	ND	ug/kg	5.1	0.95	1	08/07/19 12:42	08/07/19 19:26	91-20-3	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-18 **Lab ID: 30317042013** Collected: 07/30/19 12:55 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	5.1	1.5	1	08/07/19 12:42	08/07/19 19:26	100-42-5	2c
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	0.60	1	08/07/19 12:42	08/07/19 19:26	79-34-5	2c
Tetrachloroethene	ND	ug/kg	5.1	1.7	1	08/07/19 12:42	08/07/19 19:26	127-18-4	2c
Toluene	ND	ug/kg	5.1	1.0	1	08/07/19 12:42	08/07/19 19:26	108-88-3	2c
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1.3	1	08/07/19 12:42	08/07/19 19:26	120-82-1	2c
1,1,1-Trichloroethane	ND	ug/kg	5.1	1.5	1	08/07/19 12:42	08/07/19 19:26	71-55-6	2c
1,1,2-Trichloroethane	ND	ug/kg	5.1	1.0	1	08/07/19 12:42	08/07/19 19:26	79-00-5	2c
Trichloroethene	ND	ug/kg	5.1	1.5	1	08/07/19 12:42	08/07/19 19:26	79-01-6	2c
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	2.5	1	08/07/19 12:42	08/07/19 19:26	95-63-6	2c
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	2.1	1	08/07/19 12:42	08/07/19 19:26	108-67-8	2c
Vinyl chloride	ND	ug/kg	5.1	2.2	1	08/07/19 12:42	08/07/19 19:26	75-01-4	2c
Xylene (Total)	ND	ug/kg	15.2	3.2	1	08/07/19 12:42	08/07/19 19:26	1330-20-7	
m&p-Xylene	ND	ug/kg	10.1	2.1	1	08/07/19 12:42	08/07/19 19:26	179601-23-1	2c
o-Xylene	ND	ug/kg	5.1	1.1	1	08/07/19 12:42	08/07/19 19:26	95-47-6	2c
Surrogates									
Toluene-d8 (S)	98	%	70-130		1	08/07/19 12:42	08/07/19 19:26	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1	08/07/19 12:42	08/07/19 19:26	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1	08/07/19 12:42	08/07/19 19:26	17060-07-0	
Dibromofluoromethane (S)	101	%	70-130		1	08/07/19 12:42	08/07/19 19:26	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	20.0	%	0.10	0.10	1		08/06/19 16:50		
9014 Cyanide, Total		Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C							
Cyanide	2.8	mg/kg	1.2	0.30	1	08/05/19 14:19	08/08/19 17:14	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-20 **Lab ID: 30317042014** Collected: 07/30/19 13:30 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides									
Analytical Method: EPA 8081B Preparation Method: EPA 3546									
Aldrin	ND	ug/kg	18.7	3.3	10	08/05/19 08:14	08/08/19 12:44	309-00-2	ED
alpha-BHC	ND	ug/kg	18.7	3.7	10	08/05/19 08:14	08/08/19 12:44	319-84-6	ED
beta-BHC	ND	ug/kg	18.7	13.7	10	08/05/19 08:14	08/08/19 12:44	319-85-7	ED
delta-BHC	ND	ug/kg	18.7	18.1	10	08/05/19 08:14	08/08/19 12:44	319-86-8	ED
gamma-BHC (Lindane)	ND	ug/kg	18.7	4.9	10	08/05/19 08:14	08/08/19 12:44	58-89-9	ED
alpha-Chlordane	ND	ug/kg	18.7	2.0	10	08/05/19 08:14	08/08/19 12:44	5103-71-9	ED
gamma-Chlordane	ND	ug/kg	18.7	4.9	10	08/05/19 08:14	08/08/19 12:44	5103-74-2	ED
4,4'-DDD	ND	ug/kg	37.4	12.3	10	08/05/19 08:14	08/08/19 12:44	72-54-8	ED
4,4'-DDE	ND	ug/kg	37.4	6.7	10	08/05/19 08:14	08/08/19 12:44	72-55-9	ED
4,4'-DDT	ND	ug/kg	37.4	9.8	10	08/05/19 08:14	08/08/19 12:44	50-29-3	ED
Dieldrin	ND	ug/kg	37.4	3.9	10	08/05/19 08:14	08/08/19 12:44	60-57-1	ED
Endosulfan I	ND	ug/kg	18.7	2.3	10	08/05/19 08:14	08/08/19 12:44	959-98-8	ED
Endosulfan II	ND	ug/kg	37.4	5.3	10	08/05/19 08:14	08/08/19 12:44	33213-65-9	ED
Endosulfan sulfate	ND	ug/kg	37.4	3.4	10	08/05/19 08:14	08/08/19 12:44	1031-07-8	ED
Endrin	ND	ug/kg	37.4	5.9	10	08/05/19 08:14	08/08/19 12:44	72-20-8	ED
Endrin aldehyde	ND	ug/kg	37.4	8.9	10	08/05/19 08:14	08/08/19 12:44	7421-93-4	ED
Endrin ketone	ND	ug/kg	37.4	3.4	10	08/05/19 08:14	08/08/19 12:44	53494-70-5	ED, L1
Heptachlor	ND	ug/kg	18.7	2.3	10	08/05/19 08:14	08/08/19 12:44	76-44-8	ED
Heptachlor epoxide	ND	ug/kg	18.7	5.2	10	08/05/19 08:14	08/08/19 12:44	1024-57-3	ED
Methoxychlor	ND	ug/kg	187	18.1	10	08/05/19 08:14	08/08/19 12:44	72-43-5	ED
Toxaphene	ND	ug/kg	187	61.5	10	08/05/19 08:14	08/08/19 12:44	8001-35-2	ED
Surrogates									
Tetrachloro-m-xylene (S)	102	%	51-88		10	08/05/19 08:14	08/08/19 12:44	877-09-8	ST
Decachlorobiphenyl (S)	122	%	50-96		10	08/05/19 08:14	08/08/19 12:44	2051-24-3	ST
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	93.5	57.7	5	08/05/19 08:14	08/06/19 21:56	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	93.5	82.9	5	08/05/19 08:14	08/06/19 21:56	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	93.5	85.1	5	08/05/19 08:14	08/06/19 21:56	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	93.5	68.3	5	08/05/19 08:14	08/06/19 21:56	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	93.5	53.8	5	08/05/19 08:14	08/06/19 21:56	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	93.5	49.8	5	08/05/19 08:14	08/06/19 21:56	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	93.5	53.2	5	08/05/19 08:14	08/06/19 21:56	11096-82-5	ED
PCB, Total	ND	ug/kg	842	528	5	08/05/19 08:14	08/06/19 21:56	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	94	%	34-114		5	08/05/19 08:14	08/06/19 21:56	877-09-8	
Decachlorobiphenyl (S)	113	%	38-139		5	08/05/19 08:14	08/06/19 21:56	2051-24-3	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	8420	mg/kg	10.7	2.7	1	08/05/19 08:08	08/07/19 10:17	7429-90-5	
Antimony	ND	mg/kg	0.64	0.52	1	08/05/19 08:08	08/07/19 10:17	7440-36-0	
Arsenic	4.1	mg/kg	0.53	0.51	1	08/05/19 08:08	08/07/19 10:17	7440-38-2	
Barium	41.7	mg/kg	2.1	0.10	1	08/05/19 08:08	08/07/19 10:17	7440-39-3	
Beryllium	0.39	mg/kg	0.21	0.032	1	08/05/19 08:08	08/07/19 10:17	7440-41-7	
Boron	ND	mg/kg	5.3	0.19	1	08/05/19 08:08	08/07/19 10:17	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-20 **Lab ID: 30317042014** Collected: 07/30/19 13:30 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Cadmium	ND	mg/kg	0.32	0.065	1	08/05/19 08:08	08/07/19 10:17	7440-43-9	
Calcium	1250	mg/kg	214	5.2	1	08/05/19 08:08	08/07/19 10:17	7440-70-2	
Chromium	14.6	mg/kg	0.53	0.098	1	08/05/19 08:08	08/07/19 10:17	7440-47-3	
Cobalt	7.4	mg/kg	1.1	0.11	1	08/05/19 08:08	08/07/19 10:17	7440-48-4	
Copper	20.7	mg/kg	1.1	0.62	1	08/05/19 08:08	08/07/19 12:13	7440-50-8	
Iron	17600	mg/kg	10.7	1.2	1	08/05/19 08:08	08/07/19 10:17	7439-89-6	
Lead	19.4	mg/kg	0.53	0.52	1	08/05/19 08:08	08/07/19 10:17	7439-92-1	
Magnesium	3030	mg/kg	53.4	6.2	1	08/05/19 08:08	08/07/19 10:17	7439-95-4	
Manganese	303	mg/kg	1.1	0.11	1	08/05/19 08:08	08/07/19 10:17	7439-96-5	
Molybdenum	ND	mg/kg	2.1	0.15	1	08/05/19 08:08	08/07/19 10:17	7439-98-7	
Nickel	18.3	mg/kg	2.1	0.27	1	08/05/19 08:08	08/07/19 10:17	7440-02-0	
Potassium	941	mg/kg	53.4	49.2	1	08/05/19 08:08	08/07/19 10:17	7440-09-7	
Selenium	ND	mg/kg	0.85	0.62	1	08/05/19 08:08	08/07/19 10:17	7782-49-2	
Silver	ND	mg/kg	0.64	0.10	1	08/05/19 08:08	08/07/19 10:17	7440-22-4	
Sodium	ND	mg/kg	534	38.9	1	08/05/19 08:08	08/07/19 10:17	7440-23-5	
Thallium	ND	mg/kg	2.1	0.66	1	08/05/19 08:08	08/07/19 10:17	7440-28-0	
Vanadium	14.0	mg/kg	1.1	0.087	1	08/05/19 08:08	08/07/19 10:17	7440-62-2	
Zinc	46.4	mg/kg	1.1	0.18	1	08/05/19 08:08	08/07/19 10:17	7440-66-6	B

7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.11	0.0052	1	08/02/19 09:21	08/02/19 17:06	7439-97-6	

8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	1460	ug/kg	383	130	1	08/02/19 22:23	08/05/19 23:46	83-32-9	
Acenaphthylene	ND	ug/kg	383	115	1	08/02/19 22:23	08/05/19 23:46	208-96-8	
Anthracene	ND	ug/kg	383	87.9	1	08/02/19 22:23	08/05/19 23:46	120-12-7	
Azobenzene	ND	ug/kg	383	135	1	08/02/19 22:23	08/05/19 23:46	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	383	172	1	08/02/19 22:23	08/05/19 23:46	56-55-3	
Benzo(a)pyrene	ND	ug/kg	383	119	1	08/02/19 22:23	08/05/19 23:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	383	116	1	08/02/19 22:23	08/05/19 23:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	383	133	1	08/02/19 22:23	08/05/19 23:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	383	169	1	08/02/19 22:23	08/05/19 23:46	207-08-9	
Benzoic acid	ND	ug/kg	5740	1940	1	08/02/19 22:23	08/05/19 23:46	65-85-0	CH
Benzyl alcohol	ND	ug/kg	383	338	1	08/02/19 22:23	08/05/19 23:46	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	383	141	1	08/02/19 22:23	08/05/19 23:46	101-55-3	
Butylbenzylphthalate	ND	ug/kg	383	108	1	08/02/19 22:23	08/05/19 23:46	85-68-7	
Carbazole	ND	ug/kg	383	150	1	08/02/19 22:23	08/05/19 23:46	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	383	61.6	1	08/02/19 22:23	08/05/19 23:46	59-50-7	
4-Chloroaniline	ND	ug/kg	383	67.3	1	08/02/19 22:23	08/05/19 23:46	106-47-8	L1
bis(2-Chloroethoxy)methane	ND	ug/kg	383	151	1	08/02/19 22:23	08/05/19 23:46	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	383	69.9	1	08/02/19 22:23	08/05/19 23:46	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	383	325	1	08/02/19 22:23	08/05/19 23:46	108-60-1	
2-Chloronaphthalene	ND	ug/kg	383	109	1	08/02/19 22:23	08/05/19 23:46	91-58-7	
2-Chlorophenol	ND	ug/kg	383	119	1	08/02/19 22:23	08/05/19 23:46	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	383	111	1	08/02/19 22:23	08/05/19 23:46	7005-72-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-20 **Lab ID: 30317042014** Collected: 07/30/19 13:30 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Chrysene	ND	ug/kg	383	141	1	08/02/19 22:23	08/05/19 23:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	383	145	1	08/02/19 22:23	08/05/19 23:46	53-70-3	
Dibenzofuran	485	ug/kg	383	123	1	08/02/19 22:23	08/05/19 23:46	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	383	120	1	08/02/19 22:23	08/05/19 23:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	383	113	1	08/02/19 22:23	08/05/19 23:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	383	52.9	1	08/02/19 22:23	08/05/19 23:46	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	383	112	1	08/02/19 22:23	08/05/19 23:46	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	383	172	1	08/02/19 22:23	08/05/19 23:46	120-83-2	
Diethylphthalate	ND	ug/kg	383	135	1	08/02/19 22:23	08/05/19 23:46	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	383	116	1	08/02/19 22:23	08/05/19 23:46	105-67-9	L1
Dimethylphthalate	ND	ug/kg	383	118	1	08/02/19 22:23	08/05/19 23:46	131-11-3	
Di-n-butylphthalate	ND	ug/kg	383	129	1	08/02/19 22:23	08/05/19 23:46	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	957	285	1	08/02/19 22:23	08/05/19 23:46	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	957	860	1	08/02/19 22:23	08/05/19 23:46	51-28-5	
2,4-Dinitrotoluene	1010	ug/kg	383	116	1	08/02/19 22:23	08/05/19 23:46	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	383	116	1	08/02/19 22:23	08/05/19 23:46	606-20-2	
Di-n-octylphthalate	ND	ug/kg	383	86.9	1	08/02/19 22:23	08/05/19 23:46	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	383	122	1	08/02/19 22:23	08/05/19 23:46	117-81-7	
Fluoranthene	ND	ug/kg	383	123	1	08/02/19 22:23	08/05/19 23:46	206-44-0	
Fluorene	1030	ug/kg	383	117	1	08/02/19 22:23	08/05/19 23:46	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	383	125	1	08/02/19 22:23	08/05/19 23:46	87-68-3	
Hexachlorobenzene	ND	ug/kg	383	110	1	08/02/19 22:23	08/05/19 23:46	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	383	90.6	1	08/02/19 22:23	08/05/19 23:46	77-47-4	
Hexachloroethane	681	ug/kg	383	103	1	08/02/19 22:23	08/05/19 23:46	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	383	144	1	08/02/19 22:23	08/05/19 23:46	193-39-5	
Isophorone	ND	ug/kg	383	126	1	08/02/19 22:23	08/05/19 23:46	78-59-1	L1
1-Methylnaphthalene	9230	ug/kg	1910	481	5	08/02/19 22:23	08/07/19 00:22	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	383	115	1	08/02/19 22:23	08/05/19 23:46	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	383	138	1	08/02/19 22:23	08/05/19 23:46	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	765	235	1	08/02/19 22:23	08/05/19 23:46		
Naphthalene	ND	ug/kg	383	104	1	08/02/19 22:23	08/05/19 23:46	91-20-3	
2-Nitroaniline	ND	ug/kg	957	133	1	08/02/19 22:23	08/05/19 23:46	88-74-4	
3-Nitroaniline	ND	ug/kg	957	250	1	08/02/19 22:23	08/05/19 23:46	99-09-2	
4-Nitroaniline	ND	ug/kg	957	537	1	08/02/19 22:23	08/05/19 23:46	100-01-6	
Nitrobenzene	ND	ug/kg	383	142	1	08/02/19 22:23	08/05/19 23:46	98-95-3	
2-Nitrophenol	ND	ug/kg	383	152	1	08/02/19 22:23	08/05/19 23:46	88-75-5	
4-Nitrophenol	ND	ug/kg	383	129	1	08/02/19 22:23	08/05/19 23:46	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	383	65.6	1	08/02/19 22:23	08/05/19 23:46	62-75-9	CH,L1
N-Nitroso-di-n-propylamine	ND	ug/kg	383	162	1	08/02/19 22:23	08/05/19 23:46	621-64-7	
N-Nitrosodiphenylamine	2190	ug/kg	383	86.3	1	08/02/19 22:23	08/05/19 23:46	86-30-6	
Pentachlorophenol	ND	ug/kg	957	504	1	08/02/19 22:23	08/05/19 23:46	87-86-5	
Phenanthrene	2680	ug/kg	383	168	1	08/02/19 22:23	08/05/19 23:46	85-01-8	
Phenol	ND	ug/kg	383	113	1	08/02/19 22:23	08/05/19 23:46	108-95-2	
Pyrene	440	ug/kg	383	140	1	08/02/19 22:23	08/05/19 23:46	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	383	104	1	08/02/19 22:23	08/05/19 23:46	120-82-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-20 **Lab ID: 30317042014** Collected: 07/30/19 13:30 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
2,4,5-Trichlorophenol	ND	ug/kg	957	113	1	08/02/19 22:23	08/05/19 23:46	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	383	100	1	08/02/19 22:23	08/05/19 23:46	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	78	%	45-103		1	08/02/19 22:23	08/05/19 23:46	4165-60-0	
2-Fluorobiphenyl (S)	86	%	52-102		1	08/02/19 22:23	08/05/19 23:46	321-60-8	
Terphenyl-d14 (S)	80	%	53-135		1	08/02/19 22:23	08/05/19 23:46	1718-51-0	
Phenol-d6 (S)	75	%	35-120		1	08/02/19 22:23	08/05/19 23:46	13127-88-3	
2-Fluorophenol (S)	77	%	10-147		1	08/02/19 22:23	08/05/19 23:46	367-12-4	
2,4,6-Tribromophenol (S)	91	%	10-160		1	08/02/19 22:23	08/05/19 23:46	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Acetone	74.0	ug/kg	11.4	3.6	1	08/07/19 12:42	08/07/19 19:53	67-64-1	2c,3c
Benzene	ND	ug/kg	5.7	0.99	1	08/07/19 12:42	08/07/19 19:53	71-43-2	2c
Bromochloromethane	ND	ug/kg	5.7	1.2	1	08/07/19 12:42	08/07/19 19:53	74-97-5	2c
Bromodichloromethane	ND	ug/kg	5.7	1.2	1	08/07/19 12:42	08/07/19 19:53	75-27-4	2c
Bromoform	ND	ug/kg	5.7	0.75	1	08/07/19 12:42	08/07/19 19:53	75-25-2	2c
Bromomethane	ND	ug/kg	5.7	2.1	1	08/07/19 12:42	08/07/19 19:53	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	34.1	6.9	1	08/07/19 12:42	08/07/19 19:53		
2-Butanone (MEK)	30.8	ug/kg	11.4	1.0	1	08/07/19 12:42	08/07/19 19:53	78-93-3	2c,3c
Carbon disulfide	8.8	ug/kg	5.7	1.6	1	08/07/19 12:42	08/07/19 19:53	75-15-0	2c
Carbon tetrachloride	ND	ug/kg	5.7	2.0	1	08/07/19 12:42	08/07/19 19:53	56-23-5	2c,CL
Chlorobenzene	ND	ug/kg	5.7	0.89	1	08/07/19 12:42	08/07/19 19:53	108-90-7	2c
Chloroethane	ND	ug/kg	5.7	2.4	1	08/07/19 12:42	08/07/19 19:53	75-00-3	2c
Chloroform	ND	ug/kg	5.7	1.7	1	08/07/19 12:42	08/07/19 19:53	67-66-3	2c
Chloromethane	ND	ug/kg	5.7	1.9	1	08/07/19 12:42	08/07/19 19:53	74-87-3	2c
Dibromochloromethane	ND	ug/kg	5.7	0.90	1	08/07/19 12:42	08/07/19 19:53	124-48-1	2c
1,2-Dichlorobenzene	ND	ug/kg	5.7	0.67	1	08/07/19 12:42	08/07/19 19:53	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/kg	5.7	0.74	1	08/07/19 12:42	08/07/19 19:53	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/kg	5.7	0.81	1	08/07/19 12:42	08/07/19 19:53	106-46-7	2c
1,1-Dichloroethane	ND	ug/kg	5.7	1.4	1	08/07/19 12:42	08/07/19 19:53	75-34-3	2c
1,2-Dichloroethane	ND	ug/kg	5.7	1.5	1	08/07/19 12:42	08/07/19 19:53	107-06-2	2c
1,2-Dichloroethene (Total)	ND	ug/kg	11.4	2.8	1	08/07/19 12:42	08/07/19 19:53	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.7	2.1	1	08/07/19 12:42	08/07/19 19:53	75-35-4	2c
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1.3	1	08/07/19 12:42	08/07/19 19:53	156-59-2	2c
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1.4	1	08/07/19 12:42	08/07/19 19:53	156-60-5	2c
1,2-Dichloropropane	ND	ug/kg	5.7	0.82	1	08/07/19 12:42	08/07/19 19:53	78-87-5	2c
cis-1,3-Dichloropropene	ND	ug/kg	5.7	0.57	1	08/07/19 12:42	08/07/19 19:53	10061-01-5	2c
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1.2	1	08/07/19 12:42	08/07/19 19:53	10061-02-6	2c
Ethylbenzene	ND	ug/kg	5.7	1.2	1	08/07/19 12:42	08/07/19 19:53	100-41-4	2c
2-Hexanone	ND	ug/kg	11.4	1.1	1	08/07/19 12:42	08/07/19 19:53	591-78-6	2c
Isopropylbenzene (Cumene)	188	ug/kg	5.7	1.3	1	08/07/19 12:42	08/07/19 19:53	98-82-8	2c
Methylene Chloride	ND	ug/kg	5.7	4.8	1	08/07/19 12:42	08/07/19 19:53	75-09-2	2c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.4	1.3	1	08/07/19 12:42	08/07/19 19:53	108-10-1	2c
Methyl-tert-butyl ether	ND	ug/kg	5.7	0.76	1	08/07/19 12:42	08/07/19 19:53	1634-04-4	2c
Naphthalene	11.6	ug/kg	5.7	1.1	1	08/07/19 12:42	08/07/19 19:53	91-20-3	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-20 **Lab ID: 30317042014** Collected: 07/30/19 13:30 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	5.7	1.6	1	08/07/19 12:42	08/07/19 19:53	100-42-5	2c
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	0.67	1	08/07/19 12:42	08/07/19 19:53	79-34-5	2c
Tetrachloroethene	ND	ug/kg	5.7	2.0	1	08/07/19 12:42	08/07/19 19:53	127-18-4	2c
Toluene	ND	ug/kg	5.7	1.1	1	08/07/19 12:42	08/07/19 19:53	108-88-3	2c
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	1.4	1	08/07/19 12:42	08/07/19 19:53	120-82-1	2c
1,1,1-Trichloroethane	ND	ug/kg	5.7	1.7	1	08/07/19 12:42	08/07/19 19:53	71-55-6	2c
1,1,2-Trichloroethane	ND	ug/kg	5.7	1.1	1	08/07/19 12:42	08/07/19 19:53	79-00-5	2c
Trichloroethene	ND	ug/kg	5.7	1.7	1	08/07/19 12:42	08/07/19 19:53	79-01-6	2c
1,2,4-Trimethylbenzene	3180	ug/kg	319	156	50	08/08/19 09:42	08/08/19 10:48	95-63-6	2c
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	2.3	1	08/07/19 12:42	08/07/19 19:53	108-67-8	2c
Vinyl chloride	ND	ug/kg	5.7	2.4	1	08/07/19 12:42	08/07/19 19:53	75-01-4	2c
Xylene (Total)	34.6	ug/kg	17.0	3.6	1	08/07/19 12:42	08/07/19 19:53	1330-20-7	
m&p-Xylene	ND	ug/kg	11.4	2.4	1	08/07/19 12:42	08/07/19 19:53	179601-23-1	2c
o-Xylene	29.1	ug/kg	5.7	1.2	1	08/07/19 12:42	08/07/19 19:53	95-47-6	2c
Surrogates									
Toluene-d8 (S)	155	%	70-130		1	08/07/19 12:42	08/07/19 19:53	2037-26-5	ST
4-Bromofluorobenzene (S)	57	%	70-130		1	08/07/19 12:42	08/07/19 19:53	460-00-4	SR
1,2-Dichloroethane-d4 (S)	98	%	70-130		1	08/07/19 12:42	08/07/19 19:53	17060-07-0	
Dibromofluoromethane (S)	84	%	70-130		1	08/07/19 12:42	08/07/19 19:53	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	13.3	%	0.10	0.10	1		08/06/19 16:50		
9014 Cyanide, Total		Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C							
Cyanide	2.4	mg/kg	1.2	0.30	1	08/05/19 14:19	08/08/19 17:15	57-12-5	ML,R1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-21 **Lab ID:** 30317042015 Collected: 07/30/19 13:55 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	16.5	10.2	1	08/05/19 08:14	08/06/19 23:38	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	16.5	14.6	1	08/05/19 08:14	08/06/19 23:38	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	16.5	15.0	1	08/05/19 08:14	08/06/19 23:38	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	16.5	12.1	1	08/05/19 08:14	08/06/19 23:38	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	16.5	9.5	1	08/05/19 08:14	08/06/19 23:38	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	16.5	8.8	1	08/05/19 08:14	08/06/19 23:38	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	16.5	9.4	1	08/05/19 08:14	08/06/19 23:38	11096-82-5	
PCB, Total	ND	ug/kg	149	93.3	1	08/05/19 08:14	08/06/19 23:38	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	34-114		1	08/05/19 08:14	08/06/19 23:38	877-09-8	
Decachlorobiphenyl (S)	91	%	38-139		1	08/05/19 08:14	08/06/19 23:38	2051-24-3	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	10400	mg/kg	8.8	2.2	1	08/05/19 08:08	08/07/19 10:19	7429-90-5	
Antimony	ND	mg/kg	0.53	0.42	1	08/05/19 08:08	08/07/19 10:19	7440-36-0	
Arsenic	3.2	mg/kg	0.44	0.42	1	08/05/19 08:08	08/07/19 10:19	7440-38-2	
Barium	51.6	mg/kg	1.8	0.082	1	08/05/19 08:08	08/07/19 10:19	7440-39-3	
Beryllium	0.41	mg/kg	0.18	0.027	1	08/05/19 08:08	08/07/19 10:19	7440-41-7	
Boron	ND	mg/kg	4.4	0.15	1	08/05/19 08:08	08/07/19 10:19	7440-42-8	
Cadmium	ND	mg/kg	0.26	0.053	1	08/05/19 08:08	08/07/19 10:19	7440-43-9	
Calcium	1110	mg/kg	175	4.3	1	08/05/19 08:08	08/07/19 10:19	7440-70-2	
Chromium	11.2	mg/kg	0.44	0.081	1	08/05/19 08:08	08/07/19 10:19	7440-47-3	
Cobalt	5.5	mg/kg	0.88	0.093	1	08/05/19 08:08	08/07/19 10:19	7440-48-4	
Copper	16.5	mg/kg	0.88	0.51	1	08/05/19 08:08	08/07/19 12:15	7440-50-8	
Iron	14500	mg/kg	8.8	1.0	1	08/05/19 08:08	08/07/19 10:19	7439-89-6	
Lead	11.0	mg/kg	0.44	0.43	1	08/05/19 08:08	08/07/19 10:19	7439-92-1	
Magnesium	3000	mg/kg	43.9	5.1	1	08/05/19 08:08	08/07/19 10:19	7439-95-4	
Manganese	113	mg/kg	0.88	0.088	1	08/05/19 08:08	08/07/19 10:19	7439-96-5	
Molybdenum	ND	mg/kg	1.8	0.13	1	08/05/19 08:08	08/07/19 10:19	7439-98-7	
Nickel	14.2	mg/kg	1.8	0.22	1	08/05/19 08:08	08/07/19 10:19	7440-02-0	
Potassium	964	mg/kg	43.9	40.4	1	08/05/19 08:08	08/07/19 10:19	7440-09-7	
Selenium	ND	mg/kg	0.70	0.51	1	08/05/19 08:08	08/07/19 10:19	7782-49-2	
Silver	ND	mg/kg	0.53	0.085	1	08/05/19 08:08	08/07/19 10:19	7440-22-4	
Sodium	ND	mg/kg	439	31.9	1	08/05/19 08:08	08/07/19 10:19	7440-23-5	
Thallium	ND	mg/kg	1.8	0.54	1	08/05/19 08:08	08/07/19 10:19	7440-28-0	
Vanadium	15.4	mg/kg	0.88	0.071	1	08/05/19 08:08	08/07/19 10:19	7440-62-2	
Zinc	41.3	mg/kg	0.88	0.15	1	08/05/19 08:08	08/07/19 10:19	7440-66-6	B
7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.10	0.0049	1	08/02/19 09:21	08/02/19 17:08	7439-97-6	
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	333	113	1	08/02/19 22:23	08/05/19 22:38	83-32-9	
Acenaphthylene	ND	ug/kg	333	100	1	08/02/19 22:23	08/05/19 22:38	208-96-8	
Anthracene	ND	ug/kg	333	76.5	1	08/02/19 22:23	08/05/19 22:38	120-12-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-21 **Lab ID: 30317042015** Collected: 07/30/19 13:55 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Azobenzene	ND	ug/kg	333	118	1	08/02/19 22:23	08/05/19 22:38	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	333	150	1	08/02/19 22:23	08/05/19 22:38	56-55-3	
Benzo(a)pyrene	ND	ug/kg	333	104	1	08/02/19 22:23	08/05/19 22:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	333	101	1	08/02/19 22:23	08/05/19 22:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	333	116	1	08/02/19 22:23	08/05/19 22:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	333	147	1	08/02/19 22:23	08/05/19 22:38	207-08-9	
Benzoic acid	ND	ug/kg	5000	1690	1	08/02/19 22:23	08/05/19 22:38	65-85-0	CH
Benzyl alcohol	ND	ug/kg	333	294	1	08/02/19 22:23	08/05/19 22:38	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	333	122	1	08/02/19 22:23	08/05/19 22:38	101-55-3	
Butylbenzylphthalate	ND	ug/kg	333	93.6	1	08/02/19 22:23	08/05/19 22:38	85-68-7	
Carbazole	ND	ug/kg	333	131	1	08/02/19 22:23	08/05/19 22:38	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	333	53.6	1	08/02/19 22:23	08/05/19 22:38	59-50-7	
4-Chloroaniline	ND	ug/kg	333	58.6	1	08/02/19 22:23	08/05/19 22:38	106-47-8	L1
bis(2-Chloroethoxy)methane	ND	ug/kg	333	132	1	08/02/19 22:23	08/05/19 22:38	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	333	60.8	1	08/02/19 22:23	08/05/19 22:38	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	333	282	1	08/02/19 22:23	08/05/19 22:38	108-60-1	
2-Chloronaphthalene	ND	ug/kg	333	95.1	1	08/02/19 22:23	08/05/19 22:38	91-58-7	
2-Chlorophenol	ND	ug/kg	333	104	1	08/02/19 22:23	08/05/19 22:38	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	333	96.3	1	08/02/19 22:23	08/05/19 22:38	7005-72-3	
Chrysene	ND	ug/kg	333	123	1	08/02/19 22:23	08/05/19 22:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	333	127	1	08/02/19 22:23	08/05/19 22:38	53-70-3	
Dibenzofuran	ND	ug/kg	333	107	1	08/02/19 22:23	08/05/19 22:38	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	333	104	1	08/02/19 22:23	08/05/19 22:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	333	98.6	1	08/02/19 22:23	08/05/19 22:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	333	46.0	1	08/02/19 22:23	08/05/19 22:38	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	333	97.8	1	08/02/19 22:23	08/05/19 22:38	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	333	150	1	08/02/19 22:23	08/05/19 22:38	120-83-2	
Diethylphthalate	ND	ug/kg	333	117	1	08/02/19 22:23	08/05/19 22:38	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	333	101	1	08/02/19 22:23	08/05/19 22:38	105-67-9	L1
Dimethylphthalate	ND	ug/kg	333	103	1	08/02/19 22:23	08/05/19 22:38	131-11-3	
Di-n-butylphthalate	ND	ug/kg	333	112	1	08/02/19 22:23	08/05/19 22:38	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	833	248	1	08/02/19 22:23	08/05/19 22:38	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	833	749	1	08/02/19 22:23	08/05/19 22:38	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	333	101	1	08/02/19 22:23	08/05/19 22:38	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	333	101	1	08/02/19 22:23	08/05/19 22:38	606-20-2	
Di-n-octylphthalate	ND	ug/kg	333	75.6	1	08/02/19 22:23	08/05/19 22:38	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	333	106	1	08/02/19 22:23	08/05/19 22:38	117-81-7	
Fluoranthene	ND	ug/kg	333	107	1	08/02/19 22:23	08/05/19 22:38	206-44-0	
Fluorene	ND	ug/kg	333	102	1	08/02/19 22:23	08/05/19 22:38	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	333	108	1	08/02/19 22:23	08/05/19 22:38	87-68-3	
Hexachlorobenzene	ND	ug/kg	333	95.7	1	08/02/19 22:23	08/05/19 22:38	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	333	78.8	1	08/02/19 22:23	08/05/19 22:38	77-47-4	
Hexachloroethane	ND	ug/kg	333	89.9	1	08/02/19 22:23	08/05/19 22:38	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	333	125	1	08/02/19 22:23	08/05/19 22:38	193-39-5	
Isophorone	ND	ug/kg	333	110	1	08/02/19 22:23	08/05/19 22:38	78-59-1	L1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-21 Lab ID: 30317042015 Collected: 07/30/19 13:55 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
1-Methylnaphthalene	ND	ug/kg	333	83.7	1	08/02/19 22:23	08/05/19 22:38	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	333	100	1	08/02/19 22:23	08/05/19 22:38	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	333	120	1	08/02/19 22:23	08/05/19 22:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	666	204	1	08/02/19 22:23	08/05/19 22:38		
Naphthalene	ND	ug/kg	333	90.3	1	08/02/19 22:23	08/05/19 22:38	91-20-3	
2-Nitroaniline	ND	ug/kg	833	116	1	08/02/19 22:23	08/05/19 22:38	88-74-4	
3-Nitroaniline	ND	ug/kg	833	217	1	08/02/19 22:23	08/05/19 22:38	99-09-2	
4-Nitroaniline	ND	ug/kg	833	468	1	08/02/19 22:23	08/05/19 22:38	100-01-6	
Nitrobenzene	ND	ug/kg	333	123	1	08/02/19 22:23	08/05/19 22:38	98-95-3	
2-Nitrophenol	ND	ug/kg	333	132	1	08/02/19 22:23	08/05/19 22:38	88-75-5	
4-Nitrophenol	ND	ug/kg	333	112	1	08/02/19 22:23	08/05/19 22:38	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	333	57.1	1	08/02/19 22:23	08/05/19 22:38	62-75-9	CH,L1
N-Nitroso-di-n-propylamine	ND	ug/kg	333	141	1	08/02/19 22:23	08/05/19 22:38	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	333	75.1	1	08/02/19 22:23	08/05/19 22:38	86-30-6	
Pentachlorophenol	ND	ug/kg	833	439	1	08/02/19 22:23	08/05/19 22:38	87-86-5	
Phenanthrene	ND	ug/kg	333	146	1	08/02/19 22:23	08/05/19 22:38	85-01-8	
Phenol	ND	ug/kg	333	98.7	1	08/02/19 22:23	08/05/19 22:38	108-95-2	
Pyrene	ND	ug/kg	333	122	1	08/02/19 22:23	08/05/19 22:38	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	333	90.1	1	08/02/19 22:23	08/05/19 22:38	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	833	98.5	1	08/02/19 22:23	08/05/19 22:38	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	333	87.0	1	08/02/19 22:23	08/05/19 22:38	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	87	%	45-103		1	08/02/19 22:23	08/05/19 22:38	4165-60-0	
2-Fluorobiphenyl (S)	87	%	52-102		1	08/02/19 22:23	08/05/19 22:38	321-60-8	
Terphenyl-d14 (S)	90	%	53-135		1	08/02/19 22:23	08/05/19 22:38	1718-51-0	
Phenol-d6 (S)	92	%	35-120		1	08/02/19 22:23	08/05/19 22:38	13127-88-3	
2-Fluorophenol (S)	96	%	10-147		1	08/02/19 22:23	08/05/19 22:38	367-12-4	
2,4,6-Tribromophenol (S)	81	%	10-160		1	08/02/19 22:23	08/05/19 22:38	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Acetone	75.6	ug/kg	12.7	4.0	1	08/07/19 12:42	08/07/19 20:21	67-64-1	2c,3c
Benzene	ND	ug/kg	6.4	1.1	1	08/07/19 12:42	08/07/19 20:21	71-43-2	2c
Bromochloromethane	ND	ug/kg	6.4	1.4	1	08/07/19 12:42	08/07/19 20:21	74-97-5	2c
Bromodichloromethane	ND	ug/kg	6.4	1.4	1	08/07/19 12:42	08/07/19 20:21	75-27-4	2c
Bromoform	ND	ug/kg	6.4	0.84	1	08/07/19 12:42	08/07/19 20:21	75-25-2	2c
Bromomethane	ND	ug/kg	6.4	2.4	1	08/07/19 12:42	08/07/19 20:21	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	38.2	7.8	1	08/07/19 12:42	08/07/19 20:21		
2-Butanone (MEK)	ND	ug/kg	12.7	1.2	1	08/07/19 12:42	08/07/19 20:21	78-93-3	2c,3c
Carbon disulfide	ND	ug/kg	6.4	1.8	1	08/07/19 12:42	08/07/19 20:21	75-15-0	2c
Carbon tetrachloride	ND	ug/kg	6.4	2.2	1	08/07/19 12:42	08/07/19 20:21	56-23-5	2c,CL
Chlorobenzene	ND	ug/kg	6.4	0.99	1	08/07/19 12:42	08/07/19 20:21	108-90-7	2c
Chloroethane	ND	ug/kg	6.4	2.7	1	08/07/19 12:42	08/07/19 20:21	75-00-3	2c
Chloroform	ND	ug/kg	6.4	1.9	1	08/07/19 12:42	08/07/19 20:21	67-66-3	2c
Chloromethane	ND	ug/kg	6.4	2.2	1	08/07/19 12:42	08/07/19 20:21	74-87-3	2c
Dibromochloromethane	ND	ug/kg	6.4	1.0	1	08/07/19 12:42	08/07/19 20:21	124-48-1	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-21 **Lab ID: 30317042015** Collected: 07/30/19 13:55 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level									
Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
1,2-Dichlorobenzene	ND	ug/kg	6.4	0.75	1	08/07/19 12:42	08/07/19 20:21	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/kg	6.4	0.83	1	08/07/19 12:42	08/07/19 20:21	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/kg	6.4	0.90	1	08/07/19 12:42	08/07/19 20:21	106-46-7	2c
1,1-Dichloroethane	ND	ug/kg	6.4	1.6	1	08/07/19 12:42	08/07/19 20:21	75-34-3	2c
1,2-Dichloroethane	ND	ug/kg	6.4	1.6	1	08/07/19 12:42	08/07/19 20:21	107-06-2	2c
1,2-Dichloroethene (Total)	ND	ug/kg	12.7	3.1	1	08/07/19 12:42	08/07/19 20:21	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.4	2.4	1	08/07/19 12:42	08/07/19 20:21	75-35-4	2c
cis-1,2-Dichloroethene	ND	ug/kg	6.4	1.5	1	08/07/19 12:42	08/07/19 20:21	156-59-2	2c
trans-1,2-Dichloroethene	ND	ug/kg	6.4	1.6	1	08/07/19 12:42	08/07/19 20:21	156-60-5	2c
1,2-Dichloropropane	ND	ug/kg	6.4	0.92	1	08/07/19 12:42	08/07/19 20:21	78-87-5	2c
cis-1,3-Dichloropropene	ND	ug/kg	6.4	0.64	1	08/07/19 12:42	08/07/19 20:21	10061-01-5	2c
trans-1,3-Dichloropropene	ND	ug/kg	6.4	1.3	1	08/07/19 12:42	08/07/19 20:21	10061-02-6	2c
Ethylbenzene	ND	ug/kg	6.4	1.4	1	08/07/19 12:42	08/07/19 20:21	100-41-4	2c
2-Hexanone	ND	ug/kg	12.7	1.2	1	08/07/19 12:42	08/07/19 20:21	591-78-6	2c
Isopropylbenzene (Cumene)	ND	ug/kg	6.4	1.5	1	08/07/19 12:42	08/07/19 20:21	98-82-8	2c
Methylene Chloride	ND	ug/kg	6.4	5.3	1	08/07/19 12:42	08/07/19 20:21	75-09-2	2c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.7	1.4	1	08/07/19 12:42	08/07/19 20:21	108-10-1	2c
Methyl-tert-butyl ether	ND	ug/kg	6.4	0.85	1	08/07/19 12:42	08/07/19 20:21	1634-04-4	2c
Naphthalene	ND	ug/kg	6.4	1.2	1	08/07/19 12:42	08/07/19 20:21	91-20-3	2c
Styrene	ND	ug/kg	6.4	1.8	1	08/07/19 12:42	08/07/19 20:21	100-42-5	2c
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.4	0.75	1	08/07/19 12:42	08/07/19 20:21	79-34-5	2c
Tetrachloroethene	ND	ug/kg	6.4	2.2	1	08/07/19 12:42	08/07/19 20:21	127-18-4	2c
Toluene	ND	ug/kg	6.4	1.3	1	08/07/19 12:42	08/07/19 20:21	108-88-3	2c
1,2,4-Trichlorobenzene	ND	ug/kg	6.4	1.6	1	08/07/19 12:42	08/07/19 20:21	120-82-1	2c
1,1,1-Trichloroethane	ND	ug/kg	6.4	1.9	1	08/07/19 12:42	08/07/19 20:21	71-55-6	2c
1,1,2-Trichloroethane	ND	ug/kg	6.4	1.3	1	08/07/19 12:42	08/07/19 20:21	79-00-5	2c
Trichloroethene	ND	ug/kg	6.4	1.9	1	08/07/19 12:42	08/07/19 20:21	79-01-6	2c
1,2,4-Trimethylbenzene	ND	ug/kg	6.4	3.1	1	08/07/19 12:42	08/07/19 20:21	95-63-6	2c
1,3,5-Trimethylbenzene	ND	ug/kg	6.4	2.6	1	08/07/19 12:42	08/07/19 20:21	108-67-8	2c
Vinyl chloride	ND	ug/kg	6.4	2.7	1	08/07/19 12:42	08/07/19 20:21	75-01-4	2c
Xylene (Total)	ND	ug/kg	19.1	4.0	1	08/07/19 12:42	08/07/19 20:21	1330-20-7	
m&p-Xylene	ND	ug/kg	12.7	2.7	1	08/07/19 12:42	08/07/19 20:21	179601-23-1	2c
o-Xylene	ND	ug/kg	6.4	1.4	1	08/07/19 12:42	08/07/19 20:21	95-47-6	2c
Surrogates									
Toluene-d8 (S)	98	%	70-130		1	08/07/19 12:42	08/07/19 20:21	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1	08/07/19 12:42	08/07/19 20:21	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1	08/07/19 12:42	08/07/19 20:21	17060-07-0	
Dibromofluoromethane (S)	100	%	70-130		1	08/07/19 12:42	08/07/19 20:21	1868-53-7	
9014 Cyanide, Total									
Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C									
Cyanide	2.1	mg/kg	0.95	0.24	1	08/05/19 14:19	08/08/19 17:18	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-19 **Lab ID: 30317042016** Collected: 07/30/19 14:15 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	1430	884	50	08/05/19 08:14	08/05/19 21:47	12674-11-2	M6,R1
PCB-1221 (Aroclor 1221)	ND	ug/kg	1430	1270	50	08/05/19 08:14	08/05/19 21:47	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1430	1300	50	08/05/19 08:14	08/05/19 21:47	11141-16-5	
PCB-1242 (Aroclor 1242)	9520	ug/kg	1430	1050	50	08/05/19 08:14	08/05/19 21:47	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1430	824	50	08/05/19 08:14	08/05/19 21:47	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1430	764	50	08/05/19 08:14	08/05/19 21:47	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	1430	815	50	08/05/19 08:14	08/05/19 21:47	11096-82-5	
PCB, Total	ND	ug/kg	12900	8090	50	08/05/19 08:14	08/05/19 21:47	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	34-114		50	08/05/19 08:14	08/05/19 21:47	877-09-8	
Decachlorobiphenyl (S)	115	%	38-139		50	08/05/19 08:14	08/05/19 21:47	2051-24-3	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	9560	mg/kg	16.1	4.0	1	08/05/19 08:08	08/07/19 10:21	7429-90-5	
Antimony	5.1	mg/kg	0.97	0.78	1	08/05/19 08:08	08/07/19 10:21	7440-36-0	
Arsenic	14.0	mg/kg	0.81	0.77	1	08/05/19 08:08	08/07/19 10:21	7440-38-2	
Barium	232	mg/kg	3.2	0.15	1	08/05/19 08:08	08/07/19 10:21	7440-39-3	
Beryllium	0.64	mg/kg	0.32	0.049	1	08/05/19 08:08	08/07/19 10:21	7440-41-7	
Boron	10.3	mg/kg	8.1	0.28	1	08/05/19 08:08	08/07/19 10:21	7440-42-8	
Cadmium	1.1	mg/kg	0.48	0.098	1	08/05/19 08:08	08/07/19 10:21	7440-43-9	
Calcium	15500	mg/kg	322	7.8	1	08/05/19 08:08	08/07/19 10:21	7440-70-2	
Chromium	49.2	mg/kg	1.6	0.30	2	08/05/19 08:08	08/07/19 10:40	7440-47-3	
Cobalt	16.8	mg/kg	1.6	0.17	1	08/05/19 08:08	08/07/19 10:21	7440-48-4	
Copper	85.1	mg/kg	1.6	0.94	1	08/05/19 08:08	08/07/19 12:18	7440-50-8	
Iron	32100	mg/kg	16.1	1.9	1	08/05/19 08:08	08/07/19 10:21	7439-89-6	
Lead	915	mg/kg	0.81	0.79	1	08/05/19 08:08	08/07/19 10:21	7439-92-1	
Magnesium	5290	mg/kg	80.5	9.4	1	08/05/19 08:08	08/07/19 10:21	7439-95-4	
Manganese	620	mg/kg	1.6	0.16	1	08/05/19 08:08	08/07/19 10:21	7439-96-5	
Molybdenum	3.9	mg/kg	3.2	0.23	1	08/05/19 08:08	08/07/19 10:21	7439-98-7	
Nickel	40.8	mg/kg	3.2	0.40	1	08/05/19 08:08	08/07/19 10:21	7440-02-0	
Potassium	1500	mg/kg	80.5	74.2	1	08/05/19 08:08	08/07/19 10:21	7440-09-7	
Selenium	ND	mg/kg	1.3	0.94	1	08/05/19 08:08	08/07/19 10:21	7782-49-2	
Silver	ND	mg/kg	1.9	0.31	2	08/05/19 08:08	08/07/19 10:40	7440-22-4	
Sodium	ND	mg/kg	805	58.7	1	08/05/19 08:08	08/07/19 10:21	7440-23-5	
Thallium	ND	mg/kg	3.2	0.99	1	08/05/19 08:08	08/07/19 10:21	7440-28-0	
Vanadium	67.3	mg/kg	3.2	0.26	2	08/05/19 08:08	08/07/19 10:40	7440-62-2	
Zinc	504	mg/kg	1.6	0.27	1	08/05/19 08:08	08/07/19 10:21	7440-66-6	B
7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	0.55	mg/kg	0.17	0.0085	1	08/02/19 09:21	08/02/19 17:09	7439-97-6	
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	5770	1960	10	08/02/19 22:23	08/06/19 02:00	83-32-9	ED
Acenaphthylene	ND	ug/kg	5770	1730	10	08/02/19 22:23	08/06/19 02:00	208-96-8	ED
Anthracene	ND	ug/kg	5770	1320	10	08/02/19 22:23	08/06/19 02:00	120-12-7	ED

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-19 **Lab ID: 30317042016** Collected: 07/30/19 14:15 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Azobenzene	ND	ug/kg	5770	2030	10	08/02/19 22:23	08/06/19 02:00	103-33-3	ED,N2
Benzo(a)anthracene	ND	ug/kg	5770	2590	10	08/02/19 22:23	08/06/19 02:00	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	5770	1790	10	08/02/19 22:23	08/06/19 02:00	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	5770	1750	10	08/02/19 22:23	08/06/19 02:00	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	5770	2000	10	08/02/19 22:23	08/06/19 02:00	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/kg	5770	2550	10	08/02/19 22:23	08/06/19 02:00	207-08-9	ED
Benzoic acid	ND	ug/kg	86500	29200	10	08/02/19 22:23	08/06/19 02:00	65-85-0	CH,ED
Benzyl alcohol	ND	ug/kg	5770	5100	10	08/02/19 22:23	08/06/19 02:00	100-51-6	ED
4-Bromophenylphenyl ether	ND	ug/kg	5770	2120	10	08/02/19 22:23	08/06/19 02:00	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	5770	1620	10	08/02/19 22:23	08/06/19 02:00	85-68-7	ED
Carbazole	ND	ug/kg	5770	2260	10	08/02/19 22:23	08/06/19 02:00	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/kg	5770	928	10	08/02/19 22:23	08/06/19 02:00	59-50-7	ED
4-Chloroaniline	ND	ug/kg	5770	1010	10	08/02/19 22:23	08/06/19 02:00	106-47-8	ED,L1
bis(2-Chloroethoxy)methane	ND	ug/kg	5770	2280	10	08/02/19 22:23	08/06/19 02:00	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/kg	5770	1050	10	08/02/19 22:23	08/06/19 02:00	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	5770	4890	10	08/02/19 22:23	08/06/19 02:00	108-60-1	ED
2-Chloronaphthalene	ND	ug/kg	5770	1650	10	08/02/19 22:23	08/06/19 02:00	91-58-7	ED
2-Chlorophenol	ND	ug/kg	5770	1800	10	08/02/19 22:23	08/06/19 02:00	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/kg	5770	1670	10	08/02/19 22:23	08/06/19 02:00	7005-72-3	ED
Chrysene	ND	ug/kg	5770	2130	10	08/02/19 22:23	08/06/19 02:00	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	5770	2190	10	08/02/19 22:23	08/06/19 02:00	53-70-3	ED
Dibenzofuran	ND	ug/kg	5770	1850	10	08/02/19 22:23	08/06/19 02:00	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	5770	1800	10	08/02/19 22:23	08/06/19 02:00	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	5770	1710	10	08/02/19 22:23	08/06/19 02:00	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	5770	796	10	08/02/19 22:23	08/06/19 02:00	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	5770	1690	10	08/02/19 22:23	08/06/19 02:00	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	5770	2590	10	08/02/19 22:23	08/06/19 02:00	120-83-2	ED
Diethylphthalate	ND	ug/kg	5770	2030	10	08/02/19 22:23	08/06/19 02:00	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	5770	1750	10	08/02/19 22:23	08/06/19 02:00	105-67-9	ED,L1
Dimethylphthalate	ND	ug/kg	5770	1780	10	08/02/19 22:23	08/06/19 02:00	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	5770	1940	10	08/02/19 22:23	08/06/19 02:00	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	14400	4300	10	08/02/19 22:23	08/06/19 02:00	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	14400	13000	10	08/02/19 22:23	08/06/19 02:00	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/kg	5770	1750	10	08/02/19 22:23	08/06/19 02:00	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	5770	1750	10	08/02/19 22:23	08/06/19 02:00	606-20-2	ED
Di-n-octylphthalate	ND	ug/kg	5770	1310	10	08/02/19 22:23	08/06/19 02:00	117-84-0	ED
bis(2-Ethylhexyl)phthalate	ND	ug/kg	5770	1840	10	08/02/19 22:23	08/06/19 02:00	117-81-7	ED
Fluoranthene	5790	ug/kg	5770	1860	10	08/02/19 22:23	08/06/19 02:00	206-44-0	ED
Fluorene	ND	ug/kg	5770	1770	10	08/02/19 22:23	08/06/19 02:00	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	5770	1880	10	08/02/19 22:23	08/06/19 02:00	87-68-3	ED
Hexachlorobenzene	ND	ug/kg	5770	1660	10	08/02/19 22:23	08/06/19 02:00	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/kg	5770	1360	10	08/02/19 22:23	08/06/19 02:00	77-47-4	ED
Hexachloroethane	ND	ug/kg	5770	1560	10	08/02/19 22:23	08/06/19 02:00	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5770	2170	10	08/02/19 22:23	08/06/19 02:00	193-39-5	ED
Isophorone	ND	ug/kg	5770	1900	10	08/02/19 22:23	08/06/19 02:00	78-59-1	ED,L1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-19 **Lab ID: 30317042016** Collected: 07/30/19 14:15 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
1-Methylnaphthalene	ND	ug/kg	5770	1450	10	08/02/19 22:23	08/06/19 02:00	90-12-0	ED, L1
2-Methylnaphthalene	ND	ug/kg	5770	1730	10	08/02/19 22:23	08/06/19 02:00	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/kg	5770	2070	10	08/02/19 22:23	08/06/19 02:00	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	11500	3540	10	08/02/19 22:23	08/06/19 02:00		ED
Naphthalene	ND	ug/kg	5770	1560	10	08/02/19 22:23	08/06/19 02:00	91-20-3	ED
2-Nitroaniline	ND	ug/kg	14400	2000	10	08/02/19 22:23	08/06/19 02:00	88-74-4	ED
3-Nitroaniline	ND	ug/kg	14400	3760	10	08/02/19 22:23	08/06/19 02:00	99-09-2	ED
4-Nitroaniline	ND	ug/kg	14400	8090	10	08/02/19 22:23	08/06/19 02:00	100-01-6	ED
Nitrobenzene	ND	ug/kg	5770	2140	10	08/02/19 22:23	08/06/19 02:00	98-95-3	ED
2-Nitrophenol	ND	ug/kg	5770	2290	10	08/02/19 22:23	08/06/19 02:00	88-75-5	ED
4-Nitrophenol	ND	ug/kg	5770	1940	10	08/02/19 22:23	08/06/19 02:00	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	5770	989	10	08/02/19 22:23	08/06/19 02:00	62-75-9	CH,ED, L1
N-Nitroso-di-n-propylamine	ND	ug/kg	5770	2440	10	08/02/19 22:23	08/06/19 02:00	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/kg	5770	1300	10	08/02/19 22:23	08/06/19 02:00	86-30-6	ED
Pentachlorophenol	ND	ug/kg	14400	7590	10	08/02/19 22:23	08/06/19 02:00	87-86-5	ED
Phenanthrene	ND	ug/kg	5770	2530	10	08/02/19 22:23	08/06/19 02:00	85-01-8	ED
Phenol	ND	ug/kg	5770	1710	10	08/02/19 22:23	08/06/19 02:00	108-95-2	ED
Pyrene	ND	ug/kg	5770	2110	10	08/02/19 22:23	08/06/19 02:00	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	5770	1560	10	08/02/19 22:23	08/06/19 02:00	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/kg	14400	1710	10	08/02/19 22:23	08/06/19 02:00	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	5770	1510	10	08/02/19 22:23	08/06/19 02:00	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	72	%	45-103		10	08/02/19 22:23	08/06/19 02:00	4165-60-0	
2-Fluorobiphenyl (S)	74	%	52-102		10	08/02/19 22:23	08/06/19 02:00	321-60-8	
Terphenyl-d14 (S)	64	%	53-135		10	08/02/19 22:23	08/06/19 02:00	1718-51-0	
Phenol-d6 (S)	79	%	35-120		10	08/02/19 22:23	08/06/19 02:00	13127-88-3	
2-Fluorophenol (S)	81	%	10-147		10	08/02/19 22:23	08/06/19 02:00	367-12-4	
2,4,6-Tribromophenol (S)	55	%	10-160		10	08/02/19 22:23	08/06/19 02:00	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Acetone	442	ug/kg	26.4	8.4	1	08/07/19 12:42	08/07/19 20:49	67-64-1	2c
Benzene	ND	ug/kg	13.2	2.3	1	08/07/19 12:42	08/07/19 20:49	71-43-2	2c
Bromochloromethane	ND	ug/kg	13.2	2.9	1	08/07/19 12:42	08/07/19 20:49	74-97-5	2c
Bromodichloromethane	ND	ug/kg	13.2	2.9	1	08/07/19 12:42	08/07/19 20:49	75-27-4	2c
Bromoform	ND	ug/kg	13.2	1.7	1	08/07/19 12:42	08/07/19 20:49	75-25-2	2c
Bromomethane	ND	ug/kg	13.2	4.9	1	08/07/19 12:42	08/07/19 20:49	74-83-9	2c
TOTAL BTEX	ND	ug/kg	79.1	16.1	1	08/07/19 12:42	08/07/19 20:49		
2-Butanone (MEK)	35.1	ug/kg	26.4	2.4	1	08/07/19 12:42	08/07/19 20:49	78-93-3	2c
Carbon disulfide	ND	ug/kg	13.2	3.7	1	08/07/19 12:42	08/07/19 20:49	75-15-0	2c
Carbon tetrachloride	ND	ug/kg	13.2	4.5	1	08/07/19 12:42	08/07/19 20:49	56-23-5	2c
Chlorobenzene	ND	ug/kg	13.2	2.1	1	08/07/19 12:42	08/07/19 20:49	108-90-7	2c
Chloroethane	ND	ug/kg	13.2	5.5	1	08/07/19 12:42	08/07/19 20:49	75-00-3	2c
Chloroform	ND	ug/kg	13.2	4.0	1	08/07/19 12:42	08/07/19 20:49	67-66-3	2c
Chloromethane	ND	ug/kg	13.2	4.5	1	08/07/19 12:42	08/07/19 20:49	74-87-3	2c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TP/GW
Pace Project No.: 30317042

Sample: TP-19 **Lab ID: 30317042016** Collected: 07/30/19 14:15 Received: 07/31/19 09:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level									
Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
Dibromochloromethane	ND	ug/kg	13.2	2.1	1	08/07/19 12:42	08/07/19 20:49	124-48-1	2c
1,2-Dichlorobenzene	ND	ug/kg	13.2	1.6	1	08/07/19 12:42	08/07/19 20:49	95-50-1	2c
1,3-Dichlorobenzene	ND	ug/kg	13.2	1.7	1	08/07/19 12:42	08/07/19 20:49	541-73-1	2c
1,4-Dichlorobenzene	ND	ug/kg	13.2	1.9	1	08/07/19 12:42	08/07/19 20:49	106-46-7	2c
1,1-Dichloroethane	ND	ug/kg	13.2	3.3	1	08/07/19 12:42	08/07/19 20:49	75-34-3	2c
1,2-Dichloroethane	ND	ug/kg	13.2	3.4	1	08/07/19 12:42	08/07/19 20:49	107-06-2	2c
1,2-Dichloroethene (Total)	ND	ug/kg	26.4	6.4	1	08/07/19 12:42	08/07/19 20:49	540-59-0	
1,1-Dichloroethene	ND	ug/kg	13.2	4.9	1	08/07/19 12:42	08/07/19 20:49	75-35-4	2c
cis-1,2-Dichloroethene	ND	ug/kg	13.2	3.1	1	08/07/19 12:42	08/07/19 20:49	156-59-2	2c
trans-1,2-Dichloroethene	ND	ug/kg	13.2	3.3	1	08/07/19 12:42	08/07/19 20:49	156-60-5	2c
1,2-Dichloropropane	ND	ug/kg	13.2	1.9	1	08/07/19 12:42	08/07/19 20:49	78-87-5	2c
cis-1,3-Dichloropropene	ND	ug/kg	13.2	1.3	1	08/07/19 12:42	08/07/19 20:49	10061-01-5	2c
trans-1,3-Dichloropropene	ND	ug/kg	13.2	2.7	1	08/07/19 12:42	08/07/19 20:49	10061-02-6	2c
Ethylbenzene	ND	ug/kg	13.2	2.8	1	08/07/19 12:42	08/07/19 20:49	100-41-4	2c
2-Hexanone	ND	ug/kg	26.4	2.6	1	08/07/19 12:42	08/07/19 20:49	591-78-6	2c
Isopropylbenzene (Cumene)	ND	ug/kg	13.2	3.1	1	08/07/19 12:42	08/07/19 20:49	98-82-8	2c
Methylene Chloride	ND	ug/kg	13.2	11.0	1	08/07/19 12:42	08/07/19 20:49	75-09-2	2c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.4	3.0	1	08/07/19 12:42	08/07/19 20:49	108-10-1	2c
Methyl-tert-butyl ether	ND	ug/kg	13.2	1.8	1	08/07/19 12:42	08/07/19 20:49	1634-04-4	2c
Naphthalene	ND	ug/kg	13.2	2.5	1	08/07/19 12:42	08/07/19 20:49	91-20-3	2c
Styrene	ND	ug/kg	13.2	3.8	1	08/07/19 12:42	08/07/19 20:49	100-42-5	2c
1,1,2,2-Tetrachloroethane	ND	ug/kg	13.2	1.6	1	08/07/19 12:42	08/07/19 20:49	79-34-5	2c
Tetrachloroethene	ND	ug/kg	13.2	4.6	1	08/07/19 12:42	08/07/19 20:49	127-18-4	2c
Toluene	ND	ug/kg	13.2	2.6	1	08/07/19 12:42	08/07/19 20:49	108-88-3	2c
1,2,4-Trichlorobenzene	ND	ug/kg	13.2	3.3	1	08/07/19 12:42	08/07/19 20:49	120-82-1	2c
1,1,1-Trichloroethane	ND	ug/kg	13.2	4.0	1	08/07/19 12:42	08/07/19 20:49	71-55-6	2c
1,1,2-Trichloroethane	ND	ug/kg	13.2	2.6	1	08/07/19 12:42	08/07/19 20:49	79-00-5	2c
Trichloroethene	ND	ug/kg	13.2	3.9	1	08/07/19 12:42	08/07/19 20:49	79-01-6	2c
1,2,4-Trimethylbenzene	ND	ug/kg	13.2	6.4	1	08/07/19 12:42	08/07/19 20:49	95-63-6	2c
1,3,5-Trimethylbenzene	ND	ug/kg	13.2	5.4	1	08/07/19 12:42	08/07/19 20:49	108-67-8	2c
Vinyl chloride	ND	ug/kg	13.2	5.7	1	08/07/19 12:42	08/07/19 20:49	75-01-4	2c
Xylene (Total)	ND	ug/kg	39.5	8.4	1	08/07/19 12:42	08/07/19 20:49	1330-20-7	
m&p-Xylene	ND	ug/kg	26.4	5.5	1	08/07/19 12:42	08/07/19 20:49	179601-23-1	2c
o-Xylene	ND	ug/kg	13.2	2.8	1	08/07/19 12:42	08/07/19 20:49	95-47-6	2c
Surrogates									
Toluene-d8 (S)	101	%	70-130		1	08/07/19 12:42	08/07/19 20:49	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1	08/07/19 12:42	08/07/19 20:49	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1	08/07/19 12:42	08/07/19 20:49	17060-07-0	
Dibromofluoromethane (S)	99	%	70-130		1	08/07/19 12:42	08/07/19 20:49	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **42.5** % 0.10 0.10 1 08/06/19 16:50

9014 Cyanide, Total

Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C

Cyanide **4.0** mg/kg 1.7 0.45 1 08/05/19 14:19 08/08/19 17:19 57-12-5

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 354938 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 30317042002, 30317042007

METHOD BLANK: 1724149 Matrix: Water
Associated Lab Samples: 30317042002, 30317042007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.030	08/05/19 08:30	

LABORATORY CONTROL SAMPLE: 1724150

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	101	80-120	

MATRIX SPIKE SAMPLE: 1724152

Parameter	Units	30317042007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.5	102	75-125	

MATRIX SPIKE SAMPLE: 1724154

Parameter	Units	30317136002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.6	103	75-125	

SAMPLE DUPLICATE: 1724151

Parameter	Units	30317042007 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		20	

SAMPLE DUPLICATE: 1724153

Parameter	Units	30317136002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 355198 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 30317042002, 30317042007

METHOD BLANK: 1725391 Matrix: Water
Associated Lab Samples: 30317042002, 30317042007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	0.030	08/05/19 21:55	

LABORATORY CONTROL SAMPLE: 1725392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	1	0.99	99	80-120	

MATRIX SPIKE SAMPLE: 1725394

Parameter	Units	30317042007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	2.5	2.5	100	75-125	

SAMPLE DUPLICATE: 1725393

Parameter	Units	30317042007 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury, Dissolved	ug/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 354791 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury
Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

METHOD BLANK: 1723571 Matrix: Solid
Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.096	0.0047	08/02/19 16:34	

LABORATORY CONTROL SAMPLE: 1723572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.2	0.21	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1723573 1723574

Parameter	Units	30317042001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	ND	0.56	0.56	0.60	0.59	99	98	80-120	2	20	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 355018 Analysis Method: EPA 6010C
QC Batch Method: EPA 3050B Analysis Description: 6010C MET
Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

METHOD BLANK: 1724885 Matrix: Solid
Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/kg	ND	10.0	2.5	08/07/19 09:38	
Antimony	mg/kg	ND	0.60	0.48	08/07/19 09:38	
Arsenic	mg/kg	ND	0.50	0.48	08/07/19 09:38	
Barium	mg/kg	ND	2.0	0.094	08/07/19 09:38	
Beryllium	mg/kg	ND	0.20	0.030	08/07/19 09:38	
Boron	mg/kg	ND	5.0	0.18	08/07/19 09:38	
Cadmium	mg/kg	ND	0.30	0.061	08/07/19 09:38	
Calcium	mg/kg	ND	200	4.9	08/07/19 09:38	
Chromium	mg/kg	ND	0.50	0.092	08/07/19 09:38	
Cobalt	mg/kg	ND	1.0	0.11	08/07/19 09:38	
Copper	mg/kg	ND	1.0	0.58	08/07/19 11:35	
Iron	mg/kg	ND	10.0	1.2	08/07/19 09:38	
Lead	mg/kg	ND	0.50	0.49	08/07/19 09:38	
Magnesium	mg/kg	ND	50.0	5.8	08/07/19 09:38	
Manganese	mg/kg	ND	1.0	0.10	08/07/19 09:38	
Molybdenum	mg/kg	ND	2.0	0.14	08/07/19 09:38	
Nickel	mg/kg	ND	2.0	0.25	08/07/19 09:38	
Potassium	mg/kg	ND	50.0	46.1	08/07/19 09:38	
Selenium	mg/kg	ND	0.80	0.58	08/07/19 09:38	
Silver	mg/kg	ND	0.60	0.097	08/07/19 09:38	
Sodium	mg/kg	ND	500	36.4	08/07/19 09:38	
Thallium	mg/kg	ND	2.0	0.61	08/07/19 09:38	
Vanadium	mg/kg	ND	1.0	0.081	08/07/19 09:38	
Zinc	mg/kg	ND	1.0	0.17	08/07/19 09:38	B

LABORATORY CONTROL SAMPLE: 1724886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	500	464	93	80-120	
Antimony	mg/kg	50	42.4	85	80-120	
Arsenic	mg/kg	50	43.5	87	80-120	
Barium	mg/kg	50	47.2	94	80-120	
Beryllium	mg/kg	50	46.4	93	80-120	
Boron	mg/kg	50	40.0	80	80-120	
Cadmium	mg/kg	50	45.0	90	80-120	
Calcium	mg/kg	500	464	93	80-120	
Chromium	mg/kg	50	46.7	93	80-120	
Cobalt	mg/kg	50	45.3	91	80-120	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

LABORATORY CONTROL SAMPLE: 1724886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	mg/kg	50	47.1	94	80-120	
Iron	mg/kg	500	468	94	80-120	
Lead	mg/kg	50	45.5	91	80-120	
Magnesium	mg/kg	500	455	91	80-120	
Manganese	mg/kg	50	46.6	93	80-120	
Molybdenum	mg/kg	50	46.0	92	80-120	
Nickel	mg/kg	50	45.0	90	80-120	
Potassium	mg/kg	500	455	91	80-120	
Selenium	mg/kg	50	42.7	85	80-120	
Silver	mg/kg	25	21.4	86	80-120	
Sodium	mg/kg	500	461J	92	80-120	
Thallium	mg/kg	50	42.5	85	80-120	
Vanadium	mg/kg	50	45.8	92	80-120	
Zinc	mg/kg	50	46.0	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1724887 1724888

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30317042001 Result	Spike Conc.	Spike Conc.	Conc.								
Aluminum	mg/kg	15500	518	518	518	16500	16400	192	172	75-125	1	20	MH
Antimony	mg/kg	ND	51.8	51.8	51.8	20.8	20.7	40	40	75-125	0	20	ML
Arsenic	mg/kg	37.1	51.8	51.8	51.8	79.2	72.6	81	69	75-125	9	20	ML
Barium	mg/kg	164	51.8	51.8	51.8	221	207	110	83	75-125	7	20	
Beryllium	mg/kg	0.72	51.8	51.8	51.8	46.0	45.6	88	87	75-125	1	20	
Boron	mg/kg	ND	51.8	51.8	51.8	43.3	42.7	75	73	75-125	2	20	ML
Cadmium	mg/kg	ND	51.8	51.8	51.8	45.3	44.7	87	86	75-125	2	20	
Calcium	mg/kg	869	518	518	518	1630	1150	147	54	75-125	35	20	MH, ML, R1
Chromium	mg/kg	24.7	51.8	51.8	51.8	68.9	69.6	85	87	75-125	1	20	
Cobalt	mg/kg	13.0	51.8	51.8	51.8	60.0	56.5	91	84	75-125	6	20	
Copper	mg/kg	41.9	51.8	51.8	51.8	95.2	86.8	103	87	75-125	9	20	
Iron	mg/kg	53300	518	518	518	45600	47800	-1490	-1060	75-125	5	20	ML
Lead	mg/kg	19.4	51.8	51.8	51.8	72.3	65.6	102	89	75-125	10	20	
Magnesium	mg/kg	6580	518	518	518	7110	6600	102	3	75-125	7	20	ML
Manganese	mg/kg	437	51.8	51.8	51.8	731	446	569	18	75-125	48	20	MH, ML, R1
Molybdenum	mg/kg	ND	51.8	51.8	51.8	49.3	48.4	94	92	75-125	2	20	
Nickel	mg/kg	27.5	51.8	51.8	51.8	70.3	67.4	83	77	75-125	4	20	
Potassium	mg/kg	2150	518	518	518	2930	2760	150	119	75-125	6	20	MH
Selenium	mg/kg	ND	51.8	51.8	51.8	42.5	41.6	81	80	75-125	2	20	
Silver	mg/kg	ND	25.8	25.8	25.8	22.4	22.5	86	87	75-125	1	20	
Sodium	mg/kg	ND	518	518	518	694	674	87	83	75-125	3	20	
Thallium	mg/kg	ND	51.8	51.8	51.8	42.8	41.8	83	81	75-125	2	20	
Vanadium	mg/kg	25.7	51.8	51.8	51.8	71.1	71.4	88	88	75-125	1	20	
Zinc	mg/kg	51.6	51.8	51.8	51.8	104	92.2	102	78	75-125	12	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 354893 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010C MET
Associated Lab Samples: 30317042002, 30317042007

METHOD BLANK: 1723978 Matrix: Water
Associated Lab Samples: 30317042002, 30317042007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	50.0	20.3	08/06/19 10:23	
Antimony	ug/L	ND	6.0	3.3	08/06/19 12:13	
Arsenic	ug/L	ND	5.0	2.0	08/06/19 10:23	
Barium	ug/L	ND	10.0	0.68	08/06/19 10:23	
Beryllium	ug/L	ND	1.0	0.17	08/06/19 10:23	
Boron	ug/L	ND	50.0	2.3	08/06/19 10:23	
Cadmium	ug/L	ND	3.0	0.34	08/06/19 10:23	
Calcium	ug/L	ND	1000	99.9	08/06/19 10:23	
Chromium	ug/L	ND	5.0	0.35	08/06/19 10:23	
Cobalt	ug/L	ND	5.0	0.53	08/06/19 10:23	
Copper	ug/L	ND	5.0	2.7	08/06/19 10:23	
Iron	ug/L	ND	70.0	40.9	08/06/19 10:23	
Lead	ug/L	ND	5.0	4.9	08/06/19 10:23	
Magnesium	ug/L	ND	200	28.4	08/06/19 10:23	
Manganese	ug/L	ND	5.0	1.2	08/06/19 10:23	
Molybdenum	ug/L	ND	20.0	0.85	08/06/19 10:23	
Nickel	ug/L	ND	10.0	1.5	08/06/19 10:23	
Potassium	ug/L	ND	500	72.4	08/06/19 10:23	
Selenium	ug/L	ND	8.0	5.5	08/06/19 10:23	
Silver	ug/L	ND	6.0	1.4	08/06/19 10:23	
Sodium	ug/L	ND	1000	423	08/06/19 10:23	
Thallium	ug/L	ND	10.0	4.0	08/06/19 10:23	
Vanadium	ug/L	ND	5.0	0.57	08/06/19 10:23	
Zinc	ug/L	ND	10.0	2.4	08/06/19 10:23	

LABORATORY CONTROL SAMPLE: 1723979

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	5010	100	80-120	
Antimony	ug/L	500	449	90	80-120	
Arsenic	ug/L	500	487	97	80-120	
Barium	ug/L	500	503	101	80-120	
Beryllium	ug/L	500	502	100	80-120	
Boron	ug/L	500	500	100	80-120	
Cadmium	ug/L	500	510	102	80-120	
Calcium	ug/L	5000	5040	101	80-120	
Chromium	ug/L	500	509	102	80-120	
Cobalt	ug/L	500	490	98	80-120	
Copper	ug/L	500	498	100	80-120	
Iron	ug/L	5000	5050	101	80-120	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

LABORATORY CONTROL SAMPLE: 1723979

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	515	103	80-120	
Magnesium	ug/L	5000	4930	99	80-120	
Manganese	ug/L	500	497	99	80-120	
Molybdenum	ug/L	500	505	101	80-120	
Nickel	ug/L	500	510	102	80-120	
Potassium	ug/L	5000	4960	99	80-120	
Selenium	ug/L	500	504	101	80-120	
Silver	ug/L	250	255	102	80-120	
Sodium	ug/L	5000	5120	102	80-120	
Thallium	ug/L	500	488	98	80-120	
Vanadium	ug/L	500	503	101	80-120	
Zinc	ug/L	500	511	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1723981 1723982

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30317042002 Result	Spike Conc.	Spike Conc.	MS Result								
Aluminum	ug/L	2470	5000	5000	8090	8200	112	115	75-125	1	20		
Antimony	ug/L	ND	500	500	477	486	95	97	75-125	2	20		
Arsenic	ug/L	ND	500	500	504	491	100	97	75-125	3	20		
Barium	ug/L	81.3	500	500	602	597	104	103	75-125	1	20		
Beryllium	ug/L	ND	500	500	514	506	103	101	75-125	1	20		
Boron	ug/L	58.8	500	500	579	573	104	103	75-125	1	20		
Cadmium	ug/L	ND	500	500	519	508	104	101	75-125	2	20		
Calcium	ug/L	62300	5000	5000	73200	73900	218	233	75-125	1	20	MH	
Chromium	ug/L	ND	500	500	504	501	100	100	75-125	1	20		
Cobalt	ug/L	ND	500	500	496	487	99	97	75-125	2	20		
Copper	ug/L	7.3	500	500	519	511	102	101	75-125	1	20		
Iron	ug/L	3530	5000	5000	8940	9100	108	112	75-125	2	20		
Lead	ug/L	ND	500	500	519	511	104	102	75-125	1	20		
Magnesium	ug/L	15200	5000	5000	21700	21800	129	131	75-125	1	20	MH	
Manganese	ug/L	108	500	500	617	609	102	100	75-125	1	20		
Molybdenum	ug/L	ND	500	500	515	512	103	102	75-125	1	20		
Nickel	ug/L	ND	500	500	510	498	101	99	75-125	3	20		
Potassium	ug/L	2720	5000	5000	8180	8340	109	112	75-125	2	20		
Selenium	ug/L	ND	500	500	519	503	104	101	75-125	3	20		
Silver	ug/L	ND	250	250	255	257	102	103	75-125	1	20		
Sodium	ug/L	17300	5000	5000	23600	24100	126	136	75-125	2	20	MH	
Thallium	ug/L	ND	500	500	493	487	98	97	75-125	1	20		
Vanadium	ug/L	ND	500	500	508	506	101	101	75-125	0	20		
Zinc	ug/L	15.3	500	500	513	503	100	98	75-125	2	20		

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

SAMPLE DUPLICATE: 1723980

Parameter	Units	30317042002 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	2470	2790	12	20	
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	ND		20	
Barium	ug/L	81.3	90.7	11	20	
Beryllium	ug/L	ND	.2J		20	
Boron	ug/L	58.8	60.2	2	20	
Cadmium	ug/L	ND	.39J		20	
Calcium	ug/L	62300	69100	10	20	
Chromium	ug/L	ND	2.1J		20	
Cobalt	ug/L	ND	3J		20	
Copper	ug/L	7.3	9.4	24	20	D6
Iron	ug/L	3530	3940	11	20	
Lead	ug/L	ND	ND		20	
Magnesium	ug/L	15200	17000	11	20	
Manganese	ug/L	108	119	10	20	
Molybdenum	ug/L	ND	ND		20	
Nickel	ug/L	ND	4.2J		20	
Potassium	ug/L	2720	3050	11	20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Sodium	ug/L	17300	18900	9	20	
Thallium	ug/L	ND	ND		20	
Vanadium	ug/L	ND	2.1J		20	
Zinc	ug/L	15.3	15.6	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 355170 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010C MET Dissolved
Associated Lab Samples: 30317042002, 30317042007

METHOD BLANK: 1725282 Matrix: Water
Associated Lab Samples: 30317042002, 30317042007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	20.3	08/07/19 08:51	
Antimony, Dissolved	ug/L	ND	6.0	3.3	08/07/19 08:51	
Arsenic, Dissolved	ug/L	ND	5.0	2.0	08/07/19 08:51	
Barium, Dissolved	ug/L	ND	10.0	0.68	08/07/19 08:51	
Beryllium, Dissolved	ug/L	ND	1.0	0.17	08/07/19 08:51	
Boron, Dissolved	ug/L	ND	50.0	2.3	08/07/19 08:51	
Cadmium, Dissolved	ug/L	ND	3.0	0.34	08/07/19 08:51	
Calcium, Dissolved	ug/L	ND	1000	99.9	08/07/19 08:51	
Chromium, Dissolved	ug/L	ND	5.0	0.35	08/07/19 08:51	
Cobalt, Dissolved	ug/L	ND	5.0	0.53	08/07/19 08:51	
Copper, Dissolved	ug/L	ND	5.0	2.7	08/07/19 08:51	
Iron, Dissolved	ug/L	ND	70.0	40.9	08/07/19 08:51	
Lead, Dissolved	ug/L	ND	5.0	4.9	08/07/19 08:51	
Magnesium, Dissolved	ug/L	ND	200	28.4	08/07/19 08:51	
Manganese, Dissolved	ug/L	ND	5.0	1.2	08/07/19 08:51	
Molybdenum, Dissolved	ug/L	ND	20.0	0.85	08/07/19 08:51	
Nickel, Dissolved	ug/L	ND	10.0	1.5	08/07/19 08:51	
Potassium, Dissolved	ug/L	ND	500	72.4	08/07/19 08:51	
Selenium, Dissolved	ug/L	ND	8.0	5.5	08/07/19 08:51	
Silver, Dissolved	ug/L	ND	6.0	1.4	08/07/19 08:51	
Sodium, Dissolved	ug/L	ND	1000	423	08/07/19 08:51	
Thallium, Dissolved	ug/L	ND	10.0	4.0	08/07/19 08:51	
Vanadium, Dissolved	ug/L	ND	5.0	0.57	08/07/19 08:51	
Zinc, Dissolved	ug/L	ND	10.0	2.4	08/07/19 08:51	

LABORATORY CONTROL SAMPLE: 1725283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	5080	102	80-120	
Antimony, Dissolved	ug/L	500	480	96	80-120	
Arsenic, Dissolved	ug/L	500	470	94	80-120	
Barium, Dissolved	ug/L	500	501	100	80-120	
Beryllium, Dissolved	ug/L	500	498	100	80-120	
Boron, Dissolved	ug/L	500	474	95	80-120	
Cadmium, Dissolved	ug/L	500	491	98	80-120	
Calcium, Dissolved	ug/L	5000	5110	102	80-120	
Chromium, Dissolved	ug/L	500	494	99	80-120	
Cobalt, Dissolved	ug/L	500	479	96	80-120	
Copper, Dissolved	ug/L	500	495	99	80-120	
Iron, Dissolved	ug/L	5000	5110	102	80-120	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

LABORATORY CONTROL SAMPLE: 1725283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	496	99	80-120	
Magnesium, Dissolved	ug/L	5000	5040	101	80-120	
Manganese, Dissolved	ug/L	500	497	99	80-120	
Molybdenum, Dissolved	ug/L	500	485	97	80-120	
Nickel, Dissolved	ug/L	500	486	97	80-120	
Potassium, Dissolved	ug/L	5000	4990	100	80-120	
Selenium, Dissolved	ug/L	500	488	98	80-120	
Silver, Dissolved	ug/L	250	243	97	80-120	
Sodium, Dissolved	ug/L	5000	5080	102	80-120	
Thallium, Dissolved	ug/L	500	463	93	80-120	
Vanadium, Dissolved	ug/L	500	484	97	80-120	
Zinc, Dissolved	ug/L	500	497	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725285 1725286

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30317042002 Result	Spike Conc.	Spike Conc.	MS Result								
Aluminum, Dissolved	ug/L	90.4	5000	5000	5440	4990	107	98	75-125	9	20		
Antimony, Dissolved	ug/L	ND	500	500	499	475	100	95	75-125	5	20		
Arsenic, Dissolved	ug/L	ND	500	500	513	467	102	93	75-125	9	20		
Barium, Dissolved	ug/L	73.5	500	500	601	549	105	95	75-125	9	20		
Beryllium, Dissolved	ug/L	ND	500	500	535	486	107	97	75-125	9	20		
Boron, Dissolved	ug/L	65.8	500	500	559	532	99	93	75-125	5	20		
Cadmium, Dissolved	ug/L	ND	500	500	530	483	106	96	75-125	9	20		
Calcium, Dissolved	ug/L	75000	5000	5000	76800	71000	36	-80	75-125	8	20	ML	
Chromium, Dissolved	ug/L	ND	500	500	523	474	104	95	75-125	10	20		
Cobalt, Dissolved	ug/L	ND	500	500	512	464	102	93	75-125	10	20		
Copper, Dissolved	ug/L	ND	500	500	527	481	105	96	75-125	9	20		
Iron, Dissolved	ug/L	ND	5000	5000	5370	4930	107	98	75-125	9	20		
Lead, Dissolved	ug/L	ND	500	500	530	479	106	96	75-125	10	20		
Magnesium, Dissolved	ug/L	18400	5000	5000	22800	21100	89	54	75-125	8	20	ML	
Manganese, Dissolved	ug/L	10.6	500	500	531	482	104	94	75-125	10	20		
Molybdenum, Dissolved	ug/L	ND	500	500	511	485	102	97	75-125	5	20		
Nickel, Dissolved	ug/L	ND	500	500	513	464	102	93	75-125	10	20		
Potassium, Dissolved	ug/L	3060	5000	5000	8270	7580	104	90	75-125	9	20		
Selenium, Dissolved	ug/L	ND	500	500	527	479	105	96	75-125	10	20		
Silver, Dissolved	ug/L	ND	250	250	250	238	100	95	75-125	5	20		
Sodium, Dissolved	ug/L	20300	5000	5000	24900	22800	92	50	75-125	9	20	ML	
Thallium, Dissolved	ug/L	ND	500	500	504	457	101	91	75-125	10	20		
Vanadium, Dissolved	ug/L	ND	500	500	519	472	104	94	75-125	9	20		
Zinc, Dissolved	ug/L	ND	500	500	524	474	104	94	75-125	10	20		

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

SAMPLE DUPLICATE: 1725284

Parameter	Units	30317042002 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	90.4	87.5	3	20	
Antimony, Dissolved	ug/L	ND	ND		20	
Arsenic, Dissolved	ug/L	ND	ND		20	
Barium, Dissolved	ug/L	73.5	70.4	4	20	
Beryllium, Dissolved	ug/L	ND	ND		20	
Boron, Dissolved	ug/L	65.8	64.4	2	20	
Cadmium, Dissolved	ug/L	ND	ND		20	
Calcium, Dissolved	ug/L	75000	72000	4	20	
Chromium, Dissolved	ug/L	ND	ND		20	
Cobalt, Dissolved	ug/L	ND	ND		20	
Copper, Dissolved	ug/L	ND	ND		20	
Iron, Dissolved	ug/L	ND	ND		20	
Lead, Dissolved	ug/L	ND	ND		20	
Magnesium, Dissolved	ug/L	18400	17800	3	20	
Manganese, Dissolved	ug/L	10.6	ND		20	
Molybdenum, Dissolved	ug/L	ND	ND		20	
Nickel, Dissolved	ug/L	ND	ND		20	
Potassium, Dissolved	ug/L	3060	2910	5	20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	ND		20	
Sodium, Dissolved	ug/L	20300	19400	4	20	
Thallium, Dissolved	ug/L	ND	ND		20	
Vanadium, Dissolved	ug/L	ND	ND		20	
Zinc, Dissolved	ug/L	ND	5.9J		20	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 355562 Analysis Method: EPA 8260C
QC Batch Method: EPA 5035A Analysis Description: 8260C MSV 5035 Low
Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

METHOD BLANK: 1726931 Matrix: Solid
Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	1.5	08/07/19 11:04	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	0.59	08/07/19 11:04	
1,1,2-Trichloroethane	ug/kg	ND	5.0	0.99	08/07/19 11:04	
1,1-Dichloroethane	ug/kg	ND	5.0	1.3	08/07/19 11:04	
1,1-Dichloroethene	ug/kg	ND	5.0	1.9	08/07/19 11:04	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	1.3	08/07/19 11:04	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	2.4	08/07/19 11:04	
1,2-Dichlorobenzene	ug/kg	ND	5.0	0.59	08/07/19 11:04	
1,2-Dichloroethane	ug/kg	ND	5.0	1.3	08/07/19 11:04	
1,2-Dichloroethene (Total)	ug/kg	ND	10.0	2.4	08/07/19 11:04	
1,2-Dichloropropane	ug/kg	ND	5.0	0.72	08/07/19 11:04	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	2.0	08/07/19 11:04	
1,3-Dichlorobenzene	ug/kg	ND	5.0	0.65	08/07/19 11:04	
1,4-Dichlorobenzene	ug/kg	ND	5.0	0.71	08/07/19 11:04	
2-Butanone (MEK)	ug/kg	ND	10.0	0.91	08/07/19 11:04	3c
2-Hexanone	ug/kg	ND	10.0	0.98	08/07/19 11:04	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	1.1	08/07/19 11:04	
Acetone	ug/kg	ND	10.0	3.2	08/07/19 11:04	3c
Benzene	ug/kg	ND	5.0	0.87	08/07/19 11:04	
Bromochloromethane	ug/kg	ND	5.0	1.1	08/07/19 11:04	
Bromodichloromethane	ug/kg	ND	5.0	1.1	08/07/19 11:04	
Bromoform	ug/kg	ND	5.0	0.66	08/07/19 11:04	
Bromomethane	ug/kg	ND	5.0	1.9	08/07/19 11:04	CL
Carbon disulfide	ug/kg	ND	5.0	1.4	08/07/19 11:04	
Carbon tetrachloride	ug/kg	ND	5.0	1.7	08/07/19 11:04	CL
Chlorobenzene	ug/kg	ND	5.0	0.78	08/07/19 11:04	
Chloroethane	ug/kg	ND	5.0	2.1	08/07/19 11:04	
Chloroform	ug/kg	ND	5.0	1.5	08/07/19 11:04	
Chloromethane	ug/kg	ND	5.0	1.7	08/07/19 11:04	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	1.2	08/07/19 11:04	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	0.50	08/07/19 11:04	
Dibromochloromethane	ug/kg	ND	5.0	0.79	08/07/19 11:04	
Ethylbenzene	ug/kg	ND	5.0	1.1	08/07/19 11:04	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	1.2	08/07/19 11:04	
m&p-Xylene	ug/kg	ND	10.0	2.1	08/07/19 11:04	
Methyl-tert-butyl ether	ug/kg	ND	5.0	0.67	08/07/19 11:04	
Methylene Chloride	ug/kg	ND	5.0	4.2	08/07/19 11:04	
Naphthalene	ug/kg	ND	5.0	0.94	08/07/19 11:04	
o-Xylene	ug/kg	ND	5.0	1.1	08/07/19 11:04	
Styrene	ug/kg	ND	5.0	1.4	08/07/19 11:04	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

METHOD BLANK: 1726931

Matrix: Solid

Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Tetrachloroethane	ug/kg	ND	5.0	1.7	08/07/19 11:04	
Toluene	ug/kg	ND	5.0	0.99	08/07/19 11:04	
TOTAL BTEX	ug/kg	ND	30.0	6.1	08/07/19 11:04	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	1.3	08/07/19 11:04	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	1.0	08/07/19 11:04	
Trichloroethene	ug/kg	ND	5.0	1.5	08/07/19 11:04	
Vinyl chloride	ug/kg	ND	5.0	2.2	08/07/19 11:04	
Xylene (Total)	ug/kg	ND	15.0	3.2	08/07/19 11:04	
1,2-Dichloroethane-d4 (S)	%	113	70-130		08/07/19 11:04	
4-Bromofluorobenzene (S)	%	97	70-130		08/07/19 11:04	
Dibromofluoromethane (S)	%	96	70-130		08/07/19 11:04	
Toluene-d8 (S)	%	98	70-130		08/07/19 11:04	

LABORATORY CONTROL SAMPLE: 1726932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	18.8	94	62-113	
1,1,2,2-Tetrachloroethane	ug/kg	20	20.3	101	70-130	
1,1,2-Trichloroethane	ug/kg	20	19.6	98	70-130	
1,1-Dichloroethane	ug/kg	20	18.9	94	63-110	
1,1-Dichloroethene	ug/kg	20	18.3	92	45-124	
1,2,4-Trichlorobenzene	ug/kg	20	19.1	95	70-130	
1,2,4-Trimethylbenzene	ug/kg	20	21.1	105	70-130	
1,2-Dichlorobenzene	ug/kg	20	21.1	106	70-130	
1,2-Dichloroethane	ug/kg	20	18.5	93	57-110	
1,2-Dichloroethene (Total)	ug/kg	40	35.6	89	62-108	
1,2-Dichloropropane	ug/kg	20	17.3	87	62-111	
1,3,5-Trimethylbenzene	ug/kg	20	21.1	105	70-130	
1,3-Dichlorobenzene	ug/kg	20	21.1	105	70-130	
1,4-Dichlorobenzene	ug/kg	20	21.0	105	70-130	
2-Butanone (MEK)	ug/kg	20	20.7	104	46-117	3c
2-Hexanone	ug/kg	20	19.8	99	58-115	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	20.0	100	40-136	
Acetone	ug/kg	20	21.1	106	36-163	3c
Benzene	ug/kg	20	21.4	107	63-110	
Bromochloromethane	ug/kg	20	20.0	100	67-114	
Bromodichloromethane	ug/kg	20	18.6	93	68-119	
Bromoform	ug/kg	20	19.3	96	63-107	
Bromomethane	ug/kg	20	15.3	76	12-166	CL
Carbon disulfide	ug/kg	20	20.8	104	52-106	
Carbon tetrachloride	ug/kg	20	19.3	97	59-114	CL
Chlorobenzene	ug/kg	20	20.3	102	70-130	
Chloroethane	ug/kg	20	21.1	106	56-160	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

LABORATORY CONTROL SAMPLE: 1726932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/kg	20	19.2	96	65-108	
Chloromethane	ug/kg	20	29.4	147	33-148	
cis-1,2-Dichloroethene	ug/kg	20	17.3	87	61-107	
cis-1,3-Dichloropropene	ug/kg	20	17.8	89	62-106	
Dibromochloromethane	ug/kg	20	19.4	97	67-108	
Ethylbenzene	ug/kg	20	20.3	101	68-109	
Isopropylbenzene (Cumene)	ug/kg	20	20.9	105	70-130	
m&p-Xylene	ug/kg	40	41.7	104	70-130	
Methyl-tert-butyl ether	ug/kg	20	19.3	97	62-101	
Methylene Chloride	ug/kg	20	19.6	98	42-135	
Naphthalene	ug/kg	20	19.5	98	70-130	
o-Xylene	ug/kg	20	20.7	104	70-130	
Styrene	ug/kg	20	20.3	101	70-130	
Tetrachloroethene	ug/kg	20	21.2	106	64-114	
Toluene	ug/kg	20	18.0	90	68-108	
TOTAL BTEX	ug/kg	120	122	102	70-130	
trans-1,2-Dichloroethene	ug/kg	20	18.3	91	61-108	
trans-1,3-Dichloropropene	ug/kg	20	19.9	99	64-102	
Trichloroethene	ug/kg	20	19.5	98	61-112	
Vinyl chloride	ug/kg	20	23.8	119	54-142	
Xylene (Total)	ug/kg	60	62.4	104	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			85	70-130	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 355751 Analysis Method: EPA 8260C
QC Batch Method: EPA 5035A Analysis Description: 8260C MSV 5035 Low
Associated Lab Samples: 30317042014

METHOD BLANK: 1727962 Matrix: Solid
Associated Lab Samples: 30317042014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	ND	250	122	08/08/19 10:03	
1,2-Dichloroethane-d4 (S)	%.	115	70-130		08/08/19 10:03	
4-Bromofluorobenzene (S)	%.	101	70-130		08/08/19 10:03	
Dibromofluoromethane (S)	%.	100	70-130		08/08/19 10:03	
Toluene-d8 (S)	%.	98	70-130		08/08/19 10:03	

LABORATORY CONTROL SAMPLE: 1727963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	20	16.2	81	70-130	
1,2-Dichloroethane-d4 (S)	%.			115	70-130	
4-Bromofluorobenzene (S)	%.			98	70-130	
Dibromofluoromethane (S)	%.			104	70-130	
Toluene-d8 (S)	%.			98	70-130	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 355058 Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C Analysis Description: 8260C MSV
Associated Lab Samples: 30317042002, 30317042007, 30317042009

METHOD BLANK: 1724991 Matrix: Water
Associated Lab Samples: 30317042002, 30317042007, 30317042009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.38	08/05/19 11:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.47	08/05/19 11:09	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.33	08/05/19 11:09	
1,1-Dichloroethane	ug/L	ND	1.0	0.24	08/05/19 11:09	
1,1-Dichloroethene	ug/L	ND	1.0	0.24	08/05/19 11:09	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.73	08/05/19 11:09	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.63	08/05/19 11:09	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.38	08/05/19 11:09	
1,2-Dichloroethane	ug/L	ND	1.0	0.33	08/05/19 11:09	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	0.66	08/05/19 11:09	
1,2-Dichloropropane	ug/L	ND	1.0	0.28	08/05/19 11:09	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.45	08/05/19 11:09	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.45	08/05/19 11:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.48	08/05/19 11:09	
2-Butanone (MEK)	ug/L	ND	10.0	1.5	08/05/19 11:09	
2-Hexanone	ug/L	ND	10.0	0.58	08/05/19 11:09	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	08/05/19 11:09	
Acetone	ug/L	ND	10.0	5.6	08/05/19 11:09	CL
Benzene	ug/L	ND	1.0	0.34	08/05/19 11:09	
Bromochloromethane	ug/L	ND	1.0	0.48	08/05/19 11:09	
Bromodichloromethane	ug/L	ND	1.0	0.35	08/05/19 11:09	
Bromoform	ug/L	ND	1.0	0.56	08/05/19 11:09	
Bromomethane	ug/L	ND	1.0	0.73	08/05/19 11:09	7c,CL
Carbon disulfide	ug/L	ND	1.0	0.32	08/05/19 11:09	
Carbon tetrachloride	ug/L	ND	1.0	0.44	08/05/19 11:09	
Chlorobenzene	ug/L	ND	1.0	0.26	08/05/19 11:09	
Chloroethane	ug/L	ND	1.0	0.64	08/05/19 11:09	CH
Chloroform	ug/L	ND	1.0	0.39	08/05/19 11:09	
Chloromethane	ug/L	ND	1.0	0.40	08/05/19 11:09	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.38	08/05/19 11:09	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.29	08/05/19 11:09	
Dibromochloromethane	ug/L	ND	1.0	0.43	08/05/19 11:09	
Ethylbenzene	ug/L	ND	1.0	0.40	08/05/19 11:09	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	0.47	08/05/19 11:09	
m&p-Xylene	ug/L	ND	2.0	0.94	08/05/19 11:09	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.25	08/05/19 11:09	
Methylene Chloride	ug/L	ND	1.0	0.64	08/05/19 11:09	
Naphthalene	ug/L	ND	2.0	0.82	08/05/19 11:09	
o-Xylene	ug/L	ND	1.0	0.41	08/05/19 11:09	
Styrene	ug/L	ND	1.0	0.33	08/05/19 11:09	
Tetrachloroethene	ug/L	ND	1.0	0.39	08/05/19 11:09	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

METHOD BLANK: 1724991 Matrix: Water
Associated Lab Samples: 30317042002, 30317042007, 30317042009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	0.32	08/05/19 11:09	
TOTAL BTEX	ug/L	ND	6.0	2.4	08/05/19 11:09	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.28	08/05/19 11:09	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.32	08/05/19 11:09	
Trichloroethene	ug/L	ND	1.0	0.29	08/05/19 11:09	
Vinyl chloride	ug/L	ND	1.0	0.29	08/05/19 11:09	
Xylene (Total)	ug/L	ND	3.0	1.4	08/05/19 11:09	
1,2-Dichloroethane-d4 (S)	%	95	80-120		08/05/19 11:09	
4-Bromofluorobenzene (S)	%	100	78-122		08/05/19 11:09	
Dibromofluoromethane (S)	%	101	80-120		08/05/19 11:09	
Toluene-d8 (S)	%	92	80-120		08/05/19 11:09	

LABORATORY CONTROL SAMPLE: 1724992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.7	108	70-130	
1,1,2-Trichloroethane	ug/L	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	20	20.5	103	68-121	
1,1-Dichloroethene	ug/L	20	19.0	95	63-129	
1,2,4-Trichlorobenzene	ug/L	20	22.3	112	70-130	
1,2,4-Trimethylbenzene	ug/L	20	23.3	116	70-130	
1,2-Dichlorobenzene	ug/L	20	22.4	112	70-130	
1,2-Dichloroethane	ug/L	20	19.3	97	67-117	
1,2-Dichloroethene (Total)	ug/L	40	39.6	99	65-119	
1,2-Dichloropropane	ug/L	20	20.3	102	69-121	
1,3,5-Trimethylbenzene	ug/L	20	22.3	111	70-130	
1,3-Dichlorobenzene	ug/L	20	21.9	110	70-130	
1,4-Dichlorobenzene	ug/L	20	22.5	113	70-130	
2-Butanone (MEK)	ug/L	20	19.9	99	59-128	
2-Hexanone	ug/L	20	18.9	94	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.5	97	63-126	
Acetone	ug/L	20	17.2	86	37-150	CL
Benzene	ug/L	20	20.9	105	70-130	
Bromochloromethane	ug/L	20	21.1	106	59-137	
Bromodichloromethane	ug/L	20	19.9	99	70-130	
Bromoform	ug/L	20	17.4	87	65-130	
Bromomethane	ug/L	20	15.0	75	45-148	7c,CL
Carbon disulfide	ug/L	20	20.5	102	55-123	
Carbon tetrachloride	ug/L	20	19.9	99	69-126	
Chlorobenzene	ug/L	20	20.8	104	70-130	
Chloroethane	ug/L	20	25.5	127	68-146	CH
Chloroform	ug/L	20	20.0	100	69-116	
Chloromethane	ug/L	20	26.2	131	56-129	L1

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

LABORATORY CONTROL SAMPLE: 1724992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	19.6	98	66-118	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	70-130	
Dibromochloromethane	ug/L	20	18.7	94	70-130	
Ethylbenzene	ug/L	20	21.8	109	70-130	
Isopropylbenzene (Cumene)	ug/L	20	22.4	112	70-130	
m&p-Xylene	ug/L	40	42.7	107	70-130	
Methyl-tert-butyl ether	ug/L	20	20.1	100	70-130	
Methylene Chloride	ug/L	20	23.6	118	65-124	
Naphthalene	ug/L	20	23.2	116	69-135	
o-Xylene	ug/L	20	20.7	103	70-130	
Styrene	ug/L	20	20.3	102	70-130	
Tetrachloroethene	ug/L	20	20.2	101	70-130	
Toluene	ug/L	20	20.7	103	70-130	
TOTAL BTEX	ug/L	120	127	106	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	64-123	
trans-1,3-Dichloropropene	ug/L	20	18.7	94	68-119	
Trichloroethene	ug/L	20	20.5	103	70-130	
Vinyl chloride	ug/L	20	24.9	124	70-130	
Xylene (Total)	ug/L	60	63.4	106	70-130	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			100	78-122	
Dibromofluoromethane (S)	%			103	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725361 1725362

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30317042002 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	ND	20	20	20	19.0	18.8	95	94	67-127	1	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20	19.7	21.1	99	106	55-118	7	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20	20.1	20.0	100	100	60-117	0	30	
1,1-Dichloroethane	ug/L	ND	20	20	20	18.9	18.0	95	90	68-118	5	30	
1,1-Dichloroethene	ug/L	ND	20	20	20	18.6	17.5	93	88	62-126	6	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20	20.2	20.0	101	100	60-128	1	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20	22.7	22.3	114	112	70-130	2	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	20	22.0	22.1	110	111	66-116	0	30	
1,2-Dichloroethane	ug/L	ND	20	20	20	19.0	18.0	95	90	67-117	6	30	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	40	38.5	37.0	96	93	70-130	4	30	
1,2-Dichloropropane	ug/L	ND	20	20	20	20.3	18.3	102	92	61-128	10	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20	21.7	21.7	109	109	70-130	0	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	20	21.5	21.5	108	107	67-117	0	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	20	21.5	21.4	107	107	68-116	0	30	
2-Butanone (MEK)	ug/L	ND	20	20	20	18.0	17.5	90	88	63-175	3	30	
2-Hexanone	ug/L	ND	20	20	20	18.1	18.3	91	92	65-151	1	30	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

Parameter	Units	1725361		1725362		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30317042002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.8	18.2	89	91	66-149	2	30		
Acetone	ug/L	ND	20	20	22.5	35.5	97	162	10-175	45	30	CL,R1	
Benzene	ug/L	ND	20	20	20.7	20.0	103	100	67-119	3	30		
Bromochloromethane	ug/L	ND	20	20	20.3	19.8	101	99	64-124	2	30		
Bromodichloromethane	ug/L	ND	20	20	18.6	17.5	93	88	67-126	6	30		
Bromoform	ug/L	ND	20	20	15.1	15.5	75	77	43-114	2	30		
Bromomethane	ug/L	ND	20	20	12.2	15.3	61	77	10-164	23	30	7c,CL	
Carbon disulfide	ug/L	ND	20	20	17.6	16.2	87	80	37-135	8	30		
Carbon tetrachloride	ug/L	ND	20	20	19.7	18.3	99	92	60-137	8	30		
Chlorobenzene	ug/L	ND	20	20	20.6	19.9	103	99	68-119	4	30		
Chloroethane	ug/L	ND	20	20	26.7	26.1	134	130	54-169	2	30	CH	
Chloroform	ug/L	ND	20	20	19.2	18.3	96	91	69-113	5	30		
Chloromethane	ug/L	ND	20	20	24.9	24.7	125	124	43-159	1	30		
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.5	18.9	98	95	65-121	3	30		
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.2	17.9	96	90	61-120	7	30		
Dibromochloromethane	ug/L	ND	20	20	17.9	17.2	89	86	56-121	4	30		
Ethylbenzene	ug/L	ND	20	20	21.6	19.4	108	97	69-127	11	30		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	23.0	22.7	115	113	70-130	2	30		
m&p-Xylene	ug/L	ND	40	40	43.0	41.8	107	104	70-129	3	30		
Methyl-tert-butyl ether	ug/L	ND	20	20	18.4	16.9	92	84	70-130	8	30		
Methylene Chloride	ug/L	2.8	20	20	22.8	22.0	100	96	49-144	4	30		
Naphthalene	ug/L	ND	20	20	21.5	21.2	108	106	60-136	2	30		
o-Xylene	ug/L	ND	20	20	20.9	20.5	105	103	68-126	2	30		
Styrene	ug/L	ND	20	20	20.2	19.4	101	97	65-120	4	30		
Tetrachloroethene	ug/L	ND	20	20	19.8	18.9	99	95	64-123	5	30		
Toluene	ug/L	ND	20	20	20.9	19.7	104	98	70-130	6	30		
TOTAL BTEX	ug/L	ND	120	120	127	121	106	101	70-130	5	30		
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.9	18.1	95	91	66-119	4	30		
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.3	17.2	92	86	52-117	6	30		
Trichloroethene	ug/L	ND	20	20	20.2	19.5	101	98	63-125	4	30		
Vinyl chloride	ug/L	ND	20	20	24.2	23.6	121	118	60-133	3	30		
Xylene (Total)	ug/L	ND	60	60	63.9	62.3	106	104	69-128	3	30		
1,2-Dichloroethane-d4 (S)	%						98	94	80-120				
4-Bromofluorobenzene (S)	%						99	94	78-122				
Dibromofluoromethane (S)	%						101	94	80-120				
Toluene-d8 (S)	%						103	96	80-120				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 354928 Analysis Method: EPA 8081B
QC Batch Method: EPA 3546 Analysis Description: 8081 GCS Pesticides
Associated Lab Samples: 30317042001, 30317042004, 30317042013, 30317042014

METHOD BLANK: 1724101 Matrix: Solid
Associated Lab Samples: 30317042001, 30317042004, 30317042013, 30317042014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	ug/kg	ND	3.3	1.1	08/08/19 14:21	
4,4'-DDE	ug/kg	ND	3.3	0.59	08/08/19 14:21	
4,4'-DDT	ug/kg	ND	3.3	0.88	08/08/19 14:21	
Aldrin	ug/kg	ND	1.7	0.30	08/08/19 14:21	
alpha-BHC	ug/kg	ND	1.7	0.33	08/08/19 14:21	
alpha-Chlordane	ug/kg	ND	1.7	0.18	08/08/19 14:21	
beta-BHC	ug/kg	ND	1.7	1.2	08/08/19 14:21	
delta-BHC	ug/kg	ND	1.7	1.6	08/08/19 14:21	
Dieldrin	ug/kg	ND	3.3	0.35	08/08/19 14:21	
Endosulfan I	ug/kg	ND	1.7	0.21	08/08/19 14:21	
Endosulfan II	ug/kg	ND	3.3	0.48	08/08/19 14:21	
Endosulfan sulfate	ug/kg	ND	3.3	0.30	08/08/19 14:21	
Endrin	ug/kg	ND	3.3	0.53	08/08/19 14:21	
Endrin aldehyde	ug/kg	ND	3.3	0.79	08/08/19 14:21	
Endrin ketone	ug/kg	ND	3.3	0.31	08/08/19 14:21	
gamma-BHC (Lindane)	ug/kg	ND	1.7	0.44	08/08/19 14:21	
gamma-Chlordane	ug/kg	ND	1.7	0.43	08/08/19 14:21	
Heptachlor	ug/kg	ND	1.7	0.20	08/08/19 14:21	
Heptachlor epoxide	ug/kg	ND	1.7	0.47	08/08/19 14:21	
Methoxychlor	ug/kg	ND	16.7	1.6	08/08/19 14:21	
Toxaphene	ug/kg	ND	16.7	5.5	08/08/19 14:21	
Decachlorobiphenyl (S)	%	101	50-96		08/08/19 14:21	E,ST
Tetrachloro-m-xylene (S)	%	90	51-88		08/08/19 14:21	ST

LABORATORY CONTROL SAMPLE: 1724102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/kg	26.3	19.0	72	57-112	
4,4'-DDE	ug/kg	26.3	26.5	101	68-105	
4,4'-DDT	ug/kg	26.3	26.3	100	63-109	
Aldrin	ug/kg	13.1	11.9	90	59-100	
alpha-BHC	ug/kg	13.1	12.5	95	61-98	
alpha-Chlordane	ug/kg	13.1	13.0	99	63-102	
beta-BHC	ug/kg	13.1	12.9	98	58-102	
delta-BHC	ug/kg	13.1	13.3	102	53-116	
Dieldrin	ug/kg	26.3	25.1	96	63-107	
Endosulfan I	ug/kg	13.1	11.4	87	57-100	
Endosulfan II	ug/kg	26.3	23.5	89	63-103	
Endosulfan sulfate	ug/kg	26.3	27.6	105	59-113	
Endrin	ug/kg	26.3	24.7	94	60-107	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

LABORATORY CONTROL SAMPLE: 1724102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin aldehyde	ug/kg	26.3	21.2	80	51-115	
Endrin ketone	ug/kg	26.3	32.3	123	59-119	L1
gamma-BHC (Lindane)	ug/kg	13.1	12.8	97	61-100	
gamma-Chlordane	ug/kg	13.1	12.7	97	62-101	
Heptachlor	ug/kg	13.1	12.3	94	63-99	
Heptachlor epoxide	ug/kg	13.1	12.3	94	62-99	
Methoxychlor	ug/kg	131	131	100	56-114	
Decachlorobiphenyl (S)	%			102	50-96	E,ST
Tetrachloro-m-xylene (S)	%			90	51-88	ST

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1724103 1724104

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30317042001 Result	Spike Conc.	Spike Conc.	MS Result						
4,4'-DDD	ug/kg	ND	29.3	29	16.5	17.8	56	61	38-111	8	25
4,4'-DDE	ug/kg	ND	29.3	29	28.9	28.5	98	98	24-129	1	25
4,4'-DDT	ug/kg	ND	29.3	29	30.1	30.7	101	104	13-138	2	25
Aldrin	ug/kg	ND	14.6	14.4	13.4	13.6	90	92	23-121	1	25
alpha-BHC	ug/kg	ND	14.6	14.4	14.4	15.1	94	100	41-105	5	25
alpha-Chlordane	ug/kg	ND	14.6	14.4	14.0	14.1	95	97	26-117	1	25
beta-BHC	ug/kg	ND	14.6	14.4	13.7	14.2	89	94	21-112	4	25
delta-BHC	ug/kg	ND	14.6	14.4	14.8	15.0	99	102	21-131	1	25
Dieldrin	ug/kg	ND	29.3	29	27.6	27.1	94	94	40-108	2	25
Endosulfan I	ug/kg	ND	14.6	14.4	12.1	12.4	82	86	12-122	2	25
Endosulfan II	ug/kg	ND	29.3	29	25.6	26.7	84	89	36-109	4	25
Endosulfan sulfate	ug/kg	ND	29.3	29	31.4	31.8	104	107	33-118	1	25
Endrin	ug/kg	ND	29.3	29	27.8	27.5	93	93	47-103	1	25
Endrin aldehyde	ug/kg	ND	29.3	29	21.0	25.4	71	87	10-149	19	25
Endrin ketone	ug/kg	ND	29.3	29	35.2	35.0	112	113	10-158	1	25
gamma-BHC (Lindane)	ug/kg	ND	14.6	14.4	14.3	15.0	97	102	43-104	4	25
gamma-Chlordane	ug/kg	ND	14.6	14.4	14.2	14.3	95	97	10-132	1	25
Heptachlor	ug/kg	ND	14.6	14.4	13.3	13.8	89	94	29-118	4	25
Heptachlor epoxide	ug/kg	ND	14.6	14.4	13.0	13.0	88	89	12-131	0	25
Methoxychlor	ug/kg	ND	146	144	148	148	98	99	10-140	0	25
Decachlorobiphenyl (S)	%						101	101	50-96		E,ST
Tetrachloro-m-xylene (S)	%						78	88	51-88		

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 354923 Analysis Method: EPA 8081B
QC Batch Method: EPA 3510C Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 30317042002, 30317042007

METHOD BLANK: 1724087 Matrix: Water
Associated Lab Samples: 30317042002, 30317042007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.050	0.0037	08/07/19 19:10	
4,4'-DDE	ug/L	ND	0.050	0.0033	08/07/19 19:10	
4,4'-DDT	ug/L	ND	0.050	0.0028	08/07/19 19:10	
Aldrin	ug/L	ND	0.025	0.0022	08/07/19 19:10	
alpha-BHC	ug/L	ND	0.025	0.0033	08/07/19 19:10	CH
alpha-Chlordane	ug/L	ND	0.025	0.0017	08/07/19 19:10	
beta-BHC	ug/L	ND	0.025	0.0083	08/07/19 19:10	CH
delta-BHC	ug/L	ND	0.025	0.0066	08/07/19 19:10	
Dieldrin	ug/L	ND	0.050	0.0018	08/07/19 19:10	
Endosulfan I	ug/L	ND	0.025	0.0015	08/07/19 19:10	
Endosulfan II	ug/L	ND	0.050	0.0021	08/07/19 19:10	
Endosulfan sulfate	ug/L	ND	0.050	0.0024	08/07/19 19:10	
Endrin	ug/L	ND	0.050	0.0049	08/07/19 19:10	
Endrin aldehyde	ug/L	ND	0.050	0.0033	08/07/19 19:10	
Endrin ketone	ug/L	ND	0.050	0.0019	08/07/19 19:10	CH
gamma-BHC (Lindane)	ug/L	ND	0.025	0.0024	08/07/19 19:10	CH
gamma-Chlordane	ug/L	ND	0.025	0.0053	08/07/19 19:10	
Heptachlor	ug/L	ND	0.025	0.0021	08/07/19 19:10	
Heptachlor epoxide	ug/L	ND	0.025	0.0015	08/07/19 19:10	
Methoxychlor	ug/L	ND	0.25	0.014	08/07/19 19:10	
Toxaphene	ug/L	ND	0.50	0.17	08/07/19 19:10	
Decachlorobiphenyl (S)	%	50	24-108		08/07/19 19:10	
Tetrachloro-m-xylene (S)	%	81	44-93		08/07/19 19:10	CH

LABORATORY CONTROL SAMPLE: 1724088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	0.4	0.36	89	61-107	
4,4'-DDE	ug/L	0.4	0.34	85	64-104	
4,4'-DDT	ug/L	0.4	0.32	79	54-112	
Aldrin	ug/L	0.2	0.15	75	50-98	
alpha-BHC	ug/L	0.2	0.17	87	54-107	CH
alpha-Chlordane	ug/L	0.2	0.17	85	57-104	
beta-BHC	ug/L	0.2	0.20	98	54-106	CH
delta-BHC	ug/L	0.2	0.18	92	51-116	
Dieldrin	ug/L	0.4	0.34	85	57-111	
Endosulfan I	ug/L	0.2	0.15	77	57-98	
Endosulfan II	ug/L	0.4	0.31	78	61-105	
Endosulfan sulfate	ug/L	0.4	0.38	94	59-112	
Endrin	ug/L	0.4	0.31	77	60-103	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

LABORATORY CONTROL SAMPLE: 1724088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin aldehyde	ug/L	0.4	0.31	79	49-119	
Endrin ketone	ug/L	0.4	0.43	107	51-116	CH
gamma-BHC (Lindane)	ug/L	0.2	0.18	89	58-99	CH
gamma-Chlordane	ug/L	0.2	0.17	87	57-102	
Heptachlor	ug/L	0.2	0.15	77	51-104	
Heptachlor epoxide	ug/L	0.2	0.17	87	59-98	
Methoxychlor	ug/L	2	1.5	77	58-108	
Decachlorobiphenyl (S)	%			40	24-108	
Tetrachloro-m-xylene (S)	%			79	44-93	CH

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 354930 Analysis Method: EPA 8082A
QC Batch Method: EPA 3546 Analysis Description: 8082A GCS PCB
Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

METHOD BLANK: 1724105 Matrix: Solid
Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	16.7	10.3	08/05/19 21:30	
PCB-1221 (Aroclor 1221)	ug/kg	ND	16.7	14.8	08/05/19 21:30	
PCB-1232 (Aroclor 1232)	ug/kg	ND	16.7	15.2	08/05/19 21:30	
PCB-1242 (Aroclor 1242)	ug/kg	ND	16.7	12.2	08/05/19 21:30	
PCB-1248 (Aroclor 1248)	ug/kg	ND	16.7	9.6	08/05/19 21:30	
PCB-1254 (Aroclor 1254)	ug/kg	ND	16.7	8.9	08/05/19 21:30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	16.7	9.5	08/05/19 21:30	
Decachlorobiphenyl (S)	%	93	38-139		08/05/19 21:30	
Tetrachloro-m-xylene (S)	%	87	34-114		08/05/19 21:30	

LABORATORY CONTROL SAMPLE: 1724106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	161	138	85	61-105	
PCB-1260 (Aroclor 1260)	ug/kg	161	134	83	70-100	
Decachlorobiphenyl (S)	%			91	38-139	
Tetrachloro-m-xylene (S)	%			86	34-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1724107 1724108

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		30317042016 Result	Spike Conc.	Spike Conc.	Conc.							
PCB-1016 (Aroclor 1016)	ug/kg	ND	285	284	284	7980	60800	2790	21500	24-137	154	25 E, M6, R1
PCB-1260 (Aroclor 1260)	ug/kg	ND	285	284	284	ND	ND	121	116	19-156		25
Decachlorobiphenyl (S)	%							138	116	38-139		
Tetrachloro-m-xylene (S)	%							89	83	34-114		

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 354924 Analysis Method: EPA 8082A
QC Batch Method: EPA 3510C Analysis Description: 8082A GCS PCB Mod
Associated Lab Samples: 30317042002, 30317042007

METHOD BLANK: 1724089 Matrix: Water
Associated Lab Samples: 30317042002, 30317042007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.25	0.14	08/06/19 15:24	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.25	0.17	08/06/19 15:24	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.25	0.073	08/06/19 15:24	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.25	0.11	08/06/19 15:24	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.25	0.094	08/06/19 15:24	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.25	0.022	08/06/19 15:24	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.25	0.025	08/06/19 15:24	
Decachlorobiphenyl (S)	%	43	10-120		08/06/19 15:24	
Tetrachloro-m-xylene (S)	%	73	36-108		08/06/19 15:24	

LABORATORY CONTROL SAMPLE: 1724090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2.5	1.9	76	45-121	
PCB-1260 (Aroclor 1260)	ug/L	2.5	1.9	76	50-121	
Decachlorobiphenyl (S)	%			43	10-120	
Tetrachloro-m-xylene (S)	%			71	36-108	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 354888 Analysis Method: EPA 8270D
QC Batch Method: EPA 3546 Analysis Description: 8270D Solid MSSV Microwave
Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

METHOD BLANK: 1723938 Matrix: Solid
Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	332	89.9	08/05/19 16:36	
1,2-Dichlorobenzene	ug/kg	ND	332	104	08/05/19 16:36	
1,3-Dichlorobenzene	ug/kg	ND	332	98.4	08/05/19 16:36	
1,4-Dichlorobenzene	ug/kg	ND	332	45.9	08/05/19 16:36	
1-Methylnaphthalene	ug/kg	ND	332	83.5	08/05/19 16:36	
2,4,5-Trichlorophenol	ug/kg	ND	831	98.3	08/05/19 16:36	
2,4,6-Trichlorophenol	ug/kg	ND	332	86.8	08/05/19 16:36	
2,4-Dichlorophenol	ug/kg	ND	332	149	08/05/19 16:36	
2,4-Dimethylphenol	ug/kg	ND	332	101	08/05/19 16:36	
2,4-Dinitrophenol	ug/kg	ND	831	747	08/05/19 16:36	
2,4-Dinitrotoluene	ug/kg	ND	332	101	08/05/19 16:36	
2,6-Dinitrotoluene	ug/kg	ND	332	101	08/05/19 16:36	
2-Chloronaphthalene	ug/kg	ND	332	94.9	08/05/19 16:36	
2-Chlorophenol	ug/kg	ND	332	103	08/05/19 16:36	
2-Methylnaphthalene	ug/kg	ND	332	99.9	08/05/19 16:36	
2-Methylphenol(o-Cresol)	ug/kg	ND	332	120	08/05/19 16:36	
2-Nitroaniline	ug/kg	ND	831	115	08/05/19 16:36	
2-Nitrophenol	ug/kg	ND	332	132	08/05/19 16:36	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	665	204	08/05/19 16:36	
3,3'-Dichlorobenzidine	ug/kg	ND	332	97.6	08/05/19 16:36	
3-Nitroaniline	ug/kg	ND	831	217	08/05/19 16:36	
4,6-Dinitro-2-methylphenol	ug/kg	ND	831	248	08/05/19 16:36	
4-Bromophenylphenyl ether	ug/kg	ND	332	122	08/05/19 16:36	
4-Chloro-3-methylphenol	ug/kg	ND	332	53.5	08/05/19 16:36	
4-Chloroaniline	ug/kg	ND	332	58.5	08/05/19 16:36	
4-Chlorophenylphenyl ether	ug/kg	ND	332	96.1	08/05/19 16:36	
4-Nitroaniline	ug/kg	ND	831	467	08/05/19 16:36	
4-Nitrophenol	ug/kg	ND	332	112	08/05/19 16:36	
Acenaphthene	ug/kg	ND	332	113	08/05/19 16:36	
Acenaphthylene	ug/kg	ND	332	99.8	08/05/19 16:36	
Anthracene	ug/kg	ND	332	76.3	08/05/19 16:36	
Azobenzene	ug/kg	ND	332	117	08/05/19 16:36	N2
Benzo(a)anthracene	ug/kg	ND	332	149	08/05/19 16:36	
Benzo(a)pyrene	ug/kg	ND	332	103	08/05/19 16:36	
Benzo(b)fluoranthene	ug/kg	ND	332	101	08/05/19 16:36	
Benzo(g,h,i)perylene	ug/kg	ND	332	115	08/05/19 16:36	
Benzo(k)fluoranthene	ug/kg	ND	332	147	08/05/19 16:36	
Benzoic acid	ug/kg	ND	4990	1680	08/05/19 16:36	CH
Benzyl alcohol	ug/kg	ND	332	294	08/05/19 16:36	
bis(2-Chloroethoxy)methane	ug/kg	ND	332	132	08/05/19 16:36	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

METHOD BLANK: 1723938

Matrix: Solid

Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/kg	ND	332	60.7	08/05/19 16:36	
bis(2-Chloroisopropyl) ether	ug/kg	ND	332	282	08/05/19 16:36	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	332	106	08/05/19 16:36	
Butylbenzylphthalate	ug/kg	ND	332	93.4	08/05/19 16:36	
Carbazole	ug/kg	ND	332	131	08/05/19 16:36	
Chrysene	ug/kg	ND	332	123	08/05/19 16:36	
Di-n-butylphthalate	ug/kg	ND	332	112	08/05/19 16:36	
Di-n-octylphthalate	ug/kg	ND	332	75.4	08/05/19 16:36	
Dibenz(a,h)anthracene	ug/kg	ND	332	126	08/05/19 16:36	
Dibenzofuran	ug/kg	ND	332	107	08/05/19 16:36	
Diethylphthalate	ug/kg	ND	332	117	08/05/19 16:36	
Dimethylphthalate	ug/kg	ND	332	102	08/05/19 16:36	
Fluoranthene	ug/kg	ND	332	107	08/05/19 16:36	
Fluorene	ug/kg	ND	332	102	08/05/19 16:36	
Hexachloro-1,3-butadiene	ug/kg	ND	332	108	08/05/19 16:36	
Hexachlorobenzene	ug/kg	ND	332	95.5	08/05/19 16:36	
Hexachlorocyclopentadiene	ug/kg	ND	332	78.6	08/05/19 16:36	
Hexachloroethane	ug/kg	ND	332	89.7	08/05/19 16:36	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	332	125	08/05/19 16:36	
Isophorone	ug/kg	ND	332	109	08/05/19 16:36	
N-Nitroso-di-n-propylamine	ug/kg	ND	332	141	08/05/19 16:36	
N-Nitrosodimethylamine	ug/kg	ND	332	57.0	08/05/19 16:36	CH
N-Nitrosodiphenylamine	ug/kg	ND	332	75.0	08/05/19 16:36	
Naphthalene	ug/kg	ND	332	90.1	08/05/19 16:36	
Nitrobenzene	ug/kg	ND	332	123	08/05/19 16:36	
Pentachlorophenol	ug/kg	ND	831	438	08/05/19 16:36	
Phenanthrene	ug/kg	ND	332	146	08/05/19 16:36	
Phenol	ug/kg	ND	332	98.5	08/05/19 16:36	
Pyrene	ug/kg	ND	332	121	08/05/19 16:36	
2,4,6-Tribromophenol (S)	%	83	10-160		08/05/19 16:36	
2-Fluorobiphenyl (S)	%	93	52-102		08/05/19 16:36	
2-Fluorophenol (S)	%	100	10-147		08/05/19 16:36	
Nitrobenzene-d5 (S)	%	89	45-103		08/05/19 16:36	
Phenol-d6 (S)	%	92	35-120		08/05/19 16:36	
Terphenyl-d14 (S)	%	85	53-135		08/05/19 16:36	

LABORATORY CONTROL SAMPLE: 1723939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	3320	2960	89	54-92	
1,2-Dichlorobenzene	ug/kg	3320	2830	85	69-103	
1,3-Dichlorobenzene	ug/kg	3320	2900	87	67-104	
1,4-Dichlorobenzene	ug/kg	3320	2610	79	63-101	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

LABORATORY CONTROL SAMPLE: 1723939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	3320	3060	92	54-86	L1
2,4,5-Trichlorophenol	ug/kg	3320	3360	101	66-112	
2,4,6-Trichlorophenol	ug/kg	3320	3490	105	62-135	
2,4-Dichlorophenol	ug/kg	3320	3160	95	51-100	
2,4-Dimethylphenol	ug/kg	3320	3190	96	38-86	L1
2,4-Dinitrophenol	ug/kg	3320	3330	100	14-147	
2,4-Dinitrotoluene	ug/kg	3320	3470	104	73-117	
2,6-Dinitrotoluene	ug/kg	3320	3270	99	68-117	
2-Chloronaphthalene	ug/kg	3320	3130	94	69-109	
2-Chlorophenol	ug/kg	3320	3110	94	72-106	
2-Methylnaphthalene	ug/kg	3320	3120	94	48-94	
2-Methylphenol(o-Cresol)	ug/kg	3320	3050	92	60-118	
2-Nitroaniline	ug/kg	3320	3480	105	69-126	
2-Nitrophenol	ug/kg	3320	3180	96	52-96	
3&4-Methylphenol(m&p Cresol)	ug/kg	6640	6470	97	61-117	
3,3'-Dichlorobenzidine	ug/kg	3320	2910	88	48-108	
3-Nitroaniline	ug/kg	3320	3420	103	56-147	
4,6-Dinitro-2-methylphenol	ug/kg	3320	3620	109	61-146	
4-Bromophenylphenyl ether	ug/kg	3320	3140	95	74-110	
4-Chloro-3-methylphenol	ug/kg	3320	3280	99	52-105	
4-Chloroaniline	ug/kg	3320	2980	90	20-87	L1
4-Chlorophenylphenyl ether	ug/kg	3320	3190	96	72-112	
4-Nitroaniline	ug/kg	3320	3520	106	54-175	
4-Nitrophenol	ug/kg	3320	3400	102	57-143	
Acenaphthene	ug/kg	3320	3150	95	68-121	
Acenaphthylene	ug/kg	3320	3240	97	67-116	
Anthracene	ug/kg	3320	3110	94	67-104	
Azobenzene	ug/kg	3320	3110	94	58-119	N2
Benzo(a)anthracene	ug/kg	3320	3200	96	75-115	
Benzo(a)pyrene	ug/kg	3320	3100	93	72-108	
Benzo(b)fluoranthene	ug/kg	3320	3200	96	72-119	
Benzo(g,h,i)perylene	ug/kg	3320	3280	99	70-119	
Benzo(k)fluoranthene	ug/kg	3320	3350	101	72-118	
Benzoic acid	ug/kg	3320	3390J	102	10-112	CH
Benzyl alcohol	ug/kg	3320	3270	99	45-132	
bis(2-Chloroethoxy)methane	ug/kg	3320	3060	92	46-96	
bis(2-Chloroethyl) ether	ug/kg	3320	2960	89	53-110	
bis(2-Chloroisopropyl) ether	ug/kg	3320	3040	92	51-121	
bis(2-Ethylhexyl)phthalate	ug/kg	3320	3530	106	72-122	
Butylbenzylphthalate	ug/kg	3320	3700	111	73-122	
Carbazole	ug/kg	3320	3200	96	56-130	
Chrysene	ug/kg	3320	3080	93	74-115	
Di-n-butylphthalate	ug/kg	3320	3400	102	77-114	
Di-n-octylphthalate	ug/kg	3320	3910	118	70-121	
Dibenz(a,h)anthracene	ug/kg	3320	3310	100	69-125	
Dibenzofuran	ug/kg	3320	3210	97	72-110	
Diethylphthalate	ug/kg	3320	3290	99	73-115	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

LABORATORY CONTROL SAMPLE: 1723939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dimethylphthalate	ug/kg	3320	3280	99	69-114	
Fluoranthene	ug/kg	3320	3250	98	76-116	
Fluorene	ug/kg	3320	3190	96	70-117	
Hexachloro-1,3-butadiene	ug/kg	3320	2980	90	45-105	
Hexachlorobenzene	ug/kg	3320	3120	94	75-110	
Hexachlorocyclopentadiene	ug/kg	3320	2930	88	37-100	
Hexachloroethane	ug/kg	3320	2940	88	58-108	
Indeno(1,2,3-cd)pyrene	ug/kg	3320	3310	100	71-122	
Isophorone	ug/kg	3320	3220	97	47-89	L1
N-Nitroso-di-n-propylamine	ug/kg	3320	3200	96	56-102	
N-Nitrosodimethylamine	ug/kg	3320	3630	109	56-102	CH,L1
N-Nitrosodiphenylamine	ug/kg	3320	3160	95	83-96	
Naphthalene	ug/kg	3320	3060	92	50-95	
Nitrobenzene	ug/kg	3320	3150	95	48-96	
Pentachlorophenol	ug/kg	3320	3650	110	52-162	
Phenanthrene	ug/kg	3320	3230	97	72-122	
Phenol	ug/kg	3320	3430	103	62-120	
Pyrene	ug/kg	3320	3300	99	72-121	
2,4,6-Tribromophenol (S)	%			94	10-160	
2-Fluorobiphenyl (S)	%			96	52-102	
2-Fluorophenol (S)	%			101	10-147	
Nitrobenzene-d5 (S)	%			93	45-103	
Phenol-d6 (S)	%			95	35-120	
Terphenyl-d14 (S)	%			94	53-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1723940 1723941

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30317042001 Result	Spike Conc.	Spike Conc.	MS Result								
1,2,4-Trichlorobenzene	ug/kg	ND	3640	3630	3180	3000	87	82	51-90	6	25		
1,2-Dichlorobenzene	ug/kg	ND	3640	3630	3000	2900	82	80	65-100	3	25		
1,3-Dichlorobenzene	ug/kg	ND	3640	3630	3090	3000	85	83	63-100	3	25		
1,4-Dichlorobenzene	ug/kg	ND	3640	3630	2780	2670	76	74	61-99	4	25		
1-Methylnaphthalene	ug/kg	ND	3640	3630	3370	3170	92	87	50-89	6	25	MH	
2,4,5-Trichlorophenol	ug/kg	ND	3640	3630	3320	3280	91	90	10-143	1	25		
2,4,6-Trichlorophenol	ug/kg	ND	3640	3630	4050	3630	111	100	10-166	11	25		
2,4-Dichlorophenol	ug/kg	ND	3640	3630	3450	3220	95	89	33-101	7	25		
2,4-Dimethylphenol	ug/kg	ND	3640	3630	3460	2860	95	79	28-80	19	25	MH	
2,4-Dinitrophenol	ug/kg	ND	3640	3630	2730	2160	75	59	10-131	23	25		
2,4-Dinitrotoluene	ug/kg	ND	3640	3630	3460	3260	95	90	43-120	6	25		
2,6-Dinitrotoluene	ug/kg	ND	3640	3630	3710	2980	102	82	47-116	22	25		
2-Chloronaphthalene	ug/kg	ND	3640	3630	3380	3150	93	87	53-110	7	25		
2-Chlorophenol	ug/kg	ND	3640	3630	3340	3190	91	88	44-118	4	25		
2-Methylnaphthalene	ug/kg	ND	3640	3630	3430	3200	94	88	44-91	7	25	MH	
2-Methylphenol(o-Cresol)	ug/kg	ND	3640	3630	3710	3800	102	104	37-142	2	25		

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1723940		1723941									
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		30317042001	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
2-Nitroaniline	ug/kg	ND	3640	3630	3830	3550	105	98	52-121	8	25		
2-Nitrophenol	ug/kg	ND	3640	3630	3490	3300	96	91	10-128	6	25		
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	7290	7270	7200	7030	99	97	36-135	2	25		
3,3'-Dichlorobenzidine	ug/kg	ND	3640	3630	2920	2890	80	80	10-134	1	25		
3-Nitroaniline	ug/kg	ND	3640	3630	3330	3070	91	84	45-126	8	25		
4,6-Dinitro-2-methylphenol	ug/kg	ND	3640	3630	3270	2950	90	81	10-155	10	25		
4-Bromophenylphenyl ether	ug/kg	ND	3640	3630	3320	2860	91	79	69-106	15	25		
4-Chloro-3-methylphenol	ug/kg	ND	3640	3630	3720	3440	102	95	47-100	8	25	MH	
4-Chloroaniline	ug/kg	ND	3640	3630	3110	2860	85	79	18-77	8	25	MH	
4-Chlorophenylphenyl ether	ug/kg	ND	3640	3630	3450	3210	95	88	63-108	7	25		
4-Nitroaniline	ug/kg	ND	3640	3630	4150	3840	114	106	27-175	8	25		
4-Nitrophenol	ug/kg	ND	3640	3630	4230	3620	116	100	10-159	15	25		
Acenaphthene	ug/kg	ND	3640	3630	3460	3240	95	89	59-114	6	25		
Acenaphthylene	ug/kg	ND	3640	3630	3550	3350	97	92	56-112	6	25		
Anthracene	ug/kg	ND	3640	3630	3190	3100	87	85	52-105	3	25		
Azobenzene	ug/kg	ND	3640	3630	3090	3000	85	83	47-116	3	25	N2	
Benzo(a)anthracene	ug/kg	ND	3640	3630	4010	3300	109	89	55-120	19	25		
Benzo(a)pyrene	ug/kg	ND	3640	3630	3620	3110	98	84	50-112	15	25		
Benzo(b)fluoranthene	ug/kg	ND	3640	3630	3880	3430	104	92	40-140	12	25		
Benzo(g,h,i)perylene	ug/kg	ND	3640	3630	3270	2950	89	80	10-137	10	25		
Benzo(k)fluoranthene	ug/kg	ND	3640	3630	3790	3020	102	81	32-150	23	25		
Benzoic acid	ug/kg	ND	3640	3630	2890J	2540J	79	69	10-129		25	CH	
Benzyl alcohol	ug/kg	ND	3640	3630	3340	2930	92	81	10-156	13	25		
bis(2-Chloroethoxy)methane	ug/kg	ND	3640	3630	3370	3190	92	88	44-91	6	25	MH	
bis(2-Chloroethyl) ether	ug/kg	ND	3640	3630	3310	3170	91	87	44-107	4	25		
bis(2-Chloroisopropyl) ether	ug/kg	ND	3640	3630	3400	3350	93	92	48-115	2	25		
bis(2-Ethylhexyl)phthalate	ug/kg	ND	3640	3630	4090	3970	111	108	61-123	3	25		
Butylbenzylphthalate	ug/kg	ND	3640	3630	4370	4190	120	115	65-122	4	25		
Carbazole	ug/kg	ND	3640	3630	3210	3140	88	86	65-121	2	25		
Chrysene	ug/kg	ND	3640	3630	3880	3400	104	92	53-120	13	25		
Di-n-butylphthalate	ug/kg	ND	3640	3630	3800	3330	104	91	68-112	13	25		
Di-n-octylphthalate	ug/kg	ND	3640	3630	4160	3850	114	106	57-135	8	25		
Dibenz(a,h)anthracene	ug/kg	ND	3640	3630	3490	3270	95	89	10-143	7	25		
Dibenzofuran	ug/kg	ND	3640	3630	3530	3300	97	90	67-106	7	25		
Diethylphthalate	ug/kg	ND	3640	3630	3620	3380	99	93	64-112	7	25		
Dimethylphthalate	ug/kg	ND	3640	3630	3600	2440	99	67	55-115	38	25	R1	
Fluoranthene	ug/kg	ND	3640	3630	3460	3210	93	87	48-128	7	25		
Fluorene	ug/kg	ND	3640	3630	3510	3290	96	90	62-115	7	25		
Hexachloro-1,3-butadiene	ug/kg	ND	3640	3630	3150	2980	86	82	37-107	5	25		
Hexachlorobenzene	ug/kg	ND	3640	3630	3270	3100	90	85	63-112	6	25		
Hexachlorocyclopentadiene	ug/kg	ND	3640	3630	2850	2650	78	73	10-98	7	25		
Hexachloroethane	ug/kg	ND	3640	3630	3160	3060	87	84	40-112	3	25		
Indeno(1,2,3-cd)pyrene	ug/kg	ND	3640	3630	3580	3250	97	88	10-139	10	25		
Isophorone	ug/kg	ND	3640	3630	3590	3440	98	95	44-87	4	25	MH	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

Parameter	Units	30317042001		MS		MSD		MS		MSD		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec									
N-Nitroso-di-n-propylamine	ug/kg	ND	3640	3640	3600	3470	99	95	45-123	4	25						
N-Nitrosodimethylamine	ug/kg	ND	3640	3630	3850	3760	106	103	47-102	3	25	CH,MH					
N-Nitrosodiphenylamine	ug/kg	ND	3640	3630	2960	2890	81	79	64-86	3	25						
Naphthalene	ug/kg	ND	3640	3630	3330	3170	91	87	41-101	5	25						
Nitrobenzene	ug/kg	ND	3640	3630	3440	3290	94	90	41-97	5	25						
Pentachlorophenol	ug/kg	ND	3640	3630	3920	3800	107	105	10-175	3	25						
Phenanthrene	ug/kg	ND	3640	3630	3830	3350	104	91	51-117	13	25						
Phenol	ug/kg	ND	3640	3630	3690	3530	101	97	42-125	4	25						
Pyrene	ug/kg	ND	3640	3630	3860	3660	104	99	43-138	5	25						
2,4,6-Tribromophenol (S)	%						93	77	10-160								
2-Fluorobiphenyl (S)	%						93	88	52-102								
2-Fluorophenol (S)	%						99	96	10-147								
Nitrobenzene-d5 (S)	%						94	88	45-103								
Phenol-d6 (S)	%						95	94	35-120								
Terphenyl-d14 (S)	%						93	89	53-135								

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 354917 Analysis Method: EPA 8270D
QC Batch Method: EPA 3510C Analysis Description: 8270D Water MSSV
Associated Lab Samples: 30317042002, 30317042007, 30317042009

METHOD BLANK: 1724053 Matrix: Water
Associated Lab Samples: 30317042002, 30317042007, 30317042009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.32	08/05/19 21:41	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.34	08/05/19 21:41	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.30	08/05/19 21:41	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.28	08/05/19 21:41	
1-Methylnaphthalene	ug/L	ND	1.0	0.36	08/05/19 21:41	
2,4,5-Trichlorophenol	ug/L	ND	2.5	0.67	08/05/19 21:41	
2,4,6-Trichlorophenol	ug/L	ND	1.0	0.37	08/05/19 21:41	
2,4-Dichlorophenol	ug/L	ND	1.0	0.34	08/05/19 21:41	
2,4-Dimethylphenol	ug/L	ND	1.0	0.36	08/05/19 21:41	
2,4-Dinitrophenol	ug/L	ND	2.5	0.58	08/05/19 21:41	
2,4-Dinitrotoluene	ug/L	ND	1.0	0.36	08/05/19 21:41	
2,6-Dinitrotoluene	ug/L	ND	1.0	0.40	08/05/19 21:41	
2-Chloronaphthalene	ug/L	ND	1.0	0.33	08/05/19 21:41	
2-Chlorophenol	ug/L	ND	1.0	0.32	08/05/19 21:41	
2-Methylnaphthalene	ug/L	ND	1.0	0.34	08/05/19 21:41	
2-Methylphenol(o-Cresol)	ug/L	ND	1.0	0.37	08/05/19 21:41	
2-Nitroaniline	ug/L	ND	2.5	0.71	08/05/19 21:41	
2-Nitrophenol	ug/L	ND	1.0	0.35	08/05/19 21:41	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2.0	1.9	08/05/19 21:41	
3,3'-Dichlorobenzidine	ug/L	ND	1.0	0.23	08/05/19 21:41	
3-Nitroaniline	ug/L	ND	2.5	0.96	08/05/19 21:41	
4,6-Dinitro-2-methylphenol	ug/L	ND	2.5	0.64	08/05/19 21:41	
4-Bromophenylphenyl ether	ug/L	ND	1.0	0.39	08/05/19 21:41	
4-Chloro-3-methylphenol	ug/L	ND	1.0	0.44	08/05/19 21:41	
4-Chloroaniline	ug/L	ND	1.0	0.21	08/05/19 21:41	
4-Chlorophenylphenyl ether	ug/L	ND	1.0	0.36	08/05/19 21:41	
4-Nitroaniline	ug/L	ND	2.5	1.9	08/05/19 21:41	
4-Nitrophenol	ug/L	ND	1.0	0.76	08/05/19 21:41	
Acenaphthene	ug/L	ND	1.0	0.39	08/05/19 21:41	
Acenaphthylene	ug/L	ND	1.0	0.38	08/05/19 21:41	
Anthracene	ug/L	ND	1.0	0.27	08/05/19 21:41	
Azobenzene	ug/L	ND	1.0	0.35	08/05/19 21:41	N2
Benzo(a)anthracene	ug/L	ND	1.0	0.20	08/05/19 21:41	
Benzo(a)pyrene	ug/L	ND	1.0	0.18	08/05/19 21:41	
Benzo(b)fluoranthene	ug/L	ND	1.0	0.24	08/05/19 21:41	
Benzo(g,h,i)perylene	ug/L	ND	1.0	0.30	08/05/19 21:41	
Benzo(k)fluoranthene	ug/L	ND	1.0	0.26	08/05/19 21:41	
Benzoic acid	ug/L	ND	15.0	2.8	08/05/19 21:41	
Benzyl alcohol	ug/L	ND	1.0	0.70	08/05/19 21:41	
bis(2-Chloroethoxy)methane	ug/L	ND	1.0	0.36	08/05/19 21:41	
bis(2-Chloroethyl) ether	ug/L	ND	1.0	0.41	08/05/19 21:41	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

METHOD BLANK: 1724053 Matrix: Water
Associated Lab Samples: 30317042002, 30317042007, 30317042009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroisopropyl) ether	ug/L	ND	1.0	0.40	08/05/19 21:41	
bis(2-Ethylhexyl)phthalate	ug/L	ND	1.0	0.36	08/05/19 21:41	
Butylbenzylphthalate	ug/L	ND	1.0	0.30	08/05/19 21:41	
Carbazole	ug/L	ND	1.0	0.23	08/05/19 21:41	
Chrysene	ug/L	ND	1.0	0.21	08/05/19 21:41	
Di-n-butylphthalate	ug/L	ND	1.0	0.32	08/05/19 21:41	
Di-n-octylphthalate	ug/L	ND	1.0	0.27	08/05/19 21:41	
Dibenz(a,h)anthracene	ug/L	ND	1.0	0.31	08/05/19 21:41	
Dibenzofuran	ug/L	ND	1.0	0.36	08/05/19 21:41	
Diethylphthalate	ug/L	ND	1.0	0.36	08/05/19 21:41	
Dimethylphthalate	ug/L	ND	1.0	0.44	08/05/19 21:41	
Fluoranthene	ug/L	ND	1.0	0.23	08/05/19 21:41	
Fluorene	ug/L	ND	1.0	0.37	08/05/19 21:41	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.33	08/05/19 21:41	
Hexachlorobenzene	ug/L	ND	1.0	0.30	08/05/19 21:41	
Hexachlorocyclopentadiene	ug/L	ND	1.0	0.19	08/05/19 21:41	
Hexachloroethane	ug/L	ND	1.0	0.30	08/05/19 21:41	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.0	0.30	08/05/19 21:41	
Isophorone	ug/L	ND	1.0	0.57	08/05/19 21:41	
N-Nitroso-di-n-propylamine	ug/L	ND	1.0	0.54	08/05/19 21:41	
N-Nitrosodimethylamine	ug/L	ND	1.0	0.26	08/05/19 21:41	
N-Nitrosodiphenylamine	ug/L	ND	1.0	0.25	08/05/19 21:41	
Naphthalene	ug/L	ND	1.0	0.35	08/05/19 21:41	
Nitrobenzene	ug/L	ND	1.0	0.38	08/05/19 21:41	
Pentachlorophenol	ug/L	ND	2.5	1.0	08/05/19 21:41	
Phenanthrene	ug/L	ND	1.0	0.34	08/05/19 21:41	
Phenol	ug/L	ND	1.0	0.22	08/05/19 21:41	
Pyrene	ug/L	ND	1.0	0.30	08/05/19 21:41	
2,4,6-Tribromophenol (S)	%	47	33-129		08/05/19 21:41	
2-Fluorobiphenyl (S)	%	43	10-121		08/05/19 21:41	
2-Fluorophenol (S)	%	25	10-84		08/05/19 21:41	
Nitrobenzene-d5 (S)	%	41	10-120		08/05/19 21:41	
Phenol-d6 (S)	%	18	10-58		08/05/19 21:41	
Terphenyl-d14 (S)	%	64	43-119		08/05/19 21:41	

LABORATORY CONTROL SAMPLE: 1724054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	10	5.5	55	21-80	
1,2-Dichlorobenzene	ug/L	10	4.7	47	22-94	
1,3-Dichlorobenzene	ug/L	10	4.8	48	13-96	
1,4-Dichlorobenzene	ug/L	10	4.5	45	23-95	
1-Methylnaphthalene	ug/L	10	6.1	61	25-86	
2,4,5-Trichlorophenol	ug/L	10	7.7	77	46-114	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

LABORATORY CONTROL SAMPLE: 1724054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/L	10	7.3	73	40-121	
2,4-Dichlorophenol	ug/L	10	6.6	66	22-94	
2,4-Dimethylphenol	ug/L	10	6.6	66	12-77	
2,4-Dinitrophenol	ug/L	10	4.2	42	10-136	
2,4-Dinitrotoluene	ug/L	10	8.2	82	47-108	
2,6-Dinitrotoluene	ug/L	10	7.5	75	37-122	
2-Chloronaphthalene	ug/L	10	6.3	63	24-107	
2-Chlorophenol	ug/L	10	5.6	56	23-101	
2-Methylnaphthalene	ug/L	10	6.2	62	23-83	
2-Methylphenol(o-Cresol)	ug/L	10	5.6	56	28-117	
2-Nitroaniline	ug/L	10	7.7	77	31-130	
2-Nitrophenol	ug/L	10	6.4	64	19-92	
3&4-Methylphenol(m&p Cresol)	ug/L	20	10.9	55	24-122	
3,3'-Dichlorobenzidine	ug/L	10	5.8	58	36-120	
3-Nitroaniline	ug/L	10	5.9	59	20-160	
4,6-Dinitro-2-methylphenol	ug/L	10	6.4	64	18-155	
4-Bromophenylphenyl ether	ug/L	10	7.3	73	35-119	
4-Chloro-3-methylphenol	ug/L	10	7.3	73	25-102	
4-Chloroaniline	ug/L	10	3.7	37	10-82	
4-Chlorophenylphenyl ether	ug/L	10	7.0	70	30-117	
4-Nitroaniline	ug/L	10	8.1	81	21-175	
4-Nitrophenol	ug/L	10	3.9	39	15-67	
Acenaphthene	ug/L	10	6.7	67	30-116	
Acenaphthylene	ug/L	10	6.8	68	29-112	
Anthracene	ug/L	10	7.6	76	44-109	
Azobenzene	ug/L	10	7.1	71	28-121	N2
Benzo(a)anthracene	ug/L	10	9.1	91	50-121	
Benzo(a)pyrene	ug/L	10	9.0	90	47-116	
Benzo(b)fluoranthene	ug/L	10	11.4	114	48-123	
Benzo(g,h,i)perylene	ug/L	10	3.2	32	40-131	L2
Benzo(k)fluoranthene	ug/L	10	12.0	120	47-126	
Benzoic acid	ug/L	10	ND	13	10-56	
Benzyl alcohol	ug/L	10	6.1	61	13-118	
bis(2-Chloroethoxy)methane	ug/L	10	6.3	63	14-95	
bis(2-Chloroethyl) ether	ug/L	10	5.8	58	18-101	
bis(2-Chloroisopropyl) ether	ug/L	10	5.5	55	10-117	
bis(2-Ethylhexyl)phthalate	ug/L	10	9.6	96	50-133	
Butylbenzylphthalate	ug/L	10	10.1	101	51-131	
Carbazole	ug/L	10	8.1	81	46-123	
Chrysene	ug/L	10	8.4	84	51-123	
Di-n-butylphthalate	ug/L	10	9.3	93	56-124	
Di-n-octylphthalate	ug/L	10	16.3	163	45-132	L1
Dibenz(a,h)anthracene	ug/L	10	3.9	39	41-138	L2
Dibenzofuran	ug/L	10	6.8	68	27-117	
Diethylphthalate	ug/L	10	8.2	82	47-121	
Dimethylphthalate	ug/L	10	7.8	78	37-119	
Fluoranthene	ug/L	10	8.6	86	52-126	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

LABORATORY CONTROL SAMPLE: 1724054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/L	10	7.1	71	34-120	
Hexachloro-1,3-butadiene	ug/L	10	5.4	54	17-96	
Hexachlorobenzene	ug/L	10	7.7	77	16-116	
Hexachlorocyclopentadiene	ug/L	10	3.7	37	10-86	
Hexachloroethane	ug/L	10	4.5	45	17-103	
Indeno(1,2,3-cd)pyrene	ug/L	10	4.0	40	42-135	L2
Isophorone	ug/L	10	6.9	69	21-88	
N-Nitroso-di-n-propylamine	ug/L	10	6.4	64	23-122	
N-Nitrosodimethylamine	ug/L	10	3.9	39	10-77	
N-Nitrosodiphenylamine	ug/L	10	7.4	74	28-89	
Naphthalene	ug/L	10	5.8	58	23-82	
Nitrobenzene	ug/L	10	5.9	59	17-126	
Pentachlorophenol	ug/L	10	7.6	76	23-138	
Phenanthrene	ug/L	10	8.0	80	45-119	
Phenol	ug/L	10	3.1	31	10-54	
Pyrene	ug/L	10	8.7	87	46-127	
2,4,6-Tribromophenol (S)	%			78	33-129	
2-Fluorobiphenyl (S)	%			64	10-121	
2-Fluorophenol (S)	%			35	10-84	
Nitrobenzene-d5 (S)	%			61	10-120	
Phenol-d6 (S)	%			27	10-58	
Terphenyl-d14 (S)	%			82	43-119	

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 355413 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010,
30317042011, 30317042012, 30317042013, 30317042014, 30317042016

SAMPLE DUPLICATE: 1726224

Parameter	Units	30317030001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.0	23.0	12	20	

SAMPLE DUPLICATE: 1726373

Parameter	Units	30317042001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.5	8.9	17	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 355102 Analysis Method: SM 4500CNE-2011
QC Batch Method: SM 4500CNC-2011 Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 30317042002, 30317042007

METHOD BLANK: 1725097 Matrix: Water
Associated Lab Samples: 30317042002, 30317042007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.010	0.0057	08/08/19 15:59	

LABORATORY CONTROL SAMPLE: 1725098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.2	0.21	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725099 1725100

Parameter	Units	30315791001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Cyanide	mg/L	ND	0.1	0.1	0.096	0.096	88	88	90-110	0	20	H1,M1, ML

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725101 1725102

Parameter	Units	30316328005 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Cyanide	mg/L	0.019	0.1	0.1	0.10	0.097	81	79	90-110	3	20	H1,M1, ML

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QUALITY CONTROL DATA

Project: TP/GW
Pace Project No.: 30317042

QC Batch: 355101 Analysis Method: EPA 9014 Total CN
QC Batch Method: EPA 9010C Analysis Description: 9014 Total Cyanide
Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

METHOD BLANK: 1725089 Matrix: Solid
Associated Lab Samples: 30317042001, 30317042003, 30317042004, 30317042005, 30317042006, 30317042008, 30317042010, 30317042011, 30317042012, 30317042013, 30317042014, 30317042015, 30317042016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/kg	ND	1.0	0.26	08/08/19 16:57	

LABORATORY CONTROL SAMPLE: 1725090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/kg	6	6.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725091 1725092

Parameter	Units	30317042001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/kg	2.6	2.9	2.9	2.9	4.2	9	53	90-110	36	20	ML,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725093 1725094

Parameter	Units	30317042014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/kg	2.4	3.1	2.8	5.6	2.3	103	-4	90-110	84	20	ML,R1

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QUALIFIERS

Project: TP/GW
Pace Project No.: 30317042

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 354917
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: 354923
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: 354924
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: 355562
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: 355751
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c The PDS recovery was outside of the laboratory control limits. Result may be biased high.
2c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
3c RF below method recommended limit.
4c The PDS recovery was outside of the laboratory control limits. Result may be biased high
5c The PDS recovery was outside of the laboratory control limits. Result may be biased high.
6c The PDS recovery was outside of the laboratory control limits. Result may be biased low.
7c The minimum RF was not met for this compound in the CCV.

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QUALIFIERS

Project: TP/GW
Pace Project No.: 30317042

ANALYTE QUALIFIERS

8c	The precision between the sample and serial dilution exceeded laboratory control limits.
B	Analyte was detected in the associated method blank.
C2	Relative percent difference between results from each column was greater than 40%. The lower of the two results was reported.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
H1	Analysis conducted outside the EPA method holding time.
IS	The internal standard response is below criteria. Results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.
SR	Surrogate recovery was below laboratory control limits. Results may be biased low.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.
ip	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 Method 8270D. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TP/GW
Pace Project No.: 30317042

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30317042001	TP-12	EPA 3546	354928	EPA 8081B	355127
30317042004	TP-14	EPA 3546	354928	EPA 8081B	355127
30317042013	TP-18	EPA 3546	354928	EPA 8081B	355127
30317042014	TP-20	EPA 3546	354928	EPA 8081B	355127
30317042002	GW-01	EPA 3510C	354923	EPA 8081B	355193
30317042007	GW-03	EPA 3510C	354923	EPA 8081B	355193
30317042001	TP-12	EPA 3546	354930	EPA 8082A	355131
30317042003	TP-13	EPA 3546	354930	EPA 8082A	355131
30317042004	TP-14	EPA 3546	354930	EPA 8082A	355131
30317042005	TP-23	EPA 3546	354930	EPA 8082A	355131
30317042006	TP-22	EPA 3546	354930	EPA 8082A	355131
30317042008	TP-15	EPA 3546	354930	EPA 8082A	355131
30317042010	TP-16	EPA 3546	354930	EPA 8082A	355131
30317042011	TP-24	EPA 3546	354930	EPA 8082A	355131
30317042012	TP-17	EPA 3546	354930	EPA 8082A	355131
30317042013	TP-18	EPA 3546	354930	EPA 8082A	355131
30317042014	TP-20	EPA 3546	354930	EPA 8082A	355131
30317042015	TP-21	EPA 3546	354930	EPA 8082A	355131
30317042016	TP-19	EPA 3546	354930	EPA 8082A	355131
30317042002	GW-01	EPA 3510C	354924	EPA 8082A	355191
30317042007	GW-03	EPA 3510C	354924	EPA 8082A	355191
30317042001	TP-12	EPA 3050B	355018	EPA 6010C	355140
30317042003	TP-13	EPA 3050B	355018	EPA 6010C	355140
30317042004	TP-14	EPA 3050B	355018	EPA 6010C	355140
30317042005	TP-23	EPA 3050B	355018	EPA 6010C	355140
30317042006	TP-22	EPA 3050B	355018	EPA 6010C	355140
30317042008	TP-15	EPA 3050B	355018	EPA 6010C	355140
30317042010	TP-16	EPA 3050B	355018	EPA 6010C	355140
30317042011	TP-24	EPA 3050B	355018	EPA 6010C	355140
30317042012	TP-17	EPA 3050B	355018	EPA 6010C	355140
30317042013	TP-18	EPA 3050B	355018	EPA 6010C	355140
30317042014	TP-20	EPA 3050B	355018	EPA 6010C	355140
30317042015	TP-21	EPA 3050B	355018	EPA 6010C	355140
30317042016	TP-19	EPA 3050B	355018	EPA 6010C	355140
30317042002	GW-01	EPA 3005A	354893	EPA 6010C	354963
30317042007	GW-03	EPA 3005A	354893	EPA 6010C	354963
30317042002	GW-01	EPA 3005A	355170	EPA 6010C	355240
30317042007	GW-03	EPA 3005A	355170	EPA 6010C	355240
30317042002	GW-01	EPA 7470A	354938	EPA 7470A	354953
30317042007	GW-03	EPA 7470A	354938	EPA 7470A	354953
30317042002	GW-01	EPA 7470A	355198	EPA 7470A	355222
30317042007	GW-03	EPA 7470A	355198	EPA 7470A	355222
30317042001	TP-12	EPA 7471B	354791	EPA 7471B	354848
30317042003	TP-13	EPA 7471B	354791	EPA 7471B	354848

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TP/GW
Pace Project No.: 30317042

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30317042004	TP-14	EPA 7471B	354791	EPA 7471B	354848
30317042005	TP-23	EPA 7471B	354791	EPA 7471B	354848
30317042006	TP-22	EPA 7471B	354791	EPA 7471B	354848
30317042008	TP-15	EPA 7471B	354791	EPA 7471B	354848
30317042010	TP-16	EPA 7471B	354791	EPA 7471B	354848
30317042011	TP-24	EPA 7471B	354791	EPA 7471B	354848
30317042012	TP-17	EPA 7471B	354791	EPA 7471B	354848
30317042013	TP-18	EPA 7471B	354791	EPA 7471B	354848
30317042014	TP-20	EPA 7471B	354791	EPA 7471B	354848
30317042015	TP-21	EPA 7471B	354791	EPA 7471B	354848
30317042016	TP-19	EPA 7471B	354791	EPA 7471B	354848
30317042001	TP-12	EPA 3546	354888	EPA 8270D	354971
30317042003	TP-13	EPA 3546	354888	EPA 8270D	354971
30317042004	TP-14	EPA 3546	354888	EPA 8270D	354971
30317042005	TP-23	EPA 3546	354888	EPA 8270D	354971
30317042006	TP-22	EPA 3546	354888	EPA 8270D	354971
30317042008	TP-15	EPA 3546	354888	EPA 8270D	354971
30317042010	TP-16	EPA 3546	354888	EPA 8270D	354971
30317042011	TP-24	EPA 3546	354888	EPA 8270D	354971
30317042012	TP-17	EPA 3546	354888	EPA 8270D	354971
30317042013	TP-18	EPA 3546	354888	EPA 8270D	354971
30317042014	TP-20	EPA 3546	354888	EPA 8270D	354971
30317042015	TP-21	EPA 3546	354888	EPA 8270D	354971
30317042016	TP-19	EPA 3546	354888	EPA 8270D	354971
30317042002	GW-01	EPA 3510C	354917	EPA 8270D	355098
30317042007	GW-03	EPA 3510C	354917	EPA 8270D	355098
30317042009	GW-09	EPA 3510C	354917	EPA 8270D	355098
30317042001	TP-12	EPA 5035A	355562	EPA 8260C	355566
30317042003	TP-13	EPA 5035A	355562	EPA 8260C	355566
30317042004	TP-14	EPA 5035A	355562	EPA 8260C	355566
30317042005	TP-23	EPA 5035A	355562	EPA 8260C	355566
30317042006	TP-22	EPA 5035A	355562	EPA 8260C	355566
30317042008	TP-15	EPA 5035A	355562	EPA 8260C	355566
30317042010	TP-16	EPA 5035A	355562	EPA 8260C	355566
30317042011	TP-24	EPA 5035A	355562	EPA 8260C	355566
30317042012	TP-17	EPA 5035A	355562	EPA 8260C	355566
30317042013	TP-18	EPA 5035A	355562	EPA 8260C	355566
30317042014	TP-20	EPA 5035A	355562	EPA 8260C	355566
30317042014	TP-20	EPA 5035A	355751	EPA 8260C	355771
30317042015	TP-21	EPA 5035A	355562	EPA 8260C	355566
30317042016	TP-19	EPA 5035A	355562	EPA 8260C	355566
30317042002	GW-01	EPA 8260C	355058		
30317042007	GW-03	EPA 8260C	355058		
30317042009	GW-09	EPA 8260C	355058		
30317042001	TP-12	ASTM D2974-87	355413		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TP/GW
Pace Project No.: 30317042

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30317042003	TP-13	ASTM D2974-87	355413		
30317042004	TP-14	ASTM D2974-87	355413		
30317042005	TP-23	ASTM D2974-87	355413		
30317042006	TP-22	ASTM D2974-87	355413		
30317042008	TP-15	ASTM D2974-87	355413		
30317042010	TP-16	ASTM D2974-87	355413		
30317042011	TP-24	ASTM D2974-87	355413		
30317042012	TP-17	ASTM D2974-87	355413		
30317042013	TP-18	ASTM D2974-87	355413		
30317042014	TP-20	ASTM D2974-87	355413		
30317042016	TP-19	ASTM D2974-87	355413		
30317042002	GW-01	SM 4500CNC-2011	355102	SM 4500CNE-2011	355490
30317042007	GW-03	SM 4500CNC-2011	355102	SM 4500CNE-2011	355490
30317042001	TP-12	EPA 9010C	355101	EPA 9014 Total CN	355497
30317042003	TP-13	EPA 9010C	355101	EPA 9014 Total CN	355497
30317042004	TP-14	EPA 9010C	355101	EPA 9014 Total CN	355497
30317042005	TP-23	EPA 9010C	355101	EPA 9014 Total CN	355497
30317042006	TP-22	EPA 9010C	355101	EPA 9014 Total CN	355497
30317042008	TP-15	EPA 9010C	355101	EPA 9014 Total CN	355497
30317042010	TP-16	EPA 9010C	355101	EPA 9014 Total CN	355497
30317042011	TP-24	EPA 9010C	355101	EPA 9014 Total CN	355497
30317042012	TP-17	EPA 9010C	355101	EPA 9014 Total CN	355497
30317042013	TP-18	EPA 9010C	355101	EPA 9014 Total CN	355497
30317042014	TP-20	EPA 9010C	355101	EPA 9014 Total CN	355497
30317042015	TP-21	EPA 9010C	355101	EPA 9014 Total CN	355497
30317042016	TP-19	EPA 9010C	355101	EPA 9014 Total CN	355497

REPORT OF LABORATORY ANALYSIS

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Chain-of-Custody Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: ENVIROspec Engineering
Address: 249 Northern Blvd Albany, NY
Report To: r.farrum@enviro-spec.com
Copy To: r.farrum@enviro-spec.com

Billing Information: Couch White PO Box 22222 Albany, NY
Site Collection Info/Address: Water Outlet
State: NY **County/City:** Albany
Time Zone Collected: [] PT [] MT [] CT [] ET
Compliance Monitoring? [] Yes [] No
DW PWS ID #:
DW Location Code:
Immediately Packed on Ice: [X] Yes [] No
Field Filtered (if applicable): [] Yes [] No
Analysis: Need filtration for metals

Customer Project Name/Number:
Phone:
Email:
Collected By (print): Rachel Farrum
Collected By (signature): [Signature]
Sample Disposal: [] Dispose as appropriate [] Return [] Archive [] Hold
Turnaround Date Required: Standard
Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)
Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
TP-12	SO	CO/G	7/30/19	8:13 AM	X	X
GW-01	WT	CO	7/30/19	8:35 AM	X	X
TP-13	SO	CO/G	7/30/19	9:10 AM	X	X
TP-14	SO	CO/G	7/30/19	9:25 AM	X	X
TP-22	SO	CO/G	7/30/19	9:52 AM	X	X
GW-03	WT	CO/G	7/30/19	10:20 AM	X	X
TP-15	SO	CO/G	7/30/19	10:55 AM	X	X
GW-05	WT	CO	7/30/19	10:55 AM	X	X
TP-16	SO	CO/G	7/30/19	11:45 AM	X	X

Customer Remarks / Special Conditions / Possible Hazards: Filtration for metals
 GW sample
Packing Material Used: SOIL/GW PACKAGING bags
Type of Ice Used: Wet Blue Dry None
Radchem sample(s) screened (<500 cpm): Y N NA
Received by/Company (Signature): [Signature] PACE
Date/Time: 7/30/19 2:23 PM
Received by/Company (Signature): [Signature] PACE
Date/Time: 7-30-19 1600
Received by/Company (Signature): [Signature] PACE
Date/Time: 8/13/19 0900

Analyses

Analyses	Y	N	NA
Custody Seals Present/Intact			
Custody Signatures Present			
Collector Signatures Present			
Bottles Intact			
Correct Bottles			
Sufficient Volume			
Samples Received on Ice			
VOA - Headspace Acceptable			
USDA Regulated Soils			
Samples in Holding Time			
Residual Chlorine Present			
Cl Strips:			
Sample pH Acceptable			
pH Strips:			
Sulfide Present			
Lead Acetate Strips:			

Lab Profile/Line:
Lab Sample Receipt Checklist:
 Custody Seals Present/Intact: Y N NA
 Custody Signatures Present: Y N NA
 Collector Signatures Present: Y N NA
 Bottles Intact: Y N NA
 Correct Bottles: Y N NA
 Sufficient Volume: Y N NA
 Samples Received on Ice: Y N NA
 VOA - Headspace Acceptable: Y N NA
 USDA Regulated Soils: Y N NA
 Samples in Holding Time: Y N NA
 Residual Chlorine Present: Y N NA
 Cl Strips: Y N NA
 Sample pH Acceptable: Y N NA
 pH Strips: Y N NA
 Sulfide Present: Y N NA
 Lead Acetate Strips: Y N NA
LAB USE ONLY:
Lab Sample # / Comments: ET / DUB



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields
Billing information:

Company: *EnviroSpec
Environmental Services*
Address: *349 North Main Blvd Albany NY*
Report To: *Rachel Farnum*
Copy To:

Email To: *Farnum@enviro-spec.com*
Site Collection Info/Address: *Water Street*

State: *NY* County/City: *Albany* Time Zone Collected: [] PT [] MT [] CT [] ET

Site/Facility ID #: Compliance Monitoring? [] Yes [] No

Purchase Order #: *Standard* DW PWS ID #: [] Yes [] No

Quote #: Turnaround Date Required: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)

Rush: [] Yes [] No Field Filtered (if applicable): [] Yes [] No Analysis: *Need Lab for PCBs*

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End Date	Res Cl	# of Ctns
			Date	Time			
<i>TP-24</i>	<i>SOIL</i>	<i>CG</i>	<i>7/30/19</i>	<i>12:20PM</i>			
<i>TP-17</i>	<i>SO</i>	<i>CG</i>	<i>7/30/19</i>	<i>12:40PM</i>			
<i>TP-18</i>	<i>SO</i>	<i>CG</i>	<i>7/30/19</i>	<i>12:55PM</i>			
<i>TP-20</i>	<i>SO</i>	<i>CG</i>	<i>7/30/19</i>	<i>1:30PM</i>			
<i>TP-21</i>	<i>SO</i>	<i>CG</i>	<i>7/30/19</i>	<i>1:50PM</i>			
<i>TP-19</i>	<i>SO</i>	<i>CG</i>	<i>7/30/19</i>	<i>2:15PM</i>			

Type of Ice Used: Wet Blue Dry None
Packing Material Used: *silvix packaging bags*
Radchem sample(s) screened (<500 cpm): *Y N NA*

Customer Remarks / Special Conditions / Possible Hazards: *Filtration for metals gw samples*
Received by/Company: (Signature) *[Signature]* Date/Time: *7/30/19 2:30PM*
Received by/Company: (Signature) *[Signature]* Date/Time: *7-30-19 1600*
Received by/Company: (Signature) *[Signature]* Date/Time: *7/30/19 0942*

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTIL Log-in Number Here
30317042
ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **
Lab Project Manager:
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Res	Cl	# of Ctns
<i>PCBs 8082</i>	<i>XX</i>	<i>XX</i>	<i>10</i>
<i>PCBs 8270</i>	<i>XX</i>	<i>XX</i>	<i>11</i>
<i>SVCs 8270</i>	<i>XX</i>	<i>XX</i>	<i>12</i>
<i>Total metals + mercury</i>	<i>XX</i>	<i>XX</i>	<i>13</i>
<i>DSS Metals + mercury</i>	<i>XX</i>	<i>XX</i>	<i>14</i>
<i>PCBs 8082</i>	<i>XX</i>	<i>XX</i>	<i>15</i>
<i>PCBs 8270</i>	<i>XX</i>	<i>XX</i>	<i>10</i>

Lab Sample Temperature Info:
Temp Blank Received: *Y N NA*
Therm ID#: *2312429154*
Cooler 1 Temp Upon Receipt: *3.28°C*
Cooler 1 Therm Corr. Factor: *0.0°C*
Cooler 1 Corrected Temp: *3.28°C*
Comments: *DOB 01/31/19*

Lab Sample # / Comments: *see page 1*
Lab Sample # / Comments:
Lab USE ONLY:
Trip Blank Received: *Y N NA*
HCL MeOH TSP Other
Non Performance(s): *YES / NO*
Page: *1* of: *1*



30317042

Sample Receiving Non-Conformance Form (NCF)

Date: 07/31/19	Evaluated by: DV
Client: ENVIROSPEC	

Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not received	Required signatures are missing

Comments/Details/Other Issues not listed above:

3. Sample integrity issues: check applicable issues below and add details where appropriate:

Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	✓ Vials received with improper headspace
Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

Comments/Details:
1 VOA for sample GW-09

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:
PM Initials:	Date/Time:

Client Comments/Instructions:

August 09, 2019

N.Brower
Envirospec Engineering
349 Northern Blvd #3
Albany, NY 12204

RE: Project: SB
Pace Project No.: 30317464

Dear N.Brower:

Enclosed are the analytical results for sample(s) received by the laboratory on August 02, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

cc: Ms. Rachel Farnum, Envirospec Engineering



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: SB
Pace Project No.: 30317464

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: SB
Pace Project No.: 30317464

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30317464001	SB-08	Solid	08/01/19 07:35	08/02/19 09:30
30317464002	SB-06	Solid	08/01/19 10:30	08/02/19 09:30
30317464003	SB-05	Solid	08/01/19 11:20	08/02/19 09:30
30317464004	SB-07	Solid	08/01/19 13:10	08/02/19 09:30
30317464005	SB-02	Solid	08/01/19 13:50	08/02/19 09:30

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SAMPLE ANALYTE COUNT

Project: SB
Pace Project No.: 30317464

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30317464001	SB-08	EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
30317464002	SB-06	EPA 8081B	TAW	23
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
30317464003	SB-05	EPA 9014 Total CN	CMR	1
		EPA 8081B	TAW	23
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52
30317464004	SB-07	ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52
30317464005	SB-02	ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JEW	52

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8081B
Description: 8081B GCS Pesticides
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

2 samples were analyzed for EPA 8081B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 354928

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

- BLANK (Lab ID: 1724101)
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)
- LCS (Lab ID: 1724102)
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)
- MS (Lab ID: 1724103)
 - Decachlorobiphenyl (S)
- MSD (Lab ID: 1724104)
 - Decachlorobiphenyl (S)
- SB-05 (Lab ID: 30317464003)
 - Decachlorobiphenyl (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 354928

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 1724102)
 - Endrin ketone

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8081B
Description: 8081B GCS Pesticides
Client: Envirospec Engineering
Date: August 09, 2019

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 354928

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- BLANK (Lab ID: 1724101)
 - Decachlorobiphenyl (S)
- LCS (Lab ID: 1724102)
 - Decachlorobiphenyl (S)
- MS (Lab ID: 1724103)
 - Decachlorobiphenyl (S)
- MSD (Lab ID: 1724104)
 - Decachlorobiphenyl (S)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8082A
Description: 8082A GCS PCB
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

5 samples were analyzed for EPA 8082A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

- ED: Due to the extract's physical characteristics, the analysis was performed at dilution.
- SB-07 (Lab ID: 30317464004)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 354930

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317042016

R1: RPD value was outside control limits.

- MSD (Lab ID: 1724108)
- PCB-1016 (Aroclor 1016)

Additional Comments:

Analyte Comments:

QC Batch: 354930

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MSD (Lab ID: 1724108)
- PCB-1016 (Aroclor 1016)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 6010C
Description: 6010C MET ICP
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

5 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355262

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317464001

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 1725590)
 - Aluminum
 - Magnesium
 - Manganese
 - Potassium
- MSD (Lab ID: 1725591)
 - Aluminum
 - Magnesium
 - Manganese
 - Potassium

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1725590)
 - Antimony
 - Iron
- MSD (Lab ID: 1725591)
 - Antimony

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 6010C
Description: 6010C MET ICP
Client: Envirospec Engineering
Date: August 09, 2019

QC Batch: 355262

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317464001

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- Iron

Additional Comments:

Analyte Comments:

QC Batch: 355262

4c: The precision between the sample and serial dilution exceeded laboratory control limits.

- SB-08 (Lab ID: 30317464001)
 - Lead

- SB-08 (Lab ID: 30317464001)
 - Iron

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 7471B
Description: 7471B Mercury
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

5 samples were analyzed for EPA 7471B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8270D
Description: 8270D MSSV Microwave
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

5 samples were analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

- ED: Due to the extract's physical characteristics, the analysis was performed at dilution.
- SB-07 (Lab ID: 30317464004)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 355109

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1725115)
 - Benzo(g,h,i)perylene
 - Dibenz(a,h)anthracene
 - Indeno(1,2,3-cd)pyrene
- LCS (Lab ID: 1725116)
 - Benzo(g,h,i)perylene
 - Dibenz(a,h)anthracene
 - Indeno(1,2,3-cd)pyrene
- MS (Lab ID: 1725117)
 - Benzo(g,h,i)perylene
 - Dibenz(a,h)anthracene
 - Indeno(1,2,3-cd)pyrene
- MSD (Lab ID: 1725118)
 - Benzo(g,h,i)perylene
 - Dibenz(a,h)anthracene
 - Indeno(1,2,3-cd)pyrene
- SB-02 (Lab ID: 30317464005)
 - Di-n-octylphthalate
- SB-05 (Lab ID: 30317464003)
 - Di-n-octylphthalate
- SB-06 (Lab ID: 30317464002)
 - Di-n-octylphthalate
- SB-07 (Lab ID: 30317464004)
 - Di-n-octylphthalate

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8270D
Description: 8270D MSSV Microwave
Client: Envirospec Engineering
Date: August 09, 2019

QC Batch: 355109

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- SB-08 (Lab ID: 30317464001)
- Di-n-octylphthalate

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 355109

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 1725116)
 - 1-Methylnaphthalene
 - 2,4-Dimethylphenol

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 355109

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 1725115)
 - Azobenzene
- LCS (Lab ID: 1725116)
 - Azobenzene
- MS (Lab ID: 1725117)
 - Azobenzene
- MSD (Lab ID: 1725118)
 - Azobenzene
- SB-02 (Lab ID: 30317464005)
 - Azobenzene
- SB-05 (Lab ID: 30317464003)
 - Azobenzene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8270D
Description: 8270D MSSV Microwave
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355109

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- SB-06 (Lab ID: 30317464002)
 - Azobenzene
- SB-07 (Lab ID: 30317464004)
 - Azobenzene
- SB-08 (Lab ID: 30317464001)
 - Azobenzene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

5 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 355572

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1726960)
 - 1,1,1-Trichloroethane
 - Bromochloromethane
 - Bromomethane
 - Carbon tetrachloride
- LCS (Lab ID: 1726961)
 - 1,1,1-Trichloroethane
 - Bromochloromethane
 - Bromomethane
 - Carbon tetrachloride
- SB-02 (Lab ID: 30317464005)
 - 1,1,1-Trichloroethane
 - Bromochloromethane
 - Bromomethane
 - Carbon tetrachloride
- SB-05 (Lab ID: 30317464003)
 - 1,1,1-Trichloroethane
 - Bromochloromethane
 - Bromomethane
 - Carbon tetrachloride
- SB-06 (Lab ID: 30317464002)
 - 1,1,1-Trichloroethane
 - Bromochloromethane
 - Bromomethane
 - Carbon tetrachloride
- SB-07 (Lab ID: 30317464004)
 - 1,1,1-Trichloroethane

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

QC Batch: 355572

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- Bromochloromethane
- Bromomethane
- Carbon tetrachloride
- SB-08 (Lab ID: 30317464001)
 - 1,1,1-Trichloroethane
 - Bromochloromethane
 - Bromomethane
 - Carbon tetrachloride

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355572

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 355572

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SB-02 (Lab ID: 30317464005)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355572

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SB-02 (Lab ID: 30317464005)
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- SB-05 (Lab ID: 30317464003)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355572

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SB-05 (Lab ID: 30317464003)
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- SB-06 (Lab ID: 30317464002)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355572

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SB-06 (Lab ID: 30317464002)
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355572

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SB-06 (Lab ID: 30317464002)
 - Vinyl chloride
- SB-07 (Lab ID: 30317464004)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355572

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SB-07 (Lab ID: 30317464004)
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- SB-08 (Lab ID: 30317464001)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355572

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SB-08 (Lab ID: 30317464001)
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride

2c: RF below method recommended limit.

- BLANK (Lab ID: 1726960)
 - 2-Butanone (MEK)
 - Acetone
- LCS (Lab ID: 1726961)
 - 2-Butanone (MEK)
 - Acetone
- SB-02 (Lab ID: 30317464005)
 - 2-Butanone (MEK)
 - Acetone
- SB-05 (Lab ID: 30317464003)
 - 2-Butanone (MEK)
 - Acetone
- SB-06 (Lab ID: 30317464002)
 - 2-Butanone (MEK)
 - Acetone
- SB-07 (Lab ID: 30317464004)
 - 2-Butanone (MEK)
 - Acetone
- SB-08 (Lab ID: 30317464001)
 - 2-Butanone (MEK)
 - Acetone

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 9014 Total CN
Description: 9014 Cyanide, Total
Client: Envirospec Engineering
Date: August 09, 2019

General Information:

5 samples were analyzed for EPA 9014 Total CN. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 9010C with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355101

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317042001,30317042014

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1725091)
 - Cyanide
- MSD (Lab ID: 1725092)
 - Cyanide
- MSD (Lab ID: 1725094)
 - Cyanide

R1: RPD value was outside control limits.

- MSD (Lab ID: 1725092)
 - Cyanide
- MSD (Lab ID: 1725094)
 - Cyanide

Additional Comments:

Analyte Comments:

QC Batch: 355101

- MS (Lab ID: 1725091)
 - Cyanide
- MSD (Lab ID: 1725092)
 - Cyanide

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: SB
Pace Project No.: 30317464

Method: EPA 9014 Total CN
Description: 9014 Cyanide, Total
Client: Envirospec Engineering
Date: August 09, 2019

Analyte Comments:

QC Batch: 355101

- MSD (Lab ID: 1725094)
 - Cyanide

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-08 **Lab ID: 30317464001** Collected: 08/01/19 07:35 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	21.7	13.4	1	08/05/19 08:14	08/06/19 23:55	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	21.7	19.3	1	08/05/19 08:14	08/06/19 23:55	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	21.7	19.8	1	08/05/19 08:14	08/06/19 23:55	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	21.7	15.9	1	08/05/19 08:14	08/06/19 23:55	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	21.7	12.5	1	08/05/19 08:14	08/06/19 23:55	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	21.7	11.6	1	08/05/19 08:14	08/06/19 23:55	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	21.7	12.4	1	08/05/19 08:14	08/06/19 23:55	11096-82-5	
PCB, Total	ND	ug/kg	196	123	1	08/05/19 08:14	08/06/19 23:55	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	34-114		1	08/05/19 08:14	08/06/19 23:55	877-09-8	
Decachlorobiphenyl (S)	99	%	38-139		1	08/05/19 08:14	08/06/19 23:55	2051-24-3	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	12200	mg/kg	11.8	3.0	1	08/06/19 07:49	08/09/19 06:55	7429-90-5	MH
Antimony	ND	mg/kg	0.71	0.57	1	08/06/19 07:49	08/09/19 06:55	7440-36-0	ML
Arsenic	4.8	mg/kg	0.59	0.57	1	08/06/19 07:49	08/09/19 06:55	7440-38-2	
Barium	38.6	mg/kg	2.4	0.11	1	08/06/19 07:49	08/09/19 06:55	7440-39-3	
Beryllium	0.52	mg/kg	0.24	0.036	1	08/06/19 07:49	08/09/19 06:55	7440-41-7	
Boron	ND	mg/kg	5.9	0.21	1	08/06/19 07:49	08/09/19 06:55	7440-42-8	
Cadmium	ND	mg/kg	0.36	0.072	1	08/06/19 07:49	08/09/19 06:55	7440-43-9	
Calcium	909	mg/kg	237	5.7	1	08/06/19 07:49	08/09/19 06:55	7440-70-2	
Chromium	11.3	mg/kg	0.59	0.11	1	08/06/19 07:49	08/09/19 06:55	7440-47-3	
Cobalt	7.1	mg/kg	1.2	0.13	1	08/06/19 07:49	08/09/19 06:55	7440-48-4	
Copper	15.7	mg/kg	1.2	0.69	1	08/06/19 07:49	08/09/19 06:55	7440-50-8	
Iron	18900	mg/kg	11.8	1.4	1	08/06/19 07:49	08/09/19 06:55	7439-89-6	ML
Lead	7.6	mg/kg	0.59	0.58	1	08/06/19 07:49	08/09/19 06:55	7439-92-1	4c
Magnesium	3180	mg/kg	59.2	6.9	1	08/06/19 07:49	08/09/19 06:55	7439-95-4	MH
Manganese	307	mg/kg	1.2	0.12	1	08/06/19 07:49	08/09/19 06:55	7439-96-5	MH
Molybdenum	ND	mg/kg	2.4	0.17	1	08/06/19 07:49	08/09/19 06:55	7439-98-7	
Nickel	14.0	mg/kg	2.4	0.29	1	08/06/19 07:49	08/09/19 06:55	7440-02-0	
Potassium	1240	mg/kg	59.2	54.5	1	08/06/19 07:49	08/09/19 06:55	7440-09-7	MH
Selenium	ND	mg/kg	0.95	0.69	1	08/06/19 07:49	08/09/19 06:55	7782-49-2	
Silver	ND	mg/kg	0.71	0.11	1	08/06/19 07:49	08/09/19 06:55	7440-22-4	
Sodium	ND	mg/kg	592	43.1	1	08/06/19 07:49	08/09/19 06:55	7440-23-5	
Thallium	ND	mg/kg	2.4	0.73	1	08/06/19 07:49	08/09/19 06:55	7440-28-0	
Vanadium	20.5	mg/kg	1.2	0.096	1	08/06/19 07:49	08/09/19 06:55	7440-62-2	
Zinc	41.7	mg/kg	1.2	0.20	1	08/06/19 07:49	08/09/19 06:55	7440-66-6	B
7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.12	0.0060	1	08/05/19 10:01	08/05/19 18:10	7439-97-6	
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	440	149	1	08/06/19 22:50	08/08/19 16:22	83-32-9	
Acenaphthylene	ND	ug/kg	440	132	1	08/06/19 22:50	08/08/19 16:22	208-96-8	
Anthracene	ND	ug/kg	440	101	1	08/06/19 22:50	08/08/19 16:22	120-12-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-08 **Lab ID: 30317464001** Collected: 08/01/19 07:35 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Azobenzene	ND	ug/kg	440	155	1	08/06/19 22:50	08/08/19 16:22	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	440	197	1	08/06/19 22:50	08/08/19 16:22	56-55-3	
Benzo(a)pyrene	ND	ug/kg	440	137	1	08/06/19 22:50	08/08/19 16:22	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	440	134	1	08/06/19 22:50	08/08/19 16:22	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	440	152	1	08/06/19 22:50	08/08/19 16:22	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	440	194	1	08/06/19 22:50	08/08/19 16:22	207-08-9	
Benzoic acid	ND	ug/kg	6590	2230	1	08/06/19 22:50	08/08/19 16:22	65-85-0	
Benzyl alcohol	ND	ug/kg	440	389	1	08/06/19 22:50	08/08/19 16:22	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	440	162	1	08/06/19 22:50	08/08/19 16:22	101-55-3	
Butylbenzylphthalate	ND	ug/kg	440	124	1	08/06/19 22:50	08/08/19 16:22	85-68-7	
Carbazole	ND	ug/kg	440	173	1	08/06/19 22:50	08/08/19 16:22	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	440	70.7	1	08/06/19 22:50	08/08/19 16:22	59-50-7	
4-Chloroaniline	ND	ug/kg	440	77.3	1	08/06/19 22:50	08/08/19 16:22	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	440	174	1	08/06/19 22:50	08/08/19 16:22	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	440	80.2	1	08/06/19 22:50	08/08/19 16:22	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	440	373	1	08/06/19 22:50	08/08/19 16:22	108-60-1	
2-Chloronaphthalene	ND	ug/kg	440	126	1	08/06/19 22:50	08/08/19 16:22	91-58-7	
2-Chlorophenol	ND	ug/kg	440	137	1	08/06/19 22:50	08/08/19 16:22	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	440	127	1	08/06/19 22:50	08/08/19 16:22	7005-72-3	
Chrysene	ND	ug/kg	440	162	1	08/06/19 22:50	08/08/19 16:22	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	440	167	1	08/06/19 22:50	08/08/19 16:22	53-70-3	
Dibenzofuran	ND	ug/kg	440	141	1	08/06/19 22:50	08/08/19 16:22	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	440	137	1	08/06/19 22:50	08/08/19 16:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	440	130	1	08/06/19 22:50	08/08/19 16:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	440	60.7	1	08/06/19 22:50	08/08/19 16:22	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	440	129	1	08/06/19 22:50	08/08/19 16:22	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	440	197	1	08/06/19 22:50	08/08/19 16:22	120-83-2	
Diethylphthalate	ND	ug/kg	440	155	1	08/06/19 22:50	08/08/19 16:22	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	440	134	1	08/06/19 22:50	08/08/19 16:22	105-67-9	L1
Dimethylphthalate	ND	ug/kg	440	136	1	08/06/19 22:50	08/08/19 16:22	131-11-3	
Di-n-butylphthalate	ND	ug/kg	440	148	1	08/06/19 22:50	08/08/19 16:22	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1100	327	1	08/06/19 22:50	08/08/19 16:22	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1100	988	1	08/06/19 22:50	08/08/19 16:22	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	440	133	1	08/06/19 22:50	08/08/19 16:22	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	440	134	1	08/06/19 22:50	08/08/19 16:22	606-20-2	
Di-n-octylphthalate	ND	ug/kg	440	99.8	1	08/06/19 22:50	08/08/19 16:22	117-84-0	CH
bis(2-Ethylhexyl)phthalate	ND	ug/kg	440	140	1	08/06/19 22:50	08/08/19 16:22	117-81-7	
Fluoranthene	ND	ug/kg	440	141	1	08/06/19 22:50	08/08/19 16:22	206-44-0	
Fluorene	ND	ug/kg	440	135	1	08/06/19 22:50	08/08/19 16:22	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	440	143	1	08/06/19 22:50	08/08/19 16:22	87-68-3	
Hexachlorobenzene	ND	ug/kg	440	126	1	08/06/19 22:50	08/08/19 16:22	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	440	104	1	08/06/19 22:50	08/08/19 16:22	77-47-4	
Hexachloroethane	ND	ug/kg	440	119	1	08/06/19 22:50	08/08/19 16:22	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	440	165	1	08/06/19 22:50	08/08/19 16:22	193-39-5	
Isophorone	ND	ug/kg	440	145	1	08/06/19 22:50	08/08/19 16:22	78-59-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-08 **Lab ID: 30317464001** Collected: 08/01/19 07:35 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
1-Methylnaphthalene	ND	ug/kg	440	110	1	08/06/19 22:50	08/08/19 16:22	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	440	132	1	08/06/19 22:50	08/08/19 16:22	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	440	158	1	08/06/19 22:50	08/08/19 16:22	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	879	270	1	08/06/19 22:50	08/08/19 16:22		
Naphthalene	ND	ug/kg	440	119	1	08/06/19 22:50	08/08/19 16:22	91-20-3	
2-Nitroaniline	ND	ug/kg	1100	153	1	08/06/19 22:50	08/08/19 16:22	88-74-4	
3-Nitroaniline	ND	ug/kg	1100	287	1	08/06/19 22:50	08/08/19 16:22	99-09-2	
4-Nitroaniline	ND	ug/kg	1100	617	1	08/06/19 22:50	08/08/19 16:22	100-01-6	
Nitrobenzene	ND	ug/kg	440	163	1	08/06/19 22:50	08/08/19 16:22	98-95-3	
2-Nitrophenol	ND	ug/kg	440	174	1	08/06/19 22:50	08/08/19 16:22	88-75-5	
4-Nitrophenol	ND	ug/kg	440	148	1	08/06/19 22:50	08/08/19 16:22	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	440	75.4	1	08/06/19 22:50	08/08/19 16:22	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	440	186	1	08/06/19 22:50	08/08/19 16:22	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	440	99.1	1	08/06/19 22:50	08/08/19 16:22	86-30-6	
Pentachlorophenol	ND	ug/kg	1100	579	1	08/06/19 22:50	08/08/19 16:22	87-86-5	
Phenanthrene	ND	ug/kg	440	193	1	08/06/19 22:50	08/08/19 16:22	85-01-8	
Phenol	ND	ug/kg	440	130	1	08/06/19 22:50	08/08/19 16:22	108-95-2	
Pyrene	ND	ug/kg	440	161	1	08/06/19 22:50	08/08/19 16:22	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	440	119	1	08/06/19 22:50	08/08/19 16:22	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1100	130	1	08/06/19 22:50	08/08/19 16:22	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	440	115	1	08/06/19 22:50	08/08/19 16:22	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	75	%	45-103		1	08/06/19 22:50	08/08/19 16:22	4165-60-0	
2-Fluorobiphenyl (S)	81	%	52-102		1	08/06/19 22:50	08/08/19 16:22	321-60-8	
Terphenyl-d14 (S)	80	%	53-135		1	08/06/19 22:50	08/08/19 16:22	1718-51-0	
Phenol-d6 (S)	80	%	35-120		1	08/06/19 22:50	08/08/19 16:22	13127-88-3	
2-Fluorophenol (S)	81	%	10-147		1	08/06/19 22:50	08/08/19 16:22	367-12-4	
2,4,6-Tribromophenol (S)	73	%	10-160		1	08/06/19 22:50	08/08/19 16:22	118-79-6	
8260C MSV 5035 Low Level Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
Acetone	97.4	ug/kg	12.2	3.9	1	08/07/19 13:48	08/07/19 19:12	67-64-1	1c,2c
Benzene	ND	ug/kg	6.1	1.1	1	08/07/19 13:48	08/07/19 19:12	71-43-2	1c
Bromochloromethane	ND	ug/kg	6.1	1.3	1	08/07/19 13:48	08/07/19 19:12	74-97-5	1c,CL
Bromodichloromethane	ND	ug/kg	6.1	1.3	1	08/07/19 13:48	08/07/19 19:12	75-27-4	1c
Bromoform	ND	ug/kg	6.1	0.80	1	08/07/19 13:48	08/07/19 19:12	75-25-2	1c
Bromomethane	ND	ug/kg	6.1	2.3	1	08/07/19 13:48	08/07/19 19:12	74-83-9	1c,CL
TOTAL BTEX	ND	ug/kg	36.6	7.5	1	08/07/19 13:48	08/07/19 19:12		
2-Butanone (MEK)	ND	ug/kg	12.2	1.1	1	08/07/19 13:48	08/07/19 19:12	78-93-3	1c,2c
Carbon disulfide	ND	ug/kg	6.1	1.7	1	08/07/19 13:48	08/07/19 19:12	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	6.1	2.1	1	08/07/19 13:48	08/07/19 19:12	56-23-5	1c,CL
Chlorobenzene	ND	ug/kg	6.1	0.95	1	08/07/19 13:48	08/07/19 19:12	108-90-7	1c
Chloroethane	ND	ug/kg	6.1	2.5	1	08/07/19 13:48	08/07/19 19:12	75-00-3	1c
Chloroform	ND	ug/kg	6.1	1.8	1	08/07/19 13:48	08/07/19 19:12	67-66-3	1c
Chloromethane	ND	ug/kg	6.1	2.1	1	08/07/19 13:48	08/07/19 19:12	74-87-3	1c
Dibromochloromethane	ND	ug/kg	6.1	0.96	1	08/07/19 13:48	08/07/19 19:12	124-48-1	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-08 **Lab ID: 30317464001** Collected: 08/01/19 07:35 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
1,2-Dichlorobenzene	ND	ug/kg	6.1	0.72	1	08/07/19 13:48	08/07/19 19:12	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	6.1	0.79	1	08/07/19 13:48	08/07/19 19:12	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	6.1	0.87	1	08/07/19 13:48	08/07/19 19:12	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	6.1	1.5	1	08/07/19 13:48	08/07/19 19:12	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	6.1	1.6	1	08/07/19 13:48	08/07/19 19:12	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	12.2	3.0	1	08/07/19 13:48	08/07/19 19:12	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.1	2.3	1	08/07/19 13:48	08/07/19 19:12	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	6.1	1.4	1	08/07/19 13:48	08/07/19 19:12	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	6.1	1.5	1	08/07/19 13:48	08/07/19 19:12	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	6.1	0.88	1	08/07/19 13:48	08/07/19 19:12	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	6.1	0.61	1	08/07/19 13:48	08/07/19 19:12	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	6.1	1.3	1	08/07/19 13:48	08/07/19 19:12	10061-02-6	1c
Ethylbenzene	ND	ug/kg	6.1	1.3	1	08/07/19 13:48	08/07/19 19:12	100-41-4	1c
2-Hexanone	ND	ug/kg	12.2	1.2	1	08/07/19 13:48	08/07/19 19:12	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	6.1	1.4	1	08/07/19 13:48	08/07/19 19:12	98-82-8	1c
Methylene Chloride	ND	ug/kg	6.1	5.1	1	08/07/19 13:48	08/07/19 19:12	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.2	1.4	1	08/07/19 13:48	08/07/19 19:12	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	6.1	0.82	1	08/07/19 13:48	08/07/19 19:12	1634-04-4	1c
Naphthalene	ND	ug/kg	6.1	1.1	1	08/07/19 13:48	08/07/19 19:12	91-20-3	1c
Styrene	ND	ug/kg	6.1	1.8	1	08/07/19 13:48	08/07/19 19:12	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.1	0.72	1	08/07/19 13:48	08/07/19 19:12	79-34-5	1c
Tetrachloroethene	ND	ug/kg	6.1	2.1	1	08/07/19 13:48	08/07/19 19:12	127-18-4	1c
Toluene	ND	ug/kg	6.1	1.2	1	08/07/19 13:48	08/07/19 19:12	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	6.1	1.5	1	08/07/19 13:48	08/07/19 19:12	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	6.1	1.8	1	08/07/19 13:48	08/07/19 19:12	71-55-6	1c,CL
1,1,2-Trichloroethane	ND	ug/kg	6.1	1.2	1	08/07/19 13:48	08/07/19 19:12	79-00-5	1c
Trichloroethene	ND	ug/kg	6.1	1.8	1	08/07/19 13:48	08/07/19 19:12	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	6.1	3.0	1	08/07/19 13:48	08/07/19 19:12	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	6.1	2.5	1	08/07/19 13:48	08/07/19 19:12	108-67-8	1c
Vinyl chloride	ND	ug/kg	6.1	2.6	1	08/07/19 13:48	08/07/19 19:12	75-01-4	1c
Xylene (Total)	ND	ug/kg	18.3	3.9	1	08/07/19 13:48	08/07/19 19:12	1330-20-7	
m&p-Xylene	ND	ug/kg	12.2	2.6	1	08/07/19 13:48	08/07/19 19:12	179601-23-1	1c
o-Xylene	ND	ug/kg	6.1	1.3	1	08/07/19 13:48	08/07/19 19:12	95-47-6	1c
Surrogates									
Toluene-d8 (S)	98	%	70-130		1	08/07/19 13:48	08/07/19 19:12	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1	08/07/19 13:48	08/07/19 19:12	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1	08/07/19 13:48	08/07/19 19:12	17060-07-0	
Dibromofluoromethane (S)	111	%	70-130		1	08/07/19 13:48	08/07/19 19:12	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **24.6** % 0.10 0.10 1 08/08/19 15:46

9014 Cyanide, Total

Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C

Cyanide ND mg/kg 1.3 0.32 1 08/05/19 14:19 08/08/19 17:22 57-12-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-06 **Lab ID: 30317464002** Collected: 08/01/19 10:30 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides Analytical Method: EPA 8081B Preparation Method: EPA 3546									
Aldrin	ND	ug/kg	2.2	0.40	1	08/05/19 08:14	08/08/19 12:25	309-00-2	
alpha-BHC	ND	ug/kg	2.2	0.44	1	08/05/19 08:14	08/08/19 12:25	319-84-6	
beta-BHC	ND	ug/kg	2.2	1.6	1	08/05/19 08:14	08/08/19 12:25	319-85-7	
delta-BHC	ND	ug/kg	2.2	2.2	1	08/05/19 08:14	08/08/19 12:25	319-86-8	
gamma-BHC (Lindane)	ND	ug/kg	2.2	0.59	1	08/05/19 08:14	08/08/19 12:25	58-89-9	
alpha-Chlordane	ND	ug/kg	2.2	0.24	1	08/05/19 08:14	08/08/19 12:25	5103-71-9	
gamma-Chlordane	ND	ug/kg	2.2	0.59	1	08/05/19 08:14	08/08/19 12:25	5103-74-2	
4,4'-DDD	ND	ug/kg	4.5	1.5	1	08/05/19 08:14	08/08/19 12:25	72-54-8	
4,4'-DDE	ND	ug/kg	4.5	0.80	1	08/05/19 08:14	08/08/19 12:25	72-55-9	
4,4'-DDT	ND	ug/kg	4.5	1.2	1	08/05/19 08:14	08/08/19 12:25	50-29-3	
Dieldrin	ND	ug/kg	4.5	0.47	1	08/05/19 08:14	08/08/19 12:25	60-57-1	
Endosulfan I	ND	ug/kg	2.2	0.28	1	08/05/19 08:14	08/08/19 12:25	959-98-8	
Endosulfan II	ND	ug/kg	4.5	0.64	1	08/05/19 08:14	08/08/19 12:25	33213-65-9	
Endosulfan sulfate	ND	ug/kg	4.5	0.41	1	08/05/19 08:14	08/08/19 12:25	1031-07-8	
Endrin	ND	ug/kg	4.5	0.71	1	08/05/19 08:14	08/08/19 12:25	72-20-8	
Endrin aldehyde	ND	ug/kg	4.5	1.1	1	08/05/19 08:14	08/08/19 12:25	7421-93-4	
Endrin ketone	ND	ug/kg	4.5	0.41	1	08/05/19 08:14	08/08/19 12:25	53494-70-5	L1
Heptachlor	ND	ug/kg	2.2	0.27	1	08/05/19 08:14	08/08/19 12:25	76-44-8	
Heptachlor epoxide	ND	ug/kg	2.2	0.63	1	08/05/19 08:14	08/08/19 12:25	1024-57-3	
Methoxychlor	ND	ug/kg	22.5	2.2	1	08/05/19 08:14	08/08/19 12:25	72-43-5	
Toxaphene	ND	ug/kg	22.5	7.4	1	08/05/19 08:14	08/08/19 12:25	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	80	%	51-88		1	08/05/19 08:14	08/08/19 12:25	877-09-8	
Decachlorobiphenyl (S)	89	%	50-96		1	08/05/19 08:14	08/08/19 12:25	2051-24-3	

8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	22.5	13.9	1	08/05/19 08:14	08/07/19 00:04	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	22.5	19.9	1	08/05/19 08:14	08/07/19 00:04	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	22.5	20.5	1	08/05/19 08:14	08/07/19 00:04	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	22.5	16.4	1	08/05/19 08:14	08/07/19 00:04	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	22.5	12.9	1	08/05/19 08:14	08/07/19 00:04	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	22.5	12.0	1	08/05/19 08:14	08/07/19 00:04	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	22.5	12.8	1	08/05/19 08:14	08/07/19 00:04	11096-82-5	
PCB, Total	ND	ug/kg	202	127	1	08/05/19 08:14	08/07/19 00:04	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	34-114		1	08/05/19 08:14	08/07/19 00:04	877-09-8	
Decachlorobiphenyl (S)	92	%	38-139		1	08/05/19 08:14	08/07/19 00:04	2051-24-3	

6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	12500	mg/kg	12.1	3.0	1	08/06/19 07:49	08/09/19 07:05	7429-90-5	
Antimony	ND	mg/kg	0.73	0.59	1	08/06/19 07:49	08/09/19 07:05	7440-36-0	
Arsenic	5.3	mg/kg	0.61	0.58	1	08/06/19 07:49	08/09/19 07:05	7440-38-2	
Barium	103	mg/kg	2.4	0.11	1	08/06/19 07:49	08/09/19 07:05	7440-39-3	
Beryllium	0.68	mg/kg	0.24	0.037	1	08/06/19 07:49	08/09/19 07:05	7440-41-7	
Boron	ND	mg/kg	6.1	0.21	1	08/06/19 07:49	08/09/19 07:05	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-06 **Lab ID: 30317464002** Collected: 08/01/19 10:30 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Cadmium	ND	mg/kg	0.36	0.074	1	08/06/19 07:49	08/09/19 07:05	7440-43-9	
Calcium	13000	mg/kg	243	5.9	1	08/06/19 07:49	08/09/19 07:05	7440-70-2	
Chromium	15.2	mg/kg	0.61	0.11	1	08/06/19 07:49	08/09/19 07:05	7440-47-3	
Cobalt	14.4	mg/kg	1.2	0.13	1	08/06/19 07:49	08/09/19 07:05	7440-48-4	
Copper	22.3	mg/kg	1.2	0.71	1	08/06/19 07:49	08/09/19 07:05	7440-50-8	
Iron	24500	mg/kg	12.1	1.4	1	08/06/19 07:49	08/09/19 07:05	7439-89-6	
Lead	13.2	mg/kg	0.61	0.59	1	08/06/19 07:49	08/09/19 07:05	7439-92-1	
Magnesium	6500	mg/kg	60.6	7.1	1	08/06/19 07:49	08/09/19 07:05	7439-95-4	
Manganese	608	mg/kg	1.2	0.12	1	08/06/19 07:49	08/09/19 07:05	7439-96-5	
Molybdenum	ND	mg/kg	2.4	0.17	1	08/06/19 07:49	08/09/19 07:05	7439-98-7	
Nickel	23.0	mg/kg	2.4	0.30	1	08/06/19 07:49	08/09/19 07:05	7440-02-0	
Potassium	2050	mg/kg	60.6	55.9	1	08/06/19 07:49	08/09/19 07:05	7440-09-7	
Selenium	ND	mg/kg	0.97	0.71	1	08/06/19 07:49	08/09/19 07:05	7782-49-2	
Silver	ND	mg/kg	0.73	0.12	1	08/06/19 07:49	08/09/19 07:05	7440-22-4	
Sodium	ND	mg/kg	606	44.2	1	08/06/19 07:49	08/09/19 07:05	7440-23-5	
Thallium	ND	mg/kg	2.4	0.74	1	08/06/19 07:49	08/09/19 07:05	7440-28-0	
Vanadium	22.4	mg/kg	1.2	0.099	1	08/06/19 07:49	08/09/19 07:05	7440-62-2	
Zinc	59.1	mg/kg	1.2	0.20	1	08/06/19 07:49	08/09/19 07:05	7440-66-6	B

7471B Mercury									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.13	0.0061	1	08/05/19 10:01	08/05/19 18:19	7439-97-6	

8270D MSSV Microwave									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	444	151	1	08/06/19 22:50	08/08/19 16:45	83-32-9	
Acenaphthylene	ND	ug/kg	444	133	1	08/06/19 22:50	08/08/19 16:45	208-96-8	
Anthracene	ND	ug/kg	444	102	1	08/06/19 22:50	08/08/19 16:45	120-12-7	
Azobenzene	ND	ug/kg	444	157	1	08/06/19 22:50	08/08/19 16:45	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	444	199	1	08/06/19 22:50	08/08/19 16:45	56-55-3	
Benzo(a)pyrene	ND	ug/kg	444	138	1	08/06/19 22:50	08/08/19 16:45	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	444	135	1	08/06/19 22:50	08/08/19 16:45	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	444	154	1	08/06/19 22:50	08/08/19 16:45	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	444	196	1	08/06/19 22:50	08/08/19 16:45	207-08-9	
Benzoic acid	ND	ug/kg	6660	2250	1	08/06/19 22:50	08/08/19 16:45	65-85-0	
Benzyl alcohol	ND	ug/kg	444	392	1	08/06/19 22:50	08/08/19 16:45	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	444	163	1	08/06/19 22:50	08/08/19 16:45	101-55-3	
Butylbenzylphthalate	ND	ug/kg	444	125	1	08/06/19 22:50	08/08/19 16:45	85-68-7	
Carbazole	ND	ug/kg	444	174	1	08/06/19 22:50	08/08/19 16:45	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	444	71.5	1	08/06/19 22:50	08/08/19 16:45	59-50-7	
4-Chloroaniline	ND	ug/kg	444	78.1	1	08/06/19 22:50	08/08/19 16:45	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	444	176	1	08/06/19 22:50	08/08/19 16:45	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	444	81.1	1	08/06/19 22:50	08/08/19 16:45	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	444	377	1	08/06/19 22:50	08/08/19 16:45	108-60-1	
2-Chloronaphthalene	ND	ug/kg	444	127	1	08/06/19 22:50	08/08/19 16:45	91-58-7	
2-Chlorophenol	ND	ug/kg	444	138	1	08/06/19 22:50	08/08/19 16:45	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	444	128	1	08/06/19 22:50	08/08/19 16:45	7005-72-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-06 Lab ID: 30317464002 Collected: 08/01/19 10:30 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Chrysene	ND	ug/kg	444	164	1	08/06/19 22:50	08/08/19 16:45	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	444	169	1	08/06/19 22:50	08/08/19 16:45	53-70-3	
Dibenzofuran	ND	ug/kg	444	142	1	08/06/19 22:50	08/08/19 16:45	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	444	139	1	08/06/19 22:50	08/08/19 16:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	444	131	1	08/06/19 22:50	08/08/19 16:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	444	61.3	1	08/06/19 22:50	08/08/19 16:45	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	444	130	1	08/06/19 22:50	08/08/19 16:45	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	444	199	1	08/06/19 22:50	08/08/19 16:45	120-83-2	
Diethylphthalate	ND	ug/kg	444	156	1	08/06/19 22:50	08/08/19 16:45	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	444	135	1	08/06/19 22:50	08/08/19 16:45	105-67-9	L1
Dimethylphthalate	ND	ug/kg	444	137	1	08/06/19 22:50	08/08/19 16:45	131-11-3	
Di-n-butylphthalate	ND	ug/kg	444	150	1	08/06/19 22:50	08/08/19 16:45	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1110	331	1	08/06/19 22:50	08/08/19 16:45	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1110	998	1	08/06/19 22:50	08/08/19 16:45	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	444	135	1	08/06/19 22:50	08/08/19 16:45	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	444	135	1	08/06/19 22:50	08/08/19 16:45	606-20-2	
Di-n-octylphthalate	ND	ug/kg	444	101	1	08/06/19 22:50	08/08/19 16:45	117-84-0	CH
bis(2-Ethylhexyl)phthalate	ND	ug/kg	444	142	1	08/06/19 22:50	08/08/19 16:45	117-81-7	
Fluoranthene	ND	ug/kg	444	143	1	08/06/19 22:50	08/08/19 16:45	206-44-0	
Fluorene	ND	ug/kg	444	136	1	08/06/19 22:50	08/08/19 16:45	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	444	145	1	08/06/19 22:50	08/08/19 16:45	87-68-3	
Hexachlorobenzene	ND	ug/kg	444	128	1	08/06/19 22:50	08/08/19 16:45	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	444	105	1	08/06/19 22:50	08/08/19 16:45	77-47-4	
Hexachloroethane	ND	ug/kg	444	120	1	08/06/19 22:50	08/08/19 16:45	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	444	167	1	08/06/19 22:50	08/08/19 16:45	193-39-5	
Isophorone	ND	ug/kg	444	146	1	08/06/19 22:50	08/08/19 16:45	78-59-1	
1-Methylnaphthalene	ND	ug/kg	444	112	1	08/06/19 22:50	08/08/19 16:45	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	444	133	1	08/06/19 22:50	08/08/19 16:45	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	444	160	1	08/06/19 22:50	08/08/19 16:45	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	888	273	1	08/06/19 22:50	08/08/19 16:45		
Naphthalene	ND	ug/kg	444	120	1	08/06/19 22:50	08/08/19 16:45	91-20-3	
2-Nitroaniline	ND	ug/kg	1110	154	1	08/06/19 22:50	08/08/19 16:45	88-74-4	
3-Nitroaniline	ND	ug/kg	1110	290	1	08/06/19 22:50	08/08/19 16:45	99-09-2	
4-Nitroaniline	ND	ug/kg	1110	623	1	08/06/19 22:50	08/08/19 16:45	100-01-6	
Nitrobenzene	ND	ug/kg	444	165	1	08/06/19 22:50	08/08/19 16:45	98-95-3	
2-Nitrophenol	ND	ug/kg	444	176	1	08/06/19 22:50	08/08/19 16:45	88-75-5	
4-Nitrophenol	ND	ug/kg	444	149	1	08/06/19 22:50	08/08/19 16:45	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	444	76.1	1	08/06/19 22:50	08/08/19 16:45	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	444	188	1	08/06/19 22:50	08/08/19 16:45	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	444	100	1	08/06/19 22:50	08/08/19 16:45	86-30-6	
Pentachlorophenol	ND	ug/kg	1110	585	1	08/06/19 22:50	08/08/19 16:45	87-86-5	
Phenanthrene	ND	ug/kg	444	195	1	08/06/19 22:50	08/08/19 16:45	85-01-8	
Phenol	ND	ug/kg	444	132	1	08/06/19 22:50	08/08/19 16:45	108-95-2	
Pyrene	ND	ug/kg	444	162	1	08/06/19 22:50	08/08/19 16:45	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	444	120	1	08/06/19 22:50	08/08/19 16:45	120-82-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-06 **Lab ID: 30317464002** Collected: 08/01/19 10:30 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
2,4,5-Trichlorophenol	ND	ug/kg	1110	131	1	08/06/19 22:50	08/08/19 16:45	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	444	116	1	08/06/19 22:50	08/08/19 16:45	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	63	%	45-103		1	08/06/19 22:50	08/08/19 16:45	4165-60-0	
2-Fluorobiphenyl (S)	65	%	52-102		1	08/06/19 22:50	08/08/19 16:45	321-60-8	
Terphenyl-d14 (S)	83	%	53-135		1	08/06/19 22:50	08/08/19 16:45	1718-51-0	
Phenol-d6 (S)	40	%	35-120		1	08/06/19 22:50	08/08/19 16:45	13127-88-3	
2-Fluorophenol (S)	89	%	10-147		1	08/06/19 22:50	08/08/19 16:45	367-12-4	
2,4,6-Tribromophenol (S)	78	%	10-160		1	08/06/19 22:50	08/08/19 16:45	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Acetone	69.1	ug/kg	15.6	5.0	1	08/07/19 13:48	08/07/19 19:39	67-64-1	1c,2c
Benzene	ND	ug/kg	7.8	1.4	1	08/07/19 13:48	08/07/19 19:39	71-43-2	1c
Bromochloromethane	ND	ug/kg	7.8	1.7	1	08/07/19 13:48	08/07/19 19:39	74-97-5	1c,CL
Bromodichloromethane	ND	ug/kg	7.8	1.7	1	08/07/19 13:48	08/07/19 19:39	75-27-4	1c
Bromoform	ND	ug/kg	7.8	1.0	1	08/07/19 13:48	08/07/19 19:39	75-25-2	1c
Bromomethane	ND	ug/kg	7.8	2.9	1	08/07/19 13:48	08/07/19 19:39	74-83-9	1c,CL
TOTAL BTEX	ND	ug/kg	46.7	9.5	1	08/07/19 13:48	08/07/19 19:39		
2-Butanone (MEK)	ND	ug/kg	15.6	1.4	1	08/07/19 13:48	08/07/19 19:39	78-93-3	1c,2c
Carbon disulfide	ND	ug/kg	7.8	2.2	1	08/07/19 13:48	08/07/19 19:39	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	7.8	2.7	1	08/07/19 13:48	08/07/19 19:39	56-23-5	1c,CL
Chlorobenzene	ND	ug/kg	7.8	1.2	1	08/07/19 13:48	08/07/19 19:39	108-90-7	1c
Chloroethane	ND	ug/kg	7.8	3.3	1	08/07/19 13:48	08/07/19 19:39	75-00-3	1c
Chloroform	ND	ug/kg	7.8	2.3	1	08/07/19 13:48	08/07/19 19:39	67-66-3	1c
Chloromethane	ND	ug/kg	7.8	2.6	1	08/07/19 13:48	08/07/19 19:39	74-87-3	1c
Dibromochloromethane	ND	ug/kg	7.8	1.2	1	08/07/19 13:48	08/07/19 19:39	124-48-1	1c
1,2-Dichlorobenzene	ND	ug/kg	7.8	0.92	1	08/07/19 13:48	08/07/19 19:39	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	7.8	1.0	1	08/07/19 13:48	08/07/19 19:39	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	7.8	1.1	1	08/07/19 13:48	08/07/19 19:39	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	7.8	2.0	1	08/07/19 13:48	08/07/19 19:39	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	7.8	2.0	1	08/07/19 13:48	08/07/19 19:39	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	15.6	3.8	1	08/07/19 13:48	08/07/19 19:39	540-59-0	
1,1-Dichloroethene	ND	ug/kg	7.8	2.9	1	08/07/19 13:48	08/07/19 19:39	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	7.8	1.8	1	08/07/19 13:48	08/07/19 19:39	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	7.8	2.0	1	08/07/19 13:48	08/07/19 19:39	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	7.8	1.1	1	08/07/19 13:48	08/07/19 19:39	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	7.8	0.78	1	08/07/19 13:48	08/07/19 19:39	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	7.8	1.6	1	08/07/19 13:48	08/07/19 19:39	10061-02-6	1c
Ethylbenzene	ND	ug/kg	7.8	1.7	1	08/07/19 13:48	08/07/19 19:39	100-41-4	1c
2-Hexanone	ND	ug/kg	15.6	1.5	1	08/07/19 13:48	08/07/19 19:39	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	7.8	1.8	1	08/07/19 13:48	08/07/19 19:39	98-82-8	1c
Methylene Chloride	ND	ug/kg	7.8	6.5	1	08/07/19 13:48	08/07/19 19:39	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	15.6	1.7	1	08/07/19 13:48	08/07/19 19:39	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	7.8	1.0	1	08/07/19 13:48	08/07/19 19:39	1634-04-4	1c
Naphthalene	ND	ug/kg	7.8	1.5	1	08/07/19 13:48	08/07/19 19:39	91-20-3	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-06 **Lab ID: 30317464002** Collected: 08/01/19 10:30 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	7.8	2.2	1	08/07/19 13:48	08/07/19 19:39	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.8	0.92	1	08/07/19 13:48	08/07/19 19:39	79-34-5	1c
Tetrachloroethene	ND	ug/kg	7.8	2.7	1	08/07/19 13:48	08/07/19 19:39	127-18-4	1c
Toluene	ND	ug/kg	7.8	1.5	1	08/07/19 13:48	08/07/19 19:39	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	7.8	2.0	1	08/07/19 13:48	08/07/19 19:39	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	7.8	2.4	1	08/07/19 13:48	08/07/19 19:39	71-55-6	1c,CL
1,1,2-Trichloroethane	ND	ug/kg	7.8	1.5	1	08/07/19 13:48	08/07/19 19:39	79-00-5	1c
Trichloroethene	ND	ug/kg	7.8	2.3	1	08/07/19 13:48	08/07/19 19:39	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	7.8	3.8	1	08/07/19 13:48	08/07/19 19:39	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	7.8	3.2	1	08/07/19 13:48	08/07/19 19:39	108-67-8	1c
Vinyl chloride	ND	ug/kg	7.8	3.3	1	08/07/19 13:48	08/07/19 19:39	75-01-4	1c
Xylene (Total)	ND	ug/kg	23.4	4.9	1	08/07/19 13:48	08/07/19 19:39	1330-20-7	
m&p-Xylene	ND	ug/kg	15.6	3.3	1	08/07/19 13:48	08/07/19 19:39	179601-23-1	1c
o-Xylene	ND	ug/kg	7.8	1.7	1	08/07/19 13:48	08/07/19 19:39	95-47-6	1c
Surrogates									
Toluene-d8 (S)	97	%	70-130		1	08/07/19 13:48	08/07/19 19:39	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1	08/07/19 13:48	08/07/19 19:39	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1	08/07/19 13:48	08/07/19 19:39	17060-07-0	
Dibromofluoromethane (S)	88	%	70-130		1	08/07/19 13:48	08/07/19 19:39	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	26.4	%	0.10	0.10	1		08/08/19 15:46		
9014 Cyanide, Total		Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C							
Cyanide	2.3	mg/kg	1.1	0.28	1	08/05/19 14:19	08/08/19 17:23	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-05 **Lab ID: 30317464003** Collected: 08/01/19 11:20 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides Analytical Method: EPA 8081B Preparation Method: EPA 3546									
Aldrin	ND	ug/kg	2.2	0.39	1	08/05/19 08:14	08/08/19 12:15	309-00-2	
alpha-BHC	ND	ug/kg	2.2	0.43	1	08/05/19 08:14	08/08/19 12:15	319-84-6	
beta-BHC	ND	ug/kg	2.2	1.6	1	08/05/19 08:14	08/08/19 12:15	319-85-7	
delta-BHC	ND	ug/kg	2.2	2.1	1	08/05/19 08:14	08/08/19 12:15	319-86-8	
gamma-BHC (Lindane)	ND	ug/kg	2.2	0.57	1	08/05/19 08:14	08/08/19 12:15	58-89-9	
alpha-Chlordane	ND	ug/kg	2.2	0.24	1	08/05/19 08:14	08/08/19 12:15	5103-71-9	
gamma-Chlordane	ND	ug/kg	2.2	0.57	1	08/05/19 08:14	08/08/19 12:15	5103-74-2	
4,4'-DDD	ND	ug/kg	4.4	1.4	1	08/05/19 08:14	08/08/19 12:15	72-54-8	
4,4'-DDE	ND	ug/kg	4.4	0.77	1	08/05/19 08:14	08/08/19 12:15	72-55-9	
4,4'-DDT	ND	ug/kg	4.4	1.1	1	08/05/19 08:14	08/08/19 12:15	50-29-3	
Dieldrin	ND	ug/kg	4.4	0.45	1	08/05/19 08:14	08/08/19 12:15	60-57-1	
Endosulfan I	ND	ug/kg	2.2	0.27	1	08/05/19 08:14	08/08/19 12:15	959-98-8	
Endosulfan II	ND	ug/kg	4.4	0.62	1	08/05/19 08:14	08/08/19 12:15	33213-65-9	
Endosulfan sulfate	ND	ug/kg	4.4	0.39	1	08/05/19 08:14	08/08/19 12:15	1031-07-8	
Endrin	ND	ug/kg	4.4	0.69	1	08/05/19 08:14	08/08/19 12:15	72-20-8	
Endrin aldehyde	ND	ug/kg	4.4	1.0	1	08/05/19 08:14	08/08/19 12:15	7421-93-4	
Endrin ketone	ND	ug/kg	4.4	0.40	1	08/05/19 08:14	08/08/19 12:15	53494-70-5	L1
Heptachlor	ND	ug/kg	2.2	0.26	1	08/05/19 08:14	08/08/19 12:15	76-44-8	
Heptachlor epoxide	ND	ug/kg	2.2	0.61	1	08/05/19 08:14	08/08/19 12:15	1024-57-3	
Methoxychlor	ND	ug/kg	21.8	2.1	1	08/05/19 08:14	08/08/19 12:15	72-43-5	
Toxaphene	ND	ug/kg	21.8	7.2	1	08/05/19 08:14	08/08/19 12:15	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	51-88		1	08/05/19 08:14	08/08/19 12:15	877-09-8	
Decachlorobiphenyl (S)	97	%	50-96		1	08/05/19 08:14	08/08/19 12:15	2051-24-3	ST

8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	21.8	13.4	1	08/05/19 08:14	08/07/19 00:21	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	21.8	19.3	1	08/05/19 08:14	08/07/19 00:21	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	21.8	19.8	1	08/05/19 08:14	08/07/19 00:21	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	21.8	15.9	1	08/05/19 08:14	08/07/19 00:21	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	21.8	12.5	1	08/05/19 08:14	08/07/19 00:21	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	21.8	11.6	1	08/05/19 08:14	08/07/19 00:21	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	21.8	12.4	1	08/05/19 08:14	08/07/19 00:21	11096-82-5	
PCB, Total	ND	ug/kg	196	123	1	08/05/19 08:14	08/07/19 00:21	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	34-114		1	08/05/19 08:14	08/07/19 00:21	877-09-8	
Decachlorobiphenyl (S)	96	%	38-139		1	08/05/19 08:14	08/07/19 00:21	2051-24-3	

6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	16300	mg/kg	12.3	3.1	1	08/06/19 07:49	08/09/19 07:12	7429-90-5	
Antimony	ND	mg/kg	0.74	0.60	1	08/06/19 07:49	08/09/19 07:12	7440-36-0	
Arsenic	8.2	mg/kg	0.62	0.59	1	08/06/19 07:49	08/09/19 07:12	7440-38-2	
Barium	104	mg/kg	2.5	0.12	1	08/06/19 07:49	08/09/19 07:12	7440-39-3	
Beryllium	0.71	mg/kg	0.25	0.037	1	08/06/19 07:49	08/09/19 07:12	7440-41-7	
Boron	ND	mg/kg	6.2	0.22	1	08/06/19 07:49	08/09/19 07:12	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-05 **Lab ID: 30317464003** Collected: 08/01/19 11:20 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Cadmium	ND	mg/kg	0.37	0.075	1	08/06/19 07:49	08/09/19 07:12	7440-43-9	
Calcium	8960	mg/kg	247	6.0	1	08/06/19 07:49	08/09/19 07:12	7440-70-2	
Chromium	19.8	mg/kg	0.62	0.11	1	08/06/19 07:49	08/09/19 07:12	7440-47-3	
Cobalt	17.6	mg/kg	1.2	0.13	1	08/06/19 07:49	08/09/19 07:12	7440-48-4	
Copper	35.6	mg/kg	1.2	0.72	1	08/06/19 07:49	08/09/19 07:12	7440-50-8	
Iron	33500	mg/kg	12.3	1.4	1	08/06/19 07:49	08/09/19 07:12	7439-89-6	
Lead	17.3	mg/kg	0.62	0.60	1	08/06/19 07:49	08/09/19 07:12	7439-92-1	
Magnesium	6650	mg/kg	61.6	7.2	1	08/06/19 07:49	08/09/19 07:12	7439-95-4	
Manganese	832	mg/kg	1.2	0.12	1	08/06/19 07:49	08/09/19 07:12	7439-96-5	
Molybdenum	ND	mg/kg	2.5	0.18	1	08/06/19 07:49	08/09/19 07:12	7439-98-7	
Nickel	34.8	mg/kg	2.5	0.31	1	08/06/19 07:49	08/09/19 07:12	7440-02-0	
Potassium	2500	mg/kg	61.6	56.8	1	08/06/19 07:49	08/09/19 07:12	7440-09-7	
Selenium	ND	mg/kg	0.99	0.72	1	08/06/19 07:49	08/09/19 07:12	7782-49-2	
Silver	ND	mg/kg	0.74	0.12	1	08/06/19 07:49	08/09/19 07:12	7440-22-4	
Sodium	ND	mg/kg	616	44.9	1	08/06/19 07:49	08/09/19 07:12	7440-23-5	
Thallium	ND	mg/kg	2.5	0.76	1	08/06/19 07:49	08/09/19 07:12	7440-28-0	
Vanadium	23.3	mg/kg	1.2	0.10	1	08/06/19 07:49	08/09/19 07:12	7440-62-2	
Zinc	74.6	mg/kg	1.2	0.21	1	08/06/19 07:49	08/09/19 07:12	7440-66-6	B

7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.13	0.0063	1	08/05/19 10:01	08/05/19 18:21	7439-97-6	

8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	439	149	1	08/06/19 22:50	08/08/19 17:07	83-32-9	
Acenaphthylene	ND	ug/kg	439	132	1	08/06/19 22:50	08/08/19 17:07	208-96-8	
Anthracene	ND	ug/kg	439	101	1	08/06/19 22:50	08/08/19 17:07	120-12-7	
Azobenzene	ND	ug/kg	439	155	1	08/06/19 22:50	08/08/19 17:07	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	439	197	1	08/06/19 22:50	08/08/19 17:07	56-55-3	
Benzo(a)pyrene	ND	ug/kg	439	136	1	08/06/19 22:50	08/08/19 17:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	439	133	1	08/06/19 22:50	08/08/19 17:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	439	152	1	08/06/19 22:50	08/08/19 17:07	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	439	194	1	08/06/19 22:50	08/08/19 17:07	207-08-9	
Benzoic acid	ND	ug/kg	6580	2220	1	08/06/19 22:50	08/08/19 17:07	65-85-0	
Benzyl alcohol	ND	ug/kg	439	388	1	08/06/19 22:50	08/08/19 17:07	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	439	161	1	08/06/19 22:50	08/08/19 17:07	101-55-3	
Butylbenzylphthalate	ND	ug/kg	439	123	1	08/06/19 22:50	08/08/19 17:07	85-68-7	
Carbazole	ND	ug/kg	439	172	1	08/06/19 22:50	08/08/19 17:07	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	439	70.7	1	08/06/19 22:50	08/08/19 17:07	59-50-7	
4-Chloroaniline	ND	ug/kg	439	77.2	1	08/06/19 22:50	08/08/19 17:07	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	439	174	1	08/06/19 22:50	08/08/19 17:07	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	439	80.1	1	08/06/19 22:50	08/08/19 17:07	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	439	372	1	08/06/19 22:50	08/08/19 17:07	108-60-1	
2-Chloronaphthalene	ND	ug/kg	439	125	1	08/06/19 22:50	08/08/19 17:07	91-58-7	
2-Chlorophenol	ND	ug/kg	439	137	1	08/06/19 22:50	08/08/19 17:07	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	439	127	1	08/06/19 22:50	08/08/19 17:07	7005-72-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-05 Lab ID: 30317464003 Collected: 08/01/19 11:20 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Chrysene	ND	ug/kg	439	162	1	08/06/19 22:50	08/08/19 17:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	439	167	1	08/06/19 22:50	08/08/19 17:07	53-70-3	
Dibenzofuran	ND	ug/kg	439	141	1	08/06/19 22:50	08/08/19 17:07	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	439	137	1	08/06/19 22:50	08/08/19 17:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	439	130	1	08/06/19 22:50	08/08/19 17:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	439	60.6	1	08/06/19 22:50	08/08/19 17:07	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	439	129	1	08/06/19 22:50	08/08/19 17:07	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	439	197	1	08/06/19 22:50	08/08/19 17:07	120-83-2	
Diethylphthalate	ND	ug/kg	439	155	1	08/06/19 22:50	08/08/19 17:07	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	439	133	1	08/06/19 22:50	08/08/19 17:07	105-67-9	L1
Dimethylphthalate	ND	ug/kg	439	135	1	08/06/19 22:50	08/08/19 17:07	131-11-3	
Di-n-butylphthalate	ND	ug/kg	439	148	1	08/06/19 22:50	08/08/19 17:07	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1100	327	1	08/06/19 22:50	08/08/19 17:07	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1100	987	1	08/06/19 22:50	08/08/19 17:07	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	439	133	1	08/06/19 22:50	08/08/19 17:07	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	439	134	1	08/06/19 22:50	08/08/19 17:07	606-20-2	
Di-n-octylphthalate	ND	ug/kg	439	99.7	1	08/06/19 22:50	08/08/19 17:07	117-84-0	CH
bis(2-Ethylhexyl)phthalate	ND	ug/kg	439	140	1	08/06/19 22:50	08/08/19 17:07	117-81-7	
Fluoranthene	ND	ug/kg	439	141	1	08/06/19 22:50	08/08/19 17:07	206-44-0	
Fluorene	ND	ug/kg	439	134	1	08/06/19 22:50	08/08/19 17:07	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	439	143	1	08/06/19 22:50	08/08/19 17:07	87-68-3	
Hexachlorobenzene	ND	ug/kg	439	126	1	08/06/19 22:50	08/08/19 17:07	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	439	104	1	08/06/19 22:50	08/08/19 17:07	77-47-4	
Hexachloroethane	ND	ug/kg	439	119	1	08/06/19 22:50	08/08/19 17:07	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	439	165	1	08/06/19 22:50	08/08/19 17:07	193-39-5	
Isophorone	ND	ug/kg	439	144	1	08/06/19 22:50	08/08/19 17:07	78-59-1	
1-Methylnaphthalene	ND	ug/kg	439	110	1	08/06/19 22:50	08/08/19 17:07	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	439	132	1	08/06/19 22:50	08/08/19 17:07	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	439	158	1	08/06/19 22:50	08/08/19 17:07	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	878	270	1	08/06/19 22:50	08/08/19 17:07		
Naphthalene	ND	ug/kg	439	119	1	08/06/19 22:50	08/08/19 17:07	91-20-3	
2-Nitroaniline	ND	ug/kg	1100	153	1	08/06/19 22:50	08/08/19 17:07	88-74-4	
3-Nitroaniline	ND	ug/kg	1100	287	1	08/06/19 22:50	08/08/19 17:07	99-09-2	
4-Nitroaniline	ND	ug/kg	1100	616	1	08/06/19 22:50	08/08/19 17:07	100-01-6	
Nitrobenzene	ND	ug/kg	439	163	1	08/06/19 22:50	08/08/19 17:07	98-95-3	
2-Nitrophenol	ND	ug/kg	439	174	1	08/06/19 22:50	08/08/19 17:07	88-75-5	
4-Nitrophenol	ND	ug/kg	439	148	1	08/06/19 22:50	08/08/19 17:07	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	439	75.3	1	08/06/19 22:50	08/08/19 17:07	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	439	186	1	08/06/19 22:50	08/08/19 17:07	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	439	99.0	1	08/06/19 22:50	08/08/19 17:07	86-30-6	
Pentachlorophenol	ND	ug/kg	1100	578	1	08/06/19 22:50	08/08/19 17:07	87-86-5	
Phenanthrene	ND	ug/kg	439	193	1	08/06/19 22:50	08/08/19 17:07	85-01-8	
Phenol	ND	ug/kg	439	130	1	08/06/19 22:50	08/08/19 17:07	108-95-2	
Pyrene	ND	ug/kg	439	160	1	08/06/19 22:50	08/08/19 17:07	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	439	119	1	08/06/19 22:50	08/08/19 17:07	120-82-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-05 **Lab ID: 30317464003** Collected: 08/01/19 11:20 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
2,4,5-Trichlorophenol	ND	ug/kg	1100	130	1	08/06/19 22:50	08/08/19 17:07	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	439	115	1	08/06/19 22:50	08/08/19 17:07	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	75	%	45-103		1	08/06/19 22:50	08/08/19 17:07	4165-60-0	
2-Fluorobiphenyl (S)	80	%	52-102		1	08/06/19 22:50	08/08/19 17:07	321-60-8	
Terphenyl-d14 (S)	76	%	53-135		1	08/06/19 22:50	08/08/19 17:07	1718-51-0	
Phenol-d6 (S)	78	%	35-120		1	08/06/19 22:50	08/08/19 17:07	13127-88-3	
2-Fluorophenol (S)	66	%	10-147		1	08/06/19 22:50	08/08/19 17:07	367-12-4	
2,4,6-Tribromophenol (S)	69	%	10-160		1	08/06/19 22:50	08/08/19 17:07	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Acetone	30.1	ug/kg	11.6	3.7	1	08/07/19 13:48	08/07/19 20:07	67-64-1	1c,2c
Benzene	ND	ug/kg	5.8	1.0	1	08/07/19 13:48	08/07/19 20:07	71-43-2	1c
Bromochloromethane	ND	ug/kg	5.8	1.3	1	08/07/19 13:48	08/07/19 20:07	74-97-5	1c,CL
Bromodichloromethane	ND	ug/kg	5.8	1.3	1	08/07/19 13:48	08/07/19 20:07	75-27-4	1c
Bromoform	ND	ug/kg	5.8	0.77	1	08/07/19 13:48	08/07/19 20:07	75-25-2	1c
Bromomethane	ND	ug/kg	5.8	2.2	1	08/07/19 13:48	08/07/19 20:07	74-83-9	1c,CL
TOTAL BTEX	ND	ug/kg	34.9	7.1	1	08/07/19 13:48	08/07/19 20:07		
2-Butanone (MEK)	ND	ug/kg	11.6	1.1	1	08/07/19 13:48	08/07/19 20:07	78-93-3	1c,2c
Carbon disulfide	ND	ug/kg	5.8	1.6	1	08/07/19 13:48	08/07/19 20:07	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	5.8	2.0	1	08/07/19 13:48	08/07/19 20:07	56-23-5	1c,CL
Chlorobenzene	ND	ug/kg	5.8	0.91	1	08/07/19 13:48	08/07/19 20:07	108-90-7	1c
Chloroethane	ND	ug/kg	5.8	2.4	1	08/07/19 13:48	08/07/19 20:07	75-00-3	1c
Chloroform	ND	ug/kg	5.8	1.7	1	08/07/19 13:48	08/07/19 20:07	67-66-3	1c
Chloromethane	ND	ug/kg	5.8	2.0	1	08/07/19 13:48	08/07/19 20:07	74-87-3	1c
Dibromochloromethane	ND	ug/kg	5.8	0.92	1	08/07/19 13:48	08/07/19 20:07	124-48-1	1c
1,2-Dichlorobenzene	ND	ug/kg	5.8	0.69	1	08/07/19 13:48	08/07/19 20:07	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	5.8	0.76	1	08/07/19 13:48	08/07/19 20:07	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	5.8	0.82	1	08/07/19 13:48	08/07/19 20:07	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	5.8	1.5	1	08/07/19 13:48	08/07/19 20:07	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	5.8	1.5	1	08/07/19 13:48	08/07/19 20:07	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	11.6	2.8	1	08/07/19 13:48	08/07/19 20:07	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.8	2.2	1	08/07/19 13:48	08/07/19 20:07	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1.3	1	08/07/19 13:48	08/07/19 20:07	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1.5	1	08/07/19 13:48	08/07/19 20:07	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	5.8	0.84	1	08/07/19 13:48	08/07/19 20:07	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	5.8	0.58	1	08/07/19 13:48	08/07/19 20:07	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1.2	1	08/07/19 13:48	08/07/19 20:07	10061-02-6	1c
Ethylbenzene	ND	ug/kg	5.8	1.3	1	08/07/19 13:48	08/07/19 20:07	100-41-4	1c
2-Hexanone	ND	ug/kg	11.6	1.1	1	08/07/19 13:48	08/07/19 20:07	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1.3	1	08/07/19 13:48	08/07/19 20:07	98-82-8	1c
Methylene Chloride	ND	ug/kg	5.8	4.9	1	08/07/19 13:48	08/07/19 20:07	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.6	1.3	1	08/07/19 13:48	08/07/19 20:07	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	5.8	0.78	1	08/07/19 13:48	08/07/19 20:07	1634-04-4	1c
Naphthalene	ND	ug/kg	5.8	1.1	1	08/07/19 13:48	08/07/19 20:07	91-20-3	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-05 **Lab ID: 30317464003** Collected: 08/01/19 11:20 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	5.8	1.7	1	08/07/19 13:48	08/07/19 20:07	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	0.69	1	08/07/19 13:48	08/07/19 20:07	79-34-5	1c
Tetrachloroethene	ND	ug/kg	5.8	2.0	1	08/07/19 13:48	08/07/19 20:07	127-18-4	1c
Toluene	ND	ug/kg	5.8	1.2	1	08/07/19 13:48	08/07/19 20:07	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1.5	1	08/07/19 13:48	08/07/19 20:07	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	5.8	1.8	1	08/07/19 13:48	08/07/19 20:07	71-55-6	1c,CL
1,1,2-Trichloroethane	ND	ug/kg	5.8	1.2	1	08/07/19 13:48	08/07/19 20:07	79-00-5	1c
Trichloroethene	ND	ug/kg	5.8	1.7	1	08/07/19 13:48	08/07/19 20:07	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	2.8	1	08/07/19 13:48	08/07/19 20:07	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	2.4	1	08/07/19 13:48	08/07/19 20:07	108-67-8	1c
Vinyl chloride	ND	ug/kg	5.8	2.5	1	08/07/19 13:48	08/07/19 20:07	75-01-4	1c
Xylene (Total)	ND	ug/kg	17.4	3.7	1	08/07/19 13:48	08/07/19 20:07	1330-20-7	
m&p-Xylene	ND	ug/kg	11.6	2.4	1	08/07/19 13:48	08/07/19 20:07	179601-23-1	1c
o-Xylene	ND	ug/kg	5.8	1.2	1	08/07/19 13:48	08/07/19 20:07	95-47-6	1c
Surrogates									
Toluene-d8 (S)	92	%	70-130		1	08/07/19 13:48	08/07/19 20:07	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1	08/07/19 13:48	08/07/19 20:07	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1	08/07/19 13:48	08/07/19 20:07	17060-07-0	
Dibromofluoromethane (S)	94	%	70-130		1	08/07/19 13:48	08/07/19 20:07	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	24.9	%	0.10	0.10	1		08/08/19 15:46		
9014 Cyanide, Total		Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C							
Cyanide	6.6	mg/kg	1.3	0.34	1	08/05/19 14:19	08/08/19 17:23	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-07 **Lab ID: 30317464004** Collected: 08/01/19 13:10 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	180	111	10	08/05/19 08:14	08/07/19 00:29	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	180	159	10	08/05/19 08:14	08/07/19 00:29	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	180	164	10	08/05/19 08:14	08/07/19 00:29	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	180	131	10	08/05/19 08:14	08/07/19 00:29	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	180	103	10	08/05/19 08:14	08/07/19 00:29	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	180	95.8	10	08/05/19 08:14	08/07/19 00:29	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	180	102	10	08/05/19 08:14	08/07/19 00:29	11096-82-5	ED
PCB, Total	ND	ug/kg	1620	1020	10	08/05/19 08:14	08/07/19 00:29	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	98	%	34-114		10	08/05/19 08:14	08/07/19 00:29	877-09-8	
Decachlorobiphenyl (S)	132	%	38-139		10	08/05/19 08:14	08/07/19 00:29	2051-24-3	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	9880	mg/kg	9.9	2.5	1	08/06/19 07:49	08/09/19 07:14	7429-90-5	
Antimony	0.93	mg/kg	0.59	0.48	1	08/06/19 07:49	08/09/19 07:14	7440-36-0	
Arsenic	10.7	mg/kg	0.50	0.48	1	08/06/19 07:49	08/09/19 07:14	7440-38-2	
Barium	107	mg/kg	2.0	0.093	1	08/06/19 07:49	08/09/19 07:14	7440-39-3	
Beryllium	0.65	mg/kg	0.20	0.030	1	08/06/19 07:49	08/09/19 07:14	7440-41-7	
Boron	ND	mg/kg	5.0	0.17	1	08/06/19 07:49	08/09/19 07:14	7440-42-8	
Cadmium	ND	mg/kg	0.30	0.060	1	08/06/19 07:49	08/09/19 07:14	7440-43-9	
Calcium	2150	mg/kg	198	4.8	1	08/06/19 07:49	08/09/19 07:14	7440-70-2	
Chromium	33.9	mg/kg	0.50	0.091	1	08/06/19 07:49	08/09/19 07:14	7440-47-3	
Cobalt	13.9	mg/kg	0.99	0.10	1	08/06/19 07:49	08/09/19 07:14	7440-48-4	
Copper	62.4	mg/kg	0.99	0.58	1	08/06/19 07:49	08/09/19 07:14	7440-50-8	
Iron	31400	mg/kg	9.9	1.2	1	08/06/19 07:49	08/09/19 07:14	7439-89-6	
Lead	100	mg/kg	0.50	0.48	1	08/06/19 07:49	08/09/19 07:14	7439-92-1	
Magnesium	4070	mg/kg	49.5	5.8	1	08/06/19 07:49	08/09/19 07:14	7439-95-4	
Manganese	591	mg/kg	0.99	0.099	1	08/06/19 07:49	08/09/19 07:14	7439-96-5	
Molybdenum	2.5	mg/kg	2.0	0.14	1	08/06/19 07:49	08/09/19 07:14	7439-98-7	
Nickel	34.5	mg/kg	2.0	0.25	1	08/06/19 07:49	08/09/19 07:14	7440-02-0	
Potassium	1080	mg/kg	49.5	45.6	1	08/06/19 07:49	08/09/19 07:14	7440-09-7	
Selenium	ND	mg/kg	0.79	0.58	1	08/06/19 07:49	08/09/19 07:14	7782-49-2	
Silver	ND	mg/kg	0.59	0.096	1	08/06/19 07:49	08/09/19 07:14	7440-22-4	
Sodium	ND	mg/kg	495	36.1	1	08/06/19 07:49	08/09/19 07:14	7440-23-5	
Thallium	ND	mg/kg	2.0	0.61	1	08/06/19 07:49	08/09/19 07:14	7440-28-0	
Vanadium	30.4	mg/kg	0.99	0.081	1	08/06/19 07:49	08/09/19 07:14	7440-62-2	
Zinc	96.8	mg/kg	0.99	0.17	1	08/06/19 07:49	08/09/19 07:14	7440-66-6	B
7471B Mercury									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.11	0.0053	1	08/05/19 10:01	08/05/19 18:23	7439-97-6	
8270D MSSV Microwave									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	3570	1210	10	08/06/19 22:50	08/08/19 17:30	83-32-9	ED
Acenaphthylene	ND	ug/kg	3570	1070	10	08/06/19 22:50	08/08/19 17:30	208-96-8	ED
Anthracene	ND	ug/kg	3570	820	10	08/06/19 22:50	08/08/19 17:30	120-12-7	ED

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-07 **Lab ID: 30317464004** Collected: 08/01/19 13:10 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Azobenzene	ND	ug/kg	3570	1260	10	08/06/19 22:50	08/08/19 17:30	103-33-3	ED,N2
Benzo(a)anthracene	10300	ug/kg	3570	1600	10	08/06/19 22:50	08/08/19 17:30	56-55-3	ED
Benzo(a)pyrene	7690	ug/kg	3570	1110	10	08/06/19 22:50	08/08/19 17:30	50-32-8	ED
Benzo(b)fluoranthene	9790	ug/kg	3570	1080	10	08/06/19 22:50	08/08/19 17:30	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	3570	1240	10	08/06/19 22:50	08/08/19 17:30	191-24-2	ED
Benzo(k)fluoranthene	8870	ug/kg	3570	1580	10	08/06/19 22:50	08/08/19 17:30	207-08-9	ED
Benzoic acid	ND	ug/kg	53600	18100	10	08/06/19 22:50	08/08/19 17:30	65-85-0	ED
Benzyl alcohol	ND	ug/kg	3570	3160	10	08/06/19 22:50	08/08/19 17:30	100-51-6	ED
4-Bromophenylphenyl ether	ND	ug/kg	3570	1310	10	08/06/19 22:50	08/08/19 17:30	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	3570	1000	10	08/06/19 22:50	08/08/19 17:30	85-68-7	ED
Carbazole	ND	ug/kg	3570	1400	10	08/06/19 22:50	08/08/19 17:30	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/kg	3570	575	10	08/06/19 22:50	08/08/19 17:30	59-50-7	ED
4-Chloroaniline	ND	ug/kg	3570	628	10	08/06/19 22:50	08/08/19 17:30	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/kg	3570	1410	10	08/06/19 22:50	08/08/19 17:30	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/kg	3570	652	10	08/06/19 22:50	08/08/19 17:30	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	3570	3030	10	08/06/19 22:50	08/08/19 17:30	108-60-1	ED
2-Chloronaphthalene	ND	ug/kg	3570	1020	10	08/06/19 22:50	08/08/19 17:30	91-58-7	ED
2-Chlorophenol	ND	ug/kg	3570	1110	10	08/06/19 22:50	08/08/19 17:30	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/kg	3570	1030	10	08/06/19 22:50	08/08/19 17:30	7005-72-3	ED
Chrysene	11500	ug/kg	3570	1320	10	08/06/19 22:50	08/08/19 17:30	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	3570	1360	10	08/06/19 22:50	08/08/19 17:30	53-70-3	ED
Dibenzofuran	ND	ug/kg	3570	1150	10	08/06/19 22:50	08/08/19 17:30	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	3570	1120	10	08/06/19 22:50	08/08/19 17:30	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	3570	1060	10	08/06/19 22:50	08/08/19 17:30	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	3570	493	10	08/06/19 22:50	08/08/19 17:30	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	3570	1050	10	08/06/19 22:50	08/08/19 17:30	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	3570	1600	10	08/06/19 22:50	08/08/19 17:30	120-83-2	ED
Diethylphthalate	ND	ug/kg	3570	1260	10	08/06/19 22:50	08/08/19 17:30	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	3570	1080	10	08/06/19 22:50	08/08/19 17:30	105-67-9	ED,L1
Dimethylphthalate	ND	ug/kg	3570	1100	10	08/06/19 22:50	08/08/19 17:30	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	3570	1200	10	08/06/19 22:50	08/08/19 17:30	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	8930	2660	10	08/06/19 22:50	08/08/19 17:30	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	8930	8030	10	08/06/19 22:50	08/08/19 17:30	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/kg	3570	1080	10	08/06/19 22:50	08/08/19 17:30	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	3570	1090	10	08/06/19 22:50	08/08/19 17:30	606-20-2	ED
Di-n-octylphthalate	ND	ug/kg	3570	811	10	08/06/19 22:50	08/08/19 17:30	117-84-0	CH,ED
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3570	1140	10	08/06/19 22:50	08/08/19 17:30	117-81-7	ED
Fluoranthene	17800	ug/kg	3570	1150	10	08/06/19 22:50	08/08/19 17:30	206-44-0	ED
Fluorene	ND	ug/kg	3570	1090	10	08/06/19 22:50	08/08/19 17:30	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	3570	1160	10	08/06/19 22:50	08/08/19 17:30	87-68-3	ED
Hexachlorobenzene	ND	ug/kg	3570	1030	10	08/06/19 22:50	08/08/19 17:30	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/kg	3570	845	10	08/06/19 22:50	08/08/19 17:30	77-47-4	ED
Hexachloroethane	ND	ug/kg	3570	964	10	08/06/19 22:50	08/08/19 17:30	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3570	1340	10	08/06/19 22:50	08/08/19 17:30	193-39-5	ED
Isophorone	ND	ug/kg	3570	1180	10	08/06/19 22:50	08/08/19 17:30	78-59-1	ED

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: **SB-07** Lab ID: **30317464004** Collected: 08/01/19 13:10 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
1-Methylnaphthalene	ND	ug/kg	3570	897	10	08/06/19 22:50	08/08/19 17:30	90-12-0	ED, L1
2-Methylnaphthalene	ND	ug/kg	3570	1070	10	08/06/19 22:50	08/08/19 17:30	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/kg	3570	1280	10	08/06/19 22:50	08/08/19 17:30	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	7140	2190	10	08/06/19 22:50	08/08/19 17:30		ED
Naphthalene	ND	ug/kg	3570	968	10	08/06/19 22:50	08/08/19 17:30	91-20-3	ED
2-Nitroaniline	ND	ug/kg	8930	1240	10	08/06/19 22:50	08/08/19 17:30	88-74-4	ED
3-Nitroaniline	ND	ug/kg	8930	2330	10	08/06/19 22:50	08/08/19 17:30	99-09-2	ED
4-Nitroaniline	ND	ug/kg	8930	5010	10	08/06/19 22:50	08/08/19 17:30	100-01-6	ED
Nitrobenzene	ND	ug/kg	3570	1320	10	08/06/19 22:50	08/08/19 17:30	98-95-3	ED
2-Nitrophenol	ND	ug/kg	3570	1420	10	08/06/19 22:50	08/08/19 17:30	88-75-5	ED
4-Nitrophenol	ND	ug/kg	3570	1200	10	08/06/19 22:50	08/08/19 17:30	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	3570	612	10	08/06/19 22:50	08/08/19 17:30	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/kg	3570	1510	10	08/06/19 22:50	08/08/19 17:30	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/kg	3570	805	10	08/06/19 22:50	08/08/19 17:30	86-30-6	ED
Pentachlorophenol	ND	ug/kg	8930	4700	10	08/06/19 22:50	08/08/19 17:30	87-86-5	ED
Phenanthrene	5160	ug/kg	3570	1570	10	08/06/19 22:50	08/08/19 17:30	85-01-8	ED
Phenol	ND	ug/kg	3570	1060	10	08/06/19 22:50	08/08/19 17:30	108-95-2	ED
Pyrene	18500	ug/kg	3570	1300	10	08/06/19 22:50	08/08/19 17:30	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	3570	966	10	08/06/19 22:50	08/08/19 17:30	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/kg	8930	1060	10	08/06/19 22:50	08/08/19 17:30	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	3570	933	10	08/06/19 22:50	08/08/19 17:30	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	67	%	45-103		10	08/06/19 22:50	08/08/19 17:30	4165-60-0	
2-Fluorobiphenyl (S)	78	%	52-102		10	08/06/19 22:50	08/08/19 17:30	321-60-8	
Terphenyl-d14 (S)	73	%	53-135		10	08/06/19 22:50	08/08/19 17:30	1718-51-0	
Phenol-d6 (S)	68	%	35-120		10	08/06/19 22:50	08/08/19 17:30	13127-88-3	
2-Fluorophenol (S)	69	%	10-147		10	08/06/19 22:50	08/08/19 17:30	367-12-4	
2,4,6-Tribromophenol (S)	61	%	10-160		10	08/06/19 22:50	08/08/19 17:30	118-79-6	
8260C MSV 5035 Low Level Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
Acetone	138	ug/kg	10.1	3.2	1	08/07/19 13:48	08/07/19 20:34	67-64-1	1c,2c
Benzene	ND	ug/kg	5.0	0.87	1	08/07/19 13:48	08/07/19 20:34	71-43-2	1c
Bromochloromethane	ND	ug/kg	5.0	1.1	1	08/07/19 13:48	08/07/19 20:34	74-97-5	1c,CL
Bromodichloromethane	ND	ug/kg	5.0	1.1	1	08/07/19 13:48	08/07/19 20:34	75-27-4	1c
Bromoform	ND	ug/kg	5.0	0.66	1	08/07/19 13:48	08/07/19 20:34	75-25-2	1c
Bromomethane	ND	ug/kg	5.0	1.9	1	08/07/19 13:48	08/07/19 20:34	74-83-9	1c,CL
TOTAL BTEX	ND	ug/kg	30.2	6.2	1	08/07/19 13:48	08/07/19 20:34		
2-Butanone (MEK)	ND	ug/kg	10.1	0.92	1	08/07/19 13:48	08/07/19 20:34	78-93-3	1c,2c
Carbon disulfide	ND	ug/kg	5.0	1.4	1	08/07/19 13:48	08/07/19 20:34	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	5.0	1.7	1	08/07/19 13:48	08/07/19 20:34	56-23-5	1c,CL
Chlorobenzene	ND	ug/kg	5.0	0.78	1	08/07/19 13:48	08/07/19 20:34	108-90-7	1c
Chloroethane	ND	ug/kg	5.0	2.1	1	08/07/19 13:48	08/07/19 20:34	75-00-3	1c
Chloroform	ND	ug/kg	5.0	1.5	1	08/07/19 13:48	08/07/19 20:34	67-66-3	1c
Chloromethane	ND	ug/kg	5.0	1.7	1	08/07/19 13:48	08/07/19 20:34	74-87-3	1c
Dibromochloromethane	ND	ug/kg	5.0	0.79	1	08/07/19 13:48	08/07/19 20:34	124-48-1	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-07 **Lab ID: 30317464004** Collected: 08/01/19 13:10 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
1,2-Dichlorobenzene	ND	ug/kg	5.0	0.59	1	08/07/19 13:48	08/07/19 20:34	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	5.0	0.65	1	08/07/19 13:48	08/07/19 20:34	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	5.0	0.71	1	08/07/19 13:48	08/07/19 20:34	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	5.0	1.3	1	08/07/19 13:48	08/07/19 20:34	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	5.0	1.3	1	08/07/19 13:48	08/07/19 20:34	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	10.1	2.4	1	08/07/19 13:48	08/07/19 20:34	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.0	1.9	1	08/07/19 13:48	08/07/19 20:34	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1.2	1	08/07/19 13:48	08/07/19 20:34	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1.3	1	08/07/19 13:48	08/07/19 20:34	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	5.0	0.72	1	08/07/19 13:48	08/07/19 20:34	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	5.0	0.50	1	08/07/19 13:48	08/07/19 20:34	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1.0	1	08/07/19 13:48	08/07/19 20:34	10061-02-6	1c
Ethylbenzene	ND	ug/kg	5.0	1.1	1	08/07/19 13:48	08/07/19 20:34	100-41-4	1c
2-Hexanone	ND	ug/kg	10.1	0.99	1	08/07/19 13:48	08/07/19 20:34	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1.2	1	08/07/19 13:48	08/07/19 20:34	98-82-8	1c
Methylene Chloride	ND	ug/kg	5.0	4.2	1	08/07/19 13:48	08/07/19 20:34	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.1	1.1	1	08/07/19 13:48	08/07/19 20:34	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	5.0	0.67	1	08/07/19 13:48	08/07/19 20:34	1634-04-4	1c
Naphthalene	ND	ug/kg	5.0	0.95	1	08/07/19 13:48	08/07/19 20:34	91-20-3	1c
Styrene	ND	ug/kg	5.0	1.4	1	08/07/19 13:48	08/07/19 20:34	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	0.59	1	08/07/19 13:48	08/07/19 20:34	79-34-5	1c
Tetrachloroethene	ND	ug/kg	5.0	1.7	1	08/07/19 13:48	08/07/19 20:34	127-18-4	1c
Toluene	ND	ug/kg	5.0	1.0	1	08/07/19 13:48	08/07/19 20:34	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1.3	1	08/07/19 13:48	08/07/19 20:34	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	5.0	1.5	1	08/07/19 13:48	08/07/19 20:34	71-55-6	1c,CL
1,1,2-Trichloroethane	ND	ug/kg	5.0	1.0	1	08/07/19 13:48	08/07/19 20:34	79-00-5	1c
Trichloroethene	ND	ug/kg	5.0	1.5	1	08/07/19 13:48	08/07/19 20:34	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	2.5	1	08/07/19 13:48	08/07/19 20:34	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	2.0	1	08/07/19 13:48	08/07/19 20:34	108-67-8	1c
Vinyl chloride	ND	ug/kg	5.0	2.2	1	08/07/19 13:48	08/07/19 20:34	75-01-4	1c
Xylene (Total)	ND	ug/kg	15.1	3.2	1	08/07/19 13:48	08/07/19 20:34	1330-20-7	
m&p-Xylene	ND	ug/kg	10.1	2.1	1	08/07/19 13:48	08/07/19 20:34	179601-23-1	1c
o-Xylene	ND	ug/kg	5.0	1.1	1	08/07/19 13:48	08/07/19 20:34	95-47-6	1c
Surrogates									
Toluene-d8 (S)	103	%	70-130		1	08/07/19 13:48	08/07/19 20:34	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1	08/07/19 13:48	08/07/19 20:34	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1	08/07/19 13:48	08/07/19 20:34	17060-07-0	
Dibromofluoromethane (S)	107	%	70-130		1	08/07/19 13:48	08/07/19 20:34	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **8.3** % 0.10 0.10 1 08/08/19 15:47

9014 Cyanide, Total

Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C

Cyanide **4.2** mg/kg 0.91 0.23 1 08/05/19 14:19 08/08/19 17:27 57-12-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-02 **Lab ID: 30317464005** Collected: 08/01/19 13:50 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	18.5	11.4	1	08/05/19 08:14	08/07/19 00:46	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	18.5	16.4	1	08/05/19 08:14	08/07/19 00:46	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	18.5	16.8	1	08/05/19 08:14	08/07/19 00:46	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	18.5	13.5	1	08/05/19 08:14	08/07/19 00:46	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	18.5	10.6	1	08/05/19 08:14	08/07/19 00:46	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	18.5	9.8	1	08/05/19 08:14	08/07/19 00:46	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	18.5	10.5	1	08/05/19 08:14	08/07/19 00:46	11096-82-5	
PCB, Total	ND	ug/kg	166	104	1	08/05/19 08:14	08/07/19 00:46	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	86	%	34-114		1	08/05/19 08:14	08/07/19 00:46	877-09-8	
Decachlorobiphenyl (S)	93	%	38-139		1	08/05/19 08:14	08/07/19 00:46	2051-24-3	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	9300	mg/kg	10.1	2.5	1	08/06/19 07:49	08/09/19 07:16	7429-90-5	
Antimony	ND	mg/kg	0.61	0.49	1	08/06/19 07:49	08/09/19 07:16	7440-36-0	
Arsenic	6.6	mg/kg	0.51	0.49	1	08/06/19 07:49	08/09/19 07:16	7440-38-2	
Barium	62.2	mg/kg	2.0	0.095	1	08/06/19 07:49	08/09/19 07:16	7440-39-3	
Beryllium	0.46	mg/kg	0.20	0.031	1	08/06/19 07:49	08/09/19 07:16	7440-41-7	
Boron	ND	mg/kg	5.1	0.18	1	08/06/19 07:49	08/09/19 07:16	7440-42-8	
Cadmium	ND	mg/kg	0.30	0.061	1	08/06/19 07:49	08/09/19 07:16	7440-43-9	
Calcium	1300	mg/kg	202	4.9	1	08/06/19 07:49	08/09/19 07:16	7440-70-2	
Chromium	14.6	mg/kg	0.51	0.093	1	08/06/19 07:49	08/09/19 07:16	7440-47-3	
Cobalt	9.0	mg/kg	1.0	0.11	1	08/06/19 07:49	08/09/19 07:16	7440-48-4	
Copper	25.8	mg/kg	1.0	0.59	1	08/06/19 07:49	08/09/19 07:16	7440-50-8	
Iron	20500	mg/kg	10.1	1.2	1	08/06/19 07:49	08/09/19 07:16	7439-89-6	
Lead	10.6	mg/kg	0.51	0.50	1	08/06/19 07:49	08/09/19 07:16	7439-92-1	
Magnesium	4100	mg/kg	50.6	5.9	1	08/06/19 07:49	08/09/19 07:16	7439-95-4	
Manganese	491	mg/kg	1.0	0.10	1	08/06/19 07:49	08/09/19 07:16	7439-96-5	
Molybdenum	ND	mg/kg	2.0	0.14	1	08/06/19 07:49	08/09/19 07:16	7439-98-7	
Nickel	18.4	mg/kg	2.0	0.25	1	08/06/19 07:49	08/09/19 07:16	7440-02-0	
Potassium	1490	mg/kg	50.6	46.6	1	08/06/19 07:49	08/09/19 07:16	7440-09-7	
Selenium	ND	mg/kg	0.81	0.59	1	08/06/19 07:49	08/09/19 07:16	7782-49-2	
Silver	ND	mg/kg	0.61	0.098	1	08/06/19 07:49	08/09/19 07:16	7440-22-4	
Sodium	ND	mg/kg	506	36.9	1	08/06/19 07:49	08/09/19 07:16	7440-23-5	
Thallium	ND	mg/kg	2.0	0.62	1	08/06/19 07:49	08/09/19 07:16	7440-28-0	
Vanadium	16.6	mg/kg	1.0	0.082	1	08/06/19 07:49	08/09/19 07:16	7440-62-2	
Zinc	63.8	mg/kg	1.0	0.17	1	08/06/19 07:49	08/09/19 07:16	7440-66-6	B
7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.10	0.0051	1	08/05/19 10:01	08/05/19 18:24	7439-97-6	
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	375	127	1	08/06/19 22:50	08/08/19 17:53	83-32-9	
Acenaphthylene	ND	ug/kg	375	113	1	08/06/19 22:50	08/08/19 17:53	208-96-8	
Anthracene	ND	ug/kg	375	86.2	1	08/06/19 22:50	08/08/19 17:53	120-12-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-02 Lab ID: **30317464005** Collected: 08/01/19 13:50 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Azobenzene	ND	ug/kg	375	132	1	08/06/19 22:50	08/08/19 17:53	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	375	168	1	08/06/19 22:50	08/08/19 17:53	56-55-3	
Benzo(a)pyrene	ND	ug/kg	375	117	1	08/06/19 22:50	08/08/19 17:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	375	114	1	08/06/19 22:50	08/08/19 17:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	375	130	1	08/06/19 22:50	08/08/19 17:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	375	166	1	08/06/19 22:50	08/08/19 17:53	207-08-9	
Benzoic acid	ND	ug/kg	5630	1900	1	08/06/19 22:50	08/08/19 17:53	65-85-0	
Benzyl alcohol	ND	ug/kg	375	332	1	08/06/19 22:50	08/08/19 17:53	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	375	138	1	08/06/19 22:50	08/08/19 17:53	101-55-3	
Butylbenzylphthalate	ND	ug/kg	375	105	1	08/06/19 22:50	08/08/19 17:53	85-68-7	
Carbazole	ND	ug/kg	375	147	1	08/06/19 22:50	08/08/19 17:53	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	375	60.4	1	08/06/19 22:50	08/08/19 17:53	59-50-7	
4-Chloroaniline	ND	ug/kg	375	66.0	1	08/06/19 22:50	08/08/19 17:53	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	375	148	1	08/06/19 22:50	08/08/19 17:53	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	375	68.5	1	08/06/19 22:50	08/08/19 17:53	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	375	318	1	08/06/19 22:50	08/08/19 17:53	108-60-1	
2-Chloronaphthalene	ND	ug/kg	375	107	1	08/06/19 22:50	08/08/19 17:53	91-58-7	
2-Chlorophenol	ND	ug/kg	375	117	1	08/06/19 22:50	08/08/19 17:53	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	375	108	1	08/06/19 22:50	08/08/19 17:53	7005-72-3	
Chrysene	ND	ug/kg	375	139	1	08/06/19 22:50	08/08/19 17:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	375	143	1	08/06/19 22:50	08/08/19 17:53	53-70-3	
Dibenzofuran	ND	ug/kg	375	120	1	08/06/19 22:50	08/08/19 17:53	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	375	117	1	08/06/19 22:50	08/08/19 17:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	375	111	1	08/06/19 22:50	08/08/19 17:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	375	51.8	1	08/06/19 22:50	08/08/19 17:53	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	375	110	1	08/06/19 22:50	08/08/19 17:53	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	375	168	1	08/06/19 22:50	08/08/19 17:53	120-83-2	
Diethylphthalate	ND	ug/kg	375	132	1	08/06/19 22:50	08/08/19 17:53	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	375	114	1	08/06/19 22:50	08/08/19 17:53	105-67-9	L1
Dimethylphthalate	ND	ug/kg	375	116	1	08/06/19 22:50	08/08/19 17:53	131-11-3	
Di-n-butylphthalate	ND	ug/kg	375	126	1	08/06/19 22:50	08/08/19 17:53	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	938	279	1	08/06/19 22:50	08/08/19 17:53	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	938	843	1	08/06/19 22:50	08/08/19 17:53	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	375	114	1	08/06/19 22:50	08/08/19 17:53	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	375	114	1	08/06/19 22:50	08/08/19 17:53	606-20-2	
Di-n-octylphthalate	ND	ug/kg	375	85.1	1	08/06/19 22:50	08/08/19 17:53	117-84-0	CH
bis(2-Ethylhexyl)phthalate	ND	ug/kg	375	120	1	08/06/19 22:50	08/08/19 17:53	117-81-7	
Fluoranthene	ND	ug/kg	375	121	1	08/06/19 22:50	08/08/19 17:53	206-44-0	
Fluorene	ND	ug/kg	375	115	1	08/06/19 22:50	08/08/19 17:53	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	375	122	1	08/06/19 22:50	08/08/19 17:53	87-68-3	
Hexachlorobenzene	ND	ug/kg	375	108	1	08/06/19 22:50	08/08/19 17:53	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	375	88.8	1	08/06/19 22:50	08/08/19 17:53	77-47-4	
Hexachloroethane	ND	ug/kg	375	101	1	08/06/19 22:50	08/08/19 17:53	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	375	141	1	08/06/19 22:50	08/08/19 17:53	193-39-5	
Isophorone	ND	ug/kg	375	123	1	08/06/19 22:50	08/08/19 17:53	78-59-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: **SB-02** Lab ID: **30317464005** Collected: 08/01/19 13:50 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
1-Methylnaphthalene	ND	ug/kg	375	94.3	1	08/06/19 22:50	08/08/19 17:53	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	375	113	1	08/06/19 22:50	08/08/19 17:53	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	375	135	1	08/06/19 22:50	08/08/19 17:53	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	750	230	1	08/06/19 22:50	08/08/19 17:53		
Naphthalene	ND	ug/kg	375	102	1	08/06/19 22:50	08/08/19 17:53	91-20-3	
2-Nitroaniline	ND	ug/kg	938	130	1	08/06/19 22:50	08/08/19 17:53	88-74-4	
3-Nitroaniline	ND	ug/kg	938	245	1	08/06/19 22:50	08/08/19 17:53	99-09-2	
4-Nitroaniline	ND	ug/kg	938	527	1	08/06/19 22:50	08/08/19 17:53	100-01-6	
Nitrobenzene	ND	ug/kg	375	139	1	08/06/19 22:50	08/08/19 17:53	98-95-3	
2-Nitrophenol	ND	ug/kg	375	149	1	08/06/19 22:50	08/08/19 17:53	88-75-5	
4-Nitrophenol	ND	ug/kg	375	126	1	08/06/19 22:50	08/08/19 17:53	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	375	64.3	1	08/06/19 22:50	08/08/19 17:53	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	375	159	1	08/06/19 22:50	08/08/19 17:53	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	375	84.6	1	08/06/19 22:50	08/08/19 17:53	86-30-6	
Pentachlorophenol	ND	ug/kg	938	494	1	08/06/19 22:50	08/08/19 17:53	87-86-5	
Phenanthrene	ND	ug/kg	375	165	1	08/06/19 22:50	08/08/19 17:53	85-01-8	
Phenol	ND	ug/kg	375	111	1	08/06/19 22:50	08/08/19 17:53	108-95-2	
Pyrene	ND	ug/kg	375	137	1	08/06/19 22:50	08/08/19 17:53	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	375	101	1	08/06/19 22:50	08/08/19 17:53	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	938	111	1	08/06/19 22:50	08/08/19 17:53	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	375	98.0	1	08/06/19 22:50	08/08/19 17:53	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	76	%	45-103		1	08/06/19 22:50	08/08/19 17:53	4165-60-0	
2-Fluorobiphenyl (S)	85	%	52-102		1	08/06/19 22:50	08/08/19 17:53	321-60-8	
Terphenyl-d14 (S)	83	%	53-135		1	08/06/19 22:50	08/08/19 17:53	1718-51-0	
Phenol-d6 (S)	86	%	35-120		1	08/06/19 22:50	08/08/19 17:53	13127-88-3	
2-Fluorophenol (S)	73	%	10-147		1	08/06/19 22:50	08/08/19 17:53	367-12-4	
2,4,6-Tribromophenol (S)	80	%	10-160		1	08/06/19 22:50	08/08/19 17:53	118-79-6	
8260C MSV 5035 Low Level Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
Acetone	13.6	ug/kg	8.6	2.7	1	08/07/19 13:48	08/07/19 21:02	67-64-1	1c,2c
Benzene	ND	ug/kg	4.3	0.75	1	08/07/19 13:48	08/07/19 21:02	71-43-2	1c
Bromochloromethane	ND	ug/kg	4.3	0.94	1	08/07/19 13:48	08/07/19 21:02	74-97-5	1c,CL
Bromodichloromethane	ND	ug/kg	4.3	0.94	1	08/07/19 13:48	08/07/19 21:02	75-27-4	1c
Bromoform	ND	ug/kg	4.3	0.57	1	08/07/19 13:48	08/07/19 21:02	75-25-2	1c
Bromomethane	ND	ug/kg	4.3	1.6	1	08/07/19 13:48	08/07/19 21:02	74-83-9	1c,CL
TOTAL BTEX	ND	ug/kg	25.8	5.3	1	08/07/19 13:48	08/07/19 21:02		
2-Butanone (MEK)	ND	ug/kg	8.6	0.78	1	08/07/19 13:48	08/07/19 21:02	78-93-3	1c,2c
Carbon disulfide	ND	ug/kg	4.3	1.2	1	08/07/19 13:48	08/07/19 21:02	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	4.3	1.5	1	08/07/19 13:48	08/07/19 21:02	56-23-5	1c,CL
Chlorobenzene	ND	ug/kg	4.3	0.67	1	08/07/19 13:48	08/07/19 21:02	108-90-7	1c
Chloroethane	ND	ug/kg	4.3	1.8	1	08/07/19 13:48	08/07/19 21:02	75-00-3	1c
Chloroform	ND	ug/kg	4.3	1.3	1	08/07/19 13:48	08/07/19 21:02	67-66-3	1c
Chloromethane	ND	ug/kg	4.3	1.5	1	08/07/19 13:48	08/07/19 21:02	74-87-3	1c
Dibromochloromethane	ND	ug/kg	4.3	0.68	1	08/07/19 13:48	08/07/19 21:02	124-48-1	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SB
Pace Project No.: 30317464

Sample: SB-02 **Lab ID: 30317464005** Collected: 08/01/19 13:50 Received: 08/02/19 09:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
1,2-Dichlorobenzene	ND	ug/kg	4.3	0.51	1	08/07/19 13:48	08/07/19 21:02	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	4.3	0.56	1	08/07/19 13:48	08/07/19 21:02	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	4.3	0.61	1	08/07/19 13:48	08/07/19 21:02	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	4.3	1.1	1	08/07/19 13:48	08/07/19 21:02	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	4.3	1.1	1	08/07/19 13:48	08/07/19 21:02	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	8.6	2.1	1	08/07/19 13:48	08/07/19 21:02	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.3	1.6	1	08/07/19 13:48	08/07/19 21:02	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1.0	1	08/07/19 13:48	08/07/19 21:02	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1.1	1	08/07/19 13:48	08/07/19 21:02	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	4.3	0.62	1	08/07/19 13:48	08/07/19 21:02	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	4.3	0.43	1	08/07/19 13:48	08/07/19 21:02	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	4.3	0.90	1	08/07/19 13:48	08/07/19 21:02	10061-02-6	1c
Ethylbenzene	ND	ug/kg	4.3	0.93	1	08/07/19 13:48	08/07/19 21:02	100-41-4	1c
2-Hexanone	ND	ug/kg	8.6	0.84	1	08/07/19 13:48	08/07/19 21:02	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1.0	1	08/07/19 13:48	08/07/19 21:02	98-82-8	1c
Methylene Chloride	ND	ug/kg	4.3	3.6	1	08/07/19 13:48	08/07/19 21:02	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.6	0.96	1	08/07/19 13:48	08/07/19 21:02	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	4.3	0.58	1	08/07/19 13:48	08/07/19 21:02	1634-04-4	1c
Naphthalene	ND	ug/kg	4.3	0.81	1	08/07/19 13:48	08/07/19 21:02	91-20-3	1c
Styrene	ND	ug/kg	4.3	1.2	1	08/07/19 13:48	08/07/19 21:02	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	0.51	1	08/07/19 13:48	08/07/19 21:02	79-34-5	1c
Tetrachloroethene	ND	ug/kg	4.3	1.5	1	08/07/19 13:48	08/07/19 21:02	127-18-4	1c
Toluene	ND	ug/kg	4.3	0.85	1	08/07/19 13:48	08/07/19 21:02	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1.1	1	08/07/19 13:48	08/07/19 21:02	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	4.3	1.3	1	08/07/19 13:48	08/07/19 21:02	71-55-6	1c,CL
1,1,2-Trichloroethane	ND	ug/kg	4.3	0.85	1	08/07/19 13:48	08/07/19 21:02	79-00-5	1c
Trichloroethene	ND	ug/kg	4.3	1.3	1	08/07/19 13:48	08/07/19 21:02	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	2.1	1	08/07/19 13:48	08/07/19 21:02	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1.7	1	08/07/19 13:48	08/07/19 21:02	108-67-8	1c
Vinyl chloride	ND	ug/kg	4.3	1.9	1	08/07/19 13:48	08/07/19 21:02	75-01-4	1c
Xylene (Total)	ND	ug/kg	12.9	2.7	1	08/07/19 13:48	08/07/19 21:02	1330-20-7	
m&p-Xylene	ND	ug/kg	8.6	1.8	1	08/07/19 13:48	08/07/19 21:02	179601-23-1	1c
o-Xylene	ND	ug/kg	4.3	0.92	1	08/07/19 13:48	08/07/19 21:02	95-47-6	1c
Surrogates									
Toluene-d8 (S)	106	%	70-130		1	08/07/19 13:48	08/07/19 21:02	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1	08/07/19 13:48	08/07/19 21:02	460-00-4	
1,2-Dichloroethane-d4 (S)	124	%	70-130		1	08/07/19 13:48	08/07/19 21:02	17060-07-0	
Dibromofluoromethane (S)	99	%	70-130		1	08/07/19 13:48	08/07/19 21:02	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **11.8** % 0.10 0.10 1 08/08/19 15:47

9014 Cyanide, Total

Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C

Cyanide **4.2** mg/kg 1.1 0.29 1 08/05/19 14:19 08/08/19 17:28 57-12-5

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

QC Batch: 355055 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury
Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

METHOD BLANK: 1724982 Matrix: Solid
Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.10	0.0049	08/05/19 17:55	

LABORATORY CONTROL SAMPLE: 1724983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.2	0.20	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1724984 1724985

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30317704001 Result	Spike Conc.	Spike Conc.	Conc.								
Mercury	mg/kg	ND	0.61	0.61	0.64	0.62	103	98	80-120	4	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

QC Batch: 355262 Analysis Method: EPA 6010C
QC Batch Method: EPA 3050B Analysis Description: 6010C MET
Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

METHOD BLANK: 1725588 Matrix: Solid
Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/kg	ND	9.8	2.5	08/09/19 06:46	
Antimony	mg/kg	ND	0.59	0.47	08/09/19 06:46	
Arsenic	mg/kg	ND	0.49	0.47	08/09/19 06:46	
Barium	mg/kg	ND	2.0	0.092	08/09/19 06:46	
Beryllium	mg/kg	ND	0.20	0.030	08/09/19 06:46	
Boron	mg/kg	ND	4.9	0.17	08/09/19 06:46	
Cadmium	mg/kg	ND	0.29	0.060	08/09/19 06:46	
Calcium	mg/kg	ND	196	4.8	08/09/19 06:46	
Chromium	mg/kg	ND	0.49	0.090	08/09/19 06:46	
Cobalt	mg/kg	ND	0.98	0.10	08/09/19 06:46	
Copper	mg/kg	ND	0.98	0.57	08/09/19 06:46	
Iron	mg/kg	ND	9.8	1.1	08/09/19 06:46	
Lead	mg/kg	ND	0.49	0.48	08/09/19 06:46	
Magnesium	mg/kg	ND	49.0	5.7	08/09/19 06:46	
Manganese	mg/kg	ND	0.98	0.098	08/09/19 06:46	
Molybdenum	mg/kg	ND	2.0	0.14	08/09/19 06:46	
Nickel	mg/kg	ND	2.0	0.24	08/09/19 06:46	
Potassium	mg/kg	ND	49.0	45.2	08/09/19 06:46	
Selenium	mg/kg	ND	0.78	0.57	08/09/19 06:46	
Silver	mg/kg	ND	0.59	0.095	08/09/19 06:46	
Sodium	mg/kg	ND	490	35.7	08/09/19 06:46	
Thallium	mg/kg	ND	2.0	0.60	08/09/19 06:46	
Vanadium	mg/kg	ND	0.98	0.080	08/09/19 06:46	
Zinc	mg/kg	ND	0.98	0.16	08/09/19 06:46	B

LABORATORY CONTROL SAMPLE: 1725589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	490	518	106	80-120	
Antimony	mg/kg	49	51.3	105	80-120	
Arsenic	mg/kg	49	48.7	99	80-120	
Barium	mg/kg	49	52.2	106	80-120	
Beryllium	mg/kg	49	52.5	107	80-120	
Boron	mg/kg	49	48.2	98	80-120	
Cadmium	mg/kg	49	51.1	104	80-120	
Calcium	mg/kg	490	532	109	80-120	
Chromium	mg/kg	49	53.0	108	80-120	
Cobalt	mg/kg	49	50.2	102	80-120	
Copper	mg/kg	49	51.9	106	80-120	
Iron	mg/kg	490	527	107	80-120	

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

LABORATORY CONTROL SAMPLE: 1725589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49	52.4	107	80-120	
Magnesium	mg/kg	490	525	107	80-120	
Manganese	mg/kg	49	52.6	107	80-120	
Molybdenum	mg/kg	49	52.7	108	80-120	
Nickel	mg/kg	49	52.9	108	80-120	
Potassium	mg/kg	490	524	107	80-120	
Selenium	mg/kg	49	48.9	100	80-120	
Silver	mg/kg	24.5	25.8	105	80-120	
Sodium	mg/kg	490	485J	99	80-120	
Thallium	mg/kg	49	49.4	101	80-120	
Vanadium	mg/kg	49	53.1	108	80-120	
Zinc	mg/kg	49	52.5	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725590 1725591

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		30317464001 Result	Spike Conc.	Spike Conc.	Result							Result
Aluminum	mg/kg	12200	591	591	14300	14100	352	314	75-125	2	20	MH
Antimony	mg/kg	ND	59.1	59.1	26.0	25.7	44	43	75-125	1	20	ML
Arsenic	mg/kg	4.8	59.1	59.1	55.7	56.0	86	86	75-125	1	20	
Barium	mg/kg	38.6	59.1	59.1	106	105	114	113	75-125	0	20	
Beryllium	mg/kg	0.52	59.1	59.1	56.9	56.7	95	95	75-125	0	20	
Boron	mg/kg	ND	59.1	59.1	55.3	56.3	88	90	75-125	2	20	
Cadmium	mg/kg	ND	59.1	59.1	54.7	54.9	92	93	75-125	0	20	
Calcium	mg/kg	909	591	591	1490	1520	98	103	75-125	2	20	
Chromium	mg/kg	11.3	59.1	59.1	68.4	68.5	97	97	75-125	0	20	
Cobalt	mg/kg	7.1	59.1	59.1	67.1	67.6	101	102	75-125	1	20	
Copper	mg/kg	15.7	59.1	59.1	69.7	69.7	91	91	75-125	0	20	
Iron	mg/kg	18900	591	591	19300	19300	70	58	75-125	0	20	ML
Lead	mg/kg	7.6	59.1	59.1	69.7	70.2	105	106	75-125	1	20	
Magnesium	mg/kg	3180	591	591	3990	4050	137	148	75-125	2	20	MH
Manganese	mg/kg	307	59.1	59.1	387	387	135	134	75-125	0	20	MH
Molybdenum	mg/kg	ND	59.1	59.1	63.6	64.8	107	109	75-125	2	20	
Nickel	mg/kg	14.0	59.1	59.1	68.9	69.0	93	93	75-125	0	20	
Potassium	mg/kg	1240	591	591	2310	2320	181	184	75-125	1	20	MH
Selenium	mg/kg	ND	59.1	59.1	51.0	51.6	86	87	75-125	1	20	
Silver	mg/kg	ND	29.6	29.6	27.9	28.2	94	95	75-125	1	20	
Sodium	mg/kg	ND	591	591	676	674	100	99	75-125	0	20	
Thallium	mg/kg	ND	59.1	59.1	57.6	57.5	97	97	75-125	0	20	
Vanadium	mg/kg	20.5	59.1	59.1	80.3	79.3	101	99	75-125	1	20	
Zinc	mg/kg	41.7	59.1	59.1	93.5	93.5	87	87	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

QC Batch: 355572 Analysis Method: EPA 8260C
QC Batch Method: EPA 5035A Analysis Description: 8260C MSV 5035 Low
Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

METHOD BLANK: 1726960 Matrix: Solid
Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	1.5	08/07/19 11:17	CL
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	0.59	08/07/19 11:17	
1,1,2-Trichloroethane	ug/kg	ND	5.0	0.99	08/07/19 11:17	
1,1-Dichloroethane	ug/kg	ND	5.0	1.3	08/07/19 11:17	
1,1-Dichloroethene	ug/kg	ND	5.0	1.9	08/07/19 11:17	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	1.3	08/07/19 11:17	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	2.4	08/07/19 11:17	
1,2-Dichlorobenzene	ug/kg	ND	5.0	0.59	08/07/19 11:17	
1,2-Dichloroethane	ug/kg	ND	5.0	1.3	08/07/19 11:17	
1,2-Dichloroethene (Total)	ug/kg	ND	10.0	2.4	08/07/19 11:17	
1,2-Dichloropropane	ug/kg	ND	5.0	0.72	08/07/19 11:17	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	2.0	08/07/19 11:17	
1,3-Dichlorobenzene	ug/kg	ND	5.0	0.65	08/07/19 11:17	
1,4-Dichlorobenzene	ug/kg	ND	5.0	0.71	08/07/19 11:17	
2-Butanone (MEK)	ug/kg	ND	10.0	0.91	08/07/19 11:17	2c
2-Hexanone	ug/kg	ND	10.0	0.98	08/07/19 11:17	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	1.1	08/07/19 11:17	
Acetone	ug/kg	ND	10.0	3.2	08/07/19 11:17	2c
Benzene	ug/kg	ND	5.0	0.87	08/07/19 11:17	
Bromochloromethane	ug/kg	ND	5.0	1.1	08/07/19 11:17	CL
Bromodichloromethane	ug/kg	ND	5.0	1.1	08/07/19 11:17	
Bromoform	ug/kg	ND	5.0	0.66	08/07/19 11:17	
Bromomethane	ug/kg	ND	5.0	1.9	08/07/19 11:17	CL
Carbon disulfide	ug/kg	ND	5.0	1.4	08/07/19 11:17	
Carbon tetrachloride	ug/kg	ND	5.0	1.7	08/07/19 11:17	CL
Chlorobenzene	ug/kg	ND	5.0	0.78	08/07/19 11:17	
Chloroethane	ug/kg	ND	5.0	2.1	08/07/19 11:17	
Chloroform	ug/kg	ND	5.0	1.5	08/07/19 11:17	
Chloromethane	ug/kg	ND	5.0	1.7	08/07/19 11:17	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	1.2	08/07/19 11:17	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	0.50	08/07/19 11:17	
Dibromochloromethane	ug/kg	ND	5.0	0.79	08/07/19 11:17	
Ethylbenzene	ug/kg	ND	5.0	1.1	08/07/19 11:17	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	1.2	08/07/19 11:17	
m&p-Xylene	ug/kg	ND	10.0	2.1	08/07/19 11:17	
Methyl-tert-butyl ether	ug/kg	ND	5.0	0.67	08/07/19 11:17	
Methylene Chloride	ug/kg	ND	5.0	4.2	08/07/19 11:17	
Naphthalene	ug/kg	ND	5.0	0.94	08/07/19 11:17	
o-Xylene	ug/kg	ND	5.0	1.1	08/07/19 11:17	
Styrene	ug/kg	ND	5.0	1.4	08/07/19 11:17	
Tetrachloroethene	ug/kg	ND	5.0	1.7	08/07/19 11:17	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

METHOD BLANK: 1726960

Matrix: Solid

Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/kg	ND	5.0	0.99	08/07/19 11:17	
TOTAL BTEX	ug/kg	ND	30.0	6.1	08/07/19 11:17	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	1.3	08/07/19 11:17	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	1.0	08/07/19 11:17	
Trichloroethene	ug/kg	ND	5.0	1.5	08/07/19 11:17	
Vinyl chloride	ug/kg	ND	5.0	2.2	08/07/19 11:17	
Xylene (Total)	ug/kg	ND	15.0	3.2	08/07/19 11:17	
1,2-Dichloroethane-d4 (S)	%	105	70-130		08/07/19 11:17	
4-Bromofluorobenzene (S)	%	95	70-130		08/07/19 11:17	
Dibromofluoromethane (S)	%	95	70-130		08/07/19 11:17	
Toluene-d8 (S)	%	98	70-130		08/07/19 11:17	

LABORATORY CONTROL SAMPLE: 1726961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	17.0	85	62-113	CL
1,1,2,2-Tetrachloroethane	ug/kg	20	20.2	101	70-130	
1,1,2-Trichloroethane	ug/kg	20	20.1	100	70-130	
1,1-Dichloroethane	ug/kg	20	17.8	89	63-110	
1,1-Dichloroethene	ug/kg	20	17.0	85	45-124	
1,2,4-Trichlorobenzene	ug/kg	20	22.1	110	70-130	
1,2,4-Trimethylbenzene	ug/kg	20	20.9	105	70-130	
1,2-Dichlorobenzene	ug/kg	20	20.9	104	70-130	
1,2-Dichloroethane	ug/kg	20	18.0	90	57-110	
1,2-Dichloroethene (Total)	ug/kg	40	35.2	88	62-108	
1,2-Dichloropropane	ug/kg	20	16.7	84	62-111	
1,3,5-Trimethylbenzene	ug/kg	20	21.0	105	70-130	
1,3-Dichlorobenzene	ug/kg	20	21.1	105	70-130	
1,4-Dichlorobenzene	ug/kg	20	21.0	105	70-130	
2-Butanone (MEK)	ug/kg	20	16.6	83	46-117	2c
2-Hexanone	ug/kg	20	19.7	98	58-115	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	17.7	89	40-136	
Acetone	ug/kg	20	22.5	112	36-163	2c
Benzene	ug/kg	20	19.3	96	63-110	
Bromochloromethane	ug/kg	20	17.8	89	67-114	CL
Bromodichloromethane	ug/kg	20	17.0	85	68-119	
Bromoform	ug/kg	20	18.0	90	63-107	
Bromomethane	ug/kg	20	18.7	93	12-166	CL
Carbon disulfide	ug/kg	20	20.2	101	52-106	
Carbon tetrachloride	ug/kg	20	18.2	91	59-114	CL
Chlorobenzene	ug/kg	20	20.8	104	70-130	
Chloroethane	ug/kg	20	19.6	98	56-160	
Chloroform	ug/kg	20	19.1	95	65-108	
Chloromethane	ug/kg	20	24.3	121	33-148	

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

LABORATORY CONTROL SAMPLE: 1726961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/kg	20	17.2	86	61-107	
cis-1,3-Dichloropropene	ug/kg	20	17.3	87	62-106	
Dibromochloromethane	ug/kg	20	19.9	99	67-108	
Ethylbenzene	ug/kg	20	20.4	102	68-109	
Isopropylbenzene (Cumene)	ug/kg	20	20.9	104	70-130	
m&p-Xylene	ug/kg	40	42.0	105	70-130	
Methyl-tert-butyl ether	ug/kg	20	19.2	96	62-101	
Methylene Chloride	ug/kg	20	21.5	108	42-135	
Naphthalene	ug/kg	20	19.9	100	70-130	
o-Xylene	ug/kg	20	20.8	104	70-130	
Styrene	ug/kg	20	20.5	102	70-130	
Tetrachloroethene	ug/kg	20	20.2	101	64-114	
Toluene	ug/kg	20	18.6	93	68-108	
TOTAL BTEX	ug/kg	120	121	101	70-130	
trans-1,2-Dichloroethene	ug/kg	20	18.0	90	61-108	
trans-1,3-Dichloropropene	ug/kg	20	20.4	102	64-102	
Trichloroethene	ug/kg	20	20.4	102	61-112	
Vinyl chloride	ug/kg	20	23.4	117	54-142	
Xylene (Total)	ug/kg	60	62.8	105	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

QC Batch: 354928 Analysis Method: EPA 8081B
QC Batch Method: EPA 3546 Analysis Description: 8081 GCS Pesticides
Associated Lab Samples: 30317464002, 30317464003

METHOD BLANK: 1724101 Matrix: Solid
Associated Lab Samples: 30317464002, 30317464003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	ug/kg	ND	3.3	1.1	08/08/19 14:21	
4,4'-DDE	ug/kg	ND	3.3	0.59	08/08/19 14:21	
4,4'-DDT	ug/kg	ND	3.3	0.88	08/08/19 14:21	
Aldrin	ug/kg	ND	1.7	0.30	08/08/19 14:21	
alpha-BHC	ug/kg	ND	1.7	0.33	08/08/19 14:21	
alpha-Chlordane	ug/kg	ND	1.7	0.18	08/08/19 14:21	
beta-BHC	ug/kg	ND	1.7	1.2	08/08/19 14:21	
delta-BHC	ug/kg	ND	1.7	1.6	08/08/19 14:21	
Dieldrin	ug/kg	ND	3.3	0.35	08/08/19 14:21	
Endosulfan I	ug/kg	ND	1.7	0.21	08/08/19 14:21	
Endosulfan II	ug/kg	ND	3.3	0.48	08/08/19 14:21	
Endosulfan sulfate	ug/kg	ND	3.3	0.30	08/08/19 14:21	
Endrin	ug/kg	ND	3.3	0.53	08/08/19 14:21	
Endrin aldehyde	ug/kg	ND	3.3	0.79	08/08/19 14:21	
Endrin ketone	ug/kg	ND	3.3	0.31	08/08/19 14:21	
gamma-BHC (Lindane)	ug/kg	ND	1.7	0.44	08/08/19 14:21	
gamma-Chlordane	ug/kg	ND	1.7	0.43	08/08/19 14:21	
Heptachlor	ug/kg	ND	1.7	0.20	08/08/19 14:21	
Heptachlor epoxide	ug/kg	ND	1.7	0.47	08/08/19 14:21	
Methoxychlor	ug/kg	ND	16.7	1.6	08/08/19 14:21	
Toxaphene	ug/kg	ND	16.7	5.5	08/08/19 14:21	
Decachlorobiphenyl (S)	%	101	50-96		08/08/19 14:21	E,ST
Tetrachloro-m-xylene (S)	%	90	51-88		08/08/19 14:21	ST

LABORATORY CONTROL SAMPLE: 1724102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/kg	26.3	19.0	72	57-112	
4,4'-DDE	ug/kg	26.3	26.5	101	68-105	
4,4'-DDT	ug/kg	26.3	26.3	100	63-109	
Aldrin	ug/kg	13.1	11.9	90	59-100	
alpha-BHC	ug/kg	13.1	12.5	95	61-98	
alpha-Chlordane	ug/kg	13.1	13.0	99	63-102	
beta-BHC	ug/kg	13.1	12.9	98	58-102	
delta-BHC	ug/kg	13.1	13.3	102	53-116	
Dieldrin	ug/kg	26.3	25.1	96	63-107	
Endosulfan I	ug/kg	13.1	11.4	87	57-100	
Endosulfan II	ug/kg	26.3	23.5	89	63-103	
Endosulfan sulfate	ug/kg	26.3	27.6	105	59-113	
Endrin	ug/kg	26.3	24.7	94	60-107	

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

LABORATORY CONTROL SAMPLE: 1724102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin aldehyde	ug/kg	26.3	21.2	80	51-115	
Endrin ketone	ug/kg	26.3	32.3	123	59-119	L1
gamma-BHC (Lindane)	ug/kg	13.1	12.8	97	61-100	
gamma-Chlordane	ug/kg	13.1	12.7	97	62-101	
Heptachlor	ug/kg	13.1	12.3	94	63-99	
Heptachlor epoxide	ug/kg	13.1	12.3	94	62-99	
Methoxychlor	ug/kg	131	131	100	56-114	
Decachlorobiphenyl (S)	%			102	50-96	E,ST
Tetrachloro-m-xylene (S)	%			90	51-88	ST

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1724103 1724104

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30317042001 Result	Spike Conc.	Spike Conc.	MS Result						
4,4'-DDD	ug/kg	ND	29.3	29	16.5	17.8	56	61	38-111	8	25
4,4'-DDE	ug/kg	ND	29.3	29	28.9	28.5	98	98	24-129	1	25
4,4'-DDT	ug/kg	ND	29.3	29	30.1	30.7	101	104	13-138	2	25
Aldrin	ug/kg	ND	14.6	14.4	13.4	13.6	90	92	23-121	1	25
alpha-BHC	ug/kg	ND	14.6	14.4	14.4	15.1	94	100	41-105	5	25
alpha-Chlordane	ug/kg	ND	14.6	14.4	14.0	14.1	95	97	26-117	1	25
beta-BHC	ug/kg	ND	14.6	14.4	13.7	14.2	89	94	21-112	4	25
delta-BHC	ug/kg	ND	14.6	14.4	14.8	15.0	99	102	21-131	1	25
Dieldrin	ug/kg	ND	29.3	29	27.6	27.1	94	94	40-108	2	25
Endosulfan I	ug/kg	ND	14.6	14.4	12.1	12.4	82	86	12-122	2	25
Endosulfan II	ug/kg	ND	29.3	29	25.6	26.7	84	89	36-109	4	25
Endosulfan sulfate	ug/kg	ND	29.3	29	31.4	31.8	104	107	33-118	1	25
Endrin	ug/kg	ND	29.3	29	27.8	27.5	93	93	47-103	1	25
Endrin aldehyde	ug/kg	ND	29.3	29	21.0	25.4	71	87	10-149	19	25
Endrin ketone	ug/kg	ND	29.3	29	35.2	35.0	112	113	10-158	1	25
gamma-BHC (Lindane)	ug/kg	ND	14.6	14.4	14.3	15.0	97	102	43-104	4	25
gamma-Chlordane	ug/kg	ND	14.6	14.4	14.2	14.3	95	97	10-132	1	25
Heptachlor	ug/kg	ND	14.6	14.4	13.3	13.8	89	94	29-118	4	25
Heptachlor epoxide	ug/kg	ND	14.6	14.4	13.0	13.0	88	89	12-131	0	25
Methoxychlor	ug/kg	ND	146	144	148	148	98	99	10-140	0	25
Decachlorobiphenyl (S)	%						101	101	50-96		E,ST
Tetrachloro-m-xylene (S)	%						78	88	51-88		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

QC Batch: 354930 Analysis Method: EPA 8082A
QC Batch Method: EPA 3546 Analysis Description: 8082A GCS PCB
Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

METHOD BLANK: 1724105 Matrix: Solid
Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	16.7	10.3	08/05/19 21:30	
PCB-1221 (Aroclor 1221)	ug/kg	ND	16.7	14.8	08/05/19 21:30	
PCB-1232 (Aroclor 1232)	ug/kg	ND	16.7	15.2	08/05/19 21:30	
PCB-1242 (Aroclor 1242)	ug/kg	ND	16.7	12.2	08/05/19 21:30	
PCB-1248 (Aroclor 1248)	ug/kg	ND	16.7	9.6	08/05/19 21:30	
PCB-1254 (Aroclor 1254)	ug/kg	ND	16.7	8.9	08/05/19 21:30	
PCB-1260 (Aroclor 1260)	ug/kg	ND	16.7	9.5	08/05/19 21:30	
Decachlorobiphenyl (S)	%	93	38-139		08/05/19 21:30	
Tetrachloro-m-xylene (S)	%	87	34-114		08/05/19 21:30	

LABORATORY CONTROL SAMPLE: 1724106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	161	138	85	61-105	
PCB-1260 (Aroclor 1260)	ug/kg	161	134	83	70-100	
Decachlorobiphenyl (S)	%			91	38-139	
Tetrachloro-m-xylene (S)	%			86	34-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1724107 1724108

Parameter	Units	30317042016		1724107		1724108		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
PCB-1016 (Aroclor 1016)	ug/kg	ND	285	284	7980	60800	2790	21500	24-137	154	25	E,M6, R1	
PCB-1260 (Aroclor 1260)	ug/kg	ND	285	284	ND	ND	121	116	19-156		25		
Decachlorobiphenyl (S)	%						138	116	38-139				
Tetrachloro-m-xylene (S)	%						89	83	34-114				

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

QC Batch: 355109 Analysis Method: EPA 8270D
QC Batch Method: EPA 3546 Analysis Description: 8270D Solid MSSV Microwave
Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

METHOD BLANK: 1725115 Matrix: Solid
Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	332	89.9	08/07/19 15:28	
1,2-Dichlorobenzene	ug/kg	ND	332	104	08/07/19 15:28	
1,3-Dichlorobenzene	ug/kg	ND	332	98.3	08/07/19 15:28	
1,4-Dichlorobenzene	ug/kg	ND	332	45.9	08/07/19 15:28	
1-Methylnaphthalene	ug/kg	ND	332	83.5	08/07/19 15:28	
2,4,5-Trichlorophenol	ug/kg	ND	831	98.2	08/07/19 15:28	
2,4,6-Trichlorophenol	ug/kg	ND	332	86.8	08/07/19 15:28	
2,4-Dichlorophenol	ug/kg	ND	332	149	08/07/19 15:28	
2,4-Dimethylphenol	ug/kg	ND	332	101	08/07/19 15:28	
2,4-Dinitrophenol	ug/kg	ND	831	747	08/07/19 15:28	
2,4-Dinitrotoluene	ug/kg	ND	332	101	08/07/19 15:28	
2,6-Dinitrotoluene	ug/kg	ND	332	101	08/07/19 15:28	
2-Chloronaphthalene	ug/kg	ND	332	94.8	08/07/19 15:28	
2-Chlorophenol	ug/kg	ND	332	103	08/07/19 15:28	
2-Methylnaphthalene	ug/kg	ND	332	99.8	08/07/19 15:28	
2-Methylphenol(o-Cresol)	ug/kg	ND	332	119	08/07/19 15:28	
2-Nitroaniline	ug/kg	ND	831	115	08/07/19 15:28	
2-Nitrophenol	ug/kg	ND	332	132	08/07/19 15:28	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	664	204	08/07/19 15:28	
3,3'-Dichlorobenzidine	ug/kg	ND	332	97.5	08/07/19 15:28	
3-Nitroaniline	ug/kg	ND	831	217	08/07/19 15:28	
4,6-Dinitro-2-methylphenol	ug/kg	ND	831	247	08/07/19 15:28	
4-Bromophenylphenyl ether	ug/kg	ND	332	122	08/07/19 15:28	
4-Chloro-3-methylphenol	ug/kg	ND	332	53.5	08/07/19 15:28	
4-Chloroaniline	ug/kg	ND	332	58.4	08/07/19 15:28	
4-Chlorophenylphenyl ether	ug/kg	ND	332	96.0	08/07/19 15:28	
4-Nitroaniline	ug/kg	ND	831	466	08/07/19 15:28	
4-Nitrophenol	ug/kg	ND	332	112	08/07/19 15:28	
Acenaphthene	ug/kg	ND	332	113	08/07/19 15:28	
Acenaphthylene	ug/kg	ND	332	99.7	08/07/19 15:28	
Anthracene	ug/kg	ND	332	76.3	08/07/19 15:28	
Azobenzene	ug/kg	ND	332	117	08/07/19 15:28	N2
Benzo(a)anthracene	ug/kg	ND	332	149	08/07/19 15:28	
Benzo(a)pyrene	ug/kg	ND	332	103	08/07/19 15:28	
Benzo(b)fluoranthene	ug/kg	ND	332	101	08/07/19 15:28	
Benzo(g,h,i)perylene	ug/kg	ND	332	115	08/07/19 15:28	CH
Benzo(k)fluoranthene	ug/kg	ND	332	147	08/07/19 15:28	
Benzoic acid	ug/kg	ND	4980	1680	08/07/19 15:28	
Benzyl alcohol	ug/kg	ND	332	294	08/07/19 15:28	
bis(2-Chloroethoxy)methane	ug/kg	ND	332	131	08/07/19 15:28	
bis(2-Chloroethyl) ether	ug/kg	ND	332	60.6	08/07/19 15:28	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

METHOD BLANK: 1725115 Matrix: Solid
Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroisopropyl) ether	ug/kg	ND	332	282	08/07/19 15:28	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	332	106	08/07/19 15:28	
Butylbenzylphthalate	ug/kg	ND	332	93.4	08/07/19 15:28	
Carbazole	ug/kg	ND	332	130	08/07/19 15:28	
Chrysene	ug/kg	ND	332	123	08/07/19 15:28	
Di-n-butylphthalate	ug/kg	ND	332	112	08/07/19 15:28	
Di-n-octylphthalate	ug/kg	ND	332	75.4	08/07/19 15:28	
Dibenz(a,h)anthracene	ug/kg	ND	332	126	08/07/19 15:28	CH
Dibenzofuran	ug/kg	ND	332	107	08/07/19 15:28	
Diethylphthalate	ug/kg	ND	332	117	08/07/19 15:28	
Dimethylphthalate	ug/kg	ND	332	102	08/07/19 15:28	
Fluoranthene	ug/kg	ND	332	107	08/07/19 15:28	
Fluorene	ug/kg	ND	332	102	08/07/19 15:28	
Hexachloro-1,3-butadiene	ug/kg	ND	332	108	08/07/19 15:28	
Hexachlorobenzene	ug/kg	ND	332	95.4	08/07/19 15:28	
Hexachlorocyclopentadiene	ug/kg	ND	332	78.6	08/07/19 15:28	
Hexachloroethane	ug/kg	ND	332	89.7	08/07/19 15:28	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	332	125	08/07/19 15:28	CH
Isophorone	ug/kg	ND	332	109	08/07/19 15:28	
N-Nitroso-di-n-propylamine	ug/kg	ND	332	141	08/07/19 15:28	
N-Nitrosodimethylamine	ug/kg	ND	332	56.9	08/07/19 15:28	
N-Nitrosodiphenylamine	ug/kg	ND	332	74.9	08/07/19 15:28	
Naphthalene	ug/kg	ND	332	90.1	08/07/19 15:28	
Nitrobenzene	ug/kg	ND	332	123	08/07/19 15:28	
Pentachlorophenol	ug/kg	ND	831	437	08/07/19 15:28	
Phenanthrene	ug/kg	ND	332	146	08/07/19 15:28	
Phenol	ug/kg	ND	332	98.4	08/07/19 15:28	
Pyrene	ug/kg	ND	332	121	08/07/19 15:28	
2,4,6-Tribromophenol (S)	%	90	10-160		08/07/19 15:28	
2-Fluorobiphenyl (S)	%	95	52-102		08/07/19 15:28	
2-Fluorophenol (S)	%	91	10-147		08/07/19 15:28	
Nitrobenzene-d5 (S)	%	89	45-103		08/07/19 15:28	
Phenol-d6 (S)	%	86	35-120		08/07/19 15:28	
Terphenyl-d14 (S)	%	89	53-135		08/07/19 15:28	

LABORATORY CONTROL SAMPLE: 1725116

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	3330	2980	90	54-92	
1,2-Dichlorobenzene	ug/kg	3330	2700	81	69-103	
1,3-Dichlorobenzene	ug/kg	3330	2840	85	67-104	
1,4-Dichlorobenzene	ug/kg	3330	2580	77	63-101	
1-Methylnaphthalene	ug/kg	3330	2980	90	54-86 L1	
2,4,5-Trichlorophenol	ug/kg	3330	3300	99	66-112	

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

LABORATORY CONTROL SAMPLE: 1725116

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/kg	3330	3200	96	62-135	
2,4-Dichlorophenol	ug/kg	3330	2990	90	51-100	
2,4-Dimethylphenol	ug/kg	3330	3060	92	38-86	L1
2,4-Dinitrophenol	ug/kg	3330	2790	84	14-147	
2,4-Dinitrotoluene	ug/kg	3330	3100	93	73-117	
2,6-Dinitrotoluene	ug/kg	3330	3120	94	68-117	
2-Chloronaphthalene	ug/kg	3330	3150	95	69-109	
2-Chlorophenol	ug/kg	3330	2990	90	72-106	
2-Methylnaphthalene	ug/kg	3330	3010	90	48-94	
2-Methylphenol(o-Cresol)	ug/kg	3330	3020	91	60-118	
2-Nitroaniline	ug/kg	3330	3000	90	69-126	
2-Nitrophenol	ug/kg	3330	3070	92	52-96	
3&4-Methylphenol(m&p Cresol)	ug/kg	6660	5760	86	61-117	
3,3'-Dichlorobenzidine	ug/kg	3330	3190	96	48-108	
3-Nitroaniline	ug/kg	3330	2740	82	56-147	
4,6-Dinitro-2-methylphenol	ug/kg	3330	3010	91	61-146	
4-Bromophenylphenyl ether	ug/kg	3330	3130	94	74-110	
4-Chloro-3-methylphenol	ug/kg	3330	3030	91	52-105	
4-Chloroaniline	ug/kg	3330	2340	70	20-87	
4-Chlorophenylphenyl ether	ug/kg	3330	3050	92	72-112	
4-Nitroaniline	ug/kg	3330	3290	99	54-175	
4-Nitrophenol	ug/kg	3330	2950	89	57-143	
Acenaphthene	ug/kg	3330	3080	92	68-121	
Acenaphthylene	ug/kg	3330	3100	93	67-116	
Anthracene	ug/kg	3330	3140	94	67-104	
Azobenzene	ug/kg	3330	3050	92	58-119	N2
Benzo(a)anthracene	ug/kg	3330	3210	96	75-115	
Benzo(a)pyrene	ug/kg	3330	3030	91	72-108	
Benzo(b)fluoranthene	ug/kg	3330	3520	106	72-119	
Benzo(g,h,i)perylene	ug/kg	3330	3580	108	70-119	CH
Benzo(k)fluoranthene	ug/kg	3330	2960	89	72-118	
Benzoic acid	ug/kg	3330	3030J	91	10-112	
Benzyl alcohol	ug/kg	3330	2050	61	45-132	
bis(2-Chloroethoxy)methane	ug/kg	3330	2840	85	46-96	
bis(2-Chloroethyl) ether	ug/kg	3330	2600	78	53-110	
bis(2-Chloroisopropyl) ether	ug/kg	3330	2400	72	51-121	
bis(2-Ethylhexyl)phthalate	ug/kg	3330	3740	112	72-122	
Butylbenzylphthalate	ug/kg	3330	3640	109	73-122	
Carbazole	ug/kg	3330	3040	91	56-130	
Chrysene	ug/kg	3330	3190	96	74-115	
Di-n-butylphthalate	ug/kg	3330	3460	104	77-114	
Di-n-octylphthalate	ug/kg	3330	3670	110	70-121	
Dibenz(a,h)anthracene	ug/kg	3330	3550	107	69-125	CH
Dibenzofuran	ug/kg	3330	3030	91	72-110	
Diethylphthalate	ug/kg	3330	3240	97	73-115	
Dimethylphthalate	ug/kg	3330	3150	95	69-114	
Fluoranthene	ug/kg	3330	3220	97	76-116	

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

LABORATORY CONTROL SAMPLE: 1725116

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	3330	3040	91	70-117	
Hexachloro-1,3-butadiene	ug/kg	3330	3110	93	45-105	
Hexachlorobenzene	ug/kg	3330	3260	98	75-110	
Hexachlorocyclopentadiene	ug/kg	3330	2450	74	37-100	
Hexachloroethane	ug/kg	3330	2760	83	58-108	
Indeno(1,2,3-cd)pyrene	ug/kg	3330	3530	106	71-122	CH
Isophorone	ug/kg	3330	2910	88	47-89	
N-Nitroso-di-n-propylamine	ug/kg	3330	2730	82	56-102	
N-Nitrosodimethylamine	ug/kg	3330	2690	81	56-102	
N-Nitrosodiphenylamine	ug/kg	3330	3020	91	83-96	
Naphthalene	ug/kg	3330	2970	89	50-95	
Nitrobenzene	ug/kg	3330	2870	86	48-96	
Pentachlorophenol	ug/kg	3330	3640	109	52-162	
Phenanthrene	ug/kg	3330	3050	92	72-122	
Phenol	ug/kg	3330	2950	89	62-120	
Pyrene	ug/kg	3330	3260	98	72-121	
2,4,6-Tribromophenol (S)	%			93	10-160	
2-Fluorobiphenyl (S)	%			96	52-102	
2-Fluorophenol (S)	%			90	10-147	
Nitrobenzene-d5 (S)	%			89	45-103	
Phenol-d6 (S)	%			85	35-120	
Terphenyl-d14 (S)	%			89	53-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725117 1725118

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		30316626002 Result	Spike Conc.	Spike Conc.	Result							Result
1,2,4-Trichlorobenzene	ug/kg	406 U	4110	4110	3340	3380	81	82	51-90	1	25	
1,2-Dichlorobenzene	ug/kg	406 U	4110	4110	3100	2990	75	73	65-100	4	25	
1,3-Dichlorobenzene	ug/kg	406 U	4110	4110	3200	3040	78	74	63-100	5	25	
1,4-Dichlorobenzene	ug/kg	406 U	4110	4110	3020	2900	73	71	61-99	4	25	
1-Methylnaphthalene	ug/kg	406 U	4110	4110	3060	3440	74	83	50-89	12	25	
2,4,5-Trichlorophenol	ug/kg	1010 U	4110	4110	3860	3510	94	85	10-143	9	25	
2,4,6-Trichlorophenol	ug/kg	406 U	4110	4110	3600	3740	88	91	10-166	4	25	
2,4-Dichlorophenol	ug/kg	406 U	4110	4110	3370	3440	82	84	33-101	2	25	
2,4-Dimethylphenol	ug/kg	406 U	4110	4110	2590	2660	63	65	28-80	3	25	
2,4-Dinitrophenol	ug/kg	1010 U	4110	4110	3110	3030	76	74	10-131	3	25	
2,4-Dinitrotoluene	ug/kg	406 U	4110	4110	3850	3670	94	89	43-120	5	25	
2,6-Dinitrotoluene	ug/kg	406 U	4110	4110	3680	3390	90	82	47-116	8	25	
2-Chloronaphthalene	ug/kg	406 U	4110	4110	3380	3220	82	78	53-110	5	25	
2-Chlorophenol	ug/kg	406 U	4110	4110	3430	3310	83	81	44-118	4	25	
2-Methylnaphthalene	ug/kg	406 U	4110	4110	3090	3470	75	84	44-91	12	25	
2-Methylphenol(o-Cresol)	ug/kg	406 U	4110	4110	3160	3730	77	91	37-142	17	25	
2-Nitroaniline	ug/kg	1010 U	4110	4110	3750	3730	91	91	52-121	1	25	
2-Nitrophenol	ug/kg	406 U	4110	4110	3560	3660	87	89	10-128	3	25	

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

Parameter	Units	30316626002		MS		MSD		MS		MSD		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec									
MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			1725117														
3&4-Methylphenol(m&p Cresol)	ug/kg	811 U	8230	8230	6300	6390	77	78	36-135	1	25						
3,3'-Dichlorobenzidine	ug/kg	406 U	4110	4110	2700	2960	66	72	10-134	9	25						
3-Nitroaniline	ug/kg	1010 U	4110	4110	3250	2780	79	68	45-126	16	25						
4,6-Dinitro-2-methylphenol	ug/kg	1010 U	4110	4110	3670	3660	89	89	10-155	0	25						
4-Bromophenylphenyl ether	ug/kg	406 U	4110	4110	3460	3720	84	90	69-106	7	25						
4-Chloro-3-methylphenol	ug/kg	406 U	4110	4110	3340	3460	81	84	47-100	3	25						
4-Chloroaniline	ug/kg	406 U	4110	4110	2630	2490	64	60	18-77	6	25						
4-Chlorophenylphenyl ether	ug/kg	406 U	4110	4110	3610	3310	88	80	63-108	9	25						
4-Nitroaniline	ug/kg	1010 U	4110	4110	3540	2950	86	72	27-175	18	25						
4-Nitrophenol	ug/kg	406 U	4110	4110	3860	3190	94	78	10-159	19	25						
Acenaphthene	ug/kg	406 U	4110	4110	3510	3310	85	80	59-114	6	25						
Acenaphthylene	ug/kg	406 U	4110	4110	3530	3570	85	86	56-112	1	25						
Anthracene	ug/kg	406 U	4110	4110	3630	3590	88	87	52-105	1	25						
Azobenzene	ug/kg	406 U	4110	4110	3360	3420	82	83	47-116	2	25 N2						
Benzo(a)anthracene	ug/kg	213J	4110	4110	3800	4030	87	93	55-120	6	25						
Benzo(a)pyrene	ug/kg	219J	4110	4110	3500	3480	80	79	50-112	0	25						
Benzo(b)fluoranthene	ug/kg	172J	4110	4110	3860	3780	90	88	40-140	2	25						
Benzo(g,h,i)perylene	ug/kg	189J	4110	4110	4240	4690	98	109	10-137	10	25 CH						
Benzo(k)fluoranthene	ug/kg	194J	4110	4110	3560	3480	82	80	32-150	2	25						
Benzoic acid	ug/kg	6080 U	4110	4110	3080J	2920J	73	70	10-129		25						
Benzyl alcohol	ug/kg	406 U	4110	4110	2190	1850	53	45	10-156	17	25						
bis(2-Chloroethoxy)methane	ug/kg	406 U	4110	4110	3150	3250	77	79	44-91	3	25						
bis(2-Chloroethyl) ether	ug/kg	406 U	4110	4110	3020	2930	73	71	44-107	3	25						
bis(2-Chloroisopropyl) ether	ug/kg	406 U	4110	4110	2780	2680	67	65	48-115	3	25						
bis(2-Ethylhexyl)phthalate	ug/kg	406 U	4110	4110	4150	4230	100	102	61-123	2	25						
Butylbenzylphthalate	ug/kg	406 U	4110	4110	4230	4090	103	99	65-122	3	25						
Carbazole	ug/kg	406 U	4110	4110	3350	3300	81	80	65-121	2	25						
Chrysene	ug/kg	237J	4110	4110	3780	3870	86	88	53-120	2	25						
Di-n-butylphthalate	ug/kg	406 U	4110	4110	3800	3720	92	90	68-112	2	25						
Di-n-octylphthalate	ug/kg	406 U	4110	4110	4430	3770	107	92	57-135	16	25						
Dibenz(a,h)anthracene	ug/kg	406 U	4110	4110	4160	4530	100	109	10-143	8	25 CH						
Dibenzofuran	ug/kg	406 U	4110	4110	3580	3330	87	81	67-106	7	25						
Diethylphthalate	ug/kg	406 U	4110	4110	3740	3660	91	89	64-112	2	25						
Dimethylphthalate	ug/kg	406 U	4110	4110	3610	3310	88	80	55-115	9	25						
Fluoranthene	ug/kg	478	4110	4110	4140	3850	89	82	48-128	7	25						
Fluorene	ug/kg	406 U	4110	4110	3640	3540	88	86	62-115	3	25						
Hexachloro-1,3-butadiene	ug/kg	406 U	4110	4110	3410	3410	83	83	37-107	0	25						
Hexachlorobenzene	ug/kg	406 U	4110	4110	3610	3830	88	93	63-112	6	25						
Hexachlorocyclopentadiene	ug/kg	406 U	4110	4110	2760	2920	67	71	10-98	6	25						
Hexachloroethane	ug/kg	406 U	4110	4110	3180	3050	77	74	40-112	4	25						
Indeno(1,2,3-cd)pyrene	ug/kg	161J	4110	4110	4230	4570	99	107	10-139	8	25 CH						
Isophorone	ug/kg	406 U	4110	4110	3300	3360	80	82	44-87	2	25						
N-Nitroso-di-n-propylamine	ug/kg	406 U	4110	4110	3150	3140	77	76	45-123	0	25						
N-Nitrosodimethylamine	ug/kg	406 U	4110	4110	3090	2960	75	72	47-102	4	25						

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725117		1725118		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30316626002 Result	MS Spike Conc.	MSD Spike Conc.									
N-Nitrosodiphenylamine	ug/kg	406 U	4110	4110	3210	3460	78	84	64-86	8	25		
Naphthalene	ug/kg	406 U	4110	4110	3340	3400	81	82	41-101	2	25		
Nitrobenzene	ug/kg	406 U	4110	4110	3220	3270	78	80	41-97	2	25		
Pentachlorophenol	ug/kg	1010 U	4110	4110	4210	4110	102	100	10-175	3	25		
Phenanthrene	ug/kg	234J	4110	4110	3700	3970	84	91	51-117	7	25		
Phenol	ug/kg	406 U	4110	4110	3460	3350	84	81	42-125	3	25		
Pyrene	ug/kg	421	4110	4110	4160	4110	91	90	43-138	1	25		
2,4,6-Tribromophenol (S)	%						79	81	10-160				
2-Fluorobiphenyl (S)	%						80	84	52-102				
2-Fluorophenol (S)	%						83	80	10-147				
Nitrobenzene-d5 (S)	%						84	83	45-103				
Phenol-d6 (S)	%						80	76	35-120				
Terphenyl-d14 (S)	%						86	83	53-135				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

QC Batch: 355897 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30317464001, 30317464002, 30317464003

SAMPLE DUPLICATE: 1728541

Parameter	Units	30317389004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.7	16.3	8	20	

SAMPLE DUPLICATE: 1728542

Parameter	Units	30317389005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.0	13.4	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

QC Batch:	355899	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	30317464004, 30317464005		

SAMPLE DUPLICATE: 1728554

Parameter	Units	30317464004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.3	8.8	7	20	

SAMPLE DUPLICATE: 1728555

Parameter	Units	30317464005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.8	12.4	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SB
Pace Project No.: 30317464

QC Batch: 355101 Analysis Method: EPA 9014 Total CN
QC Batch Method: EPA 9010C Analysis Description: 9014 Total Cyanide
Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

METHOD BLANK: 1725089 Matrix: Solid
Associated Lab Samples: 30317464001, 30317464002, 30317464003, 30317464004, 30317464005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/kg	ND	1.0	0.26	08/08/19 16:57	

LABORATORY CONTROL SAMPLE: 1725090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/kg	6	6.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725091 1725092

Parameter	Units	30317042001		30317042002		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Cyanide	mg/kg	2.6	2.9	2.9	2.9	2.9	4.2	9	53	90-110	36	20	ML,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725093 1725094

Parameter	Units	30317042014		30317042014		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Cyanide	mg/kg	2.4	3.1	2.8	5.6	5.6	2.3	103	-4	90-110	84	20	ML,R1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: SB
Pace Project No.: 30317464

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 355572

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

2c RF below method recommended limit.

4c The precision between the sample and serial dilution exceeded laboratory control limits.

B Analyte was detected in the associated method blank.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

ED Due to the extract's physical characteristics, the analysis was performed at dilution.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

MH Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

ML Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: SB
Pace Project No.: 30317464

ANALYTE QUALIFIERS

- N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
- R1 RPD value was outside control limits.
- ST Surrogate recovery was above laboratory control limits. Results may be biased high.

REPORT OF LABORATORY ANALYSIS

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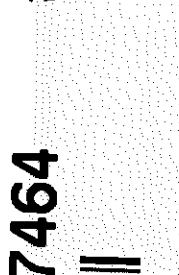
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SB
Pace Project No.: 30317464

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30317464002	SB-06	EPA 3546	354928	EPA 8081B	355127
30317464003	SB-05	EPA 3546	354928	EPA 8081B	355127
30317464001	SB-08	EPA 3546	354930	EPA 8082A	355131
30317464002	SB-06	EPA 3546	354930	EPA 8082A	355131
30317464003	SB-05	EPA 3546	354930	EPA 8082A	355131
30317464004	SB-07	EPA 3546	354930	EPA 8082A	355131
30317464005	SB-02	EPA 3546	354930	EPA 8082A	355131
30317464001	SB-08	EPA 3050B	355262	EPA 6010C	355366
30317464002	SB-06	EPA 3050B	355262	EPA 6010C	355366
30317464003	SB-05	EPA 3050B	355262	EPA 6010C	355366
30317464004	SB-07	EPA 3050B	355262	EPA 6010C	355366
30317464005	SB-02	EPA 3050B	355262	EPA 6010C	355366
30317464001	SB-08	EPA 7471B	355055	EPA 7471B	355118
30317464002	SB-06	EPA 7471B	355055	EPA 7471B	355118
30317464003	SB-05	EPA 7471B	355055	EPA 7471B	355118
30317464004	SB-07	EPA 7471B	355055	EPA 7471B	355118
30317464005	SB-02	EPA 7471B	355055	EPA 7471B	355118
30317464001	SB-08	EPA 3546	355109	EPA 8270D	355249
30317464002	SB-06	EPA 3546	355109	EPA 8270D	355249
30317464003	SB-05	EPA 3546	355109	EPA 8270D	355249
30317464004	SB-07	EPA 3546	355109	EPA 8270D	355249
30317464005	SB-02	EPA 3546	355109	EPA 8270D	355249
30317464001	SB-08	EPA 5035A	355572	EPA 8260C	355597
30317464002	SB-06	EPA 5035A	355572	EPA 8260C	355597
30317464003	SB-05	EPA 5035A	355572	EPA 8260C	355597
30317464004	SB-07	EPA 5035A	355572	EPA 8260C	355597
30317464005	SB-02	EPA 5035A	355572	EPA 8260C	355597
30317464001	SB-08	ASTM D2974-87	355897		
30317464002	SB-06	ASTM D2974-87	355897		
30317464003	SB-05	ASTM D2974-87	355897		
30317464004	SB-07	ASTM D2974-87	355899		
30317464005	SB-02	ASTM D2974-87	355899		
30317464001	SB-08	EPA 9010C	355101	EPA 9014 Total CN	355497
30317464002	SB-06	EPA 9010C	355101	EPA 9014 Total CN	355497
30317464003	SB-05	EPA 9010C	355101	EPA 9014 Total CN	355497
30317464004	SB-07	EPA 9010C	355101	EPA 9014 Total CN	355497
30317464005	SB-02	EPA 9010C	355101	EPA 9014 Total CN	355497

REPORT OF LABORATORY ANALYSIS

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LAB USE ONLY
Container Preservative Type **

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields
Billing information:
Conch White
80 Box 22222
Albany, NY

Company: **EnviroSpec Engineering**
Address: **394 Northern Blvd Albany NY**
Report To: **Rachel Farnum**
Copy To: **Rachel Farnum**
Email To: **r.farnum@enviro-spec.com**
Site Collection Info/Address: **Waterfront**
State: **NY / Albany** Time Zone Collected: **[] PT [] MT [] CT [] ET**

Customer Project Name/Number:
Phone:
Email:
Collected By (print): **Rachel Farnum**
Purchase Order #: **Standard**
Quote #: **Standard**
Turnaround Date Required:
Rush: **[] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day**
Sample Disposal: **[] Dispose as appropriate [] Return [] Archive: [] Hold:**
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
SB-08	SO	46	8/19	7:35AM	X	1
SB-06	SO	46	8/19	10:35AM	X	1
SB-05	SO	46	8/19	11:20AM	X	1
SB-07	SO	46	8/19	1:10PM	X	1
SB-02	SO	46	8/19	1:50PM	X	1

Customer Remarks / Special Conditions / Possible Hazards:
Type of Ice Used: **(Wet)** Blue Dry None
Packing Material Used:
Soil kit packaging bubble bags & ice
Radchem sample(s) screened (<500 cpm): **Y N NA**
Received by/Company: (Signature) **PACE**
Date/Time: **8-19 16:00**

Lab Profile/Line:
Lab Sample Receipt Checklist:
Custody Seals Present/Intact: **Y N NA**
Custody Signatures Present: **Y N NA**
Collector Signatures Present: **Y N NA**
Bottles Intact: **Y N NA**
Correct Bottles: **Y N NA**
Sufficient Volume: **Y N NA**
Samples Received on Ice: **Y N NA**
VOA - Headspace Acceptable: **Y N NA**
USDA Regulated Soils: **Y N NA**
Samples in Holding Time: **Y N NA**
Residual Chlorine Present: **Y N NA**
Cl Strips: **Y N NA**
Sample pH Acceptable: **Y N NA**
pH Strips: **Y N NA**
Sulfide Present: **Y N NA**
Lead Acetate Strips: **Y N NA**

Lab Sample Receipt Checklist:
Custody Seals Present/Intact: **Y N NA**
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USDA Regulated Soils: **Y N NA**
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Sample pH Acceptable: **Y N NA**
pH Strips: **Y N NA**
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USDA Regulated Soils: **Y N NA**
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pH Strips: **Y N NA**
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Lead Acetate Strips: **Y N NA**

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Sufficient Volume: **Y N NA**
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USDA Regulated Soils: **Y N NA**
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pH Strips: **Y N NA**
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Lead Acetate Strips: **Y N NA**

Lab Sample Receipt Checklist:
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Custody Signatures Present: **Y N NA**
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Sample pH Acceptable: **Y N NA**
pH Strips: **Y N NA**
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Lead Acetate Strips: **Y N NA**

Lab Sample Receipt Checklist:
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Correct Bottles: **Y N NA**
Sufficient Volume: **Y N NA**
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VOA - Headspace Acceptable: **Y N NA**
USDA Regulated Soils: **Y N NA**
Samples in Holding Time: **Y N NA**
Residual Chlorine Present: **Y N NA**
Cl Strips: **Y N NA**
Sample pH Acceptable: **Y N NA**
pH Strips: **Y N NA**
Sulfide Present: **Y N NA**
Lead Acetate Strips: **Y N NA**

Lab Sample Receipt Checklist:
Custody Seals Present/Intact: **Y N NA**
Custody Signatures Present: **Y N NA**
Collector Signatures Present: **Y N NA**
Bottles Intact: **Y N NA**
Correct Bottles: **Y N NA**
Sufficient Volume: **Y N NA**
Samples Received on Ice: **Y N NA**
VOA - Headspace Acceptable: **Y N NA**
USDA Regulated Soils: **Y N NA**
Samples in Holding Time: **Y N NA**
Residual Chlorine Present: **Y N NA**
Cl Strips: **Y N NA**
Sample pH Acceptable: **Y N NA**
pH Strips: **Y N NA**
Sulfide Present: **Y N NA**
Lead Acetate Strips: **Y N NA**

Lab Sample Receipt Checklist:
Custody Seals Present/Intact: **Y N NA**
Custody Signatures Present: **Y N NA**
Collector Signatures Present: **Y N NA**
Bottles Intact: **Y N NA**
Correct Bottles: **Y N NA**
Sufficient Volume: **Y N NA**
Samples Received on Ice: **Y N NA**
VOA - Headspace Acceptable: **Y N NA**
USDA Regulated Soils: **Y N NA**
Samples in Holding Time: **Y N NA**
Residual Chlorine Present: **Y N NA**
Cl Strips: **Y N NA**
Sample pH Acceptable: **Y N NA**
pH Strips: **Y N NA**
Sulfide Present: **Y N NA**
Lead Acetate Strips: **Y N NA**

Lab Sample Receipt Checklist:
Custody Seals Present/Intact: **Y N NA**
Custody Signatures Present: **Y N NA**
Collector Signatures Present: **Y N NA**
Bottles Intact: **Y N NA**
Correct Bottles: **Y N NA**
Sufficient Volume: **Y N NA**
Samples Received on Ice: **Y N NA**
VOA - Headspace Acceptable: **Y N NA**
USDA Regulated Soils: **Y N NA**
Samples in Holding Time: **Y N NA**
Residual Chlorine Present: **Y N NA**
Cl Strips: **Y N NA**
Sample pH Acceptable: **Y N NA**
pH Strips: **Y N NA**
Sulfide Present: **Y N NA**
Lead Acetate Strips: **Y N NA**

Lab Sample Receipt Checklist:
Custody Seals Present/Intact: **Y N NA**
Custody Signatures Present: **Y N NA**
Collector Signatures Present: **Y N NA**
Bottles Intact: **Y N NA**
Correct Bottles: **Y N NA**
Sufficient Volume: **Y N NA**
Samples Received on Ice: **Y N NA**
VOA - Headspace Acceptable: **Y N NA**
USDA Regulated Soils: **Y N NA**
Samples in Holding Time: **Y N NA**
Residual Chlorine Present: **Y N NA**
Cl Strips: **Y N NA**
Sample pH Acceptable: **Y N NA**
pH Strips: **Y N NA**
Sulfide Present: **Y N NA**
Lead Acetate Strips: **Y N NA**

Lab Sample Receipt Checklist:
Custody Seals Present/Intact: **Y N NA**
Custody Signatures Present: **Y N NA**
Collector Signatures Present: **Y N NA**
Bottles Intact: **Y N NA**
Correct Bottles: **Y N NA**
Sufficient Volume: **Y N NA**
Samples Received on Ice: **Y N NA**
VOA - Headspace Acceptable: **Y N NA**
USDA Regulated Soils: **Y N NA**
Samples in Holding Time: **Y N NA**
Residual Chlorine Present: **Y N NA**
Cl Strips: **Y N NA**
Sample pH Acceptable: **Y N NA**
pH Strips: **Y N NA**
Sulfide Present: **Y N NA**
Lead Acetate Strips: **Y N NA**

Lab Sample Receipt Checklist:
Custody Seals Present/Intact: **Y N NA**
Custody Signatures Present: **Y N NA**
Collector Signatures Present: **Y N NA**
Bottles Intact: **Y N NA**
Correct Bottles: **Y N NA**
Sufficient Volume: **Y N NA**
Samples Received on Ice: **Y N NA**
VOA - Headspace Acceptable: **Y N NA**
USDA Regulated Soils: **Y N NA**
Samples in Holding Time: **Y N NA**
Residual Chlorine Present: **Y N NA**
Cl Strips: **Y N NA**
Sample pH Acceptable: **Y N NA**
pH Strips: **Y N NA**
Sulfide Present: **Y N NA**
Lead Acetate Strips: **Y N NA**

August 13, 2019

Ms. Rachel Farnum
Envirospec Engineering
349 Northern Blvd #3
Albany, NY 12204

RE: Project: GW & SB
Pace Project No.: 30317705

Dear Ms. Farnum:

Enclosed are the analytical results for sample(s) received by the laboratory on August 03, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

cc: Ms. Sheri Roberts, Couch White
Mr. Adam Schultz, Couch White



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GW & SB

Pace Project No.: 30317705

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GW & SB

Pace Project No.: 30317705

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30317705001	GW-07	Water	08/02/19 07:30	08/03/19 10:00
30317705002	SB-03	Solid	08/01/19 14:15	08/03/19 10:00
30317705003	SB-04	Solid	08/01/19 14:30	08/03/19 10:00
30317705004	SB-01	Solid	08/01/19 15:00	08/03/19 10:00
30317705005	SE-2	Solid	08/02/19 08:05	08/03/19 10:00
30317705006	SW-2	Water	08/02/19 08:30	08/03/19 10:00
30317705007	SE-3	Solid	08/02/19 08:50	08/03/19 10:00
30317705008	Trip Blank	Water	08/01/19 00:01	08/03/19 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GW & SB
Pace Project No.: 30317705

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30317705001	GW-07	EPA 8081B	TAW	23
		EPA 8082A	CWB	9
		EPA 6010C	CTS	24
		EPA 6010C	CTS	24
		EPA 7470A	CTS	1
		EPA 7470A	KAS	1
		EPA 8270D	EAC	75
		EPA 8260C	JAS	52
30317705002	SB-03	SM 4500CNE-2011	CMR	1
		EPA 8081B	TAW	23
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	SJG	75
		EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
30317705003	SB-04	EPA 9014 Total CN	CMR	1
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	SJG	75
		EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
30317705004	SB-01	EPA 8081B	TAW	23
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	SJG	75
		EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
30317705005	SE-2	EPA 8081B	TAW	23
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	SJG	75

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GW & SB
Pace Project No.: 30317705

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30317705006	SW-2	EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
		EPA 8081B	TAW	23
		EPA 8082A	CWB	9
		EPA 6010C	CTS	24
		EPA 6010C	CTS	24
		EPA 7470A	CTS	1
		EPA 7470A	KAS	1
		EPA 8270D	EAC	75
30317705007	SE-3	EPA 8260C	JAS	52
		SM 4500CNE-2011	CMR	1
		EPA 8082A	CWB	10
		EPA 6010C	CTS	24
		EPA 7471B	KAS	1
		EPA 8270D	SJG	75
30317705008	Trip Blank	EPA 8260C	JEW	52
		ASTM D2974-87	VAK	1
		EPA 9014 Total CN	CMR	1
		EPA 8260C	JAS	52

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 8081B
Description: 8081B GCS Pesticides
Client: Envirospec Engineering
Date: August 13, 2019

General Information:

3 samples were analyzed for EPA 8081B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 355132

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- SB-03 (Lab ID: 30317705002)
 - beta-BHC
- SE-2 (Lab ID: 30317705005)
 - Decachlorobiphenyl (S)

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 355132

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 1725191)
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 1725192)
 - Decachlorobiphenyl (S)
 - Tetrachloro-m-xylene (S)

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

- BLANK (Lab ID: 1725189)
 - Decachlorobiphenyl (S)
- SB-03 (Lab ID: 30317705002)
 - Tetrachloro-m-xylene (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8081B

Description: 8081B GCS Pesticides

Client: Envirospec Engineering

Date: August 13, 2019

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 355132

C2: Relative percent difference between results from each column was greater than 40%. The lower of the two results was reported.

- SB-03 (Lab ID: 30317705002)
 - Heptachlor

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8081B

Description: 8081B Organochlorine Pesticide

Client: Envirospec Engineering

Date: August 13, 2019

General Information:

2 samples were analyzed for EPA 8081B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

ED: Due to the extract's physical characteristics, the analysis was performed at dilution.

- SW-2 (Lab ID: 30317705006)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 355393

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1726094)
 - Decachlorobiphenyl (S)
- GW-07 (Lab ID: 30317705001)
 - Decachlorobiphenyl (S)
- LCS (Lab ID: 1726095)
 - Decachlorobiphenyl (S)
- SW-2 (Lab ID: 30317705006)
 - Decachlorobiphenyl (S)

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355393

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8081B

Description: 8081B Organochlorine Pesticide

Client: Envirospec Engineering

Date: August 13, 2019

Additional Comments:

Analyte Comments:

QC Batch: 355393

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- GW-07 (Lab ID: 30317705001)
 - 4,4'-DDD
 - 4,4'-DDE
 - 4,4'-DDT
 - Aldrin
 - alpha-BHC
 - beta-BHC
 - delta-BHC
 - gamma-BHC (Lindane)
 - alpha-Chlordane
 - gamma-Chlordane
 - Dieldrin
 - Endosulfan I
 - Endosulfan II
 - Endrin aldehyde
 - Endrin ketone
 - Endrin
 - Endosulfan sulfate
 - Heptachlor
 - Heptachlor epoxide
 - Methoxychlor
 - Toxaphene
- SW-2 (Lab ID: 30317705006)
 - 4,4'-DDD
 - 4,4'-DDE
 - 4,4'-DDT
 - Aldrin
 - alpha-BHC
 - beta-BHC
 - delta-BHC
 - gamma-BHC (Lindane)
 - alpha-Chlordane
 - gamma-Chlordane
 - Dieldrin
 - Endosulfan I
 - Endosulfan II
 - Endrin aldehyde
 - Endrin ketone
 - Endrin
 - Endosulfan sulfate

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8081B

Description: 8081B Organochlorine Pesticide

Client: EnviroSpec Engineering

Date: August 13, 2019

Analyte Comments:

QC Batch: 355393

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SW-2 (Lab ID: 30317705006)
 - Heptachlor
 - Heptachlor epoxide
 - Methoxychlor
 - Toxaphene

C2: Relative percent difference between results from each column was greater than 40%. The lower of the two results was reported.

- GW-07 (Lab ID: 30317705001)
 - beta-BHC

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8082A

Description: 8082A GCS PCB

Client: Envirospec Engineering

Date: August 13, 2019

General Information:

7 samples were analyzed for EPA 8082A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

ED: Due to the extract's physical characteristics, the analysis was performed at dilution.

- SB-03 (Lab ID: 30317705002)
- SB-04 (Lab ID: 30317705003)
- SE-2 (Lab ID: 30317705005)
- SE-3 (Lab ID: 30317705007)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355394

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8082A

Description: 8082A GCS PCB

Client: Envirospec Engineering

Date: August 13, 2019

Analyte Comments:

QC Batch: 355394

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- GW-07 (Lab ID: 30317705001)
 - PCB-1016 (Aroclor 1016)
 - PCB-1221 (Aroclor 1221)
 - PCB-1232 (Aroclor 1232)
 - PCB-1242 (Aroclor 1242)
 - PCB-1248 (Aroclor 1248)
 - PCB-1254 (Aroclor 1254)
 - PCB-1260 (Aroclor 1260)
- SW-2 (Lab ID: 30317705006)
 - PCB-1016 (Aroclor 1016)
 - PCB-1221 (Aroclor 1221)
 - PCB-1232 (Aroclor 1232)
 - PCB-1242 (Aroclor 1242)
 - PCB-1248 (Aroclor 1248)
 - PCB-1254 (Aroclor 1254)
 - PCB-1260 (Aroclor 1260)

2c: Emulsions were present during the extraction of this sample. Appropriate mechanical means were employed to break up the emulsions and were successful.

- SW-2 (Lab ID: 30317705006)
 - PCB-1016 (Aroclor 1016)
 - PCB-1221 (Aroclor 1221)
 - PCB-1232 (Aroclor 1232)
 - PCB-1242 (Aroclor 1242)
 - PCB-1248 (Aroclor 1248)
 - PCB-1254 (Aroclor 1254)
 - PCB-1260 (Aroclor 1260)

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 6010C
Description: 6010C MET ICP
Client: Envirospec Engineering
Date: August 13, 2019

General Information:

7 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050B with any exceptions noted below.

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355125

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30315931001

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1725175)
 - Calcium
 - Magnesium
 - Manganese
 - Potassium
 - Sodium
 - Zinc
- MSD (Lab ID: 1725176)
 - Calcium
 - Magnesium
 - Manganese
 - Potassium
 - Sodium
 - Zinc

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 6010C
Description: 6010C MET ICP
Client: Envirospec Engineering
Date: August 13, 2019

QC Batch: 355262

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317464001

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 1725590)
 - Aluminum
 - Magnesium
 - Manganese
 - Potassium
- MSD (Lab ID: 1725591)
 - Aluminum
 - Magnesium
 - Manganese
 - Potassium

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1725590)
 - Antimony
 - Iron
- MSD (Lab ID: 1725591)
 - Antimony
 - Iron

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 355125

8c: The precision between the sample and serial dilution exceeded laboratory control limits.

- GW-07 (Lab ID: 30317705001)
 - Chromium
 - Zinc

QC Batch: 355262

8c: The precision between the sample and serial dilution exceeded laboratory control limits.

- SB-03 (Lab ID: 30317705002)
 - Zinc

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 6010C
Description: 6010C MET ICP, Lab Filtered
Client: Envirospec Engineering
Date: August 13, 2019

General Information:

2 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355170

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317042002

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1725285)
 - Calcium, Dissolved
- MSD (Lab ID: 1725286)
 - Calcium, Dissolved
 - Magnesium, Dissolved
 - Sodium, Dissolved

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 6010C
Description: 6010C MET ICP, Lab Filtered
Client: Envirospec Engineering
Date: August 13, 2019

Analyte Comments:

QC Batch: 355170

5c: The PDS recovery was outside of the laboratory control limits. Result may be biased high.

- GW-07 (Lab ID: 30317705001)
 - Calcium, Dissolved
 - Manganese, Dissolved
 - Sodium, Dissolved

8c: The precision between the sample and serial dilution exceeded laboratory control limits.

- GW-07 (Lab ID: 30317705001)
 - Aluminum, Dissolved

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 7470A
Description: 7470 Mercury
Client: Envirospec Engineering
Date: August 13, 2019

General Information:

2 samples were analyzed for EPA 7470A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 355234

5c: The PDS recovery was outside of the laboratory control limits. Result may be biased high.

- GW-07 (Lab ID: 30317705001)
- Mercury

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 7470A
Description: 7470 Mercury, Lab Filtered
Client: Envirospec Engineering
Date: August 13, 2019

General Information:

2 samples were analyzed for EPA 7470A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 355198

4c: The PDS recovery was outside of the laboratory control limits. Result may be biased high

- GW-07 (Lab ID: 30317705001)
- Mercury, Dissolved

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 7471B
Description: 7471B Mercury
Client: Envirospec Engineering
Date: August 13, 2019

General Information:

5 samples were analyzed for EPA 7471B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7471B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8270D

Description: 8270D MSSV Microwave

Client: Envirospec Engineering

Date: August 13, 2019

General Information:

5 samples were analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

QC Batch: 355679

IS: The internal standard response is below criteria. Results may be biased high.

- MS (Lab ID: 1727566)
 - Benzo(a)pyrene
 - Benzo(b)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(k)fluoranthene
 - Di-n-octylphthalate
 - Dibenz(a,h)anthracene
 - Indeno(1,2,3-cd)pyrene
- MSD (Lab ID: 1727567)
 - Benzo(a)pyrene
 - Benzo(b)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(k)fluoranthene
 - Di-n-octylphthalate
 - Dibenz(a,h)anthracene
 - Indeno(1,2,3-cd)pyrene
- SB-03 (Lab ID: 30317705002)
 - Benzo(a)pyrene
 - Benzo(b)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(k)fluoranthene
 - Di-n-octylphthalate
 - Dibenz(a,h)anthracene
 - Indeno(1,2,3-cd)pyrene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 8270D
Description: 8270D MSSV Microwave
Client: Envirospec Engineering
Date: August 13, 2019

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 355679

S5: Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

- SB-03 (Lab ID: 30317705002)
 - 2-Fluorobiphenyl (S)
 - Terphenyl-d14 (S)
- SE-2 (Lab ID: 30317705005)
 - Terphenyl-d14 (S)

SR: Surrogate recovery was below laboratory control limits. Results may be biased low.

- SE-2 (Lab ID: 30317705005)
 - Terphenyl-d14 (S)

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

- SB-03 (Lab ID: 30317705002)
 - 2-Fluorobiphenyl (S)
 - Terphenyl-d14 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 355679

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 1727565)
 - 1-Methylnaphthalene

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 355679

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 1727564)
 - Azobenzene
- LCS (Lab ID: 1727565)
 - Azobenzene
- MS (Lab ID: 1727566)
 - Azobenzene

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 8270D
Description: 8270D MSSV Microwave
Client: Envirospec Engineering
Date: August 13, 2019

Analyte Comments:

QC Batch: 355679

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- MSD (Lab ID: 1727567)
 - Azobenzene
- SB-01 (Lab ID: 30317705004)
 - Azobenzene
- SB-03 (Lab ID: 30317705002)
 - Azobenzene
- SB-04 (Lab ID: 30317705003)
 - Azobenzene
- SE-2 (Lab ID: 30317705005)
 - Azobenzene
- SE-3 (Lab ID: 30317705007)
 - Azobenzene

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8270D

Description: 8270D MSSV Organics

Client: Envirospec Engineering

Date: August 13, 2019

General Information:

2 samples were analyzed for EPA 8270D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 355401

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1726145)
 - Di-n-octylphthalate
- GW-07 (Lab ID: 30317705001)
 - Di-n-octylphthalate
- LCS (Lab ID: 1726146)
 - Di-n-octylphthalate
- MS (Lab ID: 1726147)
 - Di-n-octylphthalate
- SW-2 (Lab ID: 30317705006)
 - Di-n-octylphthalate

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 355401

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 1726146)

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8270D

Description: 8270D MSSV Organics

Client: Envirospec Engineering

Date: August 13, 2019

QC Batch: 355401

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- Benzoic acid

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355401

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317639002

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1726147)
 - Benzoic acid

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1726147)
 - 3,3'-Dichlorobenzidine
 - 3-Nitroaniline
 - 4-Chloroaniline
 - 4-Nitroaniline

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1726147)
 - 3,3'-Dichlorobenzidine
 - 3-Nitroaniline
 - 4-Chloroaniline
 - 4-Nitroaniline
 - Benzoic acid
- MSD (Lab ID: 1726148)
 - 3,3'-Dichlorobenzidine
 - 3-Nitroaniline
 - 4-Chloroaniline
 - 4-Nitroaniline
 - 4-Nitrophenol
 - Benzoic acid

R1: RPD value was outside control limits.

- MSD (Lab ID: 1726148)
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,3-Dichlorobenzene
 - 2-Chlorophenol
 - 2-Methylnaphthalene
 - 2-Methylphenol(o-Cresol)
 - Benzo(g,h,i)perylene
 - Dibenz(a,h)anthracene
 - Hexachloro-1,3-butadiene
 - Hexachlorocyclopentadiene

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8270D

Description: 8270D MSSV Organics

Client: Envirospec Engineering

Date: August 13, 2019

QC Batch: 355401

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317639002

R1: RPD value was outside control limits.

- Hexachloroethane
- Indeno(1,2,3-cd)pyrene
- N-Nitrosodimethylamine
- bis(2-Chloroethoxy)methane

Additional Comments:

Analyte Comments:

QC Batch: 355401

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- BLANK (Lab ID: 1726145)
 - Azobenzene
- GW-07 (Lab ID: 30317705001)
 - Azobenzene
- LCS (Lab ID: 1726146)
 - Azobenzene
- MS (Lab ID: 1726147)
 - Azobenzene
- MSD (Lab ID: 1726148)
 - Azobenzene
- SW-2 (Lab ID: 30317705006)
 - Azobenzene

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 13, 2019

General Information:

5 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 356010

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1729159)
 - Chloroethane
- LCS (Lab ID: 1729160)
 - Chloroethane
- SB-01 (Lab ID: 30317705004)
 - Chloroethane
- SB-03 (Lab ID: 30317705002)
 - Chloroethane
- SB-04 (Lab ID: 30317705003)
 - Chloroethane
- SE-2 (Lab ID: 30317705005)
 - Chloroethane
- SE-3 (Lab ID: 30317705007)
 - Chloroethane

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 356010

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

- SB-01 (Lab ID: 30317705004)
 - 1,2-Dichloroethane-d4 (S)
- SB-03 (Lab ID: 30317705002)
 - 1,2-Dichloroethane-d4 (S)

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 13, 2019

QC Batch: 356010

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

- SB-04 (Lab ID: 30317705003)
 - 1,2-Dichloroethane-d4 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 356010

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 1729160)
 - 1,1,1,2-Tetrachloroethane

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 356010

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 356010

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SB-01 (Lab ID: 30317705004)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: Envirospec Engineering

Date: August 13, 2019

Analyte Comments:

QC Batch: 356010

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SB-01 (Lab ID: 30317705004)
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- SB-03 (Lab ID: 30317705002)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: Envirospec Engineering

Date: August 13, 2019

Analyte Comments:

QC Batch: 356010

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SB-03 (Lab ID: 30317705002)
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- SB-04 (Lab ID: 30317705003)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: Envirospec Engineering

Date: August 13, 2019

Analyte Comments:

QC Batch: 356010

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SB-04 (Lab ID: 30317705003)
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- SE-2 (Lab ID: 30317705005)
 - 1,1-Dichloroethane
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: Envirospec Engineering

Date: August 13, 2019

Analyte Comments:

QC Batch: 356010

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SE-2 (Lab ID: 30317705005)
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene
 - Trichloroethene
 - Vinyl chloride
- SE-3 (Lab ID: 30317705007)
 - 1,1-Dichloroethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: Envirospec Engineering
Date: August 13, 2019

Analyte Comments:

QC Batch: 356010

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SE-3 (Lab ID: 30317705007)
 - 1,1-Dichloroethene
 - 1,1,1-Trichloroethane
 - 1,1,2-Trichloroethane
 - 1,1,2,2-Tetrachloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - 1,2-Dichloroethane
 - 1,2-Dichloropropane
 - 1,2,4-Trimethylbenzene
 - 1,3-Dichlorobenzene
 - 1,3,5-Trimethylbenzene
 - 1,4-Dichlorobenzene
 - 2-Butanone (MEK)
 - 2-Hexanone
 - Carbon disulfide
 - Acetone
 - Bromochloromethane
 - Benzene
 - Bromodichloromethane
 - Bromomethane
 - Bromoform
 - cis-1,2-Dichloroethene
 - cis-1,3-Dichloropropene
 - Carbon tetrachloride
 - Chlorobenzene
 - Chloroethane
 - Chloroform
 - Chloromethane
 - Dibromochloromethane
 - Ethylbenzene
 - Isopropylbenzene (Cumene)
 - Methylene Chloride
 - Methyl-tert-butyl ether
 - 4-Methyl-2-pentanone (MIBK)
 - m&p-Xylene
 - Naphthalene
 - o-Xylene
 - Styrene
 - trans-1,2-Dichloroethene
 - trans-1,3-Dichloropropene
 - Tetrachloroethene
 - Toluene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8260C

Description: 8260C MSV 5035 Low Level

Client: Envirospec Engineering

Date: August 13, 2019

Analyte Comments:

QC Batch: 356010

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SE-3 (Lab ID: 30317705007)

- Trichloroethene

- Vinyl chloride

3c: RF below method recommended limit.

- BLANK (Lab ID: 1729159)

- Acetone

- Bromomethane

- LCS (Lab ID: 1729160)

- Acetone

- Bromomethane

- SB-01 (Lab ID: 30317705004)

- Acetone

- Bromomethane

- SB-03 (Lab ID: 30317705002)

- Acetone

- Bromomethane

- SB-04 (Lab ID: 30317705003)

- Acetone

- Bromomethane

- SE-2 (Lab ID: 30317705005)

- Acetone

- Bromomethane

- SE-3 (Lab ID: 30317705007)

- Acetone

- Bromomethane

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB
Pace Project No.: 30317705

Method: EPA 8260C
Description: 8260C MSV
Client: Envirospec Engineering
Date: August 13, 2019

General Information:

3 samples were analyzed for EPA 8260C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 355494

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1726716)
 - Bromomethane
- GW-07 (Lab ID: 30317705001)
 - Bromomethane
- LCS (Lab ID: 1726717)
 - Bromomethane
- MS (Lab ID: 1727064)
 - Bromomethane
- MSD (Lab ID: 1727065)
 - Bromomethane
- SW-2 (Lab ID: 30317705006)
 - Bromomethane
- Trip Blank (Lab ID: 30317705008)
 - Bromomethane

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 8260C

Description: 8260C MSV

Client: Envirospec Engineering

Date: August 13, 2019

Additional Comments:

Analyte Comments:

QC Batch: 355494

7c: The analyte did not meet the method recommended minimum RF.

- BLANK (Lab ID: 1726716)
 - Bromomethane
- GW-07 (Lab ID: 30317705001)
 - Bromomethane
- LCS (Lab ID: 1726717)
 - Bromomethane
- MS (Lab ID: 1727064)
 - Bromomethane
- MSD (Lab ID: 1727065)
 - Bromomethane
- SW-2 (Lab ID: 30317705006)
 - Bromomethane
- Trip Blank (Lab ID: 30317705008)
 - Bromomethane

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: SM 4500CNE-2011

Description: 4500CNE Cyanide, Total

Client: Envirospec Engineering

Date: August 13, 2019

General Information:

2 samples were analyzed for SM 4500CNE-2011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with SM 4500CNC-2011 with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355398

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30316593001,30317705001

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1726121)
 - Cyanide
- MSD (Lab ID: 1726122)
 - Cyanide

Additional Comments:

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PROJECT NARRATIVE

Project: GW & SB

Pace Project No.: 30317705

Method: EPA 9014 Total CN

Description: 9014 Cyanide, Total

Client: Envirospec Engineering

Date: August 13, 2019

General Information:

5 samples were analyzed for EPA 9014 Total CN. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 9010C with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 355990

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30317705002

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1729126)
 - Cyanide
- MSD (Lab ID: 1729127)
 - Cyanide

R1: RPD value was outside control limits.

- MSD (Lab ID: 1729127)
 - Cyanide

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: **GW-07** Lab ID: **30317705001** Collected: 08/02/19 07:30 Received: 08/03/19 10:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8081B Organochlorine Pesticide Analytical Method: EPA 8081B Preparation Method: EPA 3510C									
Aldrin	ND	ug/L	0.025	0.0022	1	08/07/19 08:36	08/12/19 16:00	309-00-2	1c
alpha-BHC	ND	ug/L	0.025	0.0033	1	08/07/19 08:36	08/12/19 16:00	319-84-6	1c
beta-BHC	0.033	ug/L	0.025	0.0084	1	08/07/19 08:36	08/12/19 16:00	319-85-7	1c, C2
delta-BHC	ND	ug/L	0.025	0.0067	1	08/07/19 08:36	08/12/19 16:00	319-86-8	1c
gamma-BHC (Lindane)	ND	ug/L	0.025	0.0024	1	08/07/19 08:36	08/12/19 16:00	58-89-9	1c
alpha-Chlordane	0.045	ug/L	0.025	0.0017	1	08/07/19 08:36	08/12/19 16:00	5103-71-9	1c
gamma-Chlordane	ND	ug/L	0.025	0.0054	1	08/07/19 08:36	08/12/19 16:00	5103-74-2	1c
4,4'-DDD	ND	ug/L	0.051	0.0037	1	08/07/19 08:36	08/12/19 16:00	72-54-8	1c
4,4'-DDE	ND	ug/L	0.051	0.0033	1	08/07/19 08:36	08/12/19 16:00	72-55-9	1c
4,4'-DDT	ND	ug/L	0.051	0.0028	1	08/07/19 08:36	08/12/19 16:00	50-29-3	1c
Dieldrin	ND	ug/L	0.051	0.0018	1	08/07/19 08:36	08/12/19 16:00	60-57-1	1c
Endosulfan I	0.032	ug/L	0.025	0.0015	1	08/07/19 08:36	08/12/19 16:00	959-98-8	1c
Endosulfan II	ND	ug/L	0.051	0.0021	1	08/07/19 08:36	08/12/19 16:00	33213-65-9	1c
Endosulfan sulfate	ND	ug/L	0.051	0.0024	1	08/07/19 08:36	08/12/19 16:00	1031-07-8	1c
Endrin	ND	ug/L	0.051	0.0049	1	08/07/19 08:36	08/12/19 16:00	72-20-8	1c
Endrin aldehyde	ND	ug/L	0.051	0.0033	1	08/07/19 08:36	08/12/19 16:00	7421-93-4	1c
Endrin ketone	ND	ug/L	0.051	0.0019	1	08/07/19 08:36	08/12/19 16:00	53494-70-5	1c
Heptachlor	ND	ug/L	0.025	0.0021	1	08/07/19 08:36	08/12/19 16:00	76-44-8	1c
Heptachlor epoxide	ND	ug/L	0.025	0.0015	1	08/07/19 08:36	08/12/19 16:00	1024-57-3	1c
Methoxychlor	ND	ug/L	0.25	0.014	1	08/07/19 08:36	08/12/19 16:00	72-43-5	1c
Toxaphene	ND	ug/L	0.51	0.17	1	08/07/19 08:36	08/12/19 16:00	8001-35-2	1c
Surrogates									
Tetrachloro-m-xylene (S)	78	%	44-93		1	08/07/19 08:36	08/12/19 16:00	877-09-8	
Decachlorobiphenyl (S)	69	%	24-108		1	08/07/19 08:36	08/12/19 16:00	2051-24-3	CH
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3510C									
PCB-1016 (Aroclor 1016)	ND	ug/L	0.25	0.14	1	08/07/19 08:36	08/08/19 17:40	12674-11-2	1c
PCB-1221 (Aroclor 1221)	ND	ug/L	0.25	0.17	1	08/07/19 08:36	08/08/19 17:40	11104-28-2	1c
PCB-1232 (Aroclor 1232)	ND	ug/L	0.25	0.074	1	08/07/19 08:36	08/08/19 17:40	11141-16-5	1c
PCB-1242 (Aroclor 1242)	ND	ug/L	0.25	0.11	1	08/07/19 08:36	08/08/19 17:40	53469-21-9	1c
PCB-1248 (Aroclor 1248)	ND	ug/L	0.25	0.095	1	08/07/19 08:36	08/08/19 17:40	12672-29-6	1c
PCB-1254 (Aroclor 1254)	ND	ug/L	0.25	0.023	1	08/07/19 08:36	08/08/19 17:40	11097-69-1	1c
PCB-1260 (Aroclor 1260)	ND	ug/L	0.25	0.025	1	08/07/19 08:36	08/08/19 17:40	11096-82-5	1c
Surrogates									
Tetrachloro-m-xylene (S)	68	%	36-108		1	08/07/19 08:36	08/08/19 17:40	877-09-8	
Decachlorobiphenyl (S)	59	%	10-120		1	08/07/19 08:36	08/08/19 17:40	2051-24-3	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3005A									
Aluminum	26700	ug/L	50.0	20.3	1	08/05/19 14:24	08/06/19 14:00	7429-90-5	
Antimony	ND	ug/L	6.0	3.3	1	08/05/19 14:24	08/06/19 14:00	7440-36-0	
Arsenic	24.2	ug/L	5.0	2.0	1	08/05/19 14:24	08/06/19 14:00	7440-38-2	
Barium	722	ug/L	10.0	0.68	1	08/05/19 14:24	08/06/19 14:00	7440-39-3	
Beryllium	1.2	ug/L	1.0	0.17	1	08/05/19 14:24	08/06/19 14:00	7440-41-7	
Boron	104	ug/L	50.0	2.3	1	08/05/19 14:24	08/06/19 14:00	7440-42-8	
Cadmium	ND	ug/L	3.0	0.34	1	08/05/19 14:24	08/06/19 14:00	7440-43-9	
Calcium	102000	ug/L	1000	99.9	1	08/05/19 14:24	08/06/19 14:00	7440-70-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: GW-07 Lab ID: 30317705001 Collected: 08/02/19 07:30 Received: 08/03/19 10:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3005A									
Chromium	44.5	ug/L	5.0	0.35	1	08/05/19 14:24	08/06/19 14:00	7440-47-3	8c
Cobalt	17.9	ug/L	5.0	0.53	1	08/05/19 14:24	08/06/19 14:00	7440-48-4	
Copper	115	ug/L	5.0	2.7	1	08/05/19 14:24	08/06/19 14:00	7440-50-8	
Iron	52000	ug/L	70.0	40.9	1	08/05/19 14:24	08/06/19 14:00	7439-89-6	
Lead	57.2	ug/L	5.0	4.9	1	08/05/19 14:24	08/06/19 14:00	7439-92-1	
Magnesium	21700	ug/L	200	28.4	1	08/05/19 14:24	08/06/19 14:00	7439-95-4	
Manganese	5110	ug/L	5.0	1.2	1	08/05/19 14:24	08/06/19 14:00	7439-96-5	
Molybdenum	ND	ug/L	20.0	0.85	1	08/05/19 14:24	08/06/19 14:00	7439-98-7	
Nickel	45.7	ug/L	10.0	1.5	1	08/05/19 14:24	08/06/19 14:00	7440-02-0	
Potassium	9720	ug/L	500	72.4	1	08/05/19 14:24	08/06/19 14:00	7440-09-7	
Selenium	ND	ug/L	8.0	5.5	1	08/05/19 14:24	08/06/19 14:00	7782-49-2	
Silver	ND	ug/L	6.0	1.4	1	08/05/19 14:24	08/06/19 14:00	7440-22-4	
Sodium	8690	ug/L	1000	423	1	08/05/19 14:24	08/06/19 14:00	7440-23-5	
Thallium	ND	ug/L	10.0	4.0	1	08/05/19 14:24	08/06/19 14:00	7440-28-0	
Vanadium	46.4	ug/L	5.0	0.57	1	08/05/19 14:24	08/06/19 14:00	7440-62-2	
Zinc	167	ug/L	10.0	2.4	1	08/05/19 14:24	08/06/19 14:00	7440-66-6	8c
6010C MET ICP, Lab Filtered Analytical Method: EPA 6010C Preparation Method: EPA 3005A									
Aluminum, Dissolved	368	ug/L	50.0	20.3	1	08/05/19 15:40	08/07/19 09:10	7429-90-5	8c
Antimony, Dissolved	ND	ug/L	6.0	3.3	1	08/05/19 15:40	08/07/19 09:10	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.0	1	08/05/19 15:40	08/07/19 09:10	7440-38-2	
Barium, Dissolved	406	ug/L	10.0	0.68	1	08/05/19 15:40	08/07/19 09:10	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.17	1	08/05/19 15:40	08/07/19 09:10	7440-41-7	
Boron, Dissolved	97.9	ug/L	50.0	2.3	1	08/05/19 15:40	08/07/19 09:10	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.34	1	08/05/19 15:40	08/07/19 09:10	7440-43-9	
Calcium, Dissolved	103000	ug/L	1000	99.9	1	08/05/19 15:40	08/07/19 09:10	7440-70-2	5c
Chromium, Dissolved	ND	ug/L	5.0	0.35	1	08/05/19 15:40	08/07/19 09:10	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.53	1	08/05/19 15:40	08/07/19 09:10	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	2.7	1	08/05/19 15:40	08/07/19 09:10	7440-50-8	
Iron, Dissolved	896	ug/L	70.0	40.9	1	08/05/19 15:40	08/07/19 09:10	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	4.9	1	08/05/19 15:40	08/07/19 09:10	7439-92-1	
Magnesium, Dissolved	16100	ug/L	200	28.4	1	08/05/19 15:40	08/07/19 09:10	7439-95-4	
Manganese, Dissolved	2800	ug/L	5.0	1.2	1	08/05/19 15:40	08/07/19 09:10	7439-96-5	5c
Molybdenum, Dissolved	ND	ug/L	20.0	0.85	1	08/05/19 15:40	08/07/19 09:10	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.5	1	08/05/19 15:40	08/07/19 09:10	7440-02-0	
Potassium, Dissolved	4680	ug/L	500	72.4	1	08/05/19 15:40	08/07/19 09:10	7440-09-7	
Selenium, Dissolved	ND	ug/L	8.0	5.5	1	08/05/19 15:40	08/07/19 09:10	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	1.4	1	08/05/19 15:40	08/07/19 09:10	7440-22-4	
Sodium, Dissolved	9000	ug/L	1000	423	1	08/05/19 15:40	08/07/19 09:10	7440-23-5	5c
Thallium, Dissolved	ND	ug/L	10.0	4.0	1	08/05/19 15:40	08/07/19 09:10	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.57	1	08/05/19 15:40	08/07/19 09:10	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	2.4	1	08/05/19 15:40	08/07/19 09:10	7440-66-6	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	ug/L	0.20	0.030	1	08/05/19 20:52	08/06/19 09:20	7439-97-6	5c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: GW-07 Lab ID: 30317705001 Collected: 08/02/19 07:30 Received: 08/03/19 10:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Lab Filtered Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	08/05/19 16:31	08/05/19 22:08	7439-97-6	4c
8270D MSSV Organics Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	4.7	ug/L	0.99	0.39	1	08/07/19 11:44	08/08/19 20:30	83-32-9	
Acenaphthylene	ND	ug/L	0.99	0.38	1	08/07/19 11:44	08/08/19 20:30	208-96-8	
Anthracene	ND	ug/L	0.99	0.26	1	08/07/19 11:44	08/08/19 20:30	120-12-7	
Azobenzene	ND	ug/L	0.99	0.35	1	08/07/19 11:44	08/08/19 20:30	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	0.99	0.20	1	08/07/19 11:44	08/08/19 20:30	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.99	0.18	1	08/07/19 11:44	08/08/19 20:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.99	0.23	1	08/07/19 11:44	08/08/19 20:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.99	0.29	1	08/07/19 11:44	08/08/19 20:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.99	0.25	1	08/07/19 11:44	08/08/19 20:30	207-08-9	
Benzoic acid	ND	ug/L	14.9	2.8	1	08/07/19 11:44	08/08/19 20:30	65-85-0	L2
Benzyl alcohol	ND	ug/L	0.99	0.69	1	08/07/19 11:44	08/08/19 20:30	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	0.99	0.39	1	08/07/19 11:44	08/08/19 20:30	101-55-3	
Butylbenzylphthalate	ND	ug/L	0.99	0.29	1	08/07/19 11:44	08/08/19 20:30	85-68-7	
Carbazole	ND	ug/L	0.99	0.23	1	08/07/19 11:44	08/08/19 20:30	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	0.99	0.43	1	08/07/19 11:44	08/08/19 20:30	59-50-7	
4-Chloroaniline	3.7	ug/L	0.99	0.21	1	08/07/19 11:44	08/08/19 20:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	0.99	0.35	1	08/07/19 11:44	08/08/19 20:30	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	0.99	0.41	1	08/07/19 11:44	08/08/19 20:30	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	0.99	0.40	1	08/07/19 11:44	08/08/19 20:30	108-60-1	
2-Chloronaphthalene	ND	ug/L	0.99	0.33	1	08/07/19 11:44	08/08/19 20:30	91-58-7	
2-Chlorophenol	ND	ug/L	0.99	0.32	1	08/07/19 11:44	08/08/19 20:30	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	0.99	0.36	1	08/07/19 11:44	08/08/19 20:30	7005-72-3	
Chrysene	ND	ug/L	0.99	0.20	1	08/07/19 11:44	08/08/19 20:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.99	0.31	1	08/07/19 11:44	08/08/19 20:30	53-70-3	
Dibenzofuran	1.1	ug/L	0.99	0.36	1	08/07/19 11:44	08/08/19 20:30	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	0.99	0.34	1	08/07/19 11:44	08/08/19 20:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.99	0.30	1	08/07/19 11:44	08/08/19 20:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.99	0.27	1	08/07/19 11:44	08/08/19 20:30	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	0.99	0.22	1	08/07/19 11:44	08/08/19 20:30	91-94-1	
2,4-Dichlorophenol	ND	ug/L	0.99	0.33	1	08/07/19 11:44	08/08/19 20:30	120-83-2	
Diethylphthalate	ND	ug/L	0.99	0.36	1	08/07/19 11:44	08/08/19 20:30	84-66-2	
2,4-Dimethylphenol	1.3	ug/L	0.99	0.36	1	08/07/19 11:44	08/08/19 20:30	105-67-9	
Dimethylphthalate	ND	ug/L	0.99	0.43	1	08/07/19 11:44	08/08/19 20:30	131-11-3	
Di-n-butylphthalate	ND	ug/L	0.99	0.32	1	08/07/19 11:44	08/08/19 20:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	0.63	1	08/07/19 11:44	08/08/19 20:30	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	0.58	1	08/07/19 11:44	08/08/19 20:30	51-28-5	
2,4-Dinitrotoluene	2.2	ug/L	0.99	0.35	1	08/07/19 11:44	08/08/19 20:30	121-14-2	
2,6-Dinitrotoluene	2.8	ug/L	0.99	0.40	1	08/07/19 11:44	08/08/19 20:30	606-20-2	
Di-n-octylphthalate	ND	ug/L	0.99	0.27	1	08/07/19 11:44	08/08/19 20:30	117-84-0	CH
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.99	0.36	1	08/07/19 11:44	08/08/19 20:30	117-81-7	
Fluoranthene	ND	ug/L	0.99	0.23	1	08/07/19 11:44	08/08/19 20:30	206-44-0	
Fluorene	5.2	ug/L	0.99	0.37	1	08/07/19 11:44	08/08/19 20:30	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	0.99	0.33	1	08/07/19 11:44	08/08/19 20:30	87-68-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: GW-07 **Lab ID: 30317705001** Collected: 08/02/19 07:30 Received: 08/03/19 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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8270D MSSV Organics

Analytical Method: EPA 8270D Preparation Method: EPA 3510C

Hexachlorobenzene	ND	ug/L	0.99	0.30	1	08/07/19 11:44	08/08/19 20:30	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	0.99	0.19	1	08/07/19 11:44	08/08/19 20:30	77-47-4	
Hexachloroethane	ND	ug/L	0.99	0.30	1	08/07/19 11:44	08/08/19 20:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.99	0.30	1	08/07/19 11:44	08/08/19 20:30	193-39-5	
Isophorone	1.9	ug/L	0.99	0.57	1	08/07/19 11:44	08/08/19 20:30	78-59-1	
1-Methylnaphthalene	3.5	ug/L	0.99	0.36	1	08/07/19 11:44	08/08/19 20:30	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.99	0.34	1	08/07/19 11:44	08/08/19 20:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	0.99	0.36	1	08/07/19 11:44	08/08/19 20:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1.9	1	08/07/19 11:44	08/08/19 20:30		
Naphthalene	ND	ug/L	0.99	0.35	1	08/07/19 11:44	08/08/19 20:30	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	0.71	1	08/07/19 11:44	08/08/19 20:30	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	0.95	1	08/07/19 11:44	08/08/19 20:30	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1.8	1	08/07/19 11:44	08/08/19 20:30	100-01-6	
Nitrobenzene	ND	ug/L	0.99	0.37	1	08/07/19 11:44	08/08/19 20:30	98-95-3	
2-Nitrophenol	ND	ug/L	0.99	0.35	1	08/07/19 11:44	08/08/19 20:30	88-75-5	
4-Nitrophenol	ND	ug/L	0.99	0.75	1	08/07/19 11:44	08/08/19 20:30	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	0.99	0.26	1	08/07/19 11:44	08/08/19 20:30	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	0.99	0.53	1	08/07/19 11:44	08/08/19 20:30	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	0.99	0.25	1	08/07/19 11:44	08/08/19 20:30	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1.0	1	08/07/19 11:44	08/08/19 20:30	87-86-5	
Phenanthrene	8.1	ug/L	0.99	0.34	1	08/07/19 11:44	08/08/19 20:30	85-01-8	
Phenol	ND	ug/L	0.99	0.22	1	08/07/19 11:44	08/08/19 20:30	108-95-2	
Pyrene	ND	ug/L	0.99	0.30	1	08/07/19 11:44	08/08/19 20:30	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	0.99	0.31	1	08/07/19 11:44	08/08/19 20:30	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	0.66	1	08/07/19 11:44	08/08/19 20:30	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	0.99	0.36	1	08/07/19 11:44	08/08/19 20:30	88-06-2	

Surrogates

Nitrobenzene-d5 (S)	96	%	10-120		1	08/07/19 11:44	08/08/19 20:30	4165-60-0	
2-Fluorobiphenyl (S)	69	%	10-121		1	08/07/19 11:44	08/08/19 20:30	321-60-8	
Terphenyl-d14 (S)	61	%	43-119		1	08/07/19 11:44	08/08/19 20:30	1718-51-0	
Phenol-d6 (S)	20	%	10-58		1	08/07/19 11:44	08/08/19 20:30	13127-88-3	
2-Fluorophenol (S)	25	%	10-84		1	08/07/19 11:44	08/08/19 20:30	367-12-4	
2,4,6-Tribromophenol (S)	47	%	33-129		1	08/07/19 11:44	08/08/19 20:30	118-79-6	

8260C MSV

Analytical Method: EPA 8260C

Acetone	16.3	ug/L	10.0	5.6	1		08/07/19 14:30	67-64-1	
Benzene	ND	ug/L	1.0	0.34	1		08/07/19 14:30	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		08/07/19 14:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		08/07/19 14:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.56	1		08/07/19 14:30	75-25-2	
Bromomethane	ND	ug/L	1.0	0.73	1		08/07/19 14:30	74-83-9	7c, CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		08/07/19 14:30		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		08/07/19 14:30	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		08/07/19 14:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		08/07/19 14:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		08/07/19 14:30	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: GW-07 **Lab ID: 30317705001** Collected: 08/02/19 07:30 Received: 08/03/19 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV Analytical Method: EPA 8260C									
Chloroethane	ND	ug/L	1.0	0.64	1		08/07/19 14:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.39	1		08/07/19 14:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.40	1		08/07/19 14:30	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.43	1		08/07/19 14:30	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		08/07/19 14:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		08/07/19 14:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		08/07/19 14:30	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.24	1		08/07/19 14:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		08/07/19 14:30	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		08/07/19 14:30	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		08/07/19 14:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		08/07/19 14:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.28	1		08/07/19 14:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/19 14:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		08/07/19 14:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		08/07/19 14:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		08/07/19 14:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		08/07/19 14:30	591-78-6	
Isopropylbenzene (Cumene)	1.6	ug/L	1.0	0.47	1		08/07/19 14:30	98-82-8	
Methylene Chloride	3.2	ug/L	1.0	0.64	1		08/07/19 14:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		08/07/19 14:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		08/07/19 14:30	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		08/07/19 14:30	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		08/07/19 14:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		08/07/19 14:30	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		08/07/19 14:30	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		08/07/19 14:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		08/07/19 14:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		08/07/19 14:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		08/07/19 14:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.29	1		08/07/19 14:30	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		08/07/19 14:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		08/07/19 14:30	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		08/07/19 14:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		08/07/19 14:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		08/07/19 14:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		08/07/19 14:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	78-122		1		08/07/19 14:30	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		08/07/19 14:30	17060-07-0	
Toluene-d8 (S)	93	%	80-120		1		08/07/19 14:30	2037-26-5	
Dibromofluoromethane (S)	101	%	80-120		1		08/07/19 14:30	1868-53-7	

4500CNE Cyanide, Total Analytical Method: SM 4500CNE-2011 Preparation Method: SM 4500CNC-2011

Cyanide	ND	mg/L	0.010	0.0057	1	08/06/19 15:46	08/08/19 16:50	57-12-5	ML
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: **SB-03** Lab ID: **30317705002** Collected: 08/01/19 14:15 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides									
Analytical Method: EPA 8081B Preparation Method: EPA 3546									
Aldrin	ND	ug/kg	8.8	1.6	5	08/06/19 07:46	08/07/19 16:34	309-00-2	
alpha-BHC	ND	ug/kg	8.8	1.7	5	08/06/19 07:46	08/07/19 16:34	319-84-6	
beta-BHC	ND	ug/kg	8.8	6.4	5	08/06/19 07:46	08/07/19 16:34	319-85-7	CH
delta-BHC	ND	ug/kg	8.8	8.5	5	08/06/19 07:46	08/07/19 16:34	319-86-8	
gamma-BHC (Lindane)	ND	ug/kg	8.8	2.3	5	08/06/19 07:46	08/07/19 16:34	58-89-9	
alpha-Chlordane	ND	ug/kg	8.8	0.95	5	08/06/19 07:46	08/07/19 16:34	5103-71-9	
gamma-Chlordane	ND	ug/kg	8.8	2.3	5	08/06/19 07:46	08/07/19 16:34	5103-74-2	
4,4'-DDD	ND	ug/kg	17.6	5.8	5	08/06/19 07:46	08/07/19 16:34	72-54-8	
4,4'-DDE	ND	ug/kg	17.6	3.1	5	08/06/19 07:46	08/07/19 16:34	72-55-9	
4,4'-DDT	ND	ug/kg	17.6	4.6	5	08/06/19 07:46	08/07/19 16:34	50-29-3	
Dieldrin	ND	ug/kg	17.6	1.8	5	08/06/19 07:46	08/07/19 16:34	60-57-1	
Endosulfan I	ND	ug/kg	8.8	1.1	5	08/06/19 07:46	08/07/19 16:34	959-98-8	
Endosulfan II	ND	ug/kg	17.6	2.5	5	08/06/19 07:46	08/07/19 16:34	33213-65-9	
Endosulfan sulfate	ND	ug/kg	17.6	1.6	5	08/06/19 07:46	08/07/19 16:34	1031-07-8	
Endrin	ND	ug/kg	17.6	2.8	5	08/06/19 07:46	08/07/19 16:34	72-20-8	
Endrin aldehyde	ND	ug/kg	17.6	4.2	5	08/06/19 07:46	08/07/19 16:34	7421-93-4	
Endrin ketone	ND	ug/kg	17.6	1.6	5	08/06/19 07:46	08/07/19 16:34	53494-70-5	
Heptachlor	ND	ug/kg	8.8	1.1	5	08/06/19 07:46	08/07/19 16:34	76-44-8	C2
Heptachlor epoxide	ND	ug/kg	8.8	2.5	5	08/06/19 07:46	08/07/19 16:34	1024-57-3	
Methoxychlor	ND	ug/kg	88.1	8.5	5	08/06/19 07:46	08/07/19 16:34	72-43-5	
Toxaphene	ND	ug/kg	88.1	29.0	5	08/06/19 07:46	08/07/19 16:34	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	51-88		5	08/06/19 07:46	08/07/19 16:34	877-09-8	ST
Decachlorobiphenyl (S)	80	%	50-96		5	08/06/19 07:46	08/07/19 16:34	2051-24-3	
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	88.1	54.4	5	08/06/19 07:46	08/09/19 19:00	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	88.1	78.1	5	08/06/19 07:46	08/09/19 19:00	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	88.1	80.2	5	08/06/19 07:46	08/09/19 19:00	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	88.1	64.4	5	08/06/19 07:46	08/09/19 19:00	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	88.1	50.7	5	08/06/19 07:46	08/09/19 19:00	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	88.1	47.0	5	08/06/19 07:46	08/09/19 19:00	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	88.1	50.1	5	08/06/19 07:46	08/09/19 19:00	11096-82-5	ED
PCB, Total	ND	ug/kg	793	498	5	08/06/19 07:46	08/09/19 19:00	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	34-114		5	08/06/19 07:46	08/09/19 19:00	877-09-8	
Decachlorobiphenyl (S)	103	%	38-139		5	08/06/19 07:46	08/09/19 19:00	2051-24-3	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	16000	mg/kg	9.8	2.4	1	08/06/19 07:49	08/09/19 07:18	7429-90-5	
Antimony	ND	mg/kg	0.59	0.47	1	08/06/19 07:49	08/09/19 07:18	7440-36-0	
Arsenic	10.3	mg/kg	0.49	0.47	1	08/06/19 07:49	08/09/19 07:18	7440-38-2	
Barium	135	mg/kg	2.0	0.092	1	08/06/19 07:49	08/09/19 07:18	7440-39-3	
Beryllium	0.81	mg/kg	0.20	0.030	1	08/06/19 07:49	08/09/19 07:18	7440-41-7	
Boron	7.6	mg/kg	4.9	0.17	1	08/06/19 07:49	08/09/19 07:18	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SB-03 **Lab ID: 30317705002** Collected: 08/01/19 14:15 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Cadmium	ND	mg/kg	0.29	0.059	1	08/06/19 07:49	08/09/19 07:18	7440-43-9	
Calcium	8920	mg/kg	195	4.7	1	08/06/19 07:49	08/09/19 07:18	7440-70-2	
Chromium	25.6	mg/kg	0.49	0.090	1	08/06/19 07:49	08/09/19 07:18	7440-47-3	
Cobalt	17.3	mg/kg	0.98	0.10	1	08/06/19 07:49	08/09/19 07:18	7440-48-4	
Copper	46.5	mg/kg	0.98	0.57	1	08/06/19 07:49	08/09/19 07:18	7440-50-8	
Iron	33000	mg/kg	9.8	1.1	1	08/06/19 07:49	08/09/19 07:18	7439-89-6	
Lead	20.5	mg/kg	0.49	0.48	1	08/06/19 07:49	08/09/19 07:18	7439-92-1	
Magnesium	10100	mg/kg	48.8	5.7	1	08/06/19 07:49	08/09/19 07:18	7439-95-4	
Manganese	881	mg/kg	0.98	0.098	1	08/06/19 07:49	08/09/19 07:18	7439-96-5	
Molybdenum	ND	mg/kg	2.0	0.14	1	08/06/19 07:49	08/09/19 07:18	7439-98-7	
Nickel	33.7	mg/kg	2.0	0.24	1	08/06/19 07:49	08/09/19 07:18	7440-02-0	
Potassium	2530	mg/kg	48.8	44.9	1	08/06/19 07:49	08/09/19 07:18	7440-09-7	
Selenium	ND	mg/kg	0.78	0.57	1	08/06/19 07:49	08/09/19 07:18	7782-49-2	
Silver	ND	mg/kg	0.59	0.094	1	08/06/19 07:49	08/09/19 07:18	7440-22-4	
Sodium	ND	mg/kg	488	35.5	1	08/06/19 07:49	08/09/19 07:18	7440-23-5	
Thallium	ND	mg/kg	2.0	0.60	1	08/06/19 07:49	08/09/19 07:18	7440-28-0	
Vanadium	26.1	mg/kg	0.98	0.079	1	08/06/19 07:49	08/09/19 07:18	7440-62-2	
Zinc	86.8	mg/kg	0.98	0.16	1	08/06/19 07:49	08/09/19 07:18	7440-66-6	8c,B

7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.11	0.0053	1	08/06/19 09:35	08/06/19 18:17	7439-97-6	

8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	355	121	1	08/08/19 08:56	08/09/19 19:57	83-32-9	
Acenaphthylene	ND	ug/kg	355	107	1	08/08/19 08:56	08/09/19 19:57	208-96-8	
Anthracene	ND	ug/kg	355	81.7	1	08/08/19 08:56	08/09/19 19:57	120-12-7	
Azobenzene	ND	ug/kg	355	125	1	08/08/19 08:56	08/09/19 19:57	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	355	160	1	08/08/19 08:56	08/09/19 19:57	56-55-3	
Benzo(a)pyrene	ND	ug/kg	355	110	1	08/08/19 08:56	08/09/19 19:57	50-32-8	IS
Benzo(b)fluoranthene	ND	ug/kg	355	108	1	08/08/19 08:56	08/09/19 19:57	205-99-2	IS
Benzo(g,h,i)perylene	ND	ug/kg	355	123	1	08/08/19 08:56	08/09/19 19:57	191-24-2	IS
Benzo(k)fluoranthene	ND	ug/kg	355	157	1	08/08/19 08:56	08/09/19 19:57	207-08-9	IS
Benzoic acid	ND	ug/kg	5330	1800	1	08/08/19 08:56	08/09/19 19:57	65-85-0	
Benzyl alcohol	ND	ug/kg	355	314	1	08/08/19 08:56	08/09/19 19:57	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	355	131	1	08/08/19 08:56	08/09/19 19:57	101-55-3	
Butylbenzylphthalate	ND	ug/kg	355	99.9	1	08/08/19 08:56	08/09/19 19:57	85-68-7	
Carbazole	ND	ug/kg	355	140	1	08/08/19 08:56	08/09/19 19:57	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	355	57.2	1	08/08/19 08:56	08/09/19 19:57	59-50-7	
4-Chloroaniline	ND	ug/kg	355	62.6	1	08/08/19 08:56	08/09/19 19:57	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	355	141	1	08/08/19 08:56	08/09/19 19:57	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	355	64.9	1	08/08/19 08:56	08/09/19 19:57	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	355	302	1	08/08/19 08:56	08/09/19 19:57	108-60-1	
2-Chloronaphthalene	ND	ug/kg	355	102	1	08/08/19 08:56	08/09/19 19:57	91-58-7	
2-Chlorophenol	ND	ug/kg	355	111	1	08/08/19 08:56	08/09/19 19:57	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	355	103	1	08/08/19 08:56	08/09/19 19:57	7005-72-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: **SB-03** Lab ID: **30317705002** Collected: 08/01/19 14:15 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Chrysene	ND	ug/kg	355	131	1	08/08/19 08:56	08/09/19 19:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	355	135	1	08/08/19 08:56	08/09/19 19:57	53-70-3	IS
Dibenzofuran	ND	ug/kg	355	114	1	08/08/19 08:56	08/09/19 19:57	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	355	111	1	08/08/19 08:56	08/09/19 19:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	355	105	1	08/08/19 08:56	08/09/19 19:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	355	49.1	1	08/08/19 08:56	08/09/19 19:57	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	355	104	1	08/08/19 08:56	08/09/19 19:57	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	355	160	1	08/08/19 08:56	08/09/19 19:57	120-83-2	
Diethylphthalate	ND	ug/kg	355	125	1	08/08/19 08:56	08/09/19 19:57	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	355	108	1	08/08/19 08:56	08/09/19 19:57	105-67-9	
Dimethylphthalate	ND	ug/kg	355	110	1	08/08/19 08:56	08/09/19 19:57	131-11-3	
Di-n-butylphthalate	ND	ug/kg	355	120	1	08/08/19 08:56	08/09/19 19:57	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	889	265	1	08/08/19 08:56	08/09/19 19:57	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	889	799	1	08/08/19 08:56	08/09/19 19:57	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	355	108	1	08/08/19 08:56	08/09/19 19:57	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	355	108	1	08/08/19 08:56	08/09/19 19:57	606-20-2	
Di-n-octylphthalate	ND	ug/kg	355	80.7	1	08/08/19 08:56	08/09/19 19:57	117-84-0	IS
bis(2-Ethylhexyl)phthalate	ND	ug/kg	355	113	1	08/08/19 08:56	08/09/19 19:57	117-81-7	
Fluoranthene	ND	ug/kg	355	114	1	08/08/19 08:56	08/09/19 19:57	206-44-0	
Fluorene	ND	ug/kg	355	109	1	08/08/19 08:56	08/09/19 19:57	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	355	116	1	08/08/19 08:56	08/09/19 19:57	87-68-3	
Hexachlorobenzene	ND	ug/kg	355	102	1	08/08/19 08:56	08/09/19 19:57	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	355	84.1	1	08/08/19 08:56	08/09/19 19:57	77-47-4	
Hexachloroethane	ND	ug/kg	355	96.0	1	08/08/19 08:56	08/09/19 19:57	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	355	134	1	08/08/19 08:56	08/09/19 19:57	193-39-5	IS
Isophorone	ND	ug/kg	355	117	1	08/08/19 08:56	08/09/19 19:57	78-59-1	
1-Methylnaphthalene	424	ug/kg	355	89.3	1	08/08/19 08:56	08/09/19 19:57	90-12-0	L1
2-Methylnaphthalene	424	ug/kg	355	107	1	08/08/19 08:56	08/09/19 19:57	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	355	128	1	08/08/19 08:56	08/09/19 19:57	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	711	218	1	08/08/19 08:56	08/09/19 19:57		
Naphthalene	ND	ug/kg	355	96.4	1	08/08/19 08:56	08/09/19 19:57	91-20-3	
2-Nitroaniline	ND	ug/kg	889	124	1	08/08/19 08:56	08/09/19 19:57	88-74-4	
3-Nitroaniline	ND	ug/kg	889	232	1	08/08/19 08:56	08/09/19 19:57	99-09-2	
4-Nitroaniline	ND	ug/kg	889	499	1	08/08/19 08:56	08/09/19 19:57	100-01-6	
Nitrobenzene	ND	ug/kg	355	132	1	08/08/19 08:56	08/09/19 19:57	98-95-3	
2-Nitrophenol	ND	ug/kg	355	141	1	08/08/19 08:56	08/09/19 19:57	88-75-5	
4-Nitrophenol	ND	ug/kg	355	120	1	08/08/19 08:56	08/09/19 19:57	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	355	61.0	1	08/08/19 08:56	08/09/19 19:57	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	355	150	1	08/08/19 08:56	08/09/19 19:57	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	355	80.2	1	08/08/19 08:56	08/09/19 19:57	86-30-6	
Pentachlorophenol	ND	ug/kg	889	468	1	08/08/19 08:56	08/09/19 19:57	87-86-5	
Phenanthrene	ND	ug/kg	355	156	1	08/08/19 08:56	08/09/19 19:57	85-01-8	
Phenol	ND	ug/kg	355	105	1	08/08/19 08:56	08/09/19 19:57	108-95-2	
Pyrene	855	ug/kg	355	130	1	08/08/19 08:56	08/09/19 19:57	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	355	96.2	1	08/08/19 08:56	08/09/19 19:57	120-82-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SB-03 **Lab ID: 30317705002** Collected: 08/01/19 14:15 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
2,4,5-Trichlorophenol	ND	ug/kg	889	105	1	08/08/19 08:56	08/09/19 19:57	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	355	92.9	1	08/08/19 08:56	08/09/19 19:57	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	95	%	45-103		1	08/08/19 08:56	08/09/19 19:57	4165-60-0	
2-Fluorobiphenyl (S)	110	%	52-102		1	08/08/19 08:56	08/09/19 19:57	321-60-8	S5,ST
Terphenyl-d14 (S)	146	%	53-135		1	08/08/19 08:56	08/09/19 19:57	1718-51-0	S5,ST
Phenol-d6 (S)	90	%	35-120		1	08/08/19 08:56	08/09/19 19:57	13127-88-3	
2-Fluorophenol (S)	93	%	10-147		1	08/08/19 08:56	08/09/19 19:57	367-12-4	
2,4,6-Tribromophenol (S)	98	%	10-160		1	08/08/19 08:56	08/09/19 19:57	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Acetone	64.0	ug/kg	13.7	4.4	1	08/09/19 11:11	08/09/19 12:21	67-64-1	1c,3c
Benzene	ND	ug/kg	6.8	1.2	1	08/09/19 11:11	08/09/19 12:21	71-43-2	1c
Bromochloromethane	ND	ug/kg	6.8	1.5	1	08/09/19 11:11	08/09/19 12:21	74-97-5	1c
Bromodichloromethane	ND	ug/kg	6.8	1.5	1	08/09/19 11:11	08/09/19 12:21	75-27-4	1c
Bromoform	ND	ug/kg	6.8	0.90	1	08/09/19 11:11	08/09/19 12:21	75-25-2	1c
Bromomethane	ND	ug/kg	6.8	2.5	1	08/09/19 11:11	08/09/19 12:21	74-83-9	1c,3c
TOTAL BTEX	ND	ug/kg	41.1	8.4	1	08/09/19 11:11	08/09/19 12:21		
2-Butanone (MEK)	ND	ug/kg	13.7	1.2	1	08/09/19 11:11	08/09/19 12:21	78-93-3	1c
Carbon disulfide	ND	ug/kg	6.8	1.9	1	08/09/19 11:11	08/09/19 12:21	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	6.8	2.4	1	08/09/19 11:11	08/09/19 12:21	56-23-5	1c
Chlorobenzene	ND	ug/kg	6.8	1.1	1	08/09/19 11:11	08/09/19 12:21	108-90-7	1c
Chloroethane	ND	ug/kg	6.8	2.9	1	08/09/19 11:11	08/09/19 12:21	75-00-3	1c,CH
Chloroform	ND	ug/kg	6.8	2.1	1	08/09/19 11:11	08/09/19 12:21	67-66-3	1c
Chloromethane	ND	ug/kg	6.8	2.3	1	08/09/19 11:11	08/09/19 12:21	74-87-3	1c
Dibromochloromethane	ND	ug/kg	6.8	1.1	1	08/09/19 11:11	08/09/19 12:21	124-48-1	1c
1,2-Dichlorobenzene	ND	ug/kg	6.8	0.81	1	08/09/19 11:11	08/09/19 12:21	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	6.8	0.89	1	08/09/19 11:11	08/09/19 12:21	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	6.8	0.97	1	08/09/19 11:11	08/09/19 12:21	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	6.8	1.7	1	08/09/19 11:11	08/09/19 12:21	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	6.8	1.8	1	08/09/19 11:11	08/09/19 12:21	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	13.7	3.3	1	08/09/19 11:11	08/09/19 12:21	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.8	2.5	1	08/09/19 11:11	08/09/19 12:21	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	6.8	1.6	1	08/09/19 11:11	08/09/19 12:21	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	6.8	1.7	1	08/09/19 11:11	08/09/19 12:21	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	6.8	0.99	1	08/09/19 11:11	08/09/19 12:21	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	6.8	0.68	1	08/09/19 11:11	08/09/19 12:21	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	6.8	1.4	1	08/09/19 11:11	08/09/19 12:21	10061-02-6	1c
Ethylbenzene	ND	ug/kg	6.8	1.5	1	08/09/19 11:11	08/09/19 12:21	100-41-4	1c
2-Hexanone	ND	ug/kg	13.7	1.3	1	08/09/19 11:11	08/09/19 12:21	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	6.8	1.6	1	08/09/19 11:11	08/09/19 12:21	98-82-8	1c
Methylene Chloride	ND	ug/kg	6.8	5.7	1	08/09/19 11:11	08/09/19 12:21	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	13.7	1.5	1	08/09/19 11:11	08/09/19 12:21	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	6.8	0.92	1	08/09/19 11:11	08/09/19 12:21	1634-04-4	1c
Naphthalene	ND	ug/kg	6.8	1.3	1	08/09/19 11:11	08/09/19 12:21	91-20-3	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SB-03 **Lab ID: 30317705002** Collected: 08/01/19 14:15 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	6.8	2.0	1	08/09/19 11:11	08/09/19 12:21	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.8	0.81	1	08/09/19 11:11	08/09/19 12:21	79-34-5	1c, L2
Tetrachloroethene	ND	ug/kg	6.8	2.4	1	08/09/19 11:11	08/09/19 12:21	127-18-4	1c
Toluene	ND	ug/kg	6.8	1.4	1	08/09/19 11:11	08/09/19 12:21	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	6.8	1.7	1	08/09/19 11:11	08/09/19 12:21	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	6.8	2.1	1	08/09/19 11:11	08/09/19 12:21	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	6.8	1.4	1	08/09/19 11:11	08/09/19 12:21	79-00-5	1c
Trichloroethene	ND	ug/kg	6.8	2.0	1	08/09/19 11:11	08/09/19 12:21	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	6.8	3.3	1	08/09/19 11:11	08/09/19 12:21	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	6.8	2.8	1	08/09/19 11:11	08/09/19 12:21	108-67-8	1c
Vinyl chloride	ND	ug/kg	6.8	2.9	1	08/09/19 11:11	08/09/19 12:21	75-01-4	1c
Xylene (Total)	ND	ug/kg	20.5	4.3	1	08/09/19 11:11	08/09/19 12:21	1330-20-7	
m&p-Xylene	ND	ug/kg	13.7	2.9	1	08/09/19 11:11	08/09/19 12:21	179601-23-1	1c
o-Xylene	ND	ug/kg	6.8	1.5	1	08/09/19 11:11	08/09/19 12:21	95-47-6	1c
Surrogates									
Toluene-d8 (S)	100	%	70-130		1	08/09/19 11:11	08/09/19 12:21	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1	08/09/19 11:11	08/09/19 12:21	460-00-4	
1,2-Dichloroethane-d4 (S)	131	%	70-130		1	08/09/19 11:11	08/09/19 12:21	17060-07-0	ST
Dibromofluoromethane (S)	109	%	70-130		1	08/09/19 11:11	08/09/19 12:21	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	6.8	%	0.10	0.10	1		08/11/19 15:09		
9014 Cyanide, Total		Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C							
Cyanide	1.2	mg/kg	0.93	0.24	1	08/09/19 11:45	08/09/19 17:04	57-12-5	ML, R1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SB-04 **Lab ID: 30317705003** Collected: 08/01/19 14:30 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB									
Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	83.2	51.3	5	08/06/19 07:46	08/09/19 19:08	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	83.2	73.7	5	08/06/19 07:46	08/09/19 19:08	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	83.2	75.7	5	08/06/19 07:46	08/09/19 19:08	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	83.2	60.8	5	08/06/19 07:46	08/09/19 19:08	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	83.2	47.8	5	08/06/19 07:46	08/09/19 19:08	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	83.2	44.3	5	08/06/19 07:46	08/09/19 19:08	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	83.2	47.3	5	08/06/19 07:46	08/09/19 19:08	11096-82-5	ED
PCB, Total	ND	ug/kg	749	470	5	08/06/19 07:46	08/09/19 19:08	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	78	%	34-114		5	08/06/19 07:46	08/09/19 19:08	877-09-8	
Tetrachloro-m-xylene (S)	80	%	34-114		5	08/06/19 07:46	08/09/19 19:08	877-09-8	
Decachlorobiphenyl (S)	103	%	38-139		5	08/06/19 07:46	08/09/19 19:08	2051-24-3	
6010C MET ICP									
Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	15200	mg/kg	9.4	2.4	1	08/06/19 07:49	08/09/19 07:25	7429-90-5	
Antimony	ND	mg/kg	0.56	0.45	1	08/06/19 07:49	08/09/19 07:25	7440-36-0	
Arsenic	8.3	mg/kg	0.47	0.45	1	08/06/19 07:49	08/09/19 07:25	7440-38-2	
Barium	84.6	mg/kg	1.9	0.088	1	08/06/19 07:49	08/09/19 07:25	7440-39-3	
Beryllium	0.78	mg/kg	0.19	0.029	1	08/06/19 07:49	08/09/19 07:25	7440-41-7	
Boron	6.0	mg/kg	4.7	0.16	1	08/06/19 07:49	08/09/19 07:25	7440-42-8	
Cadmium	ND	mg/kg	0.28	0.057	1	08/06/19 07:49	08/09/19 07:25	7440-43-9	
Calcium	10000	mg/kg	188	4.6	1	08/06/19 07:49	08/09/19 07:25	7440-70-2	
Chromium	21.8	mg/kg	0.47	0.087	1	08/06/19 07:49	08/09/19 07:25	7440-47-3	
Cobalt	17.5	mg/kg	0.94	0.099	1	08/06/19 07:49	08/09/19 07:25	7440-48-4	
Copper	44.0	mg/kg	0.94	0.55	1	08/06/19 07:49	08/09/19 07:25	7440-50-8	
Iron	32100	mg/kg	9.4	1.1	1	08/06/19 07:49	08/09/19 07:25	7439-89-6	
Lead	30.4	mg/kg	0.47	0.46	1	08/06/19 07:49	08/09/19 07:25	7439-92-1	
Magnesium	9560	mg/kg	47.1	5.5	1	08/06/19 07:49	08/09/19 07:25	7439-95-4	
Manganese	838	mg/kg	0.94	0.094	1	08/06/19 07:49	08/09/19 07:25	7439-96-5	
Molybdenum	ND	mg/kg	1.9	0.13	1	08/06/19 07:49	08/09/19 07:25	7439-98-7	
Nickel	36.2	mg/kg	1.9	0.23	1	08/06/19 07:49	08/09/19 07:25	7440-02-0	
Potassium	2080	mg/kg	47.1	43.4	1	08/06/19 07:49	08/09/19 07:25	7440-09-7	
Selenium	ND	mg/kg	0.75	0.55	1	08/06/19 07:49	08/09/19 07:25	7782-49-2	
Silver	ND	mg/kg	0.56	0.091	1	08/06/19 07:49	08/09/19 07:25	7440-22-4	
Sodium	ND	mg/kg	471	34.3	1	08/06/19 07:49	08/09/19 07:25	7440-23-5	
Thallium	ND	mg/kg	1.9	0.58	1	08/06/19 07:49	08/09/19 07:25	7440-28-0	
Vanadium	23.6	mg/kg	0.94	0.077	1	08/06/19 07:49	08/09/19 07:25	7440-62-2	
Zinc	90.6	mg/kg	0.94	0.16	1	08/06/19 07:49	08/09/19 07:25	7440-66-6	B
7471B Mercury									
Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.098	0.0048	1	08/06/19 09:35	08/06/19 18:26	7439-97-6	
8270D MSSV Microwave									
Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	333	113	1	08/08/19 08:56	08/09/19 20:19	83-32-9	
Acenaphthylene	ND	ug/kg	333	100	1	08/08/19 08:56	08/09/19 20:19	208-96-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: **SB-04** Lab ID: **30317705003** Collected: 08/01/19 14:30 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Anthracene	961	ug/kg	333	76.6	1	08/08/19 08:56	08/09/19 20:19	120-12-7	
Azobenzene	ND	ug/kg	333	118	1	08/08/19 08:56	08/09/19 20:19	103-33-3	N2
Benzo(a)anthracene	3820	ug/kg	333	150	1	08/08/19 08:56	08/09/19 20:19	56-55-3	
Benzo(a)pyrene	2760	ug/kg	333	104	1	08/08/19 08:56	08/09/19 20:19	50-32-8	
Benzo(b)fluoranthene	2750	ug/kg	333	101	1	08/08/19 08:56	08/09/19 20:19	205-99-2	
Benzo(g,h,i)perylene	667	ug/kg	333	116	1	08/08/19 08:56	08/09/19 20:19	191-24-2	
Benzo(k)fluoranthene	3470	ug/kg	333	147	1	08/08/19 08:56	08/09/19 20:19	207-08-9	
Benzoic acid	ND	ug/kg	5000	1690	1	08/08/19 08:56	08/09/19 20:19	65-85-0	
Benzyl alcohol	ND	ug/kg	333	295	1	08/08/19 08:56	08/09/19 20:19	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	333	123	1	08/08/19 08:56	08/09/19 20:19	101-55-3	
Butylbenzylphthalate	ND	ug/kg	333	93.7	1	08/08/19 08:56	08/09/19 20:19	85-68-7	
Carbazole	395	ug/kg	333	131	1	08/08/19 08:56	08/09/19 20:19	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	333	53.7	1	08/08/19 08:56	08/09/19 20:19	59-50-7	
4-Chloroaniline	ND	ug/kg	333	58.7	1	08/08/19 08:56	08/09/19 20:19	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	333	132	1	08/08/19 08:56	08/09/19 20:19	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	333	60.9	1	08/08/19 08:56	08/09/19 20:19	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	333	283	1	08/08/19 08:56	08/09/19 20:19	108-60-1	
2-Chloronaphthalene	ND	ug/kg	333	95.2	1	08/08/19 08:56	08/09/19 20:19	91-58-7	
2-Chlorophenol	ND	ug/kg	333	104	1	08/08/19 08:56	08/09/19 20:19	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	333	96.4	1	08/08/19 08:56	08/09/19 20:19	7005-72-3	
Chrysene	3430	ug/kg	333	123	1	08/08/19 08:56	08/09/19 20:19	218-01-9	
Dibenz(a,h)anthracene	450	ug/kg	333	127	1	08/08/19 08:56	08/09/19 20:19	53-70-3	
Dibenzofuran	ND	ug/kg	333	107	1	08/08/19 08:56	08/09/19 20:19	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	333	104	1	08/08/19 08:56	08/09/19 20:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	333	98.7	1	08/08/19 08:56	08/09/19 20:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	333	46.1	1	08/08/19 08:56	08/09/19 20:19	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	333	97.9	1	08/08/19 08:56	08/09/19 20:19	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	333	150	1	08/08/19 08:56	08/09/19 20:19	120-83-2	
Diethylphthalate	ND	ug/kg	333	117	1	08/08/19 08:56	08/09/19 20:19	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	333	101	1	08/08/19 08:56	08/09/19 20:19	105-67-9	
Dimethylphthalate	ND	ug/kg	333	103	1	08/08/19 08:56	08/09/19 20:19	131-11-3	
Di-n-butylphthalate	ND	ug/kg	333	112	1	08/08/19 08:56	08/09/19 20:19	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	834	248	1	08/08/19 08:56	08/09/19 20:19	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	834	750	1	08/08/19 08:56	08/09/19 20:19	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	333	101	1	08/08/19 08:56	08/09/19 20:19	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	333	101	1	08/08/19 08:56	08/09/19 20:19	606-20-2	
Di-n-octylphthalate	ND	ug/kg	333	75.7	1	08/08/19 08:56	08/09/19 20:19	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	333	106	1	08/08/19 08:56	08/09/19 20:19	117-81-7	
Fluoranthene	8020	ug/kg	1670	537	5	08/08/19 08:56	08/13/19 00:12	206-44-0	
Fluorene	ND	ug/kg	333	102	1	08/08/19 08:56	08/09/19 20:19	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	333	109	1	08/08/19 08:56	08/09/19 20:19	87-68-3	
Hexachlorobenzene	ND	ug/kg	333	95.8	1	08/08/19 08:56	08/09/19 20:19	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	333	78.9	1	08/08/19 08:56	08/09/19 20:19	77-47-4	
Hexachloroethane	ND	ug/kg	333	90.0	1	08/08/19 08:56	08/09/19 20:19	67-72-1	
Indeno(1,2,3-cd)pyrene	825	ug/kg	333	125	1	08/08/19 08:56	08/09/19 20:19	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SB-04 **Lab ID: 30317705003** Collected: 08/01/19 14:30 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Isophorone	ND	ug/kg	333	110	1	08/08/19 08:56	08/09/19 20:19	78-59-1	
1-Methylnaphthalene	ND	ug/kg	333	83.8	1	08/08/19 08:56	08/09/19 20:19	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	333	100	1	08/08/19 08:56	08/09/19 20:19	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	333	120	1	08/08/19 08:56	08/09/19 20:19	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	667	205	1	08/08/19 08:56	08/09/19 20:19		
Naphthalene	ND	ug/kg	333	90.4	1	08/08/19 08:56	08/09/19 20:19	91-20-3	
2-Nitroaniline	ND	ug/kg	834	116	1	08/08/19 08:56	08/09/19 20:19	88-74-4	
3-Nitroaniline	ND	ug/kg	834	218	1	08/08/19 08:56	08/09/19 20:19	99-09-2	
4-Nitroaniline	ND	ug/kg	834	468	1	08/08/19 08:56	08/09/19 20:19	100-01-6	
Nitrobenzene	ND	ug/kg	333	124	1	08/08/19 08:56	08/09/19 20:19	98-95-3	
2-Nitrophenol	ND	ug/kg	333	132	1	08/08/19 08:56	08/09/19 20:19	88-75-5	
4-Nitrophenol	ND	ug/kg	333	112	1	08/08/19 08:56	08/09/19 20:19	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	333	57.2	1	08/08/19 08:56	08/09/19 20:19	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	333	141	1	08/08/19 08:56	08/09/19 20:19	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	333	75.2	1	08/08/19 08:56	08/09/19 20:19	86-30-6	
Pentachlorophenol	ND	ug/kg	834	439	1	08/08/19 08:56	08/09/19 20:19	87-86-5	
Phenanthrene	4170	ug/kg	333	147	1	08/08/19 08:56	08/09/19 20:19	85-01-8	
Phenol	ND	ug/kg	333	98.8	1	08/08/19 08:56	08/09/19 20:19	108-95-2	
Pyrene	6220	ug/kg	333	122	1	08/08/19 08:56	08/09/19 20:19	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	333	90.2	1	08/08/19 08:56	08/09/19 20:19	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	834	98.6	1	08/08/19 08:56	08/09/19 20:19	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	333	87.1	1	08/08/19 08:56	08/09/19 20:19	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	75	%	45-103		1	08/08/19 08:56	08/09/19 20:19	4165-60-0	
2-Fluorobiphenyl (S)	78	%	52-102		1	08/08/19 08:56	08/09/19 20:19	321-60-8	
Terphenyl-d14 (S)	78	%	53-135		1	08/08/19 08:56	08/09/19 20:19	1718-51-0	
Phenol-d6 (S)	74	%	35-120		1	08/08/19 08:56	08/09/19 20:19	13127-88-3	
2-Fluorophenol (S)	75	%	10-147		1	08/08/19 08:56	08/09/19 20:19	367-12-4	
2,4,6-Tribromophenol (S)	78	%	10-160		1	08/08/19 08:56	08/09/19 20:19	118-79-6	
8260C MSV 5035 Low Level Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
Acetone	14.4	ug/kg	12.0	3.8	1	08/09/19 11:11	08/09/19 12:41	67-64-1	1c,3c
Benzene	ND	ug/kg	6.0	1.0	1	08/09/19 11:11	08/09/19 12:41	71-43-2	1c
Bromochloromethane	ND	ug/kg	6.0	1.3	1	08/09/19 11:11	08/09/19 12:41	74-97-5	1c
Bromodichloromethane	ND	ug/kg	6.0	1.3	1	08/09/19 11:11	08/09/19 12:41	75-27-4	1c
Bromoform	ND	ug/kg	6.0	0.79	1	08/09/19 11:11	08/09/19 12:41	75-25-2	1c
Bromomethane	ND	ug/kg	6.0	2.2	1	08/09/19 11:11	08/09/19 12:41	74-83-9	1c,3c
TOTAL BTEX	ND	ug/kg	35.9	7.3	1	08/09/19 11:11	08/09/19 12:41		
2-Butanone (MEK)	ND	ug/kg	12.0	1.1	1	08/09/19 11:11	08/09/19 12:41	78-93-3	1c
Carbon disulfide	ND	ug/kg	6.0	1.7	1	08/09/19 11:11	08/09/19 12:41	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	6.0	2.1	1	08/09/19 11:11	08/09/19 12:41	56-23-5	1c
Chlorobenzene	ND	ug/kg	6.0	0.93	1	08/09/19 11:11	08/09/19 12:41	108-90-7	1c
Chloroethane	ND	ug/kg	6.0	2.5	1	08/09/19 11:11	08/09/19 12:41	75-00-3	1c,CH
Chloroform	ND	ug/kg	6.0	1.8	1	08/09/19 11:11	08/09/19 12:41	67-66-3	1c
Chloromethane	ND	ug/kg	6.0	2.0	1	08/09/19 11:11	08/09/19 12:41	74-87-3	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SB-04 **Lab ID: 30317705003** Collected: 08/01/19 14:30 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Dibromochloromethane	ND	ug/kg	6.0	0.94	1	08/09/19 11:11	08/09/19 12:41	124-48-1	1c
1,2-Dichlorobenzene	ND	ug/kg	6.0	0.71	1	08/09/19 11:11	08/09/19 12:41	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	6.0	0.78	1	08/09/19 11:11	08/09/19 12:41	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	6.0	0.85	1	08/09/19 11:11	08/09/19 12:41	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	6.0	1.5	1	08/09/19 11:11	08/09/19 12:41	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	6.0	1.5	1	08/09/19 11:11	08/09/19 12:41	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	12.0	2.9	1	08/09/19 11:11	08/09/19 12:41	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.0	2.2	1	08/09/19 11:11	08/09/19 12:41	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	6.0	1.4	1	08/09/19 11:11	08/09/19 12:41	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	6.0	1.5	1	08/09/19 11:11	08/09/19 12:41	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	6.0	0.86	1	08/09/19 11:11	08/09/19 12:41	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	6.0	0.60	1	08/09/19 11:11	08/09/19 12:41	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	6.0	1.2	1	08/09/19 11:11	08/09/19 12:41	10061-02-6	1c
Ethylbenzene	ND	ug/kg	6.0	1.3	1	08/09/19 11:11	08/09/19 12:41	100-41-4	1c
2-Hexanone	ND	ug/kg	12.0	1.2	1	08/09/19 11:11	08/09/19 12:41	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	6.0	1.4	1	08/09/19 11:11	08/09/19 12:41	98-82-8	1c
Methylene Chloride	ND	ug/kg	6.0	5.0	1	08/09/19 11:11	08/09/19 12:41	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.0	1.3	1	08/09/19 11:11	08/09/19 12:41	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	6.0	0.80	1	08/09/19 11:11	08/09/19 12:41	1634-04-4	1c
Naphthalene	ND	ug/kg	6.0	1.1	1	08/09/19 11:11	08/09/19 12:41	91-20-3	1c
Styrene	ND	ug/kg	6.0	1.7	1	08/09/19 11:11	08/09/19 12:41	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.0	0.71	1	08/09/19 11:11	08/09/19 12:41	79-34-5	1c, L2
Tetrachloroethene	ND	ug/kg	6.0	2.1	1	08/09/19 11:11	08/09/19 12:41	127-18-4	1c
Toluene	ND	ug/kg	6.0	1.2	1	08/09/19 11:11	08/09/19 12:41	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	6.0	1.5	1	08/09/19 11:11	08/09/19 12:41	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	6.0	1.8	1	08/09/19 11:11	08/09/19 12:41	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	6.0	1.2	1	08/09/19 11:11	08/09/19 12:41	79-00-5	1c
Trichloroethene	ND	ug/kg	6.0	1.8	1	08/09/19 11:11	08/09/19 12:41	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	6.0	2.9	1	08/09/19 11:11	08/09/19 12:41	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	6.0	2.4	1	08/09/19 11:11	08/09/19 12:41	108-67-8	1c
Vinyl chloride	ND	ug/kg	6.0	2.6	1	08/09/19 11:11	08/09/19 12:41	75-01-4	1c
Xylene (Total)	ND	ug/kg	17.9	3.8	1	08/09/19 11:11	08/09/19 12:41	1330-20-7	
m&p-Xylene	ND	ug/kg	12.0	2.5	1	08/09/19 11:11	08/09/19 12:41	179601-23-1	1c
o-Xylene	ND	ug/kg	6.0	1.3	1	08/09/19 11:11	08/09/19 12:41	95-47-6	1c
Surrogates									
Toluene-d8 (S)	101	%	70-130		1	08/09/19 11:11	08/09/19 12:41	2037-26-5	
4-Bromofluorobenzene (S)	113	%	70-130		1	08/09/19 11:11	08/09/19 12:41	460-00-4	
1,2-Dichloroethane-d4 (S)	131	%	70-130		1	08/09/19 11:11	08/09/19 12:41	17060-07-0	ST
Dibromofluoromethane (S)	107	%	70-130		1	08/09/19 11:11	08/09/19 12:41	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **1.6** % 0.10 0.10 1 08/11/19 15:09

9014 Cyanide, Total

Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C

Cyanide ND mg/kg 0.81 0.21 1 08/09/19 11:45 08/09/19 17:08 57-12-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SB-01 **Lab ID: 30317705004** Collected: 08/01/19 15:00 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8081B GCS Pesticides									
Analytical Method: EPA 8081B Preparation Method: EPA 3546									
Aldrin	ND	ug/kg	2.0	0.35	1	08/06/19 07:46	08/07/19 16:54	309-00-2	
alpha-BHC	ND	ug/kg	2.0	0.39	1	08/06/19 07:46	08/07/19 16:54	319-84-6	
beta-BHC	ND	ug/kg	2.0	1.4	1	08/06/19 07:46	08/07/19 16:54	319-85-7	
delta-BHC	ND	ug/kg	2.0	1.9	1	08/06/19 07:46	08/07/19 16:54	319-86-8	
gamma-BHC (Lindane)	ND	ug/kg	2.0	0.52	1	08/06/19 07:46	08/07/19 16:54	58-89-9	
alpha-Chlordane	ND	ug/kg	2.0	0.21	1	08/06/19 07:46	08/07/19 16:54	5103-71-9	
gamma-Chlordane	ND	ug/kg	2.0	0.51	1	08/06/19 07:46	08/07/19 16:54	5103-74-2	
4,4'-DDD	ND	ug/kg	3.9	1.3	1	08/06/19 07:46	08/07/19 16:54	72-54-8	
4,4'-DDE	ND	ug/kg	3.9	0.70	1	08/06/19 07:46	08/07/19 16:54	72-55-9	
4,4'-DDT	ND	ug/kg	3.9	1.0	1	08/06/19 07:46	08/07/19 16:54	50-29-3	
Dieldrin	ND	ug/kg	3.9	0.41	1	08/06/19 07:46	08/07/19 16:54	60-57-1	
Endosulfan I	ND	ug/kg	2.0	0.24	1	08/06/19 07:46	08/07/19 16:54	959-98-8	
Endosulfan II	ND	ug/kg	3.9	0.56	1	08/06/19 07:46	08/07/19 16:54	33213-65-9	
Endosulfan sulfate	ND	ug/kg	3.9	0.36	1	08/06/19 07:46	08/07/19 16:54	1031-07-8	
Endrin	ND	ug/kg	3.9	0.62	1	08/06/19 07:46	08/07/19 16:54	72-20-8	
Endrin aldehyde	ND	ug/kg	3.9	0.94	1	08/06/19 07:46	08/07/19 16:54	7421-93-4	
Endrin ketone	ND	ug/kg	3.9	0.36	1	08/06/19 07:46	08/07/19 16:54	53494-70-5	
Heptachlor	ND	ug/kg	2.0	0.24	1	08/06/19 07:46	08/07/19 16:54	76-44-8	
Heptachlor epoxide	ND	ug/kg	2.0	0.55	1	08/06/19 07:46	08/07/19 16:54	1024-57-3	
Methoxychlor	ND	ug/kg	19.7	1.9	1	08/06/19 07:46	08/07/19 16:54	72-43-5	
Toxaphene	ND	ug/kg	19.7	6.5	1	08/06/19 07:46	08/07/19 16:54	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	51-88		1	08/06/19 07:46	08/07/19 16:54	877-09-8	
Decachlorobiphenyl (S)	83	%	50-96		1	08/06/19 07:46	08/07/19 16:54	2051-24-3	

8082A GCS PCB

Analytical Method: EPA 8082A Preparation Method: EPA 3546

PCB-1016 (Aroclor 1016)	ND	ug/kg	19.7	12.2	1	08/06/19 07:46	08/09/19 19:25	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	19.7	17.5	1	08/06/19 07:46	08/09/19 19:25	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	19.7	18.0	1	08/06/19 07:46	08/09/19 19:25	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	19.7	14.4	1	08/06/19 07:46	08/09/19 19:25	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	19.7	11.3	1	08/06/19 07:46	08/09/19 19:25	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	19.7	10.5	1	08/06/19 07:46	08/09/19 19:25	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	19.7	11.2	1	08/06/19 07:46	08/09/19 19:25	11096-82-5	
PCB, Total	ND	ug/kg	178	111	1	08/06/19 07:46	08/09/19 19:25	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	81	%	34-114		1	08/06/19 07:46	08/09/19 19:25	877-09-8	
Decachlorobiphenyl (S)	89	%	38-139		1	08/06/19 07:46	08/09/19 19:25	2051-24-3	

6010C MET ICP

Analytical Method: EPA 6010C Preparation Method: EPA 3050B

Aluminum	14800	mg/kg	11.2	2.8	1	08/06/19 07:49	08/09/19 07:27	7429-90-5	
Antimony	ND	mg/kg	0.67	0.54	1	08/06/19 07:49	08/09/19 07:27	7440-36-0	
Arsenic	47.1	mg/kg	0.56	0.54	1	08/06/19 07:49	08/09/19 07:27	7440-38-2	
Barium	118	mg/kg	2.2	0.10	1	08/06/19 07:49	08/09/19 07:27	7440-39-3	
Beryllium	0.50	mg/kg	0.22	0.034	1	08/06/19 07:49	08/09/19 07:27	7440-41-7	
Boron	ND	mg/kg	5.6	0.20	1	08/06/19 07:49	08/09/19 07:27	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SB-01 **Lab ID: 30317705004** Collected: 08/01/19 15:00 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Cadmium	ND	mg/kg	0.34	0.068	1	08/06/19 07:49	08/09/19 07:27	7440-43-9	
Calcium	1790	mg/kg	223	5.4	1	08/06/19 07:49	08/09/19 07:27	7440-70-2	
Chromium	19.8	mg/kg	0.56	0.10	1	08/06/19 07:49	08/09/19 07:27	7440-47-3	
Cobalt	6.8	mg/kg	1.1	0.12	1	08/06/19 07:49	08/09/19 07:27	7440-48-4	
Copper	42.7	mg/kg	1.1	0.65	1	08/06/19 07:49	08/09/19 07:27	7440-50-8	
Iron	51900	mg/kg	11.2	1.3	1	08/06/19 07:49	08/09/19 07:27	7439-89-6	
Lead	17.3	mg/kg	0.56	0.55	1	08/06/19 07:49	08/09/19 07:27	7439-92-1	
Magnesium	5890	mg/kg	55.9	6.5	1	08/06/19 07:49	08/09/19 07:27	7439-95-4	
Manganese	314	mg/kg	1.1	0.11	1	08/06/19 07:49	08/09/19 07:27	7439-96-5	
Molybdenum	ND	mg/kg	2.2	0.16	1	08/06/19 07:49	08/09/19 07:27	7439-98-7	
Nickel	22.2	mg/kg	2.2	0.28	1	08/06/19 07:49	08/09/19 07:27	7440-02-0	
Potassium	1870	mg/kg	55.9	51.5	1	08/06/19 07:49	08/09/19 07:27	7440-09-7	
Selenium	1.7	mg/kg	0.89	0.65	1	08/06/19 07:49	08/09/19 07:27	7782-49-2	
Silver	ND	mg/kg	0.67	0.11	1	08/06/19 07:49	08/09/19 07:27	7440-22-4	
Sodium	ND	mg/kg	559	40.7	1	08/06/19 07:49	08/09/19 07:27	7440-23-5	
Thallium	ND	mg/kg	2.2	0.69	1	08/06/19 07:49	08/09/19 07:27	7440-28-0	
Vanadium	43.4	mg/kg	1.1	0.091	1	08/06/19 07:49	08/09/19 07:27	7440-62-2	
Zinc	70.9	mg/kg	1.1	0.19	1	08/06/19 07:49	08/09/19 07:27	7440-66-6	B

7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.12	0.0059	1	08/06/19 09:35	08/06/19 18:27	7439-97-6	

8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	395	134	1	08/08/19 08:56	08/09/19 20:40	83-32-9	
Acenaphthylene	ND	ug/kg	395	119	1	08/08/19 08:56	08/09/19 20:40	208-96-8	
Anthracene	ND	ug/kg	395	90.8	1	08/08/19 08:56	08/09/19 20:40	120-12-7	
Azobenzene	ND	ug/kg	395	139	1	08/08/19 08:56	08/09/19 20:40	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	395	177	1	08/08/19 08:56	08/09/19 20:40	56-55-3	
Benzo(a)pyrene	ND	ug/kg	395	123	1	08/08/19 08:56	08/09/19 20:40	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	395	120	1	08/08/19 08:56	08/09/19 20:40	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	395	137	1	08/08/19 08:56	08/09/19 20:40	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	395	175	1	08/08/19 08:56	08/09/19 20:40	207-08-9	
Benzoic acid	ND	ug/kg	5930	2000	1	08/08/19 08:56	08/09/19 20:40	65-85-0	
Benzyl alcohol	ND	ug/kg	395	349	1	08/08/19 08:56	08/09/19 20:40	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	395	145	1	08/08/19 08:56	08/09/19 20:40	101-55-3	
Butylbenzylphthalate	ND	ug/kg	395	111	1	08/08/19 08:56	08/09/19 20:40	85-68-7	
Carbazole	ND	ug/kg	395	155	1	08/08/19 08:56	08/09/19 20:40	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	395	63.6	1	08/08/19 08:56	08/09/19 20:40	59-50-7	
4-Chloroaniline	ND	ug/kg	395	69.5	1	08/08/19 08:56	08/09/19 20:40	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	395	156	1	08/08/19 08:56	08/09/19 20:40	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	395	72.2	1	08/08/19 08:56	08/09/19 20:40	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	395	335	1	08/08/19 08:56	08/09/19 20:40	108-60-1	
2-Chloronaphthalene	ND	ug/kg	395	113	1	08/08/19 08:56	08/09/19 20:40	91-58-7	
2-Chlorophenol	ND	ug/kg	395	123	1	08/08/19 08:56	08/09/19 20:40	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	395	114	1	08/08/19 08:56	08/09/19 20:40	7005-72-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SB-01 Lab ID: 30317705004 Collected: 08/01/19 15:00 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Chrysene	ND	ug/kg	395	146	1	08/08/19 08:56	08/09/19 20:40	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	395	150	1	08/08/19 08:56	08/09/19 20:40	53-70-3	
Dibenzofuran	ND	ug/kg	395	127	1	08/08/19 08:56	08/09/19 20:40	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	395	124	1	08/08/19 08:56	08/09/19 20:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	395	117	1	08/08/19 08:56	08/09/19 20:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	395	54.6	1	08/08/19 08:56	08/09/19 20:40	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	395	116	1	08/08/19 08:56	08/09/19 20:40	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	395	178	1	08/08/19 08:56	08/09/19 20:40	120-83-2	
Diethylphthalate	ND	ug/kg	395	139	1	08/08/19 08:56	08/09/19 20:40	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	395	120	1	08/08/19 08:56	08/09/19 20:40	105-67-9	
Dimethylphthalate	ND	ug/kg	395	122	1	08/08/19 08:56	08/09/19 20:40	131-11-3	
Di-n-butylphthalate	ND	ug/kg	395	133	1	08/08/19 08:56	08/09/19 20:40	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	989	294	1	08/08/19 08:56	08/09/19 20:40	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	989	889	1	08/08/19 08:56	08/09/19 20:40	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	395	120	1	08/08/19 08:56	08/09/19 20:40	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	395	120	1	08/08/19 08:56	08/09/19 20:40	606-20-2	
Di-n-octylphthalate	ND	ug/kg	395	89.7	1	08/08/19 08:56	08/09/19 20:40	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	395	126	1	08/08/19 08:56	08/09/19 20:40	117-81-7	
Fluoranthene	ND	ug/kg	395	127	1	08/08/19 08:56	08/09/19 20:40	206-44-0	
Fluorene	ND	ug/kg	395	121	1	08/08/19 08:56	08/09/19 20:40	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	395	129	1	08/08/19 08:56	08/09/19 20:40	87-68-3	
Hexachlorobenzene	ND	ug/kg	395	114	1	08/08/19 08:56	08/09/19 20:40	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	395	93.5	1	08/08/19 08:56	08/09/19 20:40	77-47-4	
Hexachloroethane	ND	ug/kg	395	107	1	08/08/19 08:56	08/09/19 20:40	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	395	149	1	08/08/19 08:56	08/09/19 20:40	193-39-5	
Isophorone	ND	ug/kg	395	130	1	08/08/19 08:56	08/09/19 20:40	78-59-1	
1-Methylnaphthalene	ND	ug/kg	395	99.3	1	08/08/19 08:56	08/09/19 20:40	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	395	119	1	08/08/19 08:56	08/09/19 20:40	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	395	142	1	08/08/19 08:56	08/09/19 20:40	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	790	243	1	08/08/19 08:56	08/09/19 20:40		
Naphthalene	ND	ug/kg	395	107	1	08/08/19 08:56	08/09/19 20:40	91-20-3	
2-Nitroaniline	ND	ug/kg	989	137	1	08/08/19 08:56	08/09/19 20:40	88-74-4	
3-Nitroaniline	ND	ug/kg	989	258	1	08/08/19 08:56	08/09/19 20:40	99-09-2	
4-Nitroaniline	ND	ug/kg	989	555	1	08/08/19 08:56	08/09/19 20:40	100-01-6	
Nitrobenzene	ND	ug/kg	395	146	1	08/08/19 08:56	08/09/19 20:40	98-95-3	
2-Nitrophenol	ND	ug/kg	395	157	1	08/08/19 08:56	08/09/19 20:40	88-75-5	
4-Nitrophenol	ND	ug/kg	395	133	1	08/08/19 08:56	08/09/19 20:40	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	395	67.8	1	08/08/19 08:56	08/09/19 20:40	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	395	167	1	08/08/19 08:56	08/09/19 20:40	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	395	89.1	1	08/08/19 08:56	08/09/19 20:40	86-30-6	
Pentachlorophenol	ND	ug/kg	989	521	1	08/08/19 08:56	08/09/19 20:40	87-86-5	
Phenanthrene	ND	ug/kg	395	174	1	08/08/19 08:56	08/09/19 20:40	85-01-8	
Phenol	ND	ug/kg	395	117	1	08/08/19 08:56	08/09/19 20:40	108-95-2	
Pyrene	ND	ug/kg	395	144	1	08/08/19 08:56	08/09/19 20:40	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	395	107	1	08/08/19 08:56	08/09/19 20:40	120-82-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SB-01 **Lab ID: 30317705004** Collected: 08/01/19 15:00 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
2,4,5-Trichlorophenol	ND	ug/kg	989	117	1	08/08/19 08:56	08/09/19 20:40	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	395	103	1	08/08/19 08:56	08/09/19 20:40	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	84	%	45-103		1	08/08/19 08:56	08/09/19 20:40	4165-60-0	
2-Fluorobiphenyl (S)	87	%	52-102		1	08/08/19 08:56	08/09/19 20:40	321-60-8	
Terphenyl-d14 (S)	85	%	53-135		1	08/08/19 08:56	08/09/19 20:40	1718-51-0	
Phenol-d6 (S)	82	%	35-120		1	08/08/19 08:56	08/09/19 20:40	13127-88-3	
2-Fluorophenol (S)	83	%	10-147		1	08/08/19 08:56	08/09/19 20:40	367-12-4	
2,4,6-Tribromophenol (S)	91	%	10-160		1	08/08/19 08:56	08/09/19 20:40	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Acetone	38.1	ug/kg	10.5	3.3	1	08/09/19 11:11	08/09/19 13:01	67-64-1	1c,3c
Benzene	ND	ug/kg	5.2	0.91	1	08/09/19 11:11	08/09/19 13:01	71-43-2	1c
Bromochloromethane	ND	ug/kg	5.2	1.1	1	08/09/19 11:11	08/09/19 13:01	74-97-5	1c
Bromodichloromethane	ND	ug/kg	5.2	1.1	1	08/09/19 11:11	08/09/19 13:01	75-27-4	1c
Bromoform	ND	ug/kg	5.2	0.69	1	08/09/19 11:11	08/09/19 13:01	75-25-2	1c
Bromomethane	ND	ug/kg	5.2	1.9	1	08/09/19 11:11	08/09/19 13:01	74-83-9	1c,3c
TOTAL BTEX	ND	ug/kg	31.4	6.4	1	08/09/19 11:11	08/09/19 13:01		
2-Butanone (MEK)	ND	ug/kg	10.5	0.95	1	08/09/19 11:11	08/09/19 13:01	78-93-3	1c
Carbon disulfide	ND	ug/kg	5.2	1.5	1	08/09/19 11:11	08/09/19 13:01	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	5.2	1.8	1	08/09/19 11:11	08/09/19 13:01	56-23-5	1c
Chlorobenzene	ND	ug/kg	5.2	0.82	1	08/09/19 11:11	08/09/19 13:01	108-90-7	1c
Chloroethane	ND	ug/kg	5.2	2.2	1	08/09/19 11:11	08/09/19 13:01	75-00-3	1c,CH
Chloroform	ND	ug/kg	5.2	1.6	1	08/09/19 11:11	08/09/19 13:01	67-66-3	1c
Chloromethane	ND	ug/kg	5.2	1.8	1	08/09/19 11:11	08/09/19 13:01	74-87-3	1c
Dibromochloromethane	ND	ug/kg	5.2	0.83	1	08/09/19 11:11	08/09/19 13:01	124-48-1	1c
1,2-Dichlorobenzene	ND	ug/kg	5.2	0.62	1	08/09/19 11:11	08/09/19 13:01	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	5.2	0.68	1	08/09/19 11:11	08/09/19 13:01	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	5.2	0.74	1	08/09/19 11:11	08/09/19 13:01	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	5.2	1.3	1	08/09/19 11:11	08/09/19 13:01	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	5.2	1.4	1	08/09/19 11:11	08/09/19 13:01	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	10.5	2.5	1	08/09/19 11:11	08/09/19 13:01	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.2	1.9	1	08/09/19 11:11	08/09/19 13:01	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1.2	1	08/09/19 11:11	08/09/19 13:01	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1.3	1	08/09/19 11:11	08/09/19 13:01	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	5.2	0.75	1	08/09/19 11:11	08/09/19 13:01	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	5.2	0.52	1	08/09/19 11:11	08/09/19 13:01	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1.1	1	08/09/19 11:11	08/09/19 13:01	10061-02-6	1c
Ethylbenzene	ND	ug/kg	5.2	1.1	1	08/09/19 11:11	08/09/19 13:01	100-41-4	1c
2-Hexanone	ND	ug/kg	10.5	1.0	1	08/09/19 11:11	08/09/19 13:01	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1.2	1	08/09/19 11:11	08/09/19 13:01	98-82-8	1c
Methylene Chloride	ND	ug/kg	5.2	4.4	1	08/09/19 11:11	08/09/19 13:01	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.5	1.2	1	08/09/19 11:11	08/09/19 13:01	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	5.2	0.70	1	08/09/19 11:11	08/09/19 13:01	1634-04-4	1c
Naphthalene	ND	ug/kg	5.2	0.98	1	08/09/19 11:11	08/09/19 13:01	91-20-3	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SB-01 **Lab ID: 30317705004** Collected: 08/01/19 15:00 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	5.2	1.5	1	08/09/19 11:11	08/09/19 13:01	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	0.62	1	08/09/19 11:11	08/09/19 13:01	79-34-5	1c, L2
Tetrachloroethene	ND	ug/kg	5.2	1.8	1	08/09/19 11:11	08/09/19 13:01	127-18-4	1c
Toluene	ND	ug/kg	5.2	1.0	1	08/09/19 11:11	08/09/19 13:01	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1.3	1	08/09/19 11:11	08/09/19 13:01	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	5.2	1.6	1	08/09/19 11:11	08/09/19 13:01	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	5.2	1.0	1	08/09/19 11:11	08/09/19 13:01	79-00-5	1c
Trichloroethene	ND	ug/kg	5.2	1.5	1	08/09/19 11:11	08/09/19 13:01	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	2.6	1	08/09/19 11:11	08/09/19 13:01	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	2.1	1	08/09/19 11:11	08/09/19 13:01	108-67-8	1c
Vinyl chloride	ND	ug/kg	5.2	2.3	1	08/09/19 11:11	08/09/19 13:01	75-01-4	1c
Xylene (Total)	ND	ug/kg	15.7	3.3	1	08/09/19 11:11	08/09/19 13:01	1330-20-7	
m&p-Xylene	ND	ug/kg	10.5	2.2	1	08/09/19 11:11	08/09/19 13:01	179601-23-1	1c
o-Xylene	ND	ug/kg	5.2	1.1	1	08/09/19 11:11	08/09/19 13:01	95-47-6	1c
Surrogates									
Toluene-d8 (S)	98	%	70-130		1	08/09/19 11:11	08/09/19 13:01	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1	08/09/19 11:11	08/09/19 13:01	460-00-4	
1,2-Dichloroethane-d4 (S)	131	%	70-130		1	08/09/19 11:11	08/09/19 13:01	17060-07-0	ST
Dibromofluoromethane (S)	112	%	70-130		1	08/09/19 11:11	08/09/19 13:01	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	17.1	%	0.10	0.10	1		08/11/19 15:09		
9014 Cyanide, Total		Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C							
Cyanide	ND	mg/kg	1.2	0.31	1	08/09/19 11:45	08/09/19 17:09	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SE-2 **Lab ID: 30317705005** Collected: 08/02/19 08:05 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081B GCS Pesticides Analytical Method: EPA 8081B Preparation Method: EPA 3546									
Aldrin	ND	ug/kg	3.1	0.54	1	08/06/19 07:46	08/12/19 12:36	309-00-2	
alpha-BHC	ND	ug/kg	3.1	0.60	1	08/06/19 07:46	08/12/19 12:36	319-84-6	
beta-BHC	11.8	ug/kg	3.1	2.2	1	08/06/19 07:46	08/12/19 12:36	319-85-7	
delta-BHC	ND	ug/kg	3.1	3.0	1	08/06/19 07:46	08/12/19 12:36	319-86-8	
gamma-BHC (Lindane)	ND	ug/kg	3.1	0.80	1	08/06/19 07:46	08/12/19 12:36	58-89-9	
alpha-Chlordane	3.9	ug/kg	3.1	0.33	1	08/06/19 07:46	08/12/19 12:36	5103-71-9	
gamma-Chlordane	ND	ug/kg	3.1	0.80	1	08/06/19 07:46	08/12/19 12:36	5103-74-2	
4,4'-DDD	ND	ug/kg	6.1	2.0	1	08/06/19 07:46	08/12/19 12:36	72-54-8	
4,4'-DDE	ND	ug/kg	6.1	1.1	1	08/06/19 07:46	08/12/19 12:36	72-55-9	
4,4'-DDT	ND	ug/kg	6.1	1.6	1	08/06/19 07:46	08/12/19 12:36	50-29-3	
Dieldrin	ND	ug/kg	6.1	0.64	1	08/06/19 07:46	08/12/19 12:36	60-57-1	
Endosulfan I	ND	ug/kg	3.1	0.38	1	08/06/19 07:46	08/12/19 12:36	959-98-8	
Endosulfan II	ND	ug/kg	6.1	0.88	1	08/06/19 07:46	08/12/19 12:36	33213-65-9	
Endosulfan sulfate	ND	ug/kg	6.1	0.55	1	08/06/19 07:46	08/12/19 12:36	1031-07-8	
Endrin	ND	ug/kg	6.1	0.97	1	08/06/19 07:46	08/12/19 12:36	72-20-8	
Endrin aldehyde	ND	ug/kg	6.1	1.5	1	08/06/19 07:46	08/12/19 12:36	7421-93-4	
Endrin ketone	7.1	ug/kg	6.1	0.56	1	08/06/19 07:46	08/12/19 12:36	53494-70-5	
Heptachlor	ND	ug/kg	3.1	0.37	1	08/06/19 07:46	08/12/19 12:36	76-44-8	
Heptachlor epoxide	ND	ug/kg	3.1	0.86	1	08/06/19 07:46	08/12/19 12:36	1024-57-3	
Methoxychlor	ND	ug/kg	30.6	3.0	1	08/06/19 07:46	08/12/19 12:36	72-43-5	
Toxaphene	ND	ug/kg	30.6	10.1	1	08/06/19 07:46	08/12/19 12:36	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	51-88		1	08/06/19 07:46	08/12/19 12:36	877-09-8	
Decachlorobiphenyl (S)	79	%	50-96		1	08/06/19 07:46	08/12/19 12:36	2051-24-3	CH

8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	153	94.4	5	08/06/19 07:46	08/09/19 19:34	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	153	136	5	08/06/19 07:46	08/09/19 19:34	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	153	139	5	08/06/19 07:46	08/09/19 19:34	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	153	112	5	08/06/19 07:46	08/09/19 19:34	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	153	87.9	5	08/06/19 07:46	08/09/19 19:34	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	153	81.5	5	08/06/19 07:46	08/09/19 19:34	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	153	87.0	5	08/06/19 07:46	08/09/19 19:34	11096-82-5	ED
PCB, Total	ND	ug/kg	1380	864	5	08/06/19 07:46	08/09/19 19:34	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	82	%	34-114		5	08/06/19 07:46	08/09/19 19:34	877-09-8	
Decachlorobiphenyl (S)	75	%	38-139		5	08/06/19 07:46	08/09/19 19:34	2051-24-3	

6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	15600	mg/kg	16.7	4.2	1	08/06/19 07:49	08/09/19 07:29	7429-90-5	
Antimony	10.6	mg/kg	1.0	0.81	1	08/06/19 07:49	08/09/19 07:29	7440-36-0	
Arsenic	9.0	mg/kg	0.84	0.80	1	08/06/19 07:49	08/09/19 07:29	7440-38-2	
Barium	137	mg/kg	3.3	0.16	1	08/06/19 07:49	08/09/19 07:29	7440-39-3	
Beryllium	0.96	mg/kg	0.33	0.051	1	08/06/19 07:49	08/09/19 07:29	7440-41-7	
Boron	ND	mg/kg	8.4	0.29	1	08/06/19 07:49	08/09/19 07:29	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SE-2 **Lab ID: 30317705005** Collected: 08/02/19 08:05 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Cadmium	0.56	mg/kg	0.50	0.10	1	08/06/19 07:49	08/09/19 07:29	7440-43-9	
Calcium	4720	mg/kg	334	8.1	1	08/06/19 07:49	08/09/19 07:29	7440-70-2	
Chromium	28.8	mg/kg	0.84	0.15	1	08/06/19 07:49	08/09/19 07:29	7440-47-3	
Cobalt	14.1	mg/kg	1.7	0.18	1	08/06/19 07:49	08/09/19 07:29	7440-48-4	
Copper	213	mg/kg	1.7	0.98	1	08/06/19 07:49	08/09/19 07:29	7440-50-8	
Iron	32400	mg/kg	16.7	1.9	1	08/06/19 07:49	08/09/19 07:29	7439-89-6	
Lead	547	mg/kg	0.84	0.82	1	08/06/19 07:49	08/09/19 07:29	7439-92-1	
Magnesium	6200	mg/kg	83.5	9.7	1	08/06/19 07:49	08/09/19 07:29	7439-95-4	
Manganese	532	mg/kg	1.7	0.17	1	08/06/19 07:49	08/09/19 07:29	7439-96-5	
Molybdenum	ND	mg/kg	3.3	0.24	1	08/06/19 07:49	08/09/19 07:29	7439-98-7	
Nickel	39.6	mg/kg	3.3	0.41	1	08/06/19 07:49	08/09/19 07:29	7440-02-0	
Potassium	2380	mg/kg	83.5	77.0	1	08/06/19 07:49	08/09/19 07:29	7440-09-7	
Selenium	ND	mg/kg	1.3	0.98	1	08/06/19 07:49	08/09/19 07:29	7782-49-2	
Silver	ND	mg/kg	1.0	0.16	1	08/06/19 07:49	08/09/19 07:29	7440-22-4	
Sodium	ND	mg/kg	835	60.8	1	08/06/19 07:49	08/09/19 07:29	7440-23-5	
Thallium	ND	mg/kg	3.3	1.0	1	08/06/19 07:49	08/09/19 07:29	7440-28-0	
Vanadium	36.5	mg/kg	1.7	0.14	1	08/06/19 07:49	08/09/19 07:29	7440-62-2	
Zinc	202	mg/kg	1.7	0.28	1	08/06/19 07:49	08/09/19 07:29	7440-66-6	B

7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.17	0.0085	1	08/06/19 09:35	08/06/19 18:29	7439-97-6	

8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	615	209	1	08/08/19 08:56	08/09/19 21:02	83-32-9	
Acenaphthylene	ND	ug/kg	615	185	1	08/08/19 08:56	08/09/19 21:02	208-96-8	
Anthracene	ND	ug/kg	615	141	1	08/08/19 08:56	08/09/19 21:02	120-12-7	
Azobenzene	ND	ug/kg	615	217	1	08/08/19 08:56	08/09/19 21:02	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	615	276	1	08/08/19 08:56	08/09/19 21:02	56-55-3	
Benzo(a)pyrene	ND	ug/kg	615	191	1	08/08/19 08:56	08/09/19 21:02	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	615	187	1	08/08/19 08:56	08/09/19 21:02	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	615	213	1	08/08/19 08:56	08/09/19 21:02	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	615	272	1	08/08/19 08:56	08/09/19 21:02	207-08-9	
Benzoic acid	ND	ug/kg	9230	3120	1	08/08/19 08:56	08/09/19 21:02	65-85-0	
Benzyl alcohol	ND	ug/kg	615	544	1	08/08/19 08:56	08/09/19 21:02	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	615	226	1	08/08/19 08:56	08/09/19 21:02	101-55-3	
Butylbenzylphthalate	6040	ug/kg	615	173	1	08/08/19 08:56	08/09/19 21:02	85-68-7	
Carbazole	ND	ug/kg	615	242	1	08/08/19 08:56	08/09/19 21:02	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	615	99.0	1	08/08/19 08:56	08/09/19 21:02	59-50-7	
4-Chloroaniline	ND	ug/kg	615	108	1	08/08/19 08:56	08/09/19 21:02	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	615	244	1	08/08/19 08:56	08/09/19 21:02	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	615	112	1	08/08/19 08:56	08/09/19 21:02	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	615	522	1	08/08/19 08:56	08/09/19 21:02	108-60-1	
2-Chloronaphthalene	ND	ug/kg	615	176	1	08/08/19 08:56	08/09/19 21:02	91-58-7	
2-Chlorophenol	ND	ug/kg	615	192	1	08/08/19 08:56	08/09/19 21:02	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	615	178	1	08/08/19 08:56	08/09/19 21:02	7005-72-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SE-2 **Lab ID: 30317705005** Collected: 08/02/19 08:05 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Chrysene	ND	ug/kg	615	227	1	08/08/19 08:56	08/09/19 21:02	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	615	234	1	08/08/19 08:56	08/09/19 21:02	53-70-3	
Dibenzofuran	ND	ug/kg	615	197	1	08/08/19 08:56	08/09/19 21:02	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	615	192	1	08/08/19 08:56	08/09/19 21:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	615	182	1	08/08/19 08:56	08/09/19 21:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	615	85.0	1	08/08/19 08:56	08/09/19 21:02	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	615	181	1	08/08/19 08:56	08/09/19 21:02	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	615	276	1	08/08/19 08:56	08/09/19 21:02	120-83-2	
Diethylphthalate	ND	ug/kg	615	217	1	08/08/19 08:56	08/09/19 21:02	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	615	187	1	08/08/19 08:56	08/09/19 21:02	105-67-9	
Dimethylphthalate	ND	ug/kg	615	190	1	08/08/19 08:56	08/09/19 21:02	131-11-3	
Di-n-butylphthalate	ND	ug/kg	615	208	1	08/08/19 08:56	08/09/19 21:02	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1540	458	1	08/08/19 08:56	08/09/19 21:02	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1540	1380	1	08/08/19 08:56	08/09/19 21:02	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	615	187	1	08/08/19 08:56	08/09/19 21:02	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	615	187	1	08/08/19 08:56	08/09/19 21:02	606-20-2	
Di-n-octylphthalate	ND	ug/kg	615	140	1	08/08/19 08:56	08/09/19 21:02	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	615	196	1	08/08/19 08:56	08/09/19 21:02	117-81-7	
Fluoranthene	ND	ug/kg	615	198	1	08/08/19 08:56	08/09/19 21:02	206-44-0	
Fluorene	ND	ug/kg	615	188	1	08/08/19 08:56	08/09/19 21:02	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	615	200	1	08/08/19 08:56	08/09/19 21:02	87-68-3	
Hexachlorobenzene	ND	ug/kg	615	177	1	08/08/19 08:56	08/09/19 21:02	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	615	146	1	08/08/19 08:56	08/09/19 21:02	77-47-4	
Hexachloroethane	ND	ug/kg	615	166	1	08/08/19 08:56	08/09/19 21:02	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	615	232	1	08/08/19 08:56	08/09/19 21:02	193-39-5	
Isophorone	ND	ug/kg	615	203	1	08/08/19 08:56	08/09/19 21:02	78-59-1	
1-Methylnaphthalene	ND	ug/kg	615	155	1	08/08/19 08:56	08/09/19 21:02	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	615	185	1	08/08/19 08:56	08/09/19 21:02	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	615	221	1	08/08/19 08:56	08/09/19 21:02	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	1230	378	1	08/08/19 08:56	08/09/19 21:02		
Naphthalene	ND	ug/kg	615	167	1	08/08/19 08:56	08/09/19 21:02	91-20-3	
2-Nitroaniline	ND	ug/kg	1540	214	1	08/08/19 08:56	08/09/19 21:02	88-74-4	
3-Nitroaniline	ND	ug/kg	1540	402	1	08/08/19 08:56	08/09/19 21:02	99-09-2	
4-Nitroaniline	ND	ug/kg	1540	864	1	08/08/19 08:56	08/09/19 21:02	100-01-6	
Nitrobenzene	ND	ug/kg	615	228	1	08/08/19 08:56	08/09/19 21:02	98-95-3	
2-Nitrophenol	ND	ug/kg	615	244	1	08/08/19 08:56	08/09/19 21:02	88-75-5	
4-Nitrophenol	ND	ug/kg	615	207	1	08/08/19 08:56	08/09/19 21:02	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	615	106	1	08/08/19 08:56	08/09/19 21:02	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	615	260	1	08/08/19 08:56	08/09/19 21:02	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	615	139	1	08/08/19 08:56	08/09/19 21:02	86-30-6	
Pentachlorophenol	ND	ug/kg	1540	810	1	08/08/19 08:56	08/09/19 21:02	87-86-5	
Phenanthrene	ND	ug/kg	615	271	1	08/08/19 08:56	08/09/19 21:02	85-01-8	
Phenol	ND	ug/kg	615	182	1	08/08/19 08:56	08/09/19 21:02	108-95-2	
Pyrene	ND	ug/kg	615	225	1	08/08/19 08:56	08/09/19 21:02	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	615	166	1	08/08/19 08:56	08/09/19 21:02	120-82-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SE-2 **Lab ID: 30317705005** Collected: 08/02/19 08:05 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
2,4,5-Trichlorophenol	ND	ug/kg	1540	182	1	08/08/19 08:56	08/09/19 21:02	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	615	161	1	08/08/19 08:56	08/09/19 21:02	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	55	%	45-103		1	08/08/19 08:56	08/09/19 21:02	4165-60-0	
2-Fluorobiphenyl (S)	58	%	52-102		1	08/08/19 08:56	08/09/19 21:02	321-60-8	
Terphenyl-d14 (S)	44	%	53-135		1	08/08/19 08:56	08/09/19 21:02	1718-51-0	S5,SR
Phenol-d6 (S)	59	%	35-120		1	08/08/19 08:56	08/09/19 21:02	13127-88-3	
2-Fluorophenol (S)	61	%	10-147		1	08/08/19 08:56	08/09/19 21:02	367-12-4	
2,4,6-Tribromophenol (S)	55	%	10-160		1	08/08/19 08:56	08/09/19 21:02	118-79-6	
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Acetone	126	ug/kg	15.8	5.0	1	08/09/19 11:11	08/09/19 13:21	67-64-1	1c,3c
Benzene	ND	ug/kg	7.9	1.4	1	08/09/19 11:11	08/09/19 13:21	71-43-2	1c
Bromochloromethane	ND	ug/kg	7.9	1.7	1	08/09/19 11:11	08/09/19 13:21	74-97-5	1c
Bromodichloromethane	ND	ug/kg	7.9	1.7	1	08/09/19 11:11	08/09/19 13:21	75-27-4	1c
Bromoform	ND	ug/kg	7.9	1.0	1	08/09/19 11:11	08/09/19 13:21	75-25-2	1c
Bromomethane	ND	ug/kg	7.9	2.9	1	08/09/19 11:11	08/09/19 13:21	74-83-9	1c,3c
TOTAL BTEX	ND	ug/kg	47.5	9.7	1	08/09/19 11:11	08/09/19 13:21		
2-Butanone (MEK)	ND	ug/kg	15.8	1.4	1	08/09/19 11:11	08/09/19 13:21	78-93-3	1c
Carbon disulfide	ND	ug/kg	7.9	2.2	1	08/09/19 11:11	08/09/19 13:21	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	7.9	2.7	1	08/09/19 11:11	08/09/19 13:21	56-23-5	1c
Chlorobenzene	ND	ug/kg	7.9	1.2	1	08/09/19 11:11	08/09/19 13:21	108-90-7	1c
Chloroethane	ND	ug/kg	7.9	3.3	1	08/09/19 11:11	08/09/19 13:21	75-00-3	1c,CH
Chloroform	ND	ug/kg	7.9	2.4	1	08/09/19 11:11	08/09/19 13:21	67-66-3	1c
Chloromethane	ND	ug/kg	7.9	2.7	1	08/09/19 11:11	08/09/19 13:21	74-87-3	1c
Dibromochloromethane	ND	ug/kg	7.9	1.3	1	08/09/19 11:11	08/09/19 13:21	124-48-1	1c
1,2-Dichlorobenzene	ND	ug/kg	7.9	0.93	1	08/09/19 11:11	08/09/19 13:21	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	7.9	1.0	1	08/09/19 11:11	08/09/19 13:21	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	7.9	1.1	1	08/09/19 11:11	08/09/19 13:21	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	7.9	2.0	1	08/09/19 11:11	08/09/19 13:21	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	7.9	2.0	1	08/09/19 11:11	08/09/19 13:21	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	15.8	3.8	1	08/09/19 11:11	08/09/19 13:21	540-59-0	
1,1-Dichloroethene	ND	ug/kg	7.9	2.9	1	08/09/19 11:11	08/09/19 13:21	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	7.9	1.8	1	08/09/19 11:11	08/09/19 13:21	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	7.9	2.0	1	08/09/19 11:11	08/09/19 13:21	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	7.9	1.1	1	08/09/19 11:11	08/09/19 13:21	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	7.9	0.79	1	08/09/19 11:11	08/09/19 13:21	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	7.9	1.6	1	08/09/19 11:11	08/09/19 13:21	10061-02-6	1c
Ethylbenzene	ND	ug/kg	7.9	1.7	1	08/09/19 11:11	08/09/19 13:21	100-41-4	1c
2-Hexanone	ND	ug/kg	15.8	1.6	1	08/09/19 11:11	08/09/19 13:21	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	7.9	1.8	1	08/09/19 11:11	08/09/19 13:21	98-82-8	1c
Methylene Chloride	ND	ug/kg	7.9	6.6	1	08/09/19 11:11	08/09/19 13:21	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	15.8	1.8	1	08/09/19 11:11	08/09/19 13:21	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	7.9	1.1	1	08/09/19 11:11	08/09/19 13:21	1634-04-4	1c
Naphthalene	ND	ug/kg	7.9	1.5	1	08/09/19 11:11	08/09/19 13:21	91-20-3	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SE-2 **Lab ID: 30317705005** Collected: 08/02/19 08:05 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
Styrene	ND	ug/kg	7.9	2.3	1	08/09/19 11:11	08/09/19 13:21	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.9	0.93	1	08/09/19 11:11	08/09/19 13:21	79-34-5	1c, L2
Tetrachloroethene	ND	ug/kg	7.9	2.7	1	08/09/19 11:11	08/09/19 13:21	127-18-4	1c
Toluene	ND	ug/kg	7.9	1.6	1	08/09/19 11:11	08/09/19 13:21	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	7.9	2.0	1	08/09/19 11:11	08/09/19 13:21	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	7.9	2.4	1	08/09/19 11:11	08/09/19 13:21	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	7.9	1.6	1	08/09/19 11:11	08/09/19 13:21	79-00-5	1c
Trichloroethene	ND	ug/kg	7.9	2.3	1	08/09/19 11:11	08/09/19 13:21	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	7.9	3.9	1	08/09/19 11:11	08/09/19 13:21	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	7.9	3.2	1	08/09/19 11:11	08/09/19 13:21	108-67-8	1c
Vinyl chloride	ND	ug/kg	7.9	3.4	1	08/09/19 11:11	08/09/19 13:21	75-01-4	1c
Xylene (Total)	ND	ug/kg	23.7	5.0	1	08/09/19 11:11	08/09/19 13:21	1330-20-7	
m&p-Xylene	ND	ug/kg	15.8	3.3	1	08/09/19 11:11	08/09/19 13:21	179601-23-1	1c
o-Xylene	ND	ug/kg	7.9	1.7	1	08/09/19 11:11	08/09/19 13:21	95-47-6	1c
Surrogates									
Toluene-d8 (S)	100	%	70-130		1	08/09/19 11:11	08/09/19 13:21	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		1	08/09/19 11:11	08/09/19 13:21	460-00-4	
1,2-Dichloroethane-d4 (S)	124	%	70-130		1	08/09/19 11:11	08/09/19 13:21	17060-07-0	
Dibromofluoromethane (S)	110	%	70-130		1	08/09/19 11:11	08/09/19 13:21	1868-53-7	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	46.6	%	0.10	0.10	1		08/11/19 15:09		
9014 Cyanide, Total		Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C							
Cyanide	ND	mg/kg	1.6	0.42	1	08/09/19 11:45	08/09/19 17:12	57-12-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SW-2 **Lab ID: 30317705006** Collected: 08/02/19 08:30 Received: 08/03/19 10:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8081B Organochlorine Pesticide Analytical Method: EPA 8081B Preparation Method: EPA 3510C									
Aldrin	ND	ug/L	0.24	0.021	10	08/07/19 08:36	08/12/19 15:50	309-00-2	1c,ED
alpha-BHC	ND	ug/L	0.24	0.032	10	08/07/19 08:36	08/12/19 15:50	319-84-6	1c,ED
beta-BHC	ND	ug/L	0.24	0.081	10	08/07/19 08:36	08/12/19 15:50	319-85-7	1c,ED
delta-BHC	ND	ug/L	0.24	0.064	10	08/07/19 08:36	08/12/19 15:50	319-86-8	1c,ED
gamma-BHC (Lindane)	ND	ug/L	0.24	0.023	10	08/07/19 08:36	08/12/19 15:50	58-89-9	1c,ED
alpha-Chlordane	ND	ug/L	0.24	0.017	10	08/07/19 08:36	08/12/19 15:50	5103-71-9	1c,ED
gamma-Chlordane	ND	ug/L	0.24	0.051	10	08/07/19 08:36	08/12/19 15:50	5103-74-2	1c,ED
4,4'-DDD	ND	ug/L	0.49	0.036	10	08/07/19 08:36	08/12/19 15:50	72-54-8	1c,ED
4,4'-DDE	ND	ug/L	0.49	0.032	10	08/07/19 08:36	08/12/19 15:50	72-55-9	1c,ED
4,4'-DDT	ND	ug/L	0.49	0.027	10	08/07/19 08:36	08/12/19 15:50	50-29-3	1c,ED
Dieldrin	ND	ug/L	0.49	0.017	10	08/07/19 08:36	08/12/19 15:50	60-57-1	1c,ED
Endosulfan I	ND	ug/L	0.24	0.015	10	08/07/19 08:36	08/12/19 15:50	959-98-8	1c,ED
Endosulfan II	ND	ug/L	0.49	0.020	10	08/07/19 08:36	08/12/19 15:50	33213-65-9	1c,ED
Endosulfan sulfate	ND	ug/L	0.49	0.023	10	08/07/19 08:36	08/12/19 15:50	1031-07-8	1c,ED
Endrin	ND	ug/L	0.49	0.048	10	08/07/19 08:36	08/12/19 15:50	72-20-8	1c,ED
Endrin aldehyde	ND	ug/L	0.49	0.032	10	08/07/19 08:36	08/12/19 15:50	7421-93-4	1c,ED
Endrin ketone	ND	ug/L	0.49	0.018	10	08/07/19 08:36	08/12/19 15:50	53494-70-5	1c,ED
Heptachlor	ND	ug/L	0.24	0.020	10	08/07/19 08:36	08/12/19 15:50	76-44-8	1c,ED
Heptachlor epoxide	ND	ug/L	0.24	0.015	10	08/07/19 08:36	08/12/19 15:50	1024-57-3	1c,ED
Methoxychlor	ND	ug/L	2.4	0.14	10	08/07/19 08:36	08/12/19 15:50	72-43-5	1c,ED
Toxaphene	ND	ug/L	4.9	1.7	10	08/07/19 08:36	08/12/19 15:50	8001-35-2	1c,ED
Surrogates									
Tetrachloro-m-xylene (S)	82	%	44-93		10	08/07/19 08:36	08/12/19 15:50	877-09-8	
Decachlorobiphenyl (S)	70	%	24-108		10	08/07/19 08:36	08/12/19 15:50	2051-24-3	CH
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3510C									
PCB-1016 (Aroclor 1016)	ND	ug/L	0.24	0.13	1	08/07/19 08:36	08/08/19 17:49	12674-11-2	1c,2c
PCB-1221 (Aroclor 1221)	ND	ug/L	0.24	0.16	1	08/07/19 08:36	08/08/19 17:49	11104-28-2	1c,2c
PCB-1232 (Aroclor 1232)	ND	ug/L	0.24	0.071	1	08/07/19 08:36	08/08/19 17:49	11141-16-5	1c,2c
PCB-1242 (Aroclor 1242)	ND	ug/L	0.24	0.10	1	08/07/19 08:36	08/08/19 17:49	53469-21-9	1c,2c
PCB-1248 (Aroclor 1248)	ND	ug/L	0.24	0.091	1	08/07/19 08:36	08/08/19 17:49	12672-29-6	1c,2c
PCB-1254 (Aroclor 1254)	ND	ug/L	0.24	0.022	1	08/07/19 08:36	08/08/19 17:49	11097-69-1	1c,2c
PCB-1260 (Aroclor 1260)	ND	ug/L	0.24	0.024	1	08/07/19 08:36	08/08/19 17:49	11096-82-5	1c,2c
Surrogates									
Tetrachloro-m-xylene (S)	71	%	36-108		1	08/07/19 08:36	08/08/19 17:49	877-09-8	
Decachlorobiphenyl (S)	57	%	10-120		1	08/07/19 08:36	08/08/19 17:49	2051-24-3	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3005A									
Aluminum	7960	ug/L	50.0	20.3	1	08/05/19 14:24	08/06/19 14:11	7429-90-5	
Antimony	ND	ug/L	6.0	3.3	1	08/05/19 14:24	08/06/19 14:11	7440-36-0	
Arsenic	ND	ug/L	5.0	2.0	1	08/05/19 14:24	08/06/19 14:11	7440-38-2	
Barium	199	ug/L	10.0	0.68	1	08/05/19 14:24	08/06/19 14:11	7440-39-3	
Beryllium	ND	ug/L	1.0	0.17	1	08/05/19 14:24	08/06/19 14:11	7440-41-7	
Boron	78.8	ug/L	50.0	2.3	1	08/05/19 14:24	08/06/19 14:11	7440-42-8	
Cadmium	ND	ug/L	3.0	0.34	1	08/05/19 14:24	08/06/19 14:11	7440-43-9	
Calcium	94400	ug/L	1000	99.9	1	08/05/19 14:24	08/06/19 14:11	7440-70-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SW-2 **Lab ID: 30317705006** Collected: 08/02/19 08:30 Received: 08/03/19 10:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3005A									
Chromium	10.4	ug/L	5.0	0.35	1	08/05/19 14:24	08/06/19 14:11	7440-47-3	
Cobalt	ND	ug/L	5.0	0.53	1	08/05/19 14:24	08/06/19 14:11	7440-48-4	
Copper	73.4	ug/L	5.0	2.7	1	08/05/19 14:24	08/06/19 14:11	7440-50-8	
Iron	9140	ug/L	70.0	40.9	1	08/05/19 14:24	08/06/19 14:11	7439-89-6	
Lead	191	ug/L	5.0	4.9	1	08/05/19 14:24	08/06/19 14:11	7439-92-1	
Magnesium	20400	ug/L	200	28.4	1	08/05/19 14:24	08/06/19 14:11	7439-95-4	
Manganese	879	ug/L	5.0	1.2	1	08/05/19 14:24	08/06/19 14:11	7439-96-5	
Molybdenum	ND	ug/L	20.0	0.85	1	08/05/19 14:24	08/06/19 14:11	7439-98-7	
Nickel	13.5	ug/L	10.0	1.5	1	08/05/19 14:24	08/06/19 14:11	7440-02-0	
Potassium	7070	ug/L	500	72.4	1	08/05/19 14:24	08/06/19 14:11	7440-09-7	
Selenium	ND	ug/L	8.0	5.5	1	08/05/19 14:24	08/06/19 14:11	7782-49-2	
Silver	ND	ug/L	6.0	1.4	1	08/05/19 14:24	08/06/19 14:11	7440-22-4	
Sodium	98800	ug/L	1000	423	1	08/05/19 14:24	08/06/19 14:11	7440-23-5	
Thallium	ND	ug/L	10.0	4.0	1	08/05/19 14:24	08/06/19 14:11	7440-28-0	
Vanadium	16.5	ug/L	5.0	0.57	1	08/05/19 14:24	08/06/19 14:11	7440-62-2	
Zinc	87.8	ug/L	10.0	2.4	1	08/05/19 14:24	08/06/19 14:11	7440-66-6	

6010C MET ICP, Lab Filtered Analytical Method: EPA 6010C Preparation Method: EPA 3005A									
Aluminum, Dissolved	ND	ug/L	50.0	20.3	1	08/05/19 15:40	08/07/19 09:21	7429-90-5	
Antimony, Dissolved	ND	ug/L	6.0	3.3	1	08/05/19 15:40	08/07/19 09:21	7440-36-0	
Arsenic, Dissolved	ND	ug/L	5.0	2.0	1	08/05/19 15:40	08/07/19 09:21	7440-38-2	
Barium, Dissolved	98.0	ug/L	10.0	0.68	1	08/05/19 15:40	08/07/19 09:21	7440-39-3	
Beryllium, Dissolved	ND	ug/L	1.0	0.17	1	08/05/19 15:40	08/07/19 09:21	7440-41-7	
Boron, Dissolved	70.3	ug/L	50.0	2.3	1	08/05/19 15:40	08/07/19 09:21	7440-42-8	
Cadmium, Dissolved	ND	ug/L	3.0	0.34	1	08/05/19 15:40	08/07/19 09:21	7440-43-9	
Calcium, Dissolved	89400	ug/L	1000	99.9	1	08/05/19 15:40	08/07/19 09:21	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.35	1	08/05/19 15:40	08/07/19 09:21	7440-47-3	
Cobalt, Dissolved	ND	ug/L	5.0	0.53	1	08/05/19 15:40	08/07/19 09:21	7440-48-4	
Copper, Dissolved	ND	ug/L	5.0	2.7	1	08/05/19 15:40	08/07/19 09:21	7440-50-8	
Iron, Dissolved	384	ug/L	70.0	40.9	1	08/05/19 15:40	08/07/19 09:21	7439-89-6	
Lead, Dissolved	ND	ug/L	5.0	4.9	1	08/05/19 15:40	08/07/19 09:21	7439-92-1	
Magnesium, Dissolved	18900	ug/L	200	28.4	1	08/05/19 15:40	08/07/19 09:21	7439-95-4	
Manganese, Dissolved	215	ug/L	5.0	1.2	1	08/05/19 15:40	08/07/19 09:21	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	20.0	0.85	1	08/05/19 15:40	08/07/19 09:21	7439-98-7	
Nickel, Dissolved	ND	ug/L	10.0	1.5	1	08/05/19 15:40	08/07/19 09:21	7440-02-0	
Potassium, Dissolved	5300	ug/L	500	72.4	1	08/05/19 15:40	08/07/19 09:21	7440-09-7	
Selenium, Dissolved	ND	ug/L	8.0	5.5	1	08/05/19 15:40	08/07/19 09:21	7782-49-2	
Silver, Dissolved	ND	ug/L	6.0	1.4	1	08/05/19 15:40	08/07/19 09:21	7440-22-4	
Sodium, Dissolved	102000	ug/L	1000	423	1	08/05/19 15:40	08/07/19 09:21	7440-23-5	
Thallium, Dissolved	ND	ug/L	10.0	4.0	1	08/05/19 15:40	08/07/19 09:21	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	0.57	1	08/05/19 15:40	08/07/19 09:21	7440-62-2	
Zinc, Dissolved	ND	ug/L	10.0	2.4	1	08/05/19 15:40	08/07/19 09:21	7440-66-6	

7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	ug/L	0.20	0.030	1	08/05/19 20:52	08/06/19 09:25	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SW-2 Lab ID: 30317705006 Collected: 08/02/19 08:30 Received: 08/03/19 10:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Lab Filtered Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury, Dissolved	ND	ug/L	0.20	0.030	1	08/05/19 16:31	08/05/19 22:16	7439-97-6	
8270D MSSV Organics Analytical Method: EPA 8270D Preparation Method: EPA 3510C									
Acenaphthene	ND	ug/L	0.98	0.38	1	08/07/19 11:44	08/08/19 20:53	83-32-9	
Acenaphthylene	ND	ug/L	0.98	0.37	1	08/07/19 11:44	08/08/19 20:53	208-96-8	
Anthracene	ND	ug/L	0.98	0.26	1	08/07/19 11:44	08/08/19 20:53	120-12-7	
Azobenzene	ND	ug/L	0.98	0.35	1	08/07/19 11:44	08/08/19 20:53	103-33-3	N2
Benzo(a)anthracene	ND	ug/L	0.98	0.20	1	08/07/19 11:44	08/08/19 20:53	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.98	0.18	1	08/07/19 11:44	08/08/19 20:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.98	0.23	1	08/07/19 11:44	08/08/19 20:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.98	0.29	1	08/07/19 11:44	08/08/19 20:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.98	0.25	1	08/07/19 11:44	08/08/19 20:53	207-08-9	
Benzoic acid	ND	ug/L	14.7	2.8	1	08/07/19 11:44	08/08/19 20:53	65-85-0	L2
Benzyl alcohol	ND	ug/L	0.98	0.69	1	08/07/19 11:44	08/08/19 20:53	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	0.98	0.38	1	08/07/19 11:44	08/08/19 20:53	101-55-3	
Butylbenzylphthalate	ND	ug/L	0.98	0.29	1	08/07/19 11:44	08/08/19 20:53	85-68-7	
Carbazole	ND	ug/L	0.98	0.23	1	08/07/19 11:44	08/08/19 20:53	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	0.98	0.43	1	08/07/19 11:44	08/08/19 20:53	59-50-7	
4-Chloroaniline	ND	ug/L	0.98	0.21	1	08/07/19 11:44	08/08/19 20:53	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	0.98	0.35	1	08/07/19 11:44	08/08/19 20:53	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	0.98	0.40	1	08/07/19 11:44	08/08/19 20:53	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	0.98	0.40	1	08/07/19 11:44	08/08/19 20:53	108-60-1	
2-Chloronaphthalene	ND	ug/L	0.98	0.33	1	08/07/19 11:44	08/08/19 20:53	91-58-7	
2-Chlorophenol	ND	ug/L	0.98	0.32	1	08/07/19 11:44	08/08/19 20:53	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	0.98	0.36	1	08/07/19 11:44	08/08/19 20:53	7005-72-3	
Chrysene	ND	ug/L	0.98	0.20	1	08/07/19 11:44	08/08/19 20:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.98	0.31	1	08/07/19 11:44	08/08/19 20:53	53-70-3	
Dibenzofuran	ND	ug/L	0.98	0.36	1	08/07/19 11:44	08/08/19 20:53	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	0.98	0.34	1	08/07/19 11:44	08/08/19 20:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.98	0.29	1	08/07/19 11:44	08/08/19 20:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.98	0.27	1	08/07/19 11:44	08/08/19 20:53	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	0.98	0.22	1	08/07/19 11:44	08/08/19 20:53	91-94-1	
2,4-Dichlorophenol	ND	ug/L	0.98	0.33	1	08/07/19 11:44	08/08/19 20:53	120-83-2	
Diethylphthalate	ND	ug/L	0.98	0.36	1	08/07/19 11:44	08/08/19 20:53	84-66-2	
2,4-Dimethylphenol	ND	ug/L	0.98	0.35	1	08/07/19 11:44	08/08/19 20:53	105-67-9	
Dimethylphthalate	ND	ug/L	0.98	0.43	1	08/07/19 11:44	08/08/19 20:53	131-11-3	
Di-n-butylphthalate	ND	ug/L	0.98	0.31	1	08/07/19 11:44	08/08/19 20:53	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	0.63	1	08/07/19 11:44	08/08/19 20:53	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	0.57	1	08/07/19 11:44	08/08/19 20:53	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	0.98	0.35	1	08/07/19 11:44	08/08/19 20:53	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	0.98	0.40	1	08/07/19 11:44	08/08/19 20:53	606-20-2	
Di-n-octylphthalate	ND	ug/L	0.98	0.26	1	08/07/19 11:44	08/08/19 20:53	117-84-0	CH
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.98	0.35	1	08/07/19 11:44	08/08/19 20:53	117-81-7	
Fluoranthene	ND	ug/L	0.98	0.23	1	08/07/19 11:44	08/08/19 20:53	206-44-0	
Fluorene	ND	ug/L	0.98	0.36	1	08/07/19 11:44	08/08/19 20:53	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	0.98	0.32	1	08/07/19 11:44	08/08/19 20:53	87-68-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SW-2 **Lab ID: 30317705006** Collected: 08/02/19 08:30 Received: 08/03/19 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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8270D MSSV Organics Analytical Method: EPA 8270D Preparation Method: EPA 3510C

Hexachlorobenzene	ND	ug/L	0.98	0.30	1	08/07/19 11:44	08/08/19 20:53	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	0.98	0.19	1	08/07/19 11:44	08/08/19 20:53	77-47-4	
Hexachloroethane	ND	ug/L	0.98	0.30	1	08/07/19 11:44	08/08/19 20:53	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.98	0.30	1	08/07/19 11:44	08/08/19 20:53	193-39-5	
Isophorone	ND	ug/L	0.98	0.56	1	08/07/19 11:44	08/08/19 20:53	78-59-1	
1-Methylnaphthalene	ND	ug/L	0.98	0.35	1	08/07/19 11:44	08/08/19 20:53	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.98	0.34	1	08/07/19 11:44	08/08/19 20:53	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	0.98	0.36	1	08/07/19 11:44	08/08/19 20:53	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	1.9	1	08/07/19 11:44	08/08/19 20:53		
Naphthalene	ND	ug/L	0.98	0.34	1	08/07/19 11:44	08/08/19 20:53	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	0.70	1	08/07/19 11:44	08/08/19 20:53	88-74-4	
3-Nitroaniline	ND	ug/L	2.5	0.94	1	08/07/19 11:44	08/08/19 20:53	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1.8	1	08/07/19 11:44	08/08/19 20:53	100-01-6	
Nitrobenzene	ND	ug/L	0.98	0.37	1	08/07/19 11:44	08/08/19 20:53	98-95-3	
2-Nitrophenol	ND	ug/L	0.98	0.34	1	08/07/19 11:44	08/08/19 20:53	88-75-5	
4-Nitrophenol	ND	ug/L	0.98	0.75	1	08/07/19 11:44	08/08/19 20:53	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	0.98	0.25	1	08/07/19 11:44	08/08/19 20:53	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	0.98	0.53	1	08/07/19 11:44	08/08/19 20:53	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	0.98	0.25	1	08/07/19 11:44	08/08/19 20:53	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1.0	1	08/07/19 11:44	08/08/19 20:53	87-86-5	
Phenanthrene	ND	ug/L	0.98	0.33	1	08/07/19 11:44	08/08/19 20:53	85-01-8	
Phenol	ND	ug/L	0.98	0.22	1	08/07/19 11:44	08/08/19 20:53	108-95-2	
Pyrene	ND	ug/L	0.98	0.30	1	08/07/19 11:44	08/08/19 20:53	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	0.98	0.31	1	08/07/19 11:44	08/08/19 20:53	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	0.66	1	08/07/19 11:44	08/08/19 20:53	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	0.98	0.36	1	08/07/19 11:44	08/08/19 20:53	88-06-2	

Surrogates

Nitrobenzene-d5 (S)	30	%	10-120		1	08/07/19 11:44	08/08/19 20:53	4165-60-0	
2-Fluorobiphenyl (S)	33	%	10-121		1	08/07/19 11:44	08/08/19 20:53	321-60-8	
Terphenyl-d14 (S)	64	%	43-119		1	08/07/19 11:44	08/08/19 20:53	1718-51-0	
Phenol-d6 (S)	16	%	10-58		1	08/07/19 11:44	08/08/19 20:53	13127-88-3	
2-Fluorophenol (S)	19	%	10-84		1	08/07/19 11:44	08/08/19 20:53	367-12-4	
2,4,6-Tribromophenol (S)	55	%	33-129		1	08/07/19 11:44	08/08/19 20:53	118-79-6	

8260C MSV

Analytical Method: EPA 8260C

Acetone	21.1	ug/L	10.0	5.6	1		08/07/19 12:52	67-64-1	
Benzene	ND	ug/L	1.0	0.34	1		08/07/19 12:52	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		08/07/19 12:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		08/07/19 12:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.56	1		08/07/19 12:52	75-25-2	
Bromomethane	ND	ug/L	1.0	0.73	1		08/07/19 12:52	74-83-9	7c, CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		08/07/19 12:52		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		08/07/19 12:52	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		08/07/19 12:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		08/07/19 12:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		08/07/19 12:52	108-90-7	

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SW-2 **Lab ID: 30317705006** Collected: 08/02/19 08:30 Received: 08/03/19 10:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260C MSV Analytical Method: EPA 8260C									
Chloroethane	ND	ug/L	1.0	0.64	1		08/07/19 12:52	75-00-3	
Chloroform	ND	ug/L	1.0	0.39	1		08/07/19 12:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.40	1		08/07/19 12:52	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.43	1		08/07/19 12:52	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		08/07/19 12:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		08/07/19 12:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		08/07/19 12:52	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.24	1		08/07/19 12:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		08/07/19 12:52	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		08/07/19 12:52	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		08/07/19 12:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		08/07/19 12:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.28	1		08/07/19 12:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/19 12:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		08/07/19 12:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		08/07/19 12:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		08/07/19 12:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		08/07/19 12:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		08/07/19 12:52	98-82-8	
Methylene Chloride	3.4	ug/L	1.0	0.64	1		08/07/19 12:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		08/07/19 12:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		08/07/19 12:52	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		08/07/19 12:52	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		08/07/19 12:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		08/07/19 12:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		08/07/19 12:52	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		08/07/19 12:52	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		08/07/19 12:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		08/07/19 12:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		08/07/19 12:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.29	1		08/07/19 12:52	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		08/07/19 12:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		08/07/19 12:52	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		08/07/19 12:52	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		08/07/19 12:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		08/07/19 12:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		08/07/19 12:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	78-122		1		08/07/19 12:52	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		08/07/19 12:52	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		08/07/19 12:52	2037-26-5	
Dibromofluoromethane (S)	103	%	80-120		1		08/07/19 12:52	1868-53-7	

4500CNE Cyanide, Total Analytical Method: SM 4500CNE-2011 Preparation Method: SM 4500CNC-2011

Cyanide	0.018	mg/L	0.010	0.0057	1	08/06/19 15:46	08/08/19 16:54	57-12-5	
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SE-3 **Lab ID: 30317705007** Collected: 08/02/19 08:50 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082A GCS PCB Analytical Method: EPA 8082A Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	104	64.0	5	08/06/19 07:46	08/07/19 17:45	12674-11-2	ED
PCB-1221 (Aroclor 1221)	ND	ug/kg	104	92.0	5	08/06/19 07:46	08/07/19 17:45	11104-28-2	ED
PCB-1232 (Aroclor 1232)	ND	ug/kg	104	94.4	5	08/06/19 07:46	08/07/19 17:45	11141-16-5	ED
PCB-1242 (Aroclor 1242)	ND	ug/kg	104	75.8	5	08/06/19 07:46	08/07/19 17:45	53469-21-9	ED
PCB-1248 (Aroclor 1248)	ND	ug/kg	104	59.6	5	08/06/19 07:46	08/07/19 17:45	12672-29-6	ED
PCB-1254 (Aroclor 1254)	ND	ug/kg	104	55.3	5	08/06/19 07:46	08/07/19 17:45	11097-69-1	ED
PCB-1260 (Aroclor 1260)	ND	ug/kg	104	59.0	5	08/06/19 07:46	08/07/19 17:45	11096-82-5	ED
PCB, Total	ND	ug/kg	934	586	5	08/06/19 07:46	08/07/19 17:45	1336-36-3	
Surrogates									
Tetrachloro-m-xylene (S)	88	%	34-114		5	08/06/19 07:46	08/07/19 17:45	877-09-8	
Decachlorobiphenyl (S)	96	%	38-139		5	08/06/19 07:46	08/07/19 17:45	2051-24-3	
6010C MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B									
Aluminum	12200	mg/kg	11.7	2.9	1	08/06/19 07:49	08/09/19 07:31	7429-90-5	
Antimony	ND	mg/kg	0.70	0.57	1	08/06/19 07:49	08/09/19 07:31	7440-36-0	
Arsenic	8.4	mg/kg	0.59	0.56	1	08/06/19 07:49	08/09/19 07:31	7440-38-2	
Barium	137	mg/kg	2.3	0.11	1	08/06/19 07:49	08/09/19 07:31	7440-39-3	
Beryllium	0.71	mg/kg	0.23	0.036	1	08/06/19 07:49	08/09/19 07:31	7440-41-7	
Boron	ND	mg/kg	5.9	0.21	1	08/06/19 07:49	08/09/19 07:31	7440-42-8	
Cadmium	0.45	mg/kg	0.35	0.071	1	08/06/19 07:49	08/09/19 07:31	7440-43-9	
Calcium	8650	mg/kg	235	5.7	1	08/06/19 07:49	08/09/19 07:31	7440-70-2	
Chromium	25.8	mg/kg	0.59	0.11	1	08/06/19 07:49	08/09/19 07:31	7440-47-3	
Cobalt	17.6	mg/kg	1.2	0.12	1	08/06/19 07:49	08/09/19 07:31	7440-48-4	
Copper	62.6	mg/kg	1.2	0.68	1	08/06/19 07:49	08/09/19 07:31	7440-50-8	
Iron	29000	mg/kg	11.7	1.4	1	08/06/19 07:49	08/09/19 07:31	7439-89-6	
Lead	60.6	mg/kg	0.59	0.57	1	08/06/19 07:49	08/09/19 07:31	7439-92-1	
Magnesium	6610	mg/kg	58.7	6.8	1	08/06/19 07:49	08/09/19 07:31	7439-95-4	
Manganese	814	mg/kg	1.2	0.12	1	08/06/19 07:49	08/09/19 07:31	7439-96-5	
Molybdenum	ND	mg/kg	2.3	0.17	1	08/06/19 07:49	08/09/19 07:31	7439-98-7	
Nickel	35.4	mg/kg	2.3	0.29	1	08/06/19 07:49	08/09/19 07:31	7440-02-0	
Potassium	1940	mg/kg	58.7	54.1	1	08/06/19 07:49	08/09/19 07:31	7440-09-7	
Selenium	ND	mg/kg	0.94	0.69	1	08/06/19 07:49	08/09/19 07:31	7782-49-2	
Silver	ND	mg/kg	0.70	0.11	1	08/06/19 07:49	08/09/19 07:31	7440-22-4	
Sodium	ND	mg/kg	587	42.7	1	08/06/19 07:49	08/09/19 07:31	7440-23-5	
Thallium	ND	mg/kg	2.3	0.72	1	08/06/19 07:49	08/09/19 07:31	7440-28-0	
Vanadium	27.7	mg/kg	1.2	0.095	1	08/06/19 07:49	08/09/19 07:31	7440-62-2	
Zinc	146	mg/kg	1.2	0.20	1	08/06/19 07:49	08/09/19 07:31	7440-66-6	B
7471B Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B									
Mercury	ND	mg/kg	0.12	0.0057	1	08/06/19 09:35	08/06/19 18:35	7439-97-6	
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
Acenaphthene	ND	ug/kg	408	139	1	08/08/19 08:56	08/09/19 21:23	83-32-9	
Acenaphthylene	ND	ug/kg	408	123	1	08/08/19 08:56	08/09/19 21:23	208-96-8	
Anthracene	ND	ug/kg	408	93.8	1	08/08/19 08:56	08/09/19 21:23	120-12-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SE-3 **Lab ID: 30317705007** Collected: 08/02/19 08:50 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave		Analytical Method: EPA 8270D Preparation Method: EPA 3546							
Azobenzene	ND	ug/kg	408	144	1	08/08/19 08:56	08/09/19 21:23	103-33-3	N2
Benzo(a)anthracene	ND	ug/kg	408	183	1	08/08/19 08:56	08/09/19 21:23	56-55-3	
Benzo(a)pyrene	ND	ug/kg	408	127	1	08/08/19 08:56	08/09/19 21:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	408	124	1	08/08/19 08:56	08/09/19 21:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	408	142	1	08/08/19 08:56	08/09/19 21:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	408	180	1	08/08/19 08:56	08/09/19 21:23	207-08-9	
Benzoic acid	ND	ug/kg	6130	2070	1	08/08/19 08:56	08/09/19 21:23	65-85-0	
Benzyl alcohol	ND	ug/kg	408	361	1	08/08/19 08:56	08/09/19 21:23	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	408	150	1	08/08/19 08:56	08/09/19 21:23	101-55-3	
Butylbenzylphthalate	ND	ug/kg	408	115	1	08/08/19 08:56	08/09/19 21:23	85-68-7	
Carbazole	ND	ug/kg	408	160	1	08/08/19 08:56	08/09/19 21:23	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	408	65.7	1	08/08/19 08:56	08/09/19 21:23	59-50-7	
4-Chloroaniline	ND	ug/kg	408	71.9	1	08/08/19 08:56	08/09/19 21:23	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	408	162	1	08/08/19 08:56	08/09/19 21:23	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	408	74.6	1	08/08/19 08:56	08/09/19 21:23	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	408	347	1	08/08/19 08:56	08/09/19 21:23	108-60-1	
2-Chloronaphthalene	ND	ug/kg	408	117	1	08/08/19 08:56	08/09/19 21:23	91-58-7	
2-Chlorophenol	ND	ug/kg	408	127	1	08/08/19 08:56	08/09/19 21:23	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	408	118	1	08/08/19 08:56	08/09/19 21:23	7005-72-3	
Chrysene	ND	ug/kg	408	151	1	08/08/19 08:56	08/09/19 21:23	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	408	155	1	08/08/19 08:56	08/09/19 21:23	53-70-3	
Dibenzofuran	ND	ug/kg	408	131	1	08/08/19 08:56	08/09/19 21:23	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	408	128	1	08/08/19 08:56	08/09/19 21:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	408	121	1	08/08/19 08:56	08/09/19 21:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	408	56.4	1	08/08/19 08:56	08/09/19 21:23	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	408	120	1	08/08/19 08:56	08/09/19 21:23	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	408	183	1	08/08/19 08:56	08/09/19 21:23	120-83-2	
Diethylphthalate	ND	ug/kg	408	144	1	08/08/19 08:56	08/09/19 21:23	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	408	124	1	08/08/19 08:56	08/09/19 21:23	105-67-9	
Dimethylphthalate	ND	ug/kg	408	126	1	08/08/19 08:56	08/09/19 21:23	131-11-3	
Di-n-butylphthalate	ND	ug/kg	408	138	1	08/08/19 08:56	08/09/19 21:23	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1020	304	1	08/08/19 08:56	08/09/19 21:23	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1020	918	1	08/08/19 08:56	08/09/19 21:23	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	408	124	1	08/08/19 08:56	08/09/19 21:23	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	408	124	1	08/08/19 08:56	08/09/19 21:23	606-20-2	
Di-n-octylphthalate	ND	ug/kg	408	92.7	1	08/08/19 08:56	08/09/19 21:23	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	408	130	1	08/08/19 08:56	08/09/19 21:23	117-81-7	
Fluoranthene	462	ug/kg	408	131	1	08/08/19 08:56	08/09/19 21:23	206-44-0	
Fluorene	ND	ug/kg	408	125	1	08/08/19 08:56	08/09/19 21:23	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	408	133	1	08/08/19 08:56	08/09/19 21:23	87-68-3	
Hexachlorobenzene	ND	ug/kg	408	117	1	08/08/19 08:56	08/09/19 21:23	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	408	96.7	1	08/08/19 08:56	08/09/19 21:23	77-47-4	
Hexachloroethane	ND	ug/kg	408	110	1	08/08/19 08:56	08/09/19 21:23	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	408	154	1	08/08/19 08:56	08/09/19 21:23	193-39-5	
Isophorone	ND	ug/kg	408	134	1	08/08/19 08:56	08/09/19 21:23	78-59-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB

Pace Project No.: 30317705

Sample: SE-3 **Lab ID: 30317705007** Collected: 08/02/19 08:50 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270D MSSV Microwave Analytical Method: EPA 8270D Preparation Method: EPA 3546									
1-Methylnaphthalene	ND	ug/kg	408	103	1	08/08/19 08:56	08/09/19 21:23	90-12-0	L1
2-Methylnaphthalene	ND	ug/kg	408	123	1	08/08/19 08:56	08/09/19 21:23	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	408	147	1	08/08/19 08:56	08/09/19 21:23	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	817	251	1	08/08/19 08:56	08/09/19 21:23		
Naphthalene	ND	ug/kg	408	111	1	08/08/19 08:56	08/09/19 21:23	91-20-3	
2-Nitroaniline	ND	ug/kg	1020	142	1	08/08/19 08:56	08/09/19 21:23	88-74-4	
3-Nitroaniline	ND	ug/kg	1020	267	1	08/08/19 08:56	08/09/19 21:23	99-09-2	
4-Nitroaniline	ND	ug/kg	1020	573	1	08/08/19 08:56	08/09/19 21:23	100-01-6	
Nitrobenzene	ND	ug/kg	408	151	1	08/08/19 08:56	08/09/19 21:23	98-95-3	
2-Nitrophenol	ND	ug/kg	408	162	1	08/08/19 08:56	08/09/19 21:23	88-75-5	
4-Nitrophenol	ND	ug/kg	408	137	1	08/08/19 08:56	08/09/19 21:23	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	408	70.0	1	08/08/19 08:56	08/09/19 21:23	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	408	173	1	08/08/19 08:56	08/09/19 21:23	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	408	92.1	1	08/08/19 08:56	08/09/19 21:23	86-30-6	
Pentachlorophenol	ND	ug/kg	1020	538	1	08/08/19 08:56	08/09/19 21:23	87-86-5	
Phenanthrene	ND	ug/kg	408	180	1	08/08/19 08:56	08/09/19 21:23	85-01-8	
Phenol	ND	ug/kg	408	121	1	08/08/19 08:56	08/09/19 21:23	108-95-2	
Pyrene	ND	ug/kg	408	149	1	08/08/19 08:56	08/09/19 21:23	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	408	111	1	08/08/19 08:56	08/09/19 21:23	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1020	121	1	08/08/19 08:56	08/09/19 21:23	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	408	107	1	08/08/19 08:56	08/09/19 21:23	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	70	%	45-103		1	08/08/19 08:56	08/09/19 21:23	4165-60-0	
2-Fluorobiphenyl (S)	76	%	52-102		1	08/08/19 08:56	08/09/19 21:23	321-60-8	
Terphenyl-d14 (S)	70	%	53-135		1	08/08/19 08:56	08/09/19 21:23	1718-51-0	
Phenol-d6 (S)	69	%	35-120		1	08/08/19 08:56	08/09/19 21:23	13127-88-3	
2-Fluorophenol (S)	72	%	10-147		1	08/08/19 08:56	08/09/19 21:23	367-12-4	
2,4,6-Tribromophenol (S)	69	%	10-160		1	08/08/19 08:56	08/09/19 21:23	118-79-6	
8260C MSV 5035 Low Level Analytical Method: EPA 8260C Preparation Method: EPA 5035A									
Acetone	63.9	ug/kg	10.4	3.3	1	08/09/19 11:11	08/09/19 13:41	67-64-1	1c,3c
Benzene	ND	ug/kg	5.2	0.91	1	08/09/19 11:11	08/09/19 13:41	71-43-2	1c
Bromochloromethane	ND	ug/kg	5.2	1.1	1	08/09/19 11:11	08/09/19 13:41	74-97-5	1c
Bromodichloromethane	ND	ug/kg	5.2	1.1	1	08/09/19 11:11	08/09/19 13:41	75-27-4	1c
Bromoform	ND	ug/kg	5.2	0.69	1	08/09/19 11:11	08/09/19 13:41	75-25-2	1c
Bromomethane	ND	ug/kg	5.2	1.9	1	08/09/19 11:11	08/09/19 13:41	74-83-9	1c,3c
TOTAL BTEX	ND	ug/kg	31.2	6.4	1	08/09/19 11:11	08/09/19 13:41		
2-Butanone (MEK)	ND	ug/kg	10.4	0.95	1	08/09/19 11:11	08/09/19 13:41	78-93-3	1c
Carbon disulfide	16.8	ug/kg	5.2	1.5	1	08/09/19 11:11	08/09/19 13:41	75-15-0	1c
Carbon tetrachloride	ND	ug/kg	5.2	1.8	1	08/09/19 11:11	08/09/19 13:41	56-23-5	1c
Chlorobenzene	ND	ug/kg	5.2	0.81	1	08/09/19 11:11	08/09/19 13:41	108-90-7	1c
Chloroethane	ND	ug/kg	5.2	2.2	1	08/09/19 11:11	08/09/19 13:41	75-00-3	1c,CH
Chloroform	ND	ug/kg	5.2	1.6	1	08/09/19 11:11	08/09/19 13:41	67-66-3	1c
Chloromethane	ND	ug/kg	5.2	1.8	1	08/09/19 11:11	08/09/19 13:41	74-87-3	1c
Dibromochloromethane	ND	ug/kg	5.2	0.82	1	08/09/19 11:11	08/09/19 13:41	124-48-1	1c

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB
Pace Project No.: 30317705

Sample: SE-3 **Lab ID: 30317705007** Collected: 08/02/19 08:50 Received: 08/03/19 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level		Analytical Method: EPA 8260C Preparation Method: EPA 5035A							
1,2-Dichlorobenzene	ND	ug/kg	5.2	0.61	1	08/09/19 11:11	08/09/19 13:41	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	5.2	0.68	1	08/09/19 11:11	08/09/19 13:41	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	5.2	0.74	1	08/09/19 11:11	08/09/19 13:41	106-46-7	1c
1,1-Dichloroethane	ND	ug/kg	5.2	1.3	1	08/09/19 11:11	08/09/19 13:41	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	5.2	1.3	1	08/09/19 11:11	08/09/19 13:41	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	10.4	2.5	1	08/09/19 11:11	08/09/19 13:41	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.2	1.9	1	08/09/19 11:11	08/09/19 13:41	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1.2	1	08/09/19 11:11	08/09/19 13:41	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1.3	1	08/09/19 11:11	08/09/19 13:41	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	5.2	0.75	1	08/09/19 11:11	08/09/19 13:41	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	5.2	0.52	1	08/09/19 11:11	08/09/19 13:41	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1.1	1	08/09/19 11:11	08/09/19 13:41	10061-02-6	1c
Ethylbenzene	ND	ug/kg	5.2	1.1	1	08/09/19 11:11	08/09/19 13:41	100-41-4	1c
2-Hexanone	ND	ug/kg	10.4	1.0	1	08/09/19 11:11	08/09/19 13:41	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1.2	1	08/09/19 11:11	08/09/19 13:41	98-82-8	1c
Methylene Chloride	ND	ug/kg	5.2	4.4	1	08/09/19 11:11	08/09/19 13:41	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.4	1.2	1	08/09/19 11:11	08/09/19 13:41	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	5.2	0.70	1	08/09/19 11:11	08/09/19 13:41	1634-04-4	1c
Naphthalene	ND	ug/kg	5.2	0.98	1	08/09/19 11:11	08/09/19 13:41	91-20-3	1c
Styrene	ND	ug/kg	5.2	1.5	1	08/09/19 11:11	08/09/19 13:41	100-42-5	1c
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	0.61	1	08/09/19 11:11	08/09/19 13:41	79-34-5	1c,L2
Tetrachloroethene	ND	ug/kg	5.2	1.8	1	08/09/19 11:11	08/09/19 13:41	127-18-4	1c
Toluene	ND	ug/kg	5.2	1.0	1	08/09/19 11:11	08/09/19 13:41	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1.3	1	08/09/19 11:11	08/09/19 13:41	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	5.2	1.6	1	08/09/19 11:11	08/09/19 13:41	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	5.2	1.0	1	08/09/19 11:11	08/09/19 13:41	79-00-5	1c
Trichloroethene	ND	ug/kg	5.2	1.5	1	08/09/19 11:11	08/09/19 13:41	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	2.5	1	08/09/19 11:11	08/09/19 13:41	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	2.1	1	08/09/19 11:11	08/09/19 13:41	108-67-8	1c
Vinyl chloride	ND	ug/kg	5.2	2.2	1	08/09/19 11:11	08/09/19 13:41	75-01-4	1c
Xylene (Total)	ND	ug/kg	15.6	3.3	1	08/09/19 11:11	08/09/19 13:41	1330-20-7	
m&p-Xylene	ND	ug/kg	10.4	2.2	1	08/09/19 11:11	08/09/19 13:41	179601-23-1	1c
o-Xylene	ND	ug/kg	5.2	1.1	1	08/09/19 11:11	08/09/19 13:41	95-47-6	1c
Surrogates									
Toluene-d8 (S)	97	%	70-130		1	08/09/19 11:11	08/09/19 13:41	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1	08/09/19 11:11	08/09/19 13:41	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1	08/09/19 11:11	08/09/19 13:41	17060-07-0	
Dibromofluoromethane (S)	111	%	70-130		1	08/09/19 11:11	08/09/19 13:41	1868-53-7	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **21.1** % 0.10 0.10 1 08/11/19 15:10

9014 Cyanide, Total

Analytical Method: EPA 9014 Total CN Preparation Method: EPA 9010C

Cyanide ND mg/kg 1.0 0.26 1 08/09/19 11:45 08/09/19 17:13 57-12-5

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB

Pace Project No.: 30317705

Sample: Trip Blank **Lab ID: 30317705008** Collected: 08/01/19 00:01 Received: 08/03/19 10:00 Matrix: Water

Comments: • Headspace in both trip blank vials

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV									
Analytical Method: EPA 8260C									
Acetone	ND	ug/L	10.0	5.6	1		08/07/19 12:28	67-64-1	
Benzene	ND	ug/L	1.0	0.34	1		08/07/19 12:28	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		08/07/19 12:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		08/07/19 12:28	75-27-4	
Bromoform	ND	ug/L	1.0	0.56	1		08/07/19 12:28	75-25-2	
Bromomethane	ND	ug/L	1.0	0.73	1		08/07/19 12:28	74-83-9	7c, CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		08/07/19 12:28		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		08/07/19 12:28	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		08/07/19 12:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		08/07/19 12:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		08/07/19 12:28	108-90-7	
Chloroethane	ND	ug/L	1.0	0.64	1		08/07/19 12:28	75-00-3	
Chloroform	ND	ug/L	1.0	0.39	1		08/07/19 12:28	67-66-3	
Chloromethane	ND	ug/L	1.0	0.40	1		08/07/19 12:28	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.43	1		08/07/19 12:28	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		08/07/19 12:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		08/07/19 12:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		08/07/19 12:28	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.24	1		08/07/19 12:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		08/07/19 12:28	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		08/07/19 12:28	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.24	1		08/07/19 12:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		08/07/19 12:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.28	1		08/07/19 12:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.28	1		08/07/19 12:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		08/07/19 12:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		08/07/19 12:28	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		08/07/19 12:28	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		08/07/19 12:28	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		08/07/19 12:28	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.64	1		08/07/19 12:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		08/07/19 12:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		08/07/19 12:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	0.82	1		08/07/19 12:28	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		08/07/19 12:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		08/07/19 12:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		08/07/19 12:28	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		08/07/19 12:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.73	1		08/07/19 12:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		08/07/19 12:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		08/07/19 12:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.29	1		08/07/19 12:28	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		08/07/19 12:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		08/07/19 12:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		08/07/19 12:28	75-01-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GW & SB

Pace Project No.: 30317705

Sample: Trip Blank **Lab ID: 30317705008** Collected: 08/01/19 00:01 Received: 08/03/19 10:00 Matrix: Water

Comments: • Headspace in both trip blank vials

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV									
Analytical Method: EPA 8260C									
Xylene (Total)	ND	ug/L	3.0	1.4	1		08/07/19 12:28	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		08/07/19 12:28	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		08/07/19 12:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	78-122		1		08/07/19 12:28	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		08/07/19 12:28	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		08/07/19 12:28	2037-26-5	
Dibromofluoromethane (S)	103	%	80-120		1		08/07/19 12:28	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB

Pace Project No.: 30317705

QC Batch: 355234

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 30317705001, 30317705006

METHOD BLANK: 1725515

Matrix: Water

Associated Lab Samples: 30317705001, 30317705006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.030	08/06/19 09:07	

LABORATORY CONTROL SAMPLE: 1725516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.1	110	80-120	

MATRIX SPIKE SAMPLE: 1725518

Parameter	Units	30316460002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.7	109	75-125	

SAMPLE DUPLICATE: 1725517

Parameter	Units	30316460002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355198 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury Dissolved
Associated Lab Samples: 30317705001, 30317705006

METHOD BLANK: 1725391 Matrix: Water
Associated Lab Samples: 30317705001, 30317705006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	0.030	08/05/19 21:55	

LABORATORY CONTROL SAMPLE: 1725392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	1	0.99	99	80-120	

MATRIX SPIKE SAMPLE: 1725394

Parameter	Units	30317042007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	2.5	2.5	100	75-125	

SAMPLE DUPLICATE: 1725393

Parameter	Units	30317042007 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury, Dissolved	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355287 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471B Mercury
Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

METHOD BLANK: 1725663 Matrix: Solid
Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.10	0.0049	08/06/19 18:12	

LABORATORY CONTROL SAMPLE: 1725664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.2	0.19	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725665 1725666

Parameter	Units	30317705002		30317705003		30317705004		30317705005		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Mercury	mg/kg	ND	0.56	0.56	0.54	0.59	95	104	80-120	9	20		

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355262 Analysis Method: EPA 6010C
QC Batch Method: EPA 3050B Analysis Description: 6010C MET
Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

METHOD BLANK: 1725588 Matrix: Solid
Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	mg/kg	ND	9.8	2.5	08/09/19 06:46	
Antimony	mg/kg	ND	0.59	0.47	08/09/19 06:46	
Arsenic	mg/kg	ND	0.49	0.47	08/09/19 06:46	
Barium	mg/kg	ND	2.0	0.092	08/09/19 06:46	
Beryllium	mg/kg	ND	0.20	0.030	08/09/19 06:46	
Boron	mg/kg	ND	4.9	0.17	08/09/19 06:46	
Cadmium	mg/kg	ND	0.29	0.060	08/09/19 06:46	
Calcium	mg/kg	ND	196	4.8	08/09/19 06:46	
Chromium	mg/kg	ND	0.49	0.090	08/09/19 06:46	
Cobalt	mg/kg	ND	0.98	0.10	08/09/19 06:46	
Copper	mg/kg	ND	0.98	0.57	08/09/19 06:46	
Iron	mg/kg	ND	9.8	1.1	08/09/19 06:46	
Lead	mg/kg	ND	0.49	0.48	08/09/19 06:46	
Magnesium	mg/kg	ND	49.0	5.7	08/09/19 06:46	
Manganese	mg/kg	ND	0.98	0.098	08/09/19 06:46	
Molybdenum	mg/kg	ND	2.0	0.14	08/09/19 06:46	
Nickel	mg/kg	ND	2.0	0.24	08/09/19 06:46	
Potassium	mg/kg	ND	49.0	45.2	08/09/19 06:46	
Selenium	mg/kg	ND	0.78	0.57	08/09/19 06:46	
Silver	mg/kg	ND	0.59	0.095	08/09/19 06:46	
Sodium	mg/kg	ND	490	35.7	08/09/19 06:46	
Thallium	mg/kg	ND	2.0	0.60	08/09/19 06:46	
Vanadium	mg/kg	ND	0.98	0.080	08/09/19 06:46	
Zinc	mg/kg	ND	0.98	0.16	08/09/19 06:46	B

LABORATORY CONTROL SAMPLE: 1725589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	mg/kg	490	518	106	80-120	
Antimony	mg/kg	49	51.3	105	80-120	
Arsenic	mg/kg	49	48.7	99	80-120	
Barium	mg/kg	49	52.2	106	80-120	
Beryllium	mg/kg	49	52.5	107	80-120	
Boron	mg/kg	49	48.2	98	80-120	
Cadmium	mg/kg	49	51.1	104	80-120	
Calcium	mg/kg	490	532	109	80-120	
Chromium	mg/kg	49	53.0	108	80-120	
Cobalt	mg/kg	49	50.2	102	80-120	
Copper	mg/kg	49	51.9	106	80-120	
Iron	mg/kg	490	527	107	80-120	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

LABORATORY CONTROL SAMPLE: 1725589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49	52.4	107	80-120	
Magnesium	mg/kg	490	525	107	80-120	
Manganese	mg/kg	49	52.6	107	80-120	
Molybdenum	mg/kg	49	52.7	108	80-120	
Nickel	mg/kg	49	52.9	108	80-120	
Potassium	mg/kg	490	524	107	80-120	
Selenium	mg/kg	49	48.9	100	80-120	
Silver	mg/kg	24.5	25.8	105	80-120	
Sodium	mg/kg	490	485J	99	80-120	
Thallium	mg/kg	49	49.4	101	80-120	
Vanadium	mg/kg	49	53.1	108	80-120	
Zinc	mg/kg	49	52.5	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725590 1725591

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		30317464001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum	mg/kg	12200	591	591	14300	14100	352	314	75-125	2	20	MH
Antimony	mg/kg	ND	59.1	59.1	26.0	25.7	44	43	75-125	1	20	ML
Arsenic	mg/kg	4.8	59.1	59.1	55.7	56.0	86	86	75-125	1	20	
Barium	mg/kg	38.6	59.1	59.1	106	105	114	113	75-125	0	20	
Beryllium	mg/kg	0.52	59.1	59.1	56.9	56.7	95	95	75-125	0	20	
Boron	mg/kg	ND	59.1	59.1	55.3	56.3	88	90	75-125	2	20	
Cadmium	mg/kg	ND	59.1	59.1	54.7	54.9	92	93	75-125	0	20	
Calcium	mg/kg	909	591	591	1490	1520	98	103	75-125	2	20	
Chromium	mg/kg	11.3	59.1	59.1	68.4	68.5	97	97	75-125	0	20	
Cobalt	mg/kg	7.1	59.1	59.1	67.1	67.6	101	102	75-125	1	20	
Copper	mg/kg	15.7	59.1	59.1	69.7	69.7	91	91	75-125	0	20	
Iron	mg/kg	18900	591	591	19300	19300	70	58	75-125	0	20	ML
Lead	mg/kg	7.6	59.1	59.1	69.7	70.2	105	106	75-125	1	20	
Magnesium	mg/kg	3180	591	591	3990	4050	137	148	75-125	2	20	MH
Manganese	mg/kg	307	59.1	59.1	387	387	135	134	75-125	0	20	MH
Molybdenum	mg/kg	ND	59.1	59.1	63.6	64.8	107	109	75-125	2	20	
Nickel	mg/kg	14.0	59.1	59.1	68.9	69.0	93	93	75-125	0	20	
Potassium	mg/kg	1240	591	591	2310	2320	181	184	75-125	1	20	MH
Selenium	mg/kg	ND	59.1	59.1	51.0	51.6	86	87	75-125	1	20	
Silver	mg/kg	ND	29.6	29.6	27.9	28.2	94	95	75-125	1	20	
Sodium	mg/kg	ND	591	591	676	674	100	99	75-125	0	20	
Thallium	mg/kg	ND	59.1	59.1	57.6	57.5	97	97	75-125	0	20	
Vanadium	mg/kg	20.5	59.1	59.1	80.3	79.3	101	99	75-125	1	20	
Zinc	mg/kg	41.7	59.1	59.1	93.5	93.5	87	87	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355125 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010C MET
Associated Lab Samples: 30317705001, 30317705006

METHOD BLANK: 1725172 Matrix: Water
Associated Lab Samples: 30317705001, 30317705006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum	ug/L	ND	50.0	20.3	08/06/19 13:42	
Antimony	ug/L	ND	6.0	3.3	08/06/19 13:42	
Arsenic	ug/L	ND	5.0	2.0	08/06/19 13:42	
Barium	ug/L	ND	10.0	0.68	08/06/19 13:42	
Beryllium	ug/L	ND	1.0	0.17	08/06/19 13:42	
Boron	ug/L	ND	50.0	2.3	08/06/19 13:42	
Cadmium	ug/L	ND	3.0	0.34	08/06/19 13:42	
Calcium	ug/L	ND	1000	99.9	08/06/19 13:42	
Chromium	ug/L	ND	5.0	0.35	08/06/19 13:42	
Cobalt	ug/L	ND	5.0	0.53	08/06/19 13:42	
Copper	ug/L	ND	5.0	2.7	08/06/19 13:42	
Iron	ug/L	ND	70.0	40.9	08/06/19 13:42	
Lead	ug/L	ND	5.0	4.9	08/06/19 13:42	
Magnesium	ug/L	ND	200	28.4	08/06/19 13:42	
Manganese	ug/L	ND	5.0	1.2	08/06/19 13:42	
Molybdenum	ug/L	ND	20.0	0.85	08/06/19 13:42	
Nickel	ug/L	ND	10.0	1.5	08/06/19 13:42	
Potassium	ug/L	ND	500	72.4	08/06/19 13:42	
Selenium	ug/L	ND	8.0	5.5	08/06/19 13:42	
Silver	ug/L	ND	6.0	1.4	08/06/19 13:42	
Sodium	ug/L	ND	1000	423	08/06/19 13:42	
Thallium	ug/L	ND	10.0	4.0	08/06/19 13:42	
Vanadium	ug/L	ND	5.0	0.57	08/06/19 13:42	
Zinc	ug/L	ND	10.0	2.4	08/06/19 13:42	

LABORATORY CONTROL SAMPLE: 1725173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	4940	99	80-120	
Antimony	ug/L	500	486	97	80-120	
Arsenic	ug/L	500	441	88	80-120	
Barium	ug/L	500	468	94	80-120	
Beryllium	ug/L	500	470	94	80-120	
Boron	ug/L	500	480	96	80-120	
Cadmium	ug/L	500	462	92	80-120	
Calcium	ug/L	5000	5000	100	80-120	
Chromium	ug/L	500	461	92	80-120	
Cobalt	ug/L	500	448	90	80-120	
Copper	ug/L	500	467	93	80-120	
Iron	ug/L	5000	4980	100	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

LABORATORY CONTROL SAMPLE: 1725173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	471	94	80-120	
Magnesium	ug/L	5000	4890	98	80-120	
Manganese	ug/L	500	466	93	80-120	
Molybdenum	ug/L	500	484	97	80-120	
Nickel	ug/L	500	462	92	80-120	
Potassium	ug/L	5000	4810	96	80-120	
Selenium	ug/L	500	462	92	80-120	
Silver	ug/L	250	242	97	80-120	
Sodium	ug/L	5000	5040	101	80-120	
Thallium	ug/L	500	439	88	80-120	
Vanadium	ug/L	500	457	91	80-120	
Zinc	ug/L	500	469	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725175 1725176

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		30315931001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum	ug/L	ND	5000	5000	4960	5020	99	100	75-125	1	20	
Antimony	ug/L	ND	500	500	535	550	107	110	75-125	3	20	
Arsenic	ug/L	ND	500	500	505	518	101	104	75-125	3	20	
Barium	ug/L	14.9	500	500	506	502	98	98	75-125	1	20	
Beryllium	ug/L	ND	500	500	472	473	94	95	75-125	0	20	
Boron	ug/L	1020	500	500	1570	1600	109	114	75-125	2	20	
Cadmium	ug/L	509	500	500	1020	1040	103	107	75-125	2	20	
Calcium	ug/L	556000	5000	5000	509000	519000	-938	-726	75-125	2	20	ML
Chromium	ug/L	ND	500	500	450	467	90	93	75-125	4	20	
Cobalt	ug/L	ND	500	500	483	490	96	97	75-125	1	20	
Copper	ug/L	ND	500	500	494	490	98	97	75-125	1	20	
Iron	ug/L	ND	5000	5000	4670	4760	93	95	75-125	2	20	
Lead	ug/L	9.6	500	500	503	510	99	100	75-125	1	20	
Magnesium	ug/L	200000	5000	5000	185000	190000	-300	-192	75-125	3	20	ML
Manganese	ug/L	2180	500	500	2470	2500	59	65	75-125	1	20	ML
Molybdenum	ug/L	ND	500	500	523	535	105	107	75-125	2	20	
Nickel	ug/L	ND	500	500	478	483	94	95	75-125	1	20	
Potassium	ug/L	39300	5000	5000	42300	42600	59	66	75-125	1	20	ML
Selenium	ug/L	ND	500	500	559	557	112	111	75-125	0	20	
Silver	ug/L	ND	250	250	259	268	104	107	75-125	3	20	
Sodium	ug/L	267000	5000	5000	255000	258000	-244	-190	75-125	1	20	ML
Thallium	ug/L	ND	500	500	464	470	93	94	75-125	1	20	
Vanadium	ug/L	ND	500	500	473	488	94	97	75-125	3	20	
Zinc	ug/L	192000	500	500	184000	182000	-1580	-2000	75-125	1	20	ML

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QUALITY CONTROL DATA

Project: GW & SB

Pace Project No.: 30317705

SAMPLE DUPLICATE: 1725174

Parameter	Units	30315931001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	ND	ND		20	
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	ND		20	
Barium	ug/L	14.9	14.4	4	20	
Beryllium	ug/L	ND	ND		20	
Boron	ug/L	1020	1060	3	20	
Cadmium	ug/L	509	521	2	20	
Calcium	ug/L	556000	549000	1	20	
Chromium	ug/L	ND	.45J		20	
Cobalt	ug/L	ND	4.7J		20	
Copper	ug/L	ND	ND		20	
Iron	ug/L	ND	ND		20	
Lead	ug/L	9.6	10.8	11	20	
Magnesium	ug/L	200000	197000	2	20	
Manganese	ug/L	2180	2160	1	20	
Molybdenum	ug/L	ND	ND		20	
Nickel	ug/L	ND	8.3J		20	
Potassium	ug/L	39300	39000	1	20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Sodium	ug/L	267000	265000	1	20	
Thallium	ug/L	ND	ND		20	
Vanadium	ug/L	ND	1.6J		20	
Zinc	ug/L	192000	190000	1	20	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355170 Analysis Method: EPA 6010C
QC Batch Method: EPA 3005A Analysis Description: 6010C MET Dissolved
Associated Lab Samples: 30317705001, 30317705006

METHOD BLANK: 1725282 Matrix: Water
Associated Lab Samples: 30317705001, 30317705006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	20.3	08/07/19 08:51	
Antimony, Dissolved	ug/L	ND	6.0	3.3	08/07/19 08:51	
Arsenic, Dissolved	ug/L	ND	5.0	2.0	08/07/19 08:51	
Barium, Dissolved	ug/L	ND	10.0	0.68	08/07/19 08:51	
Beryllium, Dissolved	ug/L	ND	1.0	0.17	08/07/19 08:51	
Boron, Dissolved	ug/L	ND	50.0	2.3	08/07/19 08:51	
Cadmium, Dissolved	ug/L	ND	3.0	0.34	08/07/19 08:51	
Calcium, Dissolved	ug/L	ND	1000	99.9	08/07/19 08:51	
Chromium, Dissolved	ug/L	ND	5.0	0.35	08/07/19 08:51	
Cobalt, Dissolved	ug/L	ND	5.0	0.53	08/07/19 08:51	
Copper, Dissolved	ug/L	ND	5.0	2.7	08/07/19 08:51	
Iron, Dissolved	ug/L	ND	70.0	40.9	08/07/19 08:51	
Lead, Dissolved	ug/L	ND	5.0	4.9	08/07/19 08:51	
Magnesium, Dissolved	ug/L	ND	200	28.4	08/07/19 08:51	
Manganese, Dissolved	ug/L	ND	5.0	1.2	08/07/19 08:51	
Molybdenum, Dissolved	ug/L	ND	20.0	0.85	08/07/19 08:51	
Nickel, Dissolved	ug/L	ND	10.0	1.5	08/07/19 08:51	
Potassium, Dissolved	ug/L	ND	500	72.4	08/07/19 08:51	
Selenium, Dissolved	ug/L	ND	8.0	5.5	08/07/19 08:51	
Silver, Dissolved	ug/L	ND	6.0	1.4	08/07/19 08:51	
Sodium, Dissolved	ug/L	ND	1000	423	08/07/19 08:51	
Thallium, Dissolved	ug/L	ND	10.0	4.0	08/07/19 08:51	
Vanadium, Dissolved	ug/L	ND	5.0	0.57	08/07/19 08:51	
Zinc, Dissolved	ug/L	ND	10.0	2.4	08/07/19 08:51	

LABORATORY CONTROL SAMPLE: 1725283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	5000	5080	102	80-120	
Antimony, Dissolved	ug/L	500	480	96	80-120	
Arsenic, Dissolved	ug/L	500	470	94	80-120	
Barium, Dissolved	ug/L	500	501	100	80-120	
Beryllium, Dissolved	ug/L	500	498	100	80-120	
Boron, Dissolved	ug/L	500	474	95	80-120	
Cadmium, Dissolved	ug/L	500	491	98	80-120	
Calcium, Dissolved	ug/L	5000	5110	102	80-120	
Chromium, Dissolved	ug/L	500	494	99	80-120	
Cobalt, Dissolved	ug/L	500	479	96	80-120	
Copper, Dissolved	ug/L	500	495	99	80-120	
Iron, Dissolved	ug/L	5000	5110	102	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

LABORATORY CONTROL SAMPLE: 1725283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	496	99	80-120	
Magnesium, Dissolved	ug/L	5000	5040	101	80-120	
Manganese, Dissolved	ug/L	500	497	99	80-120	
Molybdenum, Dissolved	ug/L	500	485	97	80-120	
Nickel, Dissolved	ug/L	500	486	97	80-120	
Potassium, Dissolved	ug/L	5000	4990	100	80-120	
Selenium, Dissolved	ug/L	500	488	98	80-120	
Silver, Dissolved	ug/L	250	243	97	80-120	
Sodium, Dissolved	ug/L	5000	5080	102	80-120	
Thallium, Dissolved	ug/L	500	463	93	80-120	
Vanadium, Dissolved	ug/L	500	484	97	80-120	
Zinc, Dissolved	ug/L	500	497	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725285 1725286

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		30317042002 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Aluminum, Dissolved	ug/L	90.4	5000	5000	5440	4990	107	98	75-125	9	20	
Antimony, Dissolved	ug/L	ND	500	500	499	475	100	95	75-125	5	20	
Arsenic, Dissolved	ug/L	ND	500	500	513	467	102	93	75-125	9	20	
Barium, Dissolved	ug/L	73.5	500	500	601	549	105	95	75-125	9	20	
Beryllium, Dissolved	ug/L	ND	500	500	535	486	107	97	75-125	9	20	
Boron, Dissolved	ug/L	65.8	500	500	559	532	99	93	75-125	5	20	
Cadmium, Dissolved	ug/L	ND	500	500	530	483	106	96	75-125	9	20	
Calcium, Dissolved	ug/L	75000	5000	5000	76800	71000	36	-80	75-125	8	20	ML
Chromium, Dissolved	ug/L	ND	500	500	523	474	104	95	75-125	10	20	
Cobalt, Dissolved	ug/L	ND	500	500	512	464	102	93	75-125	10	20	
Copper, Dissolved	ug/L	ND	500	500	527	481	105	96	75-125	9	20	
Iron, Dissolved	ug/L	ND	5000	5000	5370	4930	107	98	75-125	9	20	
Lead, Dissolved	ug/L	ND	500	500	530	479	106	96	75-125	10	20	
Magnesium, Dissolved	ug/L	18400	5000	5000	22800	21100	89	54	75-125	8	20	ML
Manganese, Dissolved	ug/L	10.6	500	500	531	482	104	94	75-125	10	20	
Molybdenum, Dissolved	ug/L	ND	500	500	511	485	102	97	75-125	5	20	
Nickel, Dissolved	ug/L	ND	500	500	513	464	102	93	75-125	10	20	
Potassium, Dissolved	ug/L	3060	5000	5000	8270	7580	104	90	75-125	9	20	
Selenium, Dissolved	ug/L	ND	500	500	527	479	105	96	75-125	10	20	
Silver, Dissolved	ug/L	ND	250	250	250	238	100	95	75-125	5	20	
Sodium, Dissolved	ug/L	20300	5000	5000	24900	22800	92	50	75-125	9	20	ML
Thallium, Dissolved	ug/L	ND	500	500	504	457	101	91	75-125	10	20	
Vanadium, Dissolved	ug/L	ND	500	500	519	472	104	94	75-125	9	20	
Zinc, Dissolved	ug/L	ND	500	500	524	474	104	94	75-125	10	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB

Pace Project No.: 30317705

SAMPLE DUPLICATE: 1725284

Parameter	Units	30317042002 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	90.4	87.5	3	20	
Antimony, Dissolved	ug/L	ND	ND		20	
Arsenic, Dissolved	ug/L	ND	ND		20	
Barium, Dissolved	ug/L	73.5	70.4	4	20	
Beryllium, Dissolved	ug/L	ND	ND		20	
Boron, Dissolved	ug/L	65.8	64.4	2	20	
Cadmium, Dissolved	ug/L	ND	ND		20	
Calcium, Dissolved	ug/L	75000	72000	4	20	
Chromium, Dissolved	ug/L	ND	ND		20	
Cobalt, Dissolved	ug/L	ND	ND		20	
Copper, Dissolved	ug/L	ND	ND		20	
Iron, Dissolved	ug/L	ND	ND		20	
Lead, Dissolved	ug/L	ND	ND		20	
Magnesium, Dissolved	ug/L	18400	17800	3	20	
Manganese, Dissolved	ug/L	10.6	ND		20	
Molybdenum, Dissolved	ug/L	ND	ND		20	
Nickel, Dissolved	ug/L	ND	ND		20	
Potassium, Dissolved	ug/L	3060	2910	5	20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	ND		20	
Sodium, Dissolved	ug/L	20300	19400	4	20	
Thallium, Dissolved	ug/L	ND	ND		20	
Vanadium, Dissolved	ug/L	ND	ND		20	
Zinc, Dissolved	ug/L	ND	5.9J		20	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 356010 Analysis Method: EPA 8260C
QC Batch Method: EPA 5035A Analysis Description: 8260C MSV 5035 Low
Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

METHOD BLANK: 1729159 Matrix: Solid
Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	1.5	08/09/19 12:01	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	0.59	08/09/19 12:01	
1,1,2-Trichloroethane	ug/kg	ND	5.0	0.99	08/09/19 12:01	
1,1-Dichloroethane	ug/kg	ND	5.0	1.3	08/09/19 12:01	
1,1-Dichloroethene	ug/kg	ND	5.0	1.9	08/09/19 12:01	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	1.3	08/09/19 12:01	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	2.4	08/09/19 12:01	
1,2-Dichlorobenzene	ug/kg	ND	5.0	0.59	08/09/19 12:01	
1,2-Dichloroethane	ug/kg	ND	5.0	1.3	08/09/19 12:01	
1,2-Dichloroethene (Total)	ug/kg	ND	10.0	2.4	08/09/19 12:01	
1,2-Dichloropropane	ug/kg	ND	5.0	0.72	08/09/19 12:01	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	2.0	08/09/19 12:01	
1,3-Dichlorobenzene	ug/kg	ND	5.0	0.65	08/09/19 12:01	
1,4-Dichlorobenzene	ug/kg	ND	5.0	0.71	08/09/19 12:01	
2-Butanone (MEK)	ug/kg	ND	10.0	0.91	08/09/19 12:01	
2-Hexanone	ug/kg	ND	10.0	0.98	08/09/19 12:01	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.0	1.1	08/09/19 12:01	
Acetone	ug/kg	ND	10.0	3.2	08/09/19 12:01	3c
Benzene	ug/kg	ND	5.0	0.87	08/09/19 12:01	
Bromochloromethane	ug/kg	ND	5.0	1.1	08/09/19 12:01	
Bromodichloromethane	ug/kg	ND	5.0	1.1	08/09/19 12:01	
Bromoform	ug/kg	ND	5.0	0.66	08/09/19 12:01	
Bromomethane	ug/kg	ND	5.0	1.9	08/09/19 12:01	3c
Carbon disulfide	ug/kg	ND	5.0	1.4	08/09/19 12:01	
Carbon tetrachloride	ug/kg	ND	5.0	1.7	08/09/19 12:01	
Chlorobenzene	ug/kg	ND	5.0	0.78	08/09/19 12:01	
Chloroethane	ug/kg	ND	5.0	2.1	08/09/19 12:01	CH
Chloroform	ug/kg	ND	5.0	1.5	08/09/19 12:01	
Chloromethane	ug/kg	ND	5.0	1.7	08/09/19 12:01	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	1.2	08/09/19 12:01	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	0.50	08/09/19 12:01	
Dibromochloromethane	ug/kg	ND	5.0	0.79	08/09/19 12:01	
Ethylbenzene	ug/kg	ND	5.0	1.1	08/09/19 12:01	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	1.2	08/09/19 12:01	
m&p-Xylene	ug/kg	ND	10.0	2.1	08/09/19 12:01	
Methyl-tert-butyl ether	ug/kg	ND	5.0	0.67	08/09/19 12:01	
Methylene Chloride	ug/kg	ND	5.0	4.2	08/09/19 12:01	
Naphthalene	ug/kg	ND	5.0	0.94	08/09/19 12:01	
o-Xylene	ug/kg	ND	5.0	1.1	08/09/19 12:01	
Styrene	ug/kg	ND	5.0	1.4	08/09/19 12:01	
Tetrachloroethene	ug/kg	ND	5.0	1.7	08/09/19 12:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

METHOD BLANK: 1729159

Matrix: Solid

Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/kg	ND	5.0	0.99	08/09/19 12:01	
TOTAL BTEX	ug/kg	ND	30.0	6.1	08/09/19 12:01	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	1.3	08/09/19 12:01	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	1.0	08/09/19 12:01	
Trichloroethene	ug/kg	ND	5.0	1.5	08/09/19 12:01	
Vinyl chloride	ug/kg	ND	5.0	2.2	08/09/19 12:01	
Xylene (Total)	ug/kg	ND	15.0	3.2	08/09/19 12:01	
1,2-Dichloroethane-d4 (S)	%	119	70-130		08/09/19 12:01	
4-Bromofluorobenzene (S)	%	101	70-130		08/09/19 12:01	
Dibromofluoromethane (S)	%	105	70-130		08/09/19 12:01	
Toluene-d8 (S)	%	98	70-130		08/09/19 12:01	

LABORATORY CONTROL SAMPLE: 1729160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	15.2	76	62-113	
1,1,2,2-Tetrachloroethane	ug/kg	20	13.3	66	70-130	L2
1,1,2-Trichloroethane	ug/kg	20	14.2	71	70-130	
1,1-Dichloroethane	ug/kg	20	14.1	70	63-110	
1,1-Dichloroethene	ug/kg	20	13.2	66	45-124	
1,2,4-Trichlorobenzene	ug/kg	20	15.2	76	70-130	
1,2,4-Trimethylbenzene	ug/kg	20	15.4	77	70-130	
1,2-Dichlorobenzene	ug/kg	20	15.1	76	70-130	
1,2-Dichloroethane	ug/kg	20	15.9	79	57-110	
1,2-Dichloroethene (Total)	ug/kg	40	28.3	71	62-108	
1,2-Dichloropropane	ug/kg	20	13.9	69	62-111	
1,3,5-Trimethylbenzene	ug/kg	20	15.0	75	70-130	
1,3-Dichlorobenzene	ug/kg	20	15.0	75	70-130	
1,4-Dichlorobenzene	ug/kg	20	15.2	76	70-130	
2-Butanone (MEK)	ug/kg	20	13.5	67	46-117	
2-Hexanone	ug/kg	20	14.2	71	58-115	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	14.0	70	40-136	
Acetone	ug/kg	20	21.0	105	36-163	3c
Benzene	ug/kg	20	14.6	73	63-110	
Bromochloromethane	ug/kg	20	14.8	74	67-114	
Bromodichloromethane	ug/kg	20	15.8	79	68-119	
Bromoform	ug/kg	20	13.1	65	63-107	
Bromomethane	ug/kg	20	18.8	94	12-166	3c
Carbon disulfide	ug/kg	20	12.0	60	52-106	
Carbon tetrachloride	ug/kg	20	14.2	71	59-114	
Chlorobenzene	ug/kg	20	15.0	75	70-130	
Chloroethane	ug/kg	20	21.7	108	56-160	CH
Chloroform	ug/kg	20	14.9	74	65-108	
Chloromethane	ug/kg	20	15.9	80	33-148	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

LABORATORY CONTROL SAMPLE: 1729160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/kg	20	14.5	72	61-107	
cis-1,3-Dichloropropene	ug/kg	20	14.5	73	62-106	
Dibromochloromethane	ug/kg	20	14.5	72	67-108	
Ethylbenzene	ug/kg	20	14.9	74	68-109	
Isopropylbenzene (Cumene)	ug/kg	20	15.1	76	70-130	
m&p-Xylene	ug/kg	40	29.1	73	70-130	
Methyl-tert-butyl ether	ug/kg	20	14.1	70	62-101	
Methylene Chloride	ug/kg	20	10.0	50	42-135	
Naphthalene	ug/kg	20	15.8	79	70-130	
o-Xylene	ug/kg	20	14.4	72	70-130	
Styrene	ug/kg	20	14.7	73	70-130	
Tetrachloroethene	ug/kg	20	14.7	73	64-114	
Toluene	ug/kg	20	14.7	73	68-108	
TOTAL BTEX	ug/kg	120	87.7	73	70-130	
trans-1,2-Dichloroethene	ug/kg	20	13.8	69	61-108	
trans-1,3-Dichloropropene	ug/kg	20	14.9	74	64-102	
Trichloroethene	ug/kg	20	14.7	73	61-112	
Vinyl chloride	ug/kg	20	15.0	75	54-142	
Xylene (Total)	ug/kg	60	43.5	73	70-130	
1,2-Dichloroethane-d4 (S)	%			117	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355494 Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C Analysis Description: 8260C MSV
Associated Lab Samples: 30317705001, 30317705006, 30317705008

METHOD BLANK: 1726716 Matrix: Water
Associated Lab Samples: 30317705001, 30317705006, 30317705008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.38	08/07/19 10:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.47	08/07/19 10:01	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.33	08/07/19 10:01	
1,1-Dichloroethane	ug/L	ND	1.0	0.24	08/07/19 10:01	
1,1-Dichloroethene	ug/L	ND	1.0	0.24	08/07/19 10:01	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.73	08/07/19 10:01	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.63	08/07/19 10:01	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.38	08/07/19 10:01	
1,2-Dichloroethane	ug/L	ND	1.0	0.33	08/07/19 10:01	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	0.66	08/07/19 10:01	
1,2-Dichloropropane	ug/L	ND	1.0	0.28	08/07/19 10:01	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.45	08/07/19 10:01	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.45	08/07/19 10:01	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.48	08/07/19 10:01	
2-Butanone (MEK)	ug/L	ND	10.0	1.5	08/07/19 10:01	
2-Hexanone	ug/L	ND	10.0	0.58	08/07/19 10:01	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	08/07/19 10:01	
Acetone	ug/L	ND	10.0	5.6	08/07/19 10:01	
Benzene	ug/L	ND	1.0	0.34	08/07/19 10:01	
Bromochloromethane	ug/L	ND	1.0	0.48	08/07/19 10:01	
Bromodichloromethane	ug/L	ND	1.0	0.35	08/07/19 10:01	
Bromoform	ug/L	ND	1.0	0.56	08/07/19 10:01	
Bromomethane	ug/L	ND	1.0	0.73	08/07/19 10:01	7c,CL
Carbon disulfide	ug/L	ND	1.0	0.32	08/07/19 10:01	
Carbon tetrachloride	ug/L	ND	1.0	0.44	08/07/19 10:01	
Chlorobenzene	ug/L	ND	1.0	0.26	08/07/19 10:01	
Chloroethane	ug/L	ND	1.0	0.64	08/07/19 10:01	
Chloroform	ug/L	ND	1.0	0.39	08/07/19 10:01	
Chloromethane	ug/L	ND	1.0	0.40	08/07/19 10:01	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.38	08/07/19 10:01	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.29	08/07/19 10:01	
Dibromochloromethane	ug/L	ND	1.0	0.43	08/07/19 10:01	
Ethylbenzene	ug/L	ND	1.0	0.40	08/07/19 10:01	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	0.47	08/07/19 10:01	
m&p-Xylene	ug/L	ND	2.0	0.94	08/07/19 10:01	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.25	08/07/19 10:01	
Methylene Chloride	ug/L	ND	1.0	0.64	08/07/19 10:01	
Naphthalene	ug/L	ND	2.0	0.82	08/07/19 10:01	
o-Xylene	ug/L	ND	1.0	0.41	08/07/19 10:01	
Styrene	ug/L	ND	1.0	0.33	08/07/19 10:01	
Tetrachloroethene	ug/L	ND	1.0	0.39	08/07/19 10:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

METHOD BLANK: 1726716 Matrix: Water
Associated Lab Samples: 30317705001, 30317705006, 30317705008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	0.32	08/07/19 10:01	
TOTAL BTEX	ug/L	ND	6.0	2.4	08/07/19 10:01	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.28	08/07/19 10:01	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.32	08/07/19 10:01	
Trichloroethene	ug/L	ND	1.0	0.29	08/07/19 10:01	
Vinyl chloride	ug/L	ND	1.0	0.29	08/07/19 10:01	
Xylene (Total)	ug/L	ND	3.0	1.4	08/07/19 10:01	
1,2-Dichloroethane-d4 (S)	%	109	80-120		08/07/19 10:01	
4-Bromofluorobenzene (S)	%	103	78-122		08/07/19 10:01	
Dibromofluoromethane (S)	%	110	80-120		08/07/19 10:01	
Toluene-d8 (S)	%	97	80-120		08/07/19 10:01	

LABORATORY CONTROL SAMPLE: 1726717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.0	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	22.7	113	70-130	
1,1,2-Trichloroethane	ug/L	20	20.3	102	70-130	
1,1-Dichloroethane	ug/L	20	18.8	94	68-121	
1,1-Dichloroethene	ug/L	20	17.4	87	63-129	
1,2,4-Trichlorobenzene	ug/L	20	21.0	105	70-130	
1,2,4-Trimethylbenzene	ug/L	20	22.2	111	70-130	
1,2-Dichlorobenzene	ug/L	20	22.4	112	70-130	
1,2-Dichloroethane	ug/L	20	18.8	94	67-117	
1,2-Dichloroethene (Total)	ug/L	40	37.3	93	65-119	
1,2-Dichloropropane	ug/L	20	20.3	101	69-121	
1,3,5-Trimethylbenzene	ug/L	20	21.9	109	70-130	
1,3-Dichlorobenzene	ug/L	20	21.8	109	70-130	
1,4-Dichlorobenzene	ug/L	20	22.4	112	70-130	
2-Butanone (MEK)	ug/L	20	18.2	91	59-128	
2-Hexanone	ug/L	20	18.9	95	49-145	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.5	103	63-126	
Acetone	ug/L	20	14.8	74	37-150	
Benzene	ug/L	20	19.9	99	70-130	
Bromochloromethane	ug/L	20	19.7	98	59-137	
Bromodichloromethane	ug/L	20	18.7	94	70-130	
Bromoform	ug/L	20	17.0	85	65-130	
Bromomethane	ug/L	20	14.2	71	45-148	7c,CL
Carbon disulfide	ug/L	20	18.0	90	55-123	
Carbon tetrachloride	ug/L	20	18.3	92	69-126	
Chlorobenzene	ug/L	20	20.2	101	70-130	
Chloroethane	ug/L	20	22.8	114	68-146	
Chloroform	ug/L	20	18.5	93	69-116	
Chloromethane	ug/L	20	22.8	114	56-129	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

LABORATORY CONTROL SAMPLE: 1726717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	20	18.4	92	66-118	
cis-1,3-Dichloropropene	ug/L	20	18.8	94	70-130	
Dibromochloromethane	ug/L	20	18.5	92	70-130	
Ethylbenzene	ug/L	20	21.3	106	70-130	
Isopropylbenzene (Cumene)	ug/L	20	23.6	118	70-130	
m&p-Xylene	ug/L	40	41.8	105	70-130	
Methyl-tert-butyl ether	ug/L	20	18.0	90	70-130	
Methylene Chloride	ug/L	20	20.4	102	65-124	
Naphthalene	ug/L	20	22.6	113	69-135	
o-Xylene	ug/L	20	20.8	104	70-130	
Styrene	ug/L	20	20.3	102	70-130	
Tetrachloroethene	ug/L	20	19.7	98	70-130	
Toluene	ug/L	20	21.0	105	70-130	
TOTAL BTEX	ug/L	120	125	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	64-123	
trans-1,3-Dichloropropene	ug/L	20	18.4	92	68-119	
Trichloroethene	ug/L	20	19.3	96	70-130	
Vinyl chloride	ug/L	20	22.8	114	70-130	
Xylene (Total)	ug/L	60	62.6	104	70-130	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			101	78-122	
Dibromofluoromethane (S)	%			99	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1727064 1727065

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30317705006 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	ND	20	20	20	19.5	18.6	97	93	67-127	5	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20	19.7	20.3	99	101	55-118	3	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20	19.3	18.8	96	94	60-117	3	30	
1,1,2-Dichloroethane	ug/L	ND	20	20	20	18.3	18.2	92	91	68-118	1	30	
1,1-Dichloroethene	ug/L	ND	20	20	20	18.6	18.0	93	90	62-126	3	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20	16.5	17.8	83	89	60-128	7	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20	20.8	21.1	104	105	70-130	1	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	20	20.0	20.8	100	104	66-116	4	30	
1,2-Dichloroethane	ug/L	ND	20	20	20	19.6	18.6	98	93	67-117	5	30	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	40	38.7	37.6	97	94	70-130	3	30	
1,2-Dichloropropane	ug/L	ND	20	20	20	19.5	18.7	98	94	61-128	4	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20	20.8	20.8	104	104	70-130	0	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	20	20.0	20.5	100	103	67-117	3	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	20	19.7	20.2	98	101	68-116	3	30	
2-Butanone (MEK)	ug/L	ND	20	20	20	22.9	23.9	94	99	63-175	4	30	
2-Hexanone	ug/L	ND	20	20	20	17.4	17.7	87	88	65-151	1	30	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

Parameter	Units	1727064		1727065		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		30317705006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	18.9	18.1	95	90	66-149	5	30	
Acetone	ug/L	21.1	20	20	38.4	31.1	87	50	10-175	21	30	
Benzene	ug/L	ND	20	20	21.3	20.2	106	101	67-119	5	30	
Bromochloromethane	ug/L	ND	20	20	21.0	20.3	105	102	64-124	3	30	
Bromodichloromethane	ug/L	ND	20	20	18.2	17.3	91	86	67-126	5	30	
Bromoform	ug/L	ND	20	20	13.9	14.7	69	73	43-114	6	30	
Bromomethane	ug/L	ND	20	20	14.0	12.1	70	60	10-164	15	30	7c, CL
Carbon disulfide	ug/L	ND	20	20	17.2	17.0	84	83	37-135	1	30	
Carbon tetrachloride	ug/L	ND	20	20	18.6	19.4	93	97	60-137	4	30	
Chlorobenzene	ug/L	ND	20	20	19.3	18.9	96	95	68-119	2	30	
Chloroethane	ug/L	ND	20	20	26.7	20.8	134	104	54-169	25	30	
Chloroform	ug/L	ND	20	20	19.3	18.5	97	93	69-113	4	30	
Chloromethane	ug/L	ND	20	20	25.4	24.6	127	123	43-159	3	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.1	19.3	96	97	65-121	1	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.7	17.0	89	85	61-120	4	30	
Dibromochloromethane	ug/L	ND	20	20	16.7	16.7	84	84	56-121	0	30	
Ethylbenzene	ug/L	ND	20	20	20.3	19.7	101	99	69-127	3	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.4	21.2	107	106	70-130	1	30	
m&p-Xylene	ug/L	ND	40	40	41.3	39.1	103	98	70-129	6	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.0	17.2	90	86	70-130	4	30	
Methylene Chloride	ug/L	3.4	20	20	25.4	23.5	110	100	49-144	8	30	
Naphthalene	ug/L	ND	20	20	17.8	19.6	89	98	60-136	10	30	
o-Xylene	ug/L	ND	20	20	20.3	18.9	101	94	68-126	7	30	
Styrene	ug/L	ND	20	20	19.1	18.2	96	91	65-120	5	30	
Tetrachloroethene	ug/L	ND	20	20	18.7	18.8	94	94	64-123	0	30	
Toluene	ug/L	ND	20	20	20.0	19.8	97	96	70-130	1	30	
TOTAL BTEX	ug/L	ND	120	120	123	118	103	98	70-130	5	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.5	18.3	98	91	66-119	7	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.3	16.8	82	84	52-117	3	30	
Trichloroethene	ug/L	ND	20	20	19.8	19.0	99	95	63-125	4	30	
Vinyl chloride	ug/L	ND	20	20	25.1	23.5	125	117	60-133	6	30	
Xylene (Total)	ug/L	ND	60	60	61.6	58.0	103	97	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%						100	100	80-120			
4-Bromofluorobenzene (S)	%						98	100	78-122			
Dibromofluoromethane (S)	%						102	103	80-120			
Toluene-d8 (S)	%						93	95	80-120			

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355132 Analysis Method: EPA 8081B
QC Batch Method: EPA 3546 Analysis Description: 8081 GCS Pesticides
Associated Lab Samples: 30317705002, 30317705004, 30317705005

METHOD BLANK: 1725189 Matrix: Solid
Associated Lab Samples: 30317705002, 30317705004, 30317705005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	ug/kg	ND	3.3	1.1	08/07/19 15:26	
4,4'-DDE	ug/kg	ND	3.3	0.59	08/07/19 15:26	
4,4'-DDT	ug/kg	ND	3.3	0.88	08/07/19 15:26	
Aldrin	ug/kg	ND	1.7	0.30	08/07/19 15:26	
alpha-BHC	ug/kg	ND	1.7	0.33	08/07/19 15:26	
alpha-Chlordane	ug/kg	ND	1.7	0.18	08/07/19 15:26	
beta-BHC	ug/kg	ND	1.7	1.2	08/07/19 15:26	
delta-BHC	ug/kg	ND	1.7	1.6	08/07/19 15:26	
Dieldrin	ug/kg	ND	3.3	0.35	08/07/19 15:26	
Endosulfan I	ug/kg	ND	1.7	0.21	08/07/19 15:26	
Endosulfan II	ug/kg	ND	3.3	0.48	08/07/19 15:26	
Endosulfan sulfate	ug/kg	ND	3.3	0.30	08/07/19 15:26	
Endrin	ug/kg	ND	3.3	0.53	08/07/19 15:26	
Endrin aldehyde	ug/kg	ND	3.3	0.79	08/07/19 15:26	
Endrin ketone	ug/kg	ND	3.3	0.31	08/07/19 15:26	
gamma-BHC (Lindane)	ug/kg	ND	1.7	0.44	08/07/19 15:26	
gamma-Chlordane	ug/kg	ND	1.7	0.43	08/07/19 15:26	
Heptachlor	ug/kg	ND	1.7	0.20	08/07/19 15:26	
Heptachlor epoxide	ug/kg	ND	1.7	0.47	08/07/19 15:26	
Methoxychlor	ug/kg	ND	16.7	1.6	08/07/19 15:26	
Toxaphene	ug/kg	ND	16.7	5.5	08/07/19 15:26	
Decachlorobiphenyl (S)	%	97	50-96		08/07/19 15:26	ST
Tetrachloro-m-xylene (S)	%	83	51-88		08/07/19 15:26	

LABORATORY CONTROL SAMPLE: 1725190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/kg	26.4	19.0	72	57-112	
4,4'-DDE	ug/kg	26.4	25.0	95	68-105	
4,4'-DDT	ug/kg	26.4	23.7	90	63-109	
Aldrin	ug/kg	13.2	11.3	85	59-100	
alpha-BHC	ug/kg	13.2	11.6	88	61-98	
alpha-Chlordane	ug/kg	13.2	12.5	94	63-102	
beta-BHC	ug/kg	13.2	12.0	91	58-102	
delta-BHC	ug/kg	13.2	12.3	93	53-116	
Dieldrin	ug/kg	26.4	23.6	89	63-107	
Endosulfan I	ug/kg	13.2	10.7	81	57-100	
Endosulfan II	ug/kg	26.4	21.6	82	63-103	
Endosulfan sulfate	ug/kg	26.4	25.7	97	59-113	
Endrin	ug/kg	26.4	24.2	91	60-107	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

LABORATORY CONTROL SAMPLE: 1725190

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin aldehyde	ug/kg	26.4	24.0	91	51-115	
Endrin ketone	ug/kg	26.4	29.2	110	59-119	
gamma-BHC (Lindane)	ug/kg	13.2	11.8	89	61-100	
gamma-Chlordane	ug/kg	13.2	11.9	90	62-101	
Heptachlor	ug/kg	13.2	11.1	84	63-99	
Heptachlor epoxide	ug/kg	13.2	11.5	87	62-99	
Methoxychlor	ug/kg	132	125	95	56-114	
Decachlorobiphenyl (S)	%			95	50-96	
Tetrachloro-m-xylene (S)	%			82	51-88	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725191 1725192

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30316017002 Result	Spike Conc.	Spike Conc.	MS Result						
4,4'-DDD	ug/kg	36.6 U	29	28.9	29.9J	30J	103	104	38-111		25
4,4'-DDE	ug/kg	36.6 U	29	28.9	37.9	38.2	120	121	24-129	1	25
4,4'-DDT	ug/kg	36.6 U	29	28.9	20.2J	19.5J	70	68	13-138		25
Aldrin	ug/kg	18.3 U	14.5	14.4	17J	17.3J	104	107	23-121		25
alpha-BHC	ug/kg	18.3 U	14.5	14.4	4.8J	4.1J	33	29	41-105		25 M6
alpha-Chlordane	ug/kg	6.7J	14.5	14.4	23.5	20.8	116	97	26-117	12	25
beta-BHC	ug/kg	18.3 U	14.5	14.4	16.8J	17J	111	113	21-112		25 M6
delta-BHC	ug/kg	18.3 U	14.5	14.4	ND	ND	0	0	21-131		25 M6
Dieldrin	ug/kg	36.6 U	29	28.9	31.9J	30.7J	100	96	40-108		25
Endosulfan I	ug/kg	18.3 U	14.5	14.4	7.4J	6.9J	51	48	12-122		25
Endosulfan II	ug/kg	36.6 U	29	28.9	12.9J	13J	45	45	36-109		25
Endosulfan sulfate	ug/kg	36.6 U	29	28.9	22J	21.5J	76	75	33-118		25
Endrin	ug/kg	36.6 U	29	28.9	33.1J	34.5J	104	109	47-103		25 M6
Endrin aldehyde	ug/kg	36.6 U	29	28.9	21.2J	20.6J	71	70	10-149		25
Endrin ketone	ug/kg	8.5J	29	28.9	32.3J	33.6J	82	87	10-158		25
gamma-BHC (Lindane)	ug/kg	18.3 U	14.5	14.4	5J	ND	12	7	43-104		25 M6
gamma-Chlordane	ug/kg	10.2J	14.5	14.4	28.7	26.6	128	113	10-132	8	25
Heptachlor	ug/kg	4.8J	14.5	14.4	19.9	19.7	105	103	29-118	1	25
Heptachlor epoxide	ug/kg	18.3 U	14.5	14.4	18.1J	16.9J	118	111	12-131		25
Methoxychlor	ug/kg	183 U	145	144	136J	137J	92	94	10-140		25
Decachlorobiphenyl (S)	%						112	111	50-96		S4
Tetrachloro-m-xylene (S)	%						101	103	51-88		S4

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355393 Analysis Method: EPA 8081B
QC Batch Method: EPA 3510C Analysis Description: 8081A GCS Pesticides
Associated Lab Samples: 30317705001, 30317705006

METHOD BLANK: 1726094 Matrix: Water
Associated Lab Samples: 30317705001, 30317705006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	ug/L	ND	0.050	0.0037	08/12/19 16:29	
4,4'-DDE	ug/L	ND	0.050	0.0033	08/12/19 16:29	
4,4'-DDT	ug/L	ND	0.050	0.0028	08/12/19 16:29	
Aldrin	ug/L	ND	0.025	0.0022	08/12/19 16:29	
alpha-BHC	ug/L	ND	0.025	0.0033	08/12/19 16:29	
alpha-Chlordane	ug/L	ND	0.025	0.0017	08/12/19 16:29	
beta-BHC	ug/L	ND	0.025	0.0083	08/12/19 16:29	
delta-BHC	ug/L	ND	0.025	0.0066	08/12/19 16:29	
Dieldrin	ug/L	ND	0.050	0.0018	08/12/19 16:29	
Endosulfan I	ug/L	ND	0.025	0.0015	08/12/19 16:29	
Endosulfan II	ug/L	ND	0.050	0.0021	08/12/19 16:29	
Endosulfan sulfate	ug/L	ND	0.050	0.0024	08/12/19 16:29	
Endrin	ug/L	ND	0.050	0.0049	08/12/19 16:29	
Endrin aldehyde	ug/L	ND	0.050	0.0033	08/12/19 16:29	
Endrin ketone	ug/L	ND	0.050	0.0019	08/12/19 16:29	
gamma-BHC (Lindane)	ug/L	ND	0.025	0.0024	08/12/19 16:29	
gamma-Chlordane	ug/L	ND	0.025	0.0053	08/12/19 16:29	
Heptachlor	ug/L	ND	0.025	0.0021	08/12/19 16:29	
Heptachlor epoxide	ug/L	ND	0.025	0.0015	08/12/19 16:29	
Methoxychlor	ug/L	ND	0.25	0.014	08/12/19 16:29	
Toxaphene	ug/L	ND	0.50	0.17	08/12/19 16:29	
Decachlorobiphenyl (S)	%	82	24-108		08/12/19 16:29	CH
Tetrachloro-m-xylene (S)	%	82	44-93		08/12/19 16:29	

LABORATORY CONTROL SAMPLE: 1726095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	ug/L	0.4	0.25	62	61-107	
4,4'-DDE	ug/L	0.4	0.36	90	64-104	
4,4'-DDT	ug/L	0.4	0.35	89	54-112	
Aldrin	ug/L	0.2	0.15	77	50-98	
alpha-BHC	ug/L	0.2	0.17	87	54-107	
alpha-Chlordane	ug/L	0.2	0.18	92	57-104	
beta-BHC	ug/L	0.2	0.18	92	54-106	
delta-BHC	ug/L	0.2	0.19	93	51-116	
Dieldrin	ug/L	0.4	0.36	89	57-111	
Endosulfan I	ug/L	0.2	0.17	87	57-98	
Endosulfan II	ug/L	0.4	0.36	90	61-105	
Endosulfan sulfate	ug/L	0.4	0.38	96	59-112	
Endrin	ug/L	0.4	0.36	90	60-103	

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QUALITY CONTROL DATA

Project: GW & SB

Pace Project No.: 30317705

LABORATORY CONTROL SAMPLE: 1726095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin aldehyde	ug/L	0.4	0.28	70	49-119	
Endrin ketone	ug/L	0.4	0.44	110	51-116	
gamma-BHC (Lindane)	ug/L	0.2	0.18	88	58-99	
gamma-Chlordane	ug/L	0.2	0.18	88	57-102	
Heptachlor	ug/L	0.2	0.16	81	51-104	
Heptachlor epoxide	ug/L	0.2	0.17	86	59-98	
Methoxychlor	ug/L	2	1.8	90	58-108	
Decachlorobiphenyl (S)	%			92	24-108	CH
Tetrachloro-m-xylene (S)	%			79	44-93	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355139 Analysis Method: EPA 8082A
QC Batch Method: EPA 3546 Analysis Description: 8082A GCS PCB
Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

METHOD BLANK: 1725211 Matrix: Solid
Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	16.7	10.3	08/07/19 17:02	
PCB-1221 (Aroclor 1221)	ug/kg	ND	16.7	14.8	08/07/19 17:02	
PCB-1232 (Aroclor 1232)	ug/kg	ND	16.7	15.2	08/07/19 17:02	
PCB-1242 (Aroclor 1242)	ug/kg	ND	16.7	12.2	08/07/19 17:02	
PCB-1248 (Aroclor 1248)	ug/kg	ND	16.7	9.6	08/07/19 17:02	
PCB-1254 (Aroclor 1254)	ug/kg	ND	16.7	8.9	08/07/19 17:02	
PCB-1260 (Aroclor 1260)	ug/kg	ND	16.7	9.5	08/07/19 17:02	
Decachlorobiphenyl (S)	%	92	38-139		08/07/19 17:02	
Tetrachloro-m-xylene (S)	%	83	34-114		08/07/19 17:02	

LABORATORY CONTROL SAMPLE: 1725212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	164	120	73	61-105	
PCB-1260 (Aroclor 1260)	ug/kg	164	138	84	70-100	
Decachlorobiphenyl (S)	%			91	38-139	
Tetrachloro-m-xylene (S)	%			69	34-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725213 1725214

Parameter	Units	1725213		1725214		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		30317705007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
PCB-1016 (Aroclor 1016)	ug/kg	ND	204	204	187	178	91	87	24-137	5	25	
PCB-1260 (Aroclor 1260)	ug/kg	ND	204	204	215	217	105	106	19-156	1	25	
Decachlorobiphenyl (S)	%						95	80	38-139			
Tetrachloro-m-xylene (S)	%						91	80	34-114			

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355394 Analysis Method: EPA 8082A
QC Batch Method: EPA 3510C Analysis Description: 8082A GCS PCB Mod
Associated Lab Samples: 30317705001, 30317705006

METHOD BLANK: 1726096 Matrix: Water
Associated Lab Samples: 30317705001, 30317705006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.25	0.14	08/08/19 17:23	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.25	0.17	08/08/19 17:23	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.25	0.073	08/08/19 17:23	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.25	0.11	08/08/19 17:23	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.25	0.094	08/08/19 17:23	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.25	0.022	08/08/19 17:23	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.25	0.025	08/08/19 17:23	
Decachlorobiphenyl (S)	%	68	10-120		08/08/19 17:23	
Tetrachloro-m-xylene (S)	%	78	36-108		08/08/19 17:23	

LABORATORY CONTROL SAMPLE: 1726097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	2.5	2.0	79	45-121	
PCB-1260 (Aroclor 1260)	ug/L	2.5	2.0	79	50-121	
Decachlorobiphenyl (S)	%			47	10-120	
Tetrachloro-m-xylene (S)	%			77	36-108	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355679 Analysis Method: EPA 8270D
QC Batch Method: EPA 3546 Analysis Description: 8270D Solid MSSV Microwave
Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

METHOD BLANK: 1727564 Matrix: Solid
Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	ND	323	87.4	08/09/19 15:59	
1,2-Dichlorobenzene	ug/kg	ND	323	101	08/09/19 15:59	
1,3-Dichlorobenzene	ug/kg	ND	323	95.6	08/09/19 15:59	
1,4-Dichlorobenzene	ug/kg	ND	323	44.6	08/09/19 15:59	
1-Methylnaphthalene	ug/kg	ND	323	81.2	08/09/19 15:59	
2,4,5-Trichlorophenol	ug/kg	ND	808	95.5	08/09/19 15:59	
2,4,6-Trichlorophenol	ug/kg	ND	323	84.4	08/09/19 15:59	
2,4-Dichlorophenol	ug/kg	ND	323	145	08/09/19 15:59	
2,4-Dimethylphenol	ug/kg	ND	323	98.1	08/09/19 15:59	
2,4-Dinitrophenol	ug/kg	ND	808	726	08/09/19 15:59	
2,4-Dinitrotoluene	ug/kg	ND	323	98.0	08/09/19 15:59	
2,6-Dinitrotoluene	ug/kg	ND	323	98.2	08/09/19 15:59	
2-Chloronaphthalene	ug/kg	ND	323	92.2	08/09/19 15:59	
2-Chlorophenol	ug/kg	ND	323	101	08/09/19 15:59	
2-Methylnaphthalene	ug/kg	ND	323	97.1	08/09/19 15:59	
2-Methylphenol(o-Cresol)	ug/kg	ND	323	116	08/09/19 15:59	
2-Nitroaniline	ug/kg	ND	808	112	08/09/19 15:59	
2-Nitrophenol	ug/kg	ND	323	128	08/09/19 15:59	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	646	198	08/09/19 15:59	
3,3'-Dichlorobenzidine	ug/kg	ND	323	94.8	08/09/19 15:59	
3-Nitroaniline	ug/kg	ND	808	211	08/09/19 15:59	
4,6-Dinitro-2-methylphenol	ug/kg	ND	808	241	08/09/19 15:59	
4-Bromophenylphenyl ether	ug/kg	ND	323	119	08/09/19 15:59	
4-Chloro-3-methylphenol	ug/kg	ND	323	52.0	08/09/19 15:59	
4-Chloroaniline	ug/kg	ND	323	56.8	08/09/19 15:59	
4-Chlorophenylphenyl ether	ug/kg	ND	323	93.4	08/09/19 15:59	
4-Nitroaniline	ug/kg	ND	808	453	08/09/19 15:59	
4-Nitrophenol	ug/kg	ND	323	109	08/09/19 15:59	
Acenaphthene	ug/kg	ND	323	110	08/09/19 15:59	
Acenaphthylene	ug/kg	ND	323	97.0	08/09/19 15:59	
Anthracene	ug/kg	ND	323	74.2	08/09/19 15:59	
Azobenzene	ug/kg	ND	323	114	08/09/19 15:59	N2
Benzo(a)anthracene	ug/kg	ND	323	145	08/09/19 15:59	
Benzo(a)pyrene	ug/kg	ND	323	100	08/09/19 15:59	
Benzo(b)fluoranthene	ug/kg	ND	323	98.1	08/09/19 15:59	
Benzo(g,h,i)perylene	ug/kg	ND	323	112	08/09/19 15:59	
Benzo(k)fluoranthene	ug/kg	ND	323	143	08/09/19 15:59	
Benzoic acid	ug/kg	ND	4840	1640	08/09/19 15:59	
Benzyl alcohol	ug/kg	ND	323	285	08/09/19 15:59	
bis(2-Chloroethoxy)methane	ug/kg	ND	323	128	08/09/19 15:59	
bis(2-Chloroethyl) ether	ug/kg	ND	323	59.0	08/09/19 15:59	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

METHOD BLANK: 1727564

Matrix: Solid

Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroisopropyl) ether	ug/kg	ND	323	274	08/09/19 15:59	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	323	103	08/09/19 15:59	
Butylbenzylphthalate	ug/kg	ND	323	90.8	08/09/19 15:59	
Carbazole	ug/kg	ND	323	127	08/09/19 15:59	
Chrysene	ug/kg	ND	323	119	08/09/19 15:59	
Di-n-butylphthalate	ug/kg	ND	323	109	08/09/19 15:59	
Di-n-octylphthalate	ug/kg	ND	323	73.3	08/09/19 15:59	
Dibenz(a,h)anthracene	ug/kg	ND	323	123	08/09/19 15:59	
Dibenzofuran	ug/kg	ND	323	104	08/09/19 15:59	
Diethylphthalate	ug/kg	ND	323	114	08/09/19 15:59	
Dimethylphthalate	ug/kg	ND	323	99.6	08/09/19 15:59	
Fluoranthene	ug/kg	ND	323	104	08/09/19 15:59	
Fluorene	ug/kg	ND	323	98.9	08/09/19 15:59	
Hexachloro-1,3-butadiene	ug/kg	ND	323	105	08/09/19 15:59	
Hexachlorobenzene	ug/kg	ND	323	92.8	08/09/19 15:59	
Hexachlorocyclopentadiene	ug/kg	ND	323	76.4	08/09/19 15:59	
Hexachloroethane	ug/kg	ND	323	87.2	08/09/19 15:59	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	323	121	08/09/19 15:59	
Isophorone	ug/kg	ND	323	106	08/09/19 15:59	
N-Nitroso-di-n-propylamine	ug/kg	ND	323	137	08/09/19 15:59	
N-Nitrosodimethylamine	ug/kg	ND	323	55.4	08/09/19 15:59	
N-Nitrosodiphenylamine	ug/kg	ND	323	72.8	08/09/19 15:59	
Naphthalene	ug/kg	ND	323	87.6	08/09/19 15:59	
Nitrobenzene	ug/kg	ND	323	120	08/09/19 15:59	
Pentachlorophenol	ug/kg	ND	808	425	08/09/19 15:59	
Phenanthrene	ug/kg	ND	323	142	08/09/19 15:59	
Phenol	ug/kg	ND	323	95.7	08/09/19 15:59	
Pyrene	ug/kg	ND	323	118	08/09/19 15:59	
2,4,6-Tribromophenol (S)	%	77	10-160		08/09/19 15:59	
2-Fluorobiphenyl (S)	%	92	52-102		08/09/19 15:59	
2-Fluorophenol (S)	%	88	10-147		08/09/19 15:59	
Nitrobenzene-d5 (S)	%	86	45-103		08/09/19 15:59	
Phenol-d6 (S)	%	85	35-120		08/09/19 15:59	
Terphenyl-d14 (S)	%	84	53-135		08/09/19 15:59	

LABORATORY CONTROL SAMPLE: 1727565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/kg	3320	2770	83	54-92	
1,2-Dichlorobenzene	ug/kg	3320	2480	75	69-103	
1,3-Dichlorobenzene	ug/kg	3320	2580	77	67-104	
1,4-Dichlorobenzene	ug/kg	3320	2330	70	63-101	
1-Methylnaphthalene	ug/kg	3320	2900	87	54-86 L1	
2,4,5-Trichlorophenol	ug/kg	3320	3120	94	66-112	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

LABORATORY CONTROL SAMPLE: 1727565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/kg	3320	2970	89	62-135	
2,4-Dichlorophenol	ug/kg	3320	2930	88	51-100	
2,4-Dimethylphenol	ug/kg	3320	2690	81	38-86	
2,4-Dinitrophenol	ug/kg	3320	2590	78	14-147	
2,4-Dinitrotoluene	ug/kg	3320	3020	91	73-117	
2,6-Dinitrotoluene	ug/kg	3320	2960	89	68-117	
2-Chloronaphthalene	ug/kg	3320	2840	86	69-109	
2-Chlorophenol	ug/kg	3320	2840	85	72-106	
2-Methylnaphthalene	ug/kg	3320	2880	87	48-94	
2-Methylphenol(o-Cresol)	ug/kg	3320	2800	84	60-118	
2-Nitroaniline	ug/kg	3320	2910	88	69-126	
2-Nitrophenol	ug/kg	3320	3050	92	52-96	
3&4-Methylphenol(m&p Cresol)	ug/kg	6650	5600	84	61-117	
3,3'-Dichlorobenzidine	ug/kg	3320	2500	75	48-108	
3-Nitroaniline	ug/kg	3320	2530	76	56-147	
4,6-Dinitro-2-methylphenol	ug/kg	3320	3100	93	61-146	
4-Bromophenylphenyl ether	ug/kg	3320	2900	87	74-110	
4-Chloro-3-methylphenol	ug/kg	3320	2960	89	52-105	
4-Chloroaniline	ug/kg	3320	2350	71	20-87	
4-Chlorophenylphenyl ether	ug/kg	3320	2880	87	72-112	
4-Nitroaniline	ug/kg	3320	2950	89	54-175	
4-Nitrophenol	ug/kg	3320	2750	83	57-143	
Acenaphthene	ug/kg	3320	2930	88	68-121	
Acenaphthylene	ug/kg	3320	2970	89	67-116	
Anthracene	ug/kg	3320	3090	93	67-104	
Azobenzene	ug/kg	3320	2850	86	58-119	N2
Benzo(a)anthracene	ug/kg	3320	3120	94	75-115	
Benzo(a)pyrene	ug/kg	3320	2870	86	72-108	
Benzo(b)fluoranthene	ug/kg	3320	3200	96	72-119	
Benzo(g,h,i)perylene	ug/kg	3320	3260	98	70-119	
Benzo(k)fluoranthene	ug/kg	3320	2900	87	72-118	
Benzoic acid	ug/kg	3320	1980J	60	10-112	
Benzyl alcohol	ug/kg	3320	2290	69	45-132	
bis(2-Chloroethoxy)methane	ug/kg	3320	2670	80	46-96	
bis(2-Chloroethyl) ether	ug/kg	3320	2440	73	53-110	
bis(2-Chloroisopropyl) ether	ug/kg	3320	2280	68	51-121	
bis(2-Ethylhexyl)phthalate	ug/kg	3320	3240	98	72-122	
Butylbenzylphthalate	ug/kg	3320	3300	99	73-122	
Carbazole	ug/kg	3320	2790	84	56-130	
Chrysene	ug/kg	3320	3100	93	74-115	
Di-n-butylphthalate	ug/kg	3320	3140	95	77-114	
Di-n-octylphthalate	ug/kg	3320	3060	92	70-121	
Dibenz(a,h)anthracene	ug/kg	3320	3340	100	69-125	
Dibenzofuran	ug/kg	3320	2960	89	72-110	
Diethylphthalate	ug/kg	3320	2960	89	73-115	
Dimethylphthalate	ug/kg	3320	2850	86	69-114	
Fluoranthene	ug/kg	3320	3140	94	76-116	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

LABORATORY CONTROL SAMPLE: 1727565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/kg	3320	2900	87	70-117	
Hexachloro-1,3-butadiene	ug/kg	3320	2790	84	45-105	
Hexachlorobenzene	ug/kg	3320	3050	92	75-110	
Hexachlorocyclopentadiene	ug/kg	3320	2550	77	37-100	
Hexachloroethane	ug/kg	3320	2490	75	58-108	
Indeno(1,2,3-cd)pyrene	ug/kg	3320	3310	99	71-122	
Isophorone	ug/kg	3320	2780	84	47-89	
N-Nitroso-di-n-propylamine	ug/kg	3320	2620	79	56-102	
N-Nitrosodimethylamine	ug/kg	3320	2520	76	56-102	
N-Nitrosodiphenylamine	ug/kg	3320	2900	87	83-96	
Naphthalene	ug/kg	3320	2810	84	50-95	
Nitrobenzene	ug/kg	3320	2680	80	48-96	
Pentachlorophenol	ug/kg	3320	3460	104	52-162	
Phenanthrene	ug/kg	3320	2970	89	72-122	
Phenol	ug/kg	3320	2710	82	62-120	
Pyrene	ug/kg	3320	3150	95	72-121	
2,4,6-Tribromophenol (S)	%			83	10-160	
2-Fluorobiphenyl (S)	%			86	52-102	
2-Fluorophenol (S)	%			84	10-147	
Nitrobenzene-d5 (S)	%			82	45-103	
Phenol-d6 (S)	%			80	35-120	
Terphenyl-d14 (S)	%			87	53-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1727566 1727567

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30318293002 Result	Spike Conc.	Spike Conc.	MS Result						
1,2,4-Trichlorobenzene	ug/kg	ND	3440	3490	2820J	2870J	82	82	51-90	25	
1,2-Dichlorobenzene	ug/kg	ND	3440	3490	2560J	2550J	74	73	65-100	25	
1,3-Dichlorobenzene	ug/kg	ND	3440	3490	2680J	2630J	78	76	63-100	25	
1,4-Dichlorobenzene	ug/kg	ND	3440	3490	2460J	2480J	71	71	61-99	25	
1-Methylnaphthalene	ug/kg	ND	3440	3490	2990J	3070J	86	87	50-89	25	
2,4,5-Trichlorophenol	ug/kg	ND	3440	3490	2630J	3060J	76	88	10-143	25	
2,4,6-Trichlorophenol	ug/kg	ND	3440	3490	3060J	2940J	89	85	10-166	25	
2,4-Dichlorophenol	ug/kg	ND	3440	3490	2860J	2860J	83	82	33-101	25	
2,4-Dimethylphenol	ug/kg	ND	3440	3490	2910J	2990J	85	86	28-80	25	M6
2,4-Dinitrophenol	ug/kg	ND	3440	3490	ND	ND	2	1	10-131	25	M6
2,4-Dinitrotoluene	ug/kg	ND	3440	3490	2660J	2650J	77	76	43-120	25	
2,6-Dinitrotoluene	ug/kg	ND	3440	3490	2860J	2750J	83	79	47-116	25	
2-Chloronaphthalene	ug/kg	ND	3440	3490	2840J	3080J	82	88	53-110	25	
2-Chlorophenol	ug/kg	ND	3440	3490	2970J	2920J	86	84	44-118	25	
2-Methylnaphthalene	ug/kg	ND	3440	3490	3020J	3130J	86	88	44-91	25	
2-Methylphenol(o-Cresol)	ug/kg	ND	3440	3490	2830J	3010J	82	86	37-142	25	
2-Nitroaniline	ug/kg	ND	3440	3490	2800J	2800J	81	80	52-121	25	
2-Nitrophenol	ug/kg	ND	3440	3490	2620J	2450J	76	70	10-128	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1727566												1727567	
Parameter	Units	30318293002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD			
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	6890	6970	5810J	5860J	84	84	36-135	25			
3,3'-Dichlorobenzidine	ug/kg	ND	3440	3490	2240J	2400J	65	69	10-134	25			
3-Nitroaniline	ug/kg	ND	3440	3490	2650J	2670J	77	77	45-126	25			
4,6-Dinitro-2-methylphenol	ug/kg	ND	3440	3490	ND	ND	9	6	10-155	25	M6		
4-Bromophenylphenyl ether	ug/kg	ND	3440	3490	3040J	2970J	88	85	69-106	25			
4-Chloro-3-methylphenol	ug/kg	ND	3440	3490	2770J	2840J	80	81	47-100	25			
4-Chloroaniline	ug/kg	ND	3440	3490	2230J	2200J	65	63	18-77	25			
4-Chlorophenylphenyl ether	ug/kg	ND	3440	3490	3000J	2920J	87	84	63-108	25			
4-Nitroaniline	ug/kg	ND	3440	3490	ND	ND	75	73	27-175	25			
4-Nitrophenol	ug/kg	ND	3440	3490	1550J	1890J	45	54	10-159	25			
Acenaphthene	ug/kg	ND	3440	3490	2900J	3040J	84	87	59-114	25			
Acenaphthylene	ug/kg	ND	3440	3490	2930J	3080J	85	88	56-112	25			
Anthracene	ug/kg	ND	3440	3490	2920J	3090J	83	87	52-105	25			
Azobenzene	ug/kg	ND	3440	3490	2720J	2890J	79	83	47-116	25	N2		
Benzo(a)anthracene	ug/kg	ND	3440	3490	3400J	3310J	90	87	55-120	25			
Benzo(a)pyrene	ug/kg	ND	3440	3490	3280J	3230J	80	78	50-112	25	IS		
Benzo(b)fluoranthene	ug/kg	ND	3440	3490	4580	4950	117	127	40-140	8	25 IS		
Benzo(g,h,i)perylene	ug/kg	ND	3440	3490	ND	ND	21	19	10-137	25	IS		
Benzo(k)fluoranthene	ug/kg	ND	3440	3490	4190	4460	122	128	32-150	6	25 IS		
Benzoic acid	ug/kg	ND	3440	3490	ND	ND	10	19	10-129	25			
Benzyl alcohol	ug/kg	ND	3440	3490	ND	ND	0	0	10-156	25	M6		
bis(2-Chloroethoxy)methane	ug/kg	ND	3440	3490	2860J	2840J	83	82	44-91	25			
bis(2-Chloroethyl) ether	ug/kg	ND	3440	3490	2520J	2480J	73	71	44-107	25			
bis(2-Chloroisopropyl) ether	ug/kg	ND	3440	3490	ND	ND	70	69	48-115	25			
bis(2-Ethylhexyl)phthalate	ug/kg	ND	3440	3490	3160J	3270J	90	92	61-123	25			
Butylbenzylphthalate	ug/kg	ND	3440	3490	3350J	3580	96	102	65-122	25			
Carbazole	ug/kg	ND	3440	3490	2710J	2970J	79	85	65-121	25			
Chrysene	ug/kg	ND	3440	3490	3510	3460J	91	89	53-120	25			
Di-n-butylphthalate	ug/kg	ND	3440	3490	2950J	3050J	86	87	68-112	25			
Di-n-octylphthalate	ug/kg	ND	3440	3490	5600	6350	162	182	57-135	12	25 IS,M6		
Dibenz(a,h)anthracene	ug/kg	ND	3440	3490	1340J	ND	35	34	10-143	25	IS		
Dibenzofuran	ug/kg	ND	3440	3490	2970J	3090J	85	88	67-106	25			
Diethylphthalate	ug/kg	ND	3440	3490	2670J	2760J	78	79	64-112	25			
Dimethylphthalate	ug/kg	ND	3440	3490	3010J	2980J	88	85	55-115	25			
Fluoranthene	ug/kg	ND	3440	3490	3540	3360J	93	87	48-128	25			
Fluorene	ug/kg	ND	3440	3490	2760J	2970J	80	85	62-115	25			
Hexachloro-1,3-butadiene	ug/kg	ND	3440	3490	2940J	2940J	85	84	37-107	25			
Hexachlorobenzene	ug/kg	ND	3440	3490	3060J	3190J	89	92	63-112	25			
Hexachlorocyclopentadiene	ug/kg	ND	3440	3490	1220J	889J	35	26	10-98	25			
Hexachloroethane	ug/kg	ND	3440	3490	2460J	2330J	72	67	40-112	25			
Indeno(1,2,3-cd)pyrene	ug/kg	ND	3440	3490	1330J	ND	33	30	10-139	25	IS		
Isophorone	ug/kg	ND	3440	3490	2760J	2800J	80	80	44-87	25			
N-Nitroso-di-n-propylamine	ug/kg	ND	3440	3490	2630J	2680J	77	77	45-123	25			
N-Nitrosodimethylamine	ug/kg	ND	3440	3490	2460J	2360J	71	68	47-102	25			

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1727566		1727567		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30318293002 Result	MS Spike Conc.	MSD Spike Conc.									
N-Nitrosodiphenylamine	ug/kg	ND	3440	3490	2840J	3150J	82	90	64-86			25	M6
Naphthalene	ug/kg	ND	3440	3490	2940J	2990J	84	84	41-101			25	
Nitrobenzene	ug/kg	ND	3440	3490	2660J	2620J	77	75	41-97			25	
Pentachlorophenol	ug/kg	ND	3440	3490	ND	ND	55	64	10-175			25	
Phenanthrene	ug/kg	ND	3440	3490	3390J	3200J	93	86	51-117			25	
Phenol	ug/kg	ND	3440	3490	2720J	2750J	79	79	42-125			25	
Pyrene	ug/kg	ND	3440	3490	3720	3850	97	100	43-138		4	25	
2,4,6-Tribromophenol (S)	%						73	75	10-160				
2-Fluorobiphenyl (S)	%						85	86	52-102				
2-Fluorophenol (S)	%						80	74	10-147				
Nitrobenzene-d5 (S)	%						80	81	45-103				
Phenol-d6 (S)	%						77	78	35-120				
Terphenyl-d14 (S)	%						87	91	53-135				

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355401 Analysis Method: EPA 8270D
QC Batch Method: EPA 3510C Analysis Description: 8270D Water MSSV
Associated Lab Samples: 30317705001, 30317705006

METHOD BLANK: 1726145 Matrix: Water
Associated Lab Samples: 30317705001, 30317705006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.32	08/08/19 15:36	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.34	08/08/19 15:36	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.30	08/08/19 15:36	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.28	08/08/19 15:36	
1-Methylnaphthalene	ug/L	ND	1.0	0.36	08/08/19 15:36	
2,4,5-Trichlorophenol	ug/L	ND	2.5	0.67	08/08/19 15:36	
2,4,6-Trichlorophenol	ug/L	ND	1.0	0.37	08/08/19 15:36	
2,4-Dichlorophenol	ug/L	ND	1.0	0.34	08/08/19 15:36	
2,4-Dimethylphenol	ug/L	ND	1.0	0.36	08/08/19 15:36	
2,4-Dinitrophenol	ug/L	ND	2.5	0.58	08/08/19 15:36	
2,4-Dinitrotoluene	ug/L	ND	1.0	0.36	08/08/19 15:36	
2,6-Dinitrotoluene	ug/L	ND	1.0	0.40	08/08/19 15:36	
2-Chloronaphthalene	ug/L	ND	1.0	0.33	08/08/19 15:36	
2-Chlorophenol	ug/L	ND	1.0	0.32	08/08/19 15:36	
2-Methylnaphthalene	ug/L	ND	1.0	0.34	08/08/19 15:36	
2-Methylphenol(o-Cresol)	ug/L	ND	1.0	0.37	08/08/19 15:36	
2-Nitroaniline	ug/L	ND	2.5	0.71	08/08/19 15:36	
2-Nitrophenol	ug/L	ND	1.0	0.35	08/08/19 15:36	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2.0	1.9	08/08/19 15:36	
3,3'-Dichlorobenzidine	ug/L	ND	1.0	0.23	08/08/19 15:36	
3-Nitroaniline	ug/L	ND	2.5	0.96	08/08/19 15:36	
4,6-Dinitro-2-methylphenol	ug/L	ND	2.5	0.64	08/08/19 15:36	
4-Bromophenylphenyl ether	ug/L	ND	1.0	0.39	08/08/19 15:36	
4-Chloro-3-methylphenol	ug/L	ND	1.0	0.44	08/08/19 15:36	
4-Chloroaniline	ug/L	ND	1.0	0.21	08/08/19 15:36	
4-Chlorophenylphenyl ether	ug/L	ND	1.0	0.36	08/08/19 15:36	
4-Nitroaniline	ug/L	ND	2.5	1.9	08/08/19 15:36	
4-Nitrophenol	ug/L	ND	1.0	0.76	08/08/19 15:36	
Acenaphthene	ug/L	ND	1.0	0.39	08/08/19 15:36	
Acenaphthylene	ug/L	ND	1.0	0.38	08/08/19 15:36	
Anthracene	ug/L	ND	1.0	0.27	08/08/19 15:36	
Azobenzene	ug/L	ND	1.0	0.35	08/08/19 15:36	N2
Benzo(a)anthracene	ug/L	ND	1.0	0.20	08/08/19 15:36	
Benzo(a)pyrene	ug/L	ND	1.0	0.18	08/08/19 15:36	
Benzo(b)fluoranthene	ug/L	ND	1.0	0.24	08/08/19 15:36	
Benzo(g,h,i)perylene	ug/L	ND	1.0	0.30	08/08/19 15:36	
Benzo(k)fluoranthene	ug/L	ND	1.0	0.26	08/08/19 15:36	
Benzoic acid	ug/L	ND	15.0	2.8	08/08/19 15:36	
Benzyl alcohol	ug/L	ND	1.0	0.70	08/08/19 15:36	
bis(2-Chloroethoxy)methane	ug/L	ND	1.0	0.36	08/08/19 15:36	
bis(2-Chloroethyl) ether	ug/L	ND	1.0	0.41	08/08/19 15:36	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

METHOD BLANK: 1726145 Matrix: Water
Associated Lab Samples: 30317705001, 30317705006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroisopropyl) ether	ug/L	ND	1.0	0.40	08/08/19 15:36	
bis(2-Ethylhexyl)phthalate	ug/L	ND	1.0	0.36	08/08/19 15:36	
Butylbenzylphthalate	ug/L	ND	1.0	0.30	08/08/19 15:36	
Carbazole	ug/L	ND	1.0	0.23	08/08/19 15:36	
Chrysene	ug/L	ND	1.0	0.21	08/08/19 15:36	
Di-n-butylphthalate	ug/L	ND	1.0	0.32	08/08/19 15:36	
Di-n-octylphthalate	ug/L	ND	1.0	0.27	08/08/19 15:36	CH
Dibenz(a,h)anthracene	ug/L	ND	1.0	0.31	08/08/19 15:36	
Dibenzofuran	ug/L	ND	1.0	0.36	08/08/19 15:36	
Diethylphthalate	ug/L	ND	1.0	0.36	08/08/19 15:36	
Dimethylphthalate	ug/L	ND	1.0	0.44	08/08/19 15:36	
Fluoranthene	ug/L	ND	1.0	0.23	08/08/19 15:36	
Fluorene	ug/L	ND	1.0	0.37	08/08/19 15:36	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.33	08/08/19 15:36	
Hexachlorobenzene	ug/L	ND	1.0	0.30	08/08/19 15:36	
Hexachlorocyclopentadiene	ug/L	ND	1.0	0.19	08/08/19 15:36	
Hexachloroethane	ug/L	ND	1.0	0.30	08/08/19 15:36	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.0	0.30	08/08/19 15:36	
Isophorone	ug/L	ND	1.0	0.57	08/08/19 15:36	
N-Nitroso-di-n-propylamine	ug/L	ND	1.0	0.54	08/08/19 15:36	
N-Nitrosodimethylamine	ug/L	ND	1.0	0.26	08/08/19 15:36	
N-Nitrosodiphenylamine	ug/L	ND	1.0	0.25	08/08/19 15:36	
Naphthalene	ug/L	ND	1.0	0.35	08/08/19 15:36	
Nitrobenzene	ug/L	ND	1.0	0.38	08/08/19 15:36	
Pentachlorophenol	ug/L	ND	2.5	1.0	08/08/19 15:36	
Phenanthrene	ug/L	ND	1.0	0.34	08/08/19 15:36	
Phenol	ug/L	ND	1.0	0.22	08/08/19 15:36	
Pyrene	ug/L	ND	1.0	0.30	08/08/19 15:36	
2,4,6-Tribromophenol (S)	%	49	33-129		08/08/19 15:36	
2-Fluorobiphenyl (S)	%	45	10-121		08/08/19 15:36	
2-Fluorophenol (S)	%	26	10-84		08/08/19 15:36	
Nitrobenzene-d5 (S)	%	40	10-120		08/08/19 15:36	
Phenol-d6 (S)	%	20	10-58		08/08/19 15:36	
Terphenyl-d14 (S)	%	71	43-119		08/08/19 15:36	

LABORATORY CONTROL SAMPLE: 1726146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	10	3.3	33	21-80	
1,2-Dichlorobenzene	ug/L	10	2.9	29	22-94	
1,3-Dichlorobenzene	ug/L	10	2.7	27	13-96	
1,4-Dichlorobenzene	ug/L	10	2.8	28	23-95	
1-Methylnaphthalene	ug/L	10	3.9	39	25-86	
2,4,5-Trichlorophenol	ug/L	10	6.4	64	46-114	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

LABORATORY CONTROL SAMPLE: 1726146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/L	10	5.6	56	40-121	
2,4-Dichlorophenol	ug/L	10	4.7	47	22-94	
2,4-Dimethylphenol	ug/L	10	4.9	49	12-77	
2,4-Dinitrophenol	ug/L	10	2.2J	22	10-136	
2,4-Dinitrotoluene	ug/L	10	6.8	68	47-108	
2,6-Dinitrotoluene	ug/L	10	5.8	58	37-122	
2-Chloronaphthalene	ug/L	10	4.0	40	24-107	
2-Chlorophenol	ug/L	10	4.1	41	23-101	
2-Methylnaphthalene	ug/L	10	3.9	39	23-83	
2-Methylphenol(o-Cresol)	ug/L	10	4.5	45	28-117	
2-Nitroaniline	ug/L	10	6.3	63	31-130	
2-Nitrophenol	ug/L	10	4.2	42	19-92	
3&4-Methylphenol(m&p Cresol)	ug/L	20	9.3	47	24-122	
3,3'-Dichlorobenzidine	ug/L	10	6.9	69	36-120	
3-Nitroaniline	ug/L	10	7.9	79	20-160	
4,6-Dinitro-2-methylphenol	ug/L	10	5.0	50	18-155	
4-Bromophenylphenyl ether	ug/L	10	5.6	56	35-119	
4-Chloro-3-methylphenol	ug/L	10	6.3	63	25-102	
4-Chloroaniline	ug/L	10	6.2	62	10-82	
4-Chlorophenylphenyl ether	ug/L	10	5.0	50	30-117	
4-Nitroaniline	ug/L	10	7.6	76	21-175	
4-Nitrophenol	ug/L	10	3.8	38	15-67	
Acenaphthene	ug/L	10	4.5	45	30-116	
Acenaphthylene	ug/L	10	4.5	45	29-112	
Anthracene	ug/L	10	6.8	68	44-109	
Azobenzene	ug/L	10	5.7	57	28-121	N2
Benzo(a)anthracene	ug/L	10	8.8	88	50-121	
Benzo(a)pyrene	ug/L	10	8.3	83	47-116	
Benzo(b)fluoranthene	ug/L	10	8.7	87	48-123	
Benzo(g,h,i)perylene	ug/L	10	9.2	92	40-131	
Benzo(k)fluoranthene	ug/L	10	9.4	94	47-126	
Benzoic acid	ug/L	10	ND	9	10-56	L2
Benzyl alcohol	ug/L	10	5.3	53	13-118	
bis(2-Chloroethoxy)methane	ug/L	10	4.4	44	14-95	
bis(2-Chloroethyl) ether	ug/L	10	3.7	37	18-101	
bis(2-Chloroisopropyl) ether	ug/L	10	3.7	37	10-117	
bis(2-Ethylhexyl)phthalate	ug/L	10	9.9	99	50-133	
Butylbenzylphthalate	ug/L	10	9.4	94	51-131	
Carbazole	ug/L	10	7.8	78	46-123	
Chrysene	ug/L	10	8.4	84	51-123	
Di-n-butylphthalate	ug/L	10	9.5	95	56-124	
Di-n-octylphthalate	ug/L	10	10.2	102	45-132	CH
Dibenz(a,h)anthracene	ug/L	10	9.7	97	41-138	
Dibenzofuran	ug/L	10	4.7	47	27-117	
Diethylphthalate	ug/L	10	8.0	80	47-121	
Dimethylphthalate	ug/L	10	7.0	70	37-119	
Fluoranthene	ug/L	10	8.2	82	52-126	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

LABORATORY CONTROL SAMPLE: 1726146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/L	10	5.2	52	34-120	
Hexachloro-1,3-butadiene	ug/L	10	3.2	32	17-96	
Hexachlorobenzene	ug/L	10	6.0	60	16-116	
Hexachlorocyclopentadiene	ug/L	10	2.9	29	10-86	
Hexachloroethane	ug/L	10	2.8	28	17-103	
Indeno(1,2,3-cd)pyrene	ug/L	10	9.1	91	42-135	
Isophorone	ug/L	10	5.1	51	21-88	
N-Nitroso-di-n-propylamine	ug/L	10	4.5	45	23-122	
N-Nitrosodimethylamine	ug/L	10	3.2	32	10-77	
N-Nitrosodiphenylamine	ug/L	10	5.6	56	28-89	
Naphthalene	ug/L	10	3.7	37	23-82	
Nitrobenzene	ug/L	10	3.9	39	17-126	
Pentachlorophenol	ug/L	10	4.0	40	23-138	
Phenanthrene	ug/L	10	6.3	63	45-119	
Phenol	ug/L	10	2.5	25	10-54	
Pyrene	ug/L	10	7.7	77	46-127	
2,4,6-Tribromophenol (S)	%			66	33-129	
2-Fluorobiphenyl (S)	%			43	10-121	
2-Fluorophenol (S)	%			23	10-84	
Nitrobenzene-d5 (S)	%			38	10-120	
Phenol-d6 (S)	%			23	10-58	
Terphenyl-d14 (S)	%			77	43-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1726147 1726148

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30317639002 Result	Spike Conc.	Spike Conc.	Result						
1,2,4-Trichlorobenzene	ug/L	1.0 U	10.1	10.3	2.9	3.8	29	37	10-87	26	25 R1
1,2-Dichlorobenzene	ug/L	1.0 U	10.1	10.3	2.8	3.7	28	36	10-95	27	25 R1
1,3-Dichlorobenzene	ug/L	1.0 U	10.1	10.3	2.6	3.6	25	35	10-89	34	25 R1
1,4-Dichlorobenzene	ug/L	1.0 U	10.1	10.3	2.7	3.1	27	31	10-121	15	25
1-Methylnaphthalene	ug/L	0.69J	10.1	10.3	4.8	5.7	41	49	10-89	17	25
2,4,5-Trichlorophenol	ug/L	2.6 U	10.1	10.3	8.1	9.3	80	91	23-132	14	25
2,4,6-Trichlorophenol	ug/L	1.0 U	10.1	10.3	7.2	7.6	72	74	10-143	4	25
2,4-Dichlorophenol	ug/L	1.0 U	10.1	10.3	5.7	6.2	56	61	10-102	9	25
2,4-Dimethylphenol	ug/L	1.0 U	10.1	10.3	5.8	6.5	57	63	10-91	11	25
2,4-Dinitrophenol	ug/L	2.6 U	10.1	10.3	9.8	9.1	97	88	10-137	8	25
2,4-Dinitrotoluene	ug/L	1.0 U	10.1	10.3	8.5	8.5	84	83	36-114	0	25
2,6-Dinitrotoluene	ug/L	1.0 U	10.1	10.3	7.3	8.1	73	79	24-115	10	25
2-Chloronaphthalene	ug/L	1.0 U	10.1	10.3	4.1	5.0	40	49	10-104	20	25
2-Chlorophenol	ug/L	1.0 U	10.1	10.3	4.6	6.1	45	59	16-91	28	25 R1
2-Methylnaphthalene	ug/L	0.77J	10.1	10.3	4.2	5.7	34	48	11-81	31	25 R1
2-Methylphenol(o-Cresol)	ug/L	1.0 U	10.1	10.3	5.3	7.8	52	76	10-140	39	25 R1
2-Nitroaniline	ug/L	2.6 U	10.1	10.3	7.8	8.5	77	83	29-115	9	25
2-Nitrophenol	ug/L	1.0 U	10.1	10.3	4.4	5.3	44	52	10-97	19	25

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

Parameter	Units	30317639002		MS		MSD		MS		MSD		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec									
MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1726147																	
3&4-Methylphenol(m&p Cresol)	ug/L	2.0 U	20.2	20.5	11.1	12.8	53	61	10-146	15	25						
3,3'-Dichlorobenzidine	ug/L	1.0 U	10.1	10.3	ND	ND	0	0	10-126		25	M1,ML					
3-Nitroaniline	ug/L	2.6 U	10.1	10.3	ND	ND	0	0	10-142		25	M1,ML					
4,6-Dinitro-2-methylphenol	ug/L	2.6 U	10.1	10.3	8.3	8.8	82	86	10-144	6	25						
4-Bromophenylphenyl ether	ug/L	1.0 U	10.1	10.3	6.6	7.5	65	73	11-125	13	25						
4-Chloro-3-methylphenol	ug/L	1.0 U	10.1	10.3	7.3	8.6	72	84	10-109	16	25						
4-Chloroaniline	ug/L	1.0 U	10.1	10.3	ND	ND	0	0	10-76		25	M1,ML					
4-Chlorophenylphenyl ether	ug/L	1.0 U	10.1	10.3	6.4	6.9	64	67	10-120	7	25						
4-Nitroaniline	ug/L	2.6 U	10.1	10.3	ND	ND	0	0	10-167		25	M1,ML					
4-Nitrophenol	ug/L	1.0 U	10.1	10.3	1.6	ND	16	0	10-74		25	ML					
Acenaphthene	ug/L	1.0 U	10.1	10.3	5.2	6.0	52	59	10-114	14	25						
Acenaphthylene	ug/L	1.0 U	10.1	10.3	4.3	3.5	42	34	10-111	20	25						
Anthracene	ug/L	1.0 U	10.1	10.3	7.5	7.9	75	77	31-104	5	25						
Azobenzene	ug/L	1.0 U	10.1	10.3	6.6	6.6	66	64	10-125	1	25	N2					
Benzo(a)anthracene	ug/L	1.0 U	10.1	10.3	8.7	9.2	86	90	43-114	6	25						
Benzo(a)pyrene	ug/L	1.0 U	10.1	10.3	8.2	8.4	82	82	41-109	2	25						
Benzo(b)fluoranthene	ug/L	1.0 U	10.1	10.3	10.8	10.9	107	106	40-123	1	25						
Benzo(g,h,i)perylene	ug/L	1.0 U	10.1	10.3	4.4	7.3	43	71	10-130	50	25	R1					
Benzo(k)fluoranthene	ug/L	1.0 U	10.1	10.3	8.4	9.3	83	91	40-122	11	25						
Benzoic acid	ug/L	15.3 U	10.1	10.3	ND	ND	-4	1	10-83		25	M0,ML					
Benzyl alcohol	ug/L	1.0 U	10.1	10.3	6.2	5.4	59	50	10-106	14	25						
bis(2-Chloroethoxy)methane	ug/L	1.0 U	10.1	10.3	3.6	5.0	36	49	10-94	33	25	R1					
bis(2-Chloroethyl) ether	ug/L	1.0 U	10.1	10.3	4.7	5.0	46	49	10-95	7	25						
bis(2-Chloroisopropyl) ether	ug/L	1.0 U	10.1	10.3	4.6	4.4	45	43	10-101	4	25						
bis(2-Ethylhexyl)phthalate	ug/L	0.39J	10.1	10.3	10.3	10.9	98	102	43-126	6	25						
Butylbenzylphthalate	ug/L	1.0 U	10.1	10.3	9.9	11.1	98	108	44-127	12	25						
Carbazole	ug/L	1.0 U	10.1	10.3	8.7	8.8	86	86	46-125	2	25						
Chrysene	ug/L	1.0 U	10.1	10.3	8.6	9.0	85	88	42-116	4	25						
Di-n-butylphthalate	ug/L	1.0 U	10.1	10.3	9.3	9.8	92	96	47-117	6	25						
Di-n-octylphthalate	ug/L	1.0 U	10.1	10.3	11.5	11.6	114	113	34-142	1	25	CH					
Dibenz(a,h)anthracene	ug/L	1.0 U	10.1	10.3	5.6	7.9	55	77	22-125	34	25	R1					
Dibenzofuran	ug/L	1.0 U	10.1	10.3	5.7	6.3	57	61	10-116	9	25						
Diethylphthalate	ug/L	1.0 U	10.1	10.3	8.7	9.2	86	89	32-118	6	25						
Dimethylphthalate	ug/L	1.0 U	10.1	10.3	7.9	8.6	78	84	23-117	9	25						
Fluoranthene	ug/L	1.0 U	10.1	10.3	8.7	7.4	87	72	44-116	17	25						
Fluorene	ug/L	1.0 U	10.1	10.3	6.7	7.2	65	69	18-115	7	25						
Hexachloro-1,3-butadiene	ug/L	1.0 U	10.1	10.3	2.3	3.3	23	33	10-136	35	25	R1					
Hexachlorobenzene	ug/L	1.0 U	10.1	10.3	6.7	7.7	67	75	10-127	14	25						
Hexachlorocyclopentadiene	ug/L	1.0 U	10.1	10.3	2.4	3.2	24	32	10-70	29	25	R1					
Hexachloroethane	ug/L	1.0 U	10.1	10.3	2.4	3.4	24	33	10-127	36	25	R1					
Indeno(1,2,3-cd)pyrene	ug/L	1.0 U	10.1	10.3	5.3	7.8	52	76	11-128	38	25	R1					
Isophorone	ug/L	1.0 U	10.1	10.3	5.4	6.1	53	60	10-94	13	25						
N-Nitroso-di-n-propylamine	ug/L	1.0 U	10.1	10.3	5.3	5.9	52	58	10-114	12	25						
N-Nitrosodimethylamine	ug/L	1.0 U	10.1	10.3	3.6	4.9	36	48	10-65	31	25	R1					

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1726147		1726148		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		30317639002 Result	MS Spike Conc.	MSD Spike Conc.									
N-Nitrosodiphenylamine	ug/L	1.0 U	10.1	10.3	6.7	7.4	66	73	18-87	11	25		
Naphthalene	ug/L	0.55J	10.1	10.3	4.3	5.0	37	44	10-91	15	25		
Nitrobenzene	ug/L	1.0 U	10.1	10.3	4.3	4.7	43	46	10-161	8	25		
Pentachlorophenol	ug/L	2.6 U	10.1	10.3	11.3	12.0	112	117	10-175	6	25		
Phenanthrene	ug/L	1.0 U	10.1	10.3	7.6	8.2	74	79	33-115	8	25		
Phenol	ug/L	1.0 U	10.1	10.3	1.7	1.8	15	16	10-45	6	25		
Pyrene	ug/L	1.0 U	10.1	10.3	8.8	11.0	87	107	40-121	22	25		
2,4,6-Tribromophenol (S)	%						79	93	33-129				
2-Fluorobiphenyl (S)	%						46	54	10-121				
2-Fluorophenol (S)	%						28	36	10-84				
Nitrobenzene-d5 (S)	%						42	53	10-120				
Phenol-d6 (S)	%						16	15	10-58				
Terphenyl-d14 (S)	%						82	112	43-119				

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 356160 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

SAMPLE DUPLICATE: 1730110

Parameter	Units	30317814001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.9	11.0	11	20	

SAMPLE DUPLICATE: 1730115

Parameter	Units	30317294002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.4	13.5	9	20	

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355398 Analysis Method: SM 4500CNE-2011
QC Batch Method: SM 4500CNC-2011 Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 30317705001, 30317705006

METHOD BLANK: 1726116 Matrix: Water
Associated Lab Samples: 30317705001, 30317705006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.010	0.0057	08/08/19 16:32	

METHOD BLANK: 1726118 Matrix: Water
Associated Lab Samples: 30317705001, 30317705006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.010	0.0057	08/08/19 16:36	

LABORATORY CONTROL SAMPLE: 1726117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.2	0.20	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1726119 1726120

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30316593001 Result	Spike Conc.	Spike Conc.	MS Result						
Cyanide	mg/L	0.0073J	0.1	0.1	0.098	0.10	90	95	90-110	5	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1726121 1726122

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		30317705001 Result	Spike Conc.	Spike Conc.	MS Result						
Cyanide	mg/L	ND	0.1	0.1	0.092	0.088	86	82	90-110	4	20 ML

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QUALITY CONTROL DATA

Project: GW & SB
Pace Project No.: 30317705

QC Batch: 355990 Analysis Method: EPA 9014 Total CN
QC Batch Method: EPA 9010C Analysis Description: 9014 Total Cyanide
Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

METHOD BLANK: 1729124 Matrix: Solid
Associated Lab Samples: 30317705002, 30317705003, 30317705004, 30317705005, 30317705007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/kg	ND	1.0	0.26	08/09/19 17:00	

LABORATORY CONTROL SAMPLE: 1729125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/kg	6	5.6	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1729126 1729127

Parameter	Units	30317705002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/kg	1.2	2.9	2.7	2.1	2.6	30	52	90-110	22	20	ML,R1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GW & SB
Pace Project No.: 30317705

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 355393

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 355394

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 356010

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

2c Emulsions were present during the extraction of this sample. Appropriate mechanical means were employed to break up the emulsions and were successful.

3c RF below method recommended limit.

4c The PDS recovery was outside of the laboratory control limits. Result may be biased high

5c The PDS recovery was outside of the laboratory control limits. Result may be biased high.

7c The analyte did not meet the method recommended minimum RF.

8c The precision between the sample and serial dilution exceeded laboratory control limits.

B Analyte was detected in the associated method blank.

C2 Relative percent difference between results from each column was greater than 40%. The lower of the two results was reported.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: GW & SB
Pace Project No.: 30317705

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
IS	The internal standard response is below criteria. Results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).
SR	Surrogate recovery was below laboratory control limits. Results may be biased low.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GW & SB
Pace Project No.: 30317705

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30317705002	SB-03	EPA 3546	355132	EPA 8081B	355329
30317705004	SB-01	EPA 3546	355132	EPA 8081B	355329
30317705005	SE-2	EPA 3546	355132	EPA 8081B	355329
30317705001	GW-07	EPA 3510C	355393	EPA 8081B	355567
30317705006	SW-2	EPA 3510C	355393	EPA 8081B	355567
30317705002	SB-03	EPA 3546	355139	EPA 8082A	355331
30317705003	SB-04	EPA 3546	355139	EPA 8082A	355331
30317705004	SB-01	EPA 3546	355139	EPA 8082A	355331
30317705005	SE-2	EPA 3546	355139	EPA 8082A	355331
30317705007	SE-3	EPA 3546	355139	EPA 8082A	355331
30317705001	GW-07	EPA 3510C	355394	EPA 8082A	355570
30317705006	SW-2	EPA 3510C	355394	EPA 8082A	355570
30317705002	SB-03	EPA 3050B	355262	EPA 6010C	355366
30317705003	SB-04	EPA 3050B	355262	EPA 6010C	355366
30317705004	SB-01	EPA 3050B	355262	EPA 6010C	355366
30317705005	SE-2	EPA 3050B	355262	EPA 6010C	355366
30317705007	SE-3	EPA 3050B	355262	EPA 6010C	355366
30317705001	GW-07	EPA 3005A	355125	EPA 6010C	355238
30317705006	SW-2	EPA 3005A	355125	EPA 6010C	355238
30317705001	GW-07	EPA 3005A	355170	EPA 6010C	355240
30317705006	SW-2	EPA 3005A	355170	EPA 6010C	355240
30317705001	GW-07	EPA 7470A	355234	EPA 7470A	355247
30317705006	SW-2	EPA 7470A	355234	EPA 7470A	355247
30317705001	GW-07	EPA 7470A	355198	EPA 7470A	355222
30317705006	SW-2	EPA 7470A	355198	EPA 7470A	355222
30317705002	SB-03	EPA 7471B	355287	EPA 7471B	355348
30317705003	SB-04	EPA 7471B	355287	EPA 7471B	355348
30317705004	SB-01	EPA 7471B	355287	EPA 7471B	355348
30317705005	SE-2	EPA 7471B	355287	EPA 7471B	355348
30317705007	SE-3	EPA 7471B	355287	EPA 7471B	355348
30317705002	SB-03	EPA 3546	355679	EPA 8270D	355862
30317705003	SB-04	EPA 3546	355679	EPA 8270D	355862
30317705004	SB-01	EPA 3546	355679	EPA 8270D	355862
30317705005	SE-2	EPA 3546	355679	EPA 8270D	355862
30317705007	SE-3	EPA 3546	355679	EPA 8270D	355862
30317705001	GW-07	EPA 3510C	355401	EPA 8270D	355647
30317705006	SW-2	EPA 3510C	355401	EPA 8270D	355647
30317705002	SB-03	EPA 5035A	356010	EPA 8260C	356020
30317705003	SB-04	EPA 5035A	356010	EPA 8260C	356020
30317705004	SB-01	EPA 5035A	356010	EPA 8260C	356020
30317705005	SE-2	EPA 5035A	356010	EPA 8260C	356020
30317705007	SE-3	EPA 5035A	356010	EPA 8260C	356020

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GW & SB
Pace Project No.: 30317705

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30317705001	GW-07	EPA 8260C	355494		
30317705006	SW-2	EPA 8260C	355494		
30317705008	Trip Blank	EPA 8260C	355494		
30317705002	SB-03	ASTM D2974-87	356160		
30317705003	SB-04	ASTM D2974-87	356160		
30317705004	SB-01	ASTM D2974-87	356160		
30317705005	SE-2	ASTM D2974-87	356160		
30317705007	SE-3	ASTM D2974-87	356160		
30317705001	GW-07	SM 4500CNC-2011	355398	SM 4500CNE-2011	355493
30317705006	SW-2	SM 4500CNC-2011	355398	SM 4500CNE-2011	355493
30317705002	SB-03	EPA 9010C	355990	EPA 9014 Total CN	356033
30317705003	SB-04	EPA 9010C	355990	EPA 9014 Total CN	356033
30317705004	SB-01	EPA 9010C	355990	EPA 9014 Total CN	356033
30317705005	SE-2	EPA 9010C	355990	EPA 9014 Total CN	356033
30317705007	SE-3	EPA 9010C	355990	EPA 9014 Total CN	356033

REPORT OF LABORATORY ANALYSIS

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WO#: 30317705



LAB USE OF
Container #

Chain-of-Custody Analytical Request Document
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **EnviroSpec Engineering**
Address: **303 Northern Blvd Albany, NY**
Report To: **Rachel Farnum**
Copy To: **Rachel Farnum**

Billing Information:
To: **Gough White**
Address: **PO Box 22222 Albany, NY**

Email To: **enviro@enviro-spec.com**
Site Collection Info/Address: **Water Street**

Customer Project Name/Number:
State: **NY** County/City: **Albany** Time Zone Collected: [] PT [] MT [] CT [] ET

Site/Facility ID #: _____
Purchase Order #: _____
Quote #: _____

Turnaround Date Required: **standard**

Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)

Sample Disposal: [] Dispose as appropriate [] Return [] Archive: _____ [] Hold: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
GW-01	GW		8/2/19	7:30 AM		
SR-03	SO		8/1/19	2:15 PM		
SB-04	SO		8/1/19	2:30 PM		
SB-01	SO		8/1/19	3:00 PM		
SE-2	SO		8/2/19	8:05 AM		
SW-2	WT		8/2/19	8:30 AM		
SE-3	SO		8/2/19	8:50 AM		

Analyses	PCBs 8082	PCBs 8081	SVOCs 8276	Total metals + mercury	Chloride	VBs by 8260
<input checked="" type="checkbox"/> Residuals 8081	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> SVOCs 8276	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Total metals + mercury	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Chloride	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> VBs by 8260	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Lab Profile/Line: _____
Lab Sample Receipt Checklist:
Custody Seals Present/Intact: N NA
Custody Signatures Present: N NA
Collector Signature Present: N NA
Bottles Intact: N NA
Correct Bottles: N NA
Sufficient Volume: N NA
Samples Received on Ice: N NA
VDA - Headspace Acceptable: N NA
USDA Regulated Soils: N NA
Samples in Holding Time: N NA
Residual Chlorine Present: N NA
Cl Strips: N NA
Sample pH Acceptable: N NA
pH Strips: N NA
Sulfide Present: N NA
Lead Acetate Strips: N NA
LAB USE ONLY: _____
Lab Sample # / Comments: **TUB 100**

Customer Remarks / Special Conditions / Possible Hazards:
Filter for dissolved metals

Type of Ice Used: Wet Blue Dry None

Packing Material Used: **soil box**

Radchem sample(s) screened (<500 cpm): Y N NA

Received by/Company: (Signature) **pace**
Date/Time: **8-2-19 16:00**

Received by/Company: (Signature) **FEO-EX**
Date/Time: **8-2-19 16:00**

Received by/Company: (Signature) **gracie-pace**
Date/Time: **8-2-19 16:00**

Customer Sample ID	Matrix	Comp / Grab	Collected (or Composite Start)	Date	Time	Res Cl	# of Ctns
GW-01	GW		8/2/19	7:30 AM			
SR-03	SO		8/1/19	2:15 PM			
SB-04	SO		8/1/19	2:30 PM			
SB-01	SO		8/1/19	3:00 PM			
SE-2	SO		8/2/19	8:05 AM			
SW-2	WT		8/2/19	8:30 AM			
SE-3	SO		8/2/19	8:50 AM			

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: **110**
Cooler 1 Temp Upon Receipt: **38.6**
Cooler 1 Therm Corr. Factor: **0.0**
Cooler 1 Corrected Temp: **38.6**
Comments: **OB 08/03/19**

Blank Received: MeOH TSP Other

Non Performance(s): YES / NO

Page: _____ of: _____



Sample Receiving Non-Conformance Form (NCF)

Date: 08/03/19 Evaluated by: DJB
 Client: Enviro spec Eng

A WO#: 30317705
 PM: SMB Due Date: 08/12/19
 CLIENT: ENVIROSPEC

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not received	Required signatures are missing

Comments/Details/Other Issues not listed above:

3. Sample integrity issues: check applicable issues below and add details where appropriate:

Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	Vials received with improper headspace
Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

Comments/Details:
 Both Trip Blanks

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client: Contacted per:
 PM Initials: Date/Time:

Client Comments/Instructions:

Appendix F

Test Pit Logs





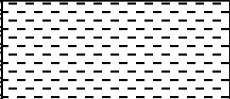
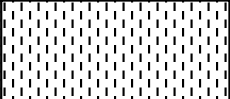

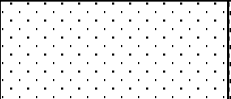
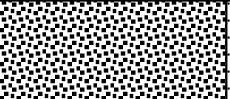


349 Northern Boulevard Suite 3 • Albany, NY 12204 • Phone: 518.453.2203 • Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

Test Pit No.: TP-12

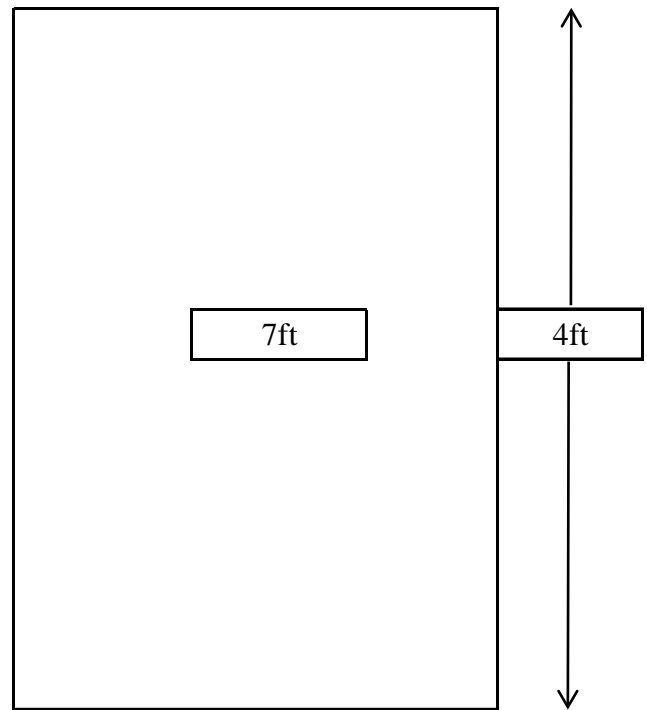
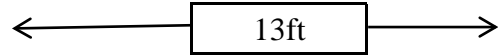
Sample ID:	Depth (ft. bgs)/ Water Depth	Graphic Log	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) (and = 30-50%; some = 20-30%; little = 10-20%; trace = 1-10%)	Initial PID Readings	Headspace PID Reading
	0		Rocks, Brown fill	NA	NA
	1		Rocks, Brown fill	NA	NA
	2		Rocks, Brown fill	NA	NA
	3		Rocks, Brown fill	NA	NA
	4		Rocks, Brown fill	NA	NA
	5		Rocks, Brown fill	NA	NA
	6		Rocks, Brown fill	NA	NA
TP-12, GW-1	7	▼	Groundwater Interface	NA	NA
	8			NA	NA
	9			NA	NA
	10			NA	NA
	11			NA	NA
	12			NA	NA
	13			NA	NA
	14			NA	NA
	15			NA	NA
	16			NA	NA
	17			NA	NA
	18			NA	NA
	19			NA	NA
	20			NA	NA

KEY:

								
Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Miscellaneous Notes:

Photos at 8:20am. Sheen observed on water



North
→

Depth to Water: 7ft (as determined from open excavation)

Soil Analytical testing completed:

TP-12 from 7' at 8:35 AM on 7/30/19 - SVOCs, VOCs, PCBs, Metals, Pesticides, Cyanide

Groundwater Analytical Testing completed:


GW-01 at 8:35 AM on 7/30/19 - PCBs, SVOCs, VOCs, Total & dissolved metals, Pesticides, and Cyanide

Contractor:

Equipment:

Test Pit Photos

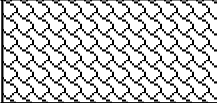

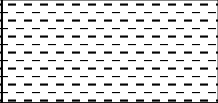
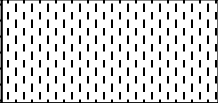

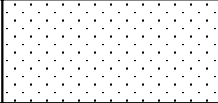
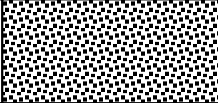
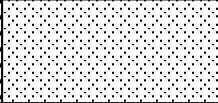



DATE:	Tuesday, July 30, 2019	LOCATION: Watervliet, NY	
LOGGED BY:	RF	TEST PIT LOG	
TEST PIT LOCATION:	TP-12		
 349 Northern Blvd, STE 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.453.2204		CLIENT: Couch White	PROJECT No.: E19-2219
		PROJECT MGR:	

Test Pit No.:

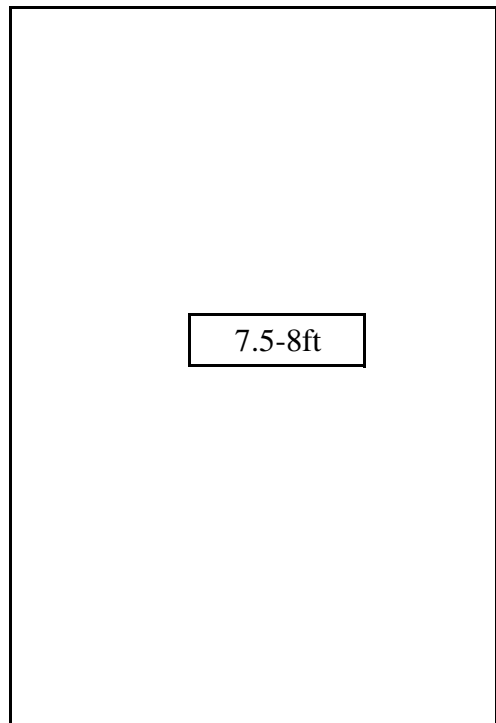
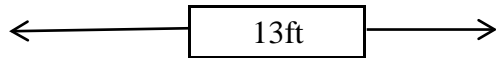
TP-13

Sample ID:	Depth (ft. bgs)/ Water Depth	Graphic Log	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) (and = 30-50%; some = 20-30%; little = 10-20%; trace = 1-10%)	Initial PID Readings	Headspace PID Reading
	0		Grey / Black topsoil	NA	NA
	1		Red sand and rocks	NA	NA
TP-13	2		Red sand and rocks	NA	NA
	3		Red sand and rocks	NA	NA
	4		Fill, Gravel and Rocks	NA	NA
	5		Fill, Gravel and Rocks	NA	NA
	6		Fill, Gravel and Rocks	NA	NA
	7		Fill, Gravel and Rocks	NA	NA
	8	▼	Groundwater Interface	NA	NA
	9			NA	NA
	10			NA	NA
	11			NA	NA
	12			NA	NA
	13			NA	NA
	14			NA	NA
	15			NA	NA
	16			NA	NA
	17			NA	NA
	18			NA	NA
	19			NA	NA
	20			NA	NA

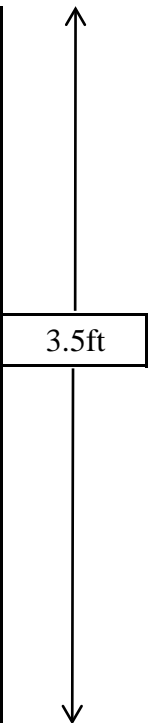
KEY:									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Miscellaneous Notes:

Photos at 9:02am



7.5-8ft



North
→

Depth to Water: 7.5ft (as determined from open excavation)

Soil Analytical testing completed:

TP-13 at 2' at 9:10 AM on 7/30/19 - PCBs, SVOCs, VOCs, Metals, Cyanide

Groundwater Analytical Testing completed:


None

Contractor:

Equipment:



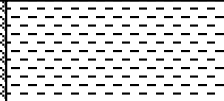
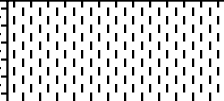
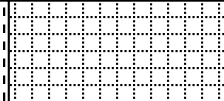
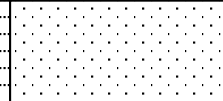
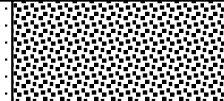
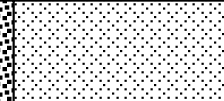

Test Pit Photos



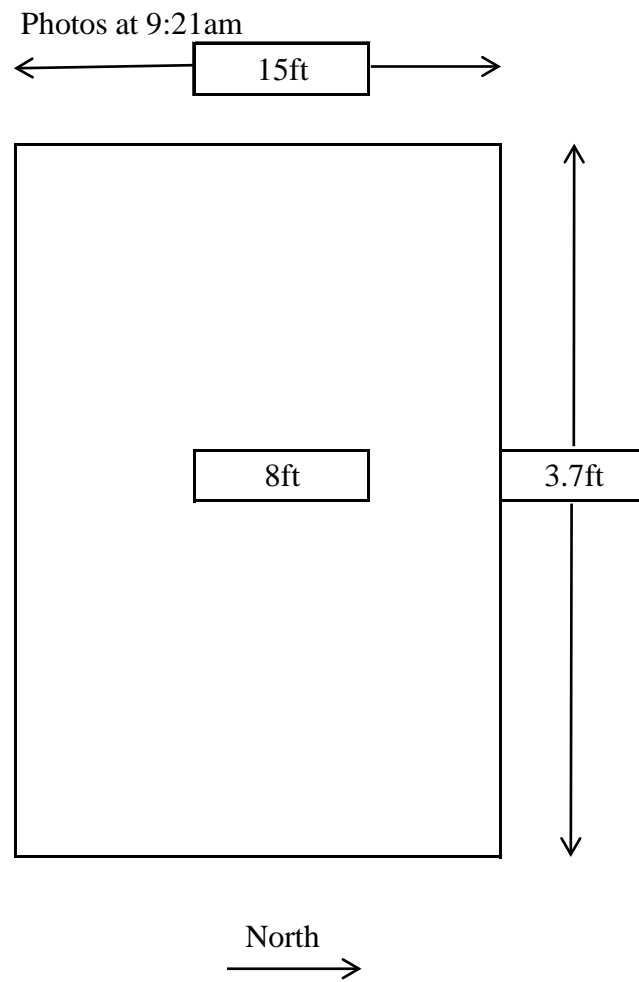
DATE:	Tuesday, July 30, 2019	LOCATION: Watervliet, NY	
LOGGED BY:	RF	TEST PIT LOG	
TEST PIT LOCATION:	TP-13		
		349 Northern Blvd, STE 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.453.2204	
		PROJECT MGR:	

Test Pit No.: TP-14

Sample ID:	Depth (ft. bgs)/ Water Depth	Graphic Log	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) (and = 30-50%; some = 20-30%; little = 10-20%; trace = 1-10%)	Initial PID Readings	Headspace PID Reading
	0		Grey Topsoil	NA	NA
	1		Brown fill and sand	NA	NA
	2		Brown fill and sand	NA	NA
	3		Brown fill and sand	NA	NA
TP-14	4		Brown fill and sand	NA	NA
	5		Rocks, gravel, brown sand	NA	NA
	6		Rocks, gravel, brown sand	NA	NA
	7		Rocks, gravel, brown sand	NA	NA
	8	▼	Groundwater Interface	NA	NA
	9			NA	NA
	10			NA	NA
	11			NA	NA
	12			NA	NA
	13			NA	NA
	14			NA	NA
	15			NA	NA
	16			NA	NA
	17			NA	NA
	18			NA	NA
	19			NA	NA
	20			NA	NA

KEY:									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Miscellaneous Notes:



Depth to Water: 8ft (as determined from open excavation)

Soil Analytical testing completed:

TP-14 at 4-6' at 9:25 AM on 7/30/19 - SVOCs, VOCs, PCBs, Metals, Pesticides, Cyanide

Groundwater Analytical Testing completed:


None

Contractor: _____

Equipment: _____

Test Pit Photos



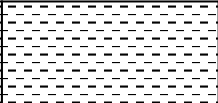
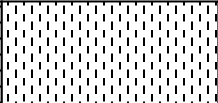
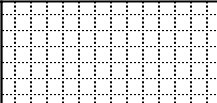
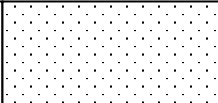
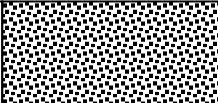

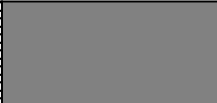


DATE:	Tuesday, July 30, 2019	LOCATION: Watervliet, NY	
LOGGED BY:	RF	TEST PIT LOG	
TEST PIT LOCATION:	TP-14		
		CLIENT: Couch White	PROJECT No.: E19-2219
			PROJECT MGR:
349 Northern Blvd, STE 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.453.2204			

Test Pit No.:

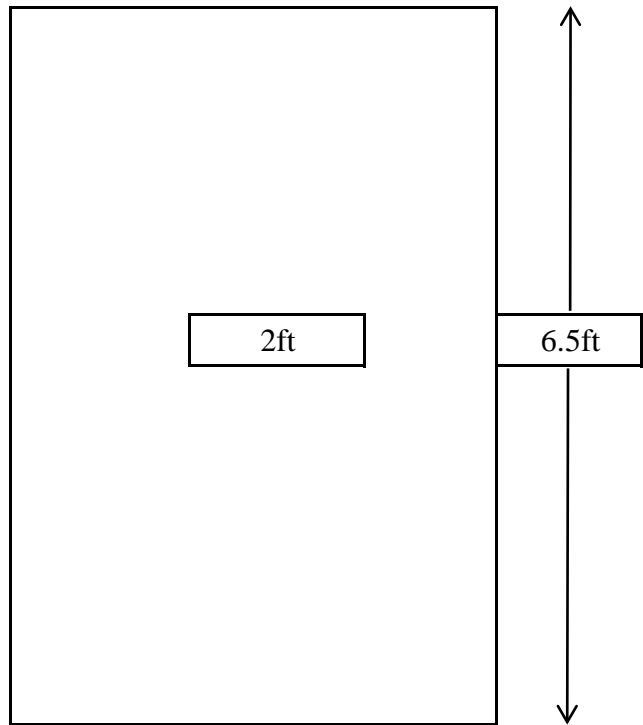
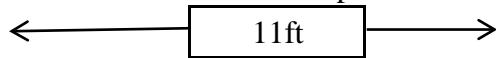
TP-15

Sample ID:	Depth (ft. bgs)/ Water Depth	Graphic Log	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) (and = 30-50%; some = 20-30%; little = 10-20%; trace = 1-10%)	Initial PID Readings	Headspace PID Reading
	0		Rock and Gravel	NA	NA
	1		Rock, Gravel, and Black fill	NA	NA
TP-15, GW-9	2	▼	Groundwater Interface	NA	NA
	3			NA	NA
	4			NA	NA
	5			NA	NA
	6			NA	NA
	7			NA	NA
	8			NA	NA
	9			NA	NA
	10			NA	NA
	11			NA	NA
	12			NA	NA
	13			NA	NA
	14			NA	NA
	15			NA	NA
	16			NA	NA
	17			NA	NA
	18			NA	NA
	19			NA	NA
	20			NA	NA

KEY:									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/ Gravel	Rock

Miscellaneous Notes:

Photos at 10:47am. Free product on water table



North
→

Depth to Water: 2ft (as determined from open excavation)

Soil Analytical testing completed:

TP-15 at 2' at 10:55 AM on 7/30/19- SVOCs, VOCs, PCBs, Metals, Cyanide

Groundwater Analytical Testing completed:


GW-09 at 10:55 AM on 7/30/19- SVOCs and VOCs

Contractor:

Equipment:

Test Pit Photos



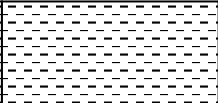
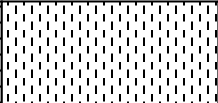
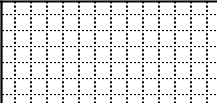
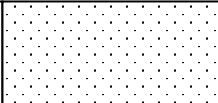
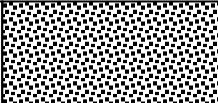

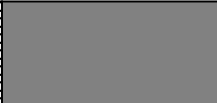


DATE:	Tuesday, July 30, 2019	LOCATION: Watervliet, NY	
LOGGED BY:	RF	TEST PIT LOG	
TEST PIT LOCATION:	TP-15		
		CLIENT: Couch White	PROJECT No.: E19-2219
		PROJECT MGR:	
349 Northern Blvd, STE 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.453.2204			

Test Pit No.:

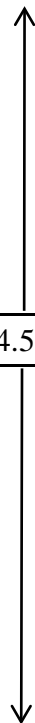
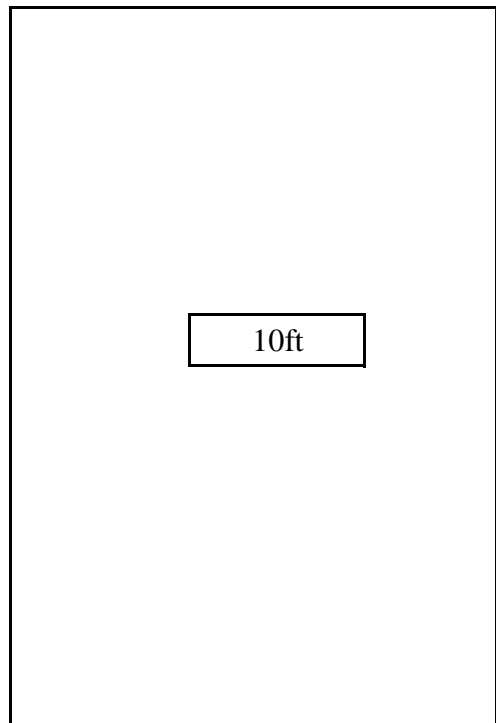
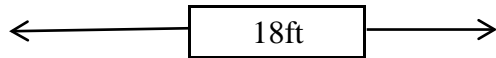
TP-16

Sample ID:	Depth (ft. bgs)/ Water Depth	Graphic Log	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) (and = 30-50%; some = 20-30%; little = 10-20%; trace = 1-10%)	Initial PID Readings	Headspace PID Reading
	0		Top soil and Brown sand	NA	NA
	1		Top soil and Brown sand	NA	NA
	2		Top soil and Brown sand	NA	NA
	3		Rocks, Gravel, Black Fill	NA	NA
	4		Rocks, Gravel, Black Fill	NA	NA
	5		Rocks, Gravel, Black Fill	NA	NA
	6		Rocks, Gravel, Black Fill	NA	NA
	7		Rocks, Gravel, Black Fill	NA	NA
	8		Rocks, Gravel, Black Fill	NA	NA
	9		Rocks, Gravel, Black Fill	NA	NA
TP-16	10	▼	Groundwater Interface	NA	NA
	11			NA	NA
	12			NA	NA
	13			NA	NA
	14			NA	NA
	15			NA	NA
	16			NA	NA
	17			NA	NA
	18			NA	NA
	19			NA	NA
	20			NA	NA

KEY:									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Miscellaneous Notes:

Photos at 11:44am



North
→

Depth to Water: 10ft (as determined from open excavation)

Soil Analytical testing completed:

TP-16 from 10' at 11:45 AM on 7/30/19 - SVOCs, VOCs, PCBs, Metals, Cyanide

Groundwater Analytical Testing completed:


None

Contractor:

Equipment:



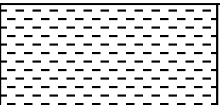
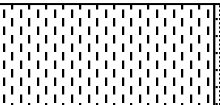
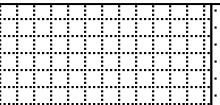
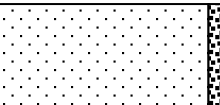
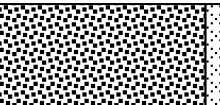


Test Pit Photos



DATE:	Tuesday, July 30, 2019	LOCATION: Watervliet, NY	
LOGGED BY:	RF	TEST PIT LOG	
TEST PIT LOCATION:	TP-16		
		349 Northern Blvd, STE 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.453.2204	
		PROJECT MGR:	

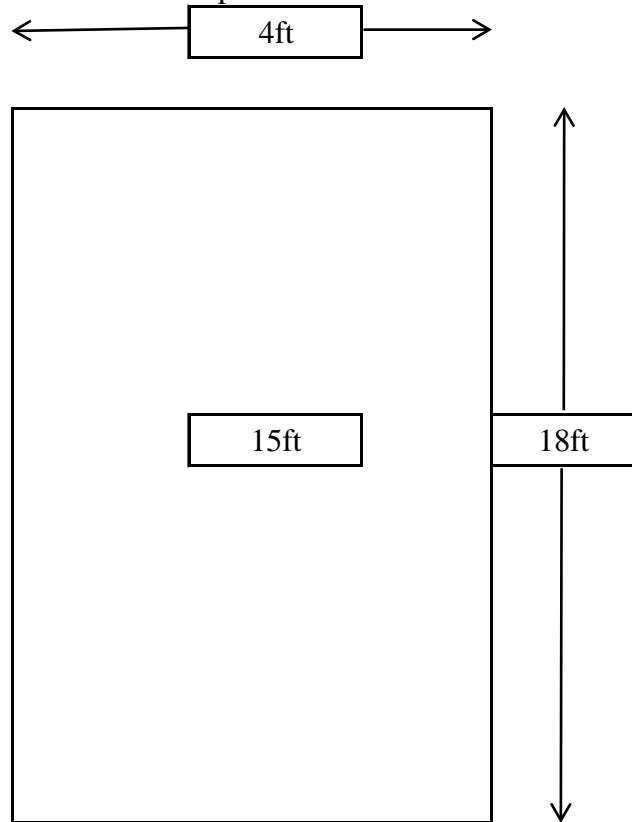
Test Pit No.: TP-17

Sample ID:	Depth (ft. bgs)/ Water Depth	Graphic Log	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) (and = 30-50%; some = 20-30%; little = 10-20%; trace = 1-10%)	Initial PID Readings	Headspace PID Reading
	0		Rocks, Brown Fill	NA	NA
	1		Rocks, Brown Fill	NA	NA
	2		Rocks, Brown Fill	NA	NA
	3		Rocks, Brown Fill	NA	NA
	4		Rocks, Brown Fill	NA	NA
	5		Rocks, Brown Fill	NA	NA
	6		Rocks, Brown Fill	NA	NA
	7		Brown Sand	NA	NA
	8		Brown Sand	NA	NA
	9		Brown Sand	NA	NA
	10		Brown Sand	NA	NA
	11		Clay	NA	NA
	12		Clay	NA	NA
	13		Clay	NA	NA
	14		Clay	NA	NA
TP-17	15		Clay	NA	NA
	16			NA	NA
	17			NA	NA
	18			NA	NA
	19			NA	NA
	20			NA	NA

KEY:									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/ Gravel	Rock

Miscellaneous Notes:

Photos at 12:42pm. No water encountered



Depth to Water: N/A (as determined from open excavation)

Soil Analytical testing completed:

TP-17 from 15' at 12:40 PM on 7/30/19 - SVOCs, VOCs, PCBs, Metals, Cyanide

Groundwater Analytical Testing completed:


None

Contractor: _____

Equipment: _____


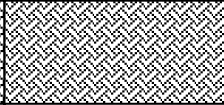
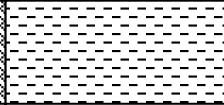
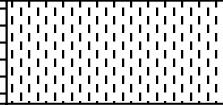

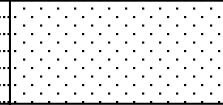
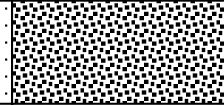
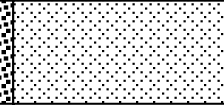

Test Pit Photos



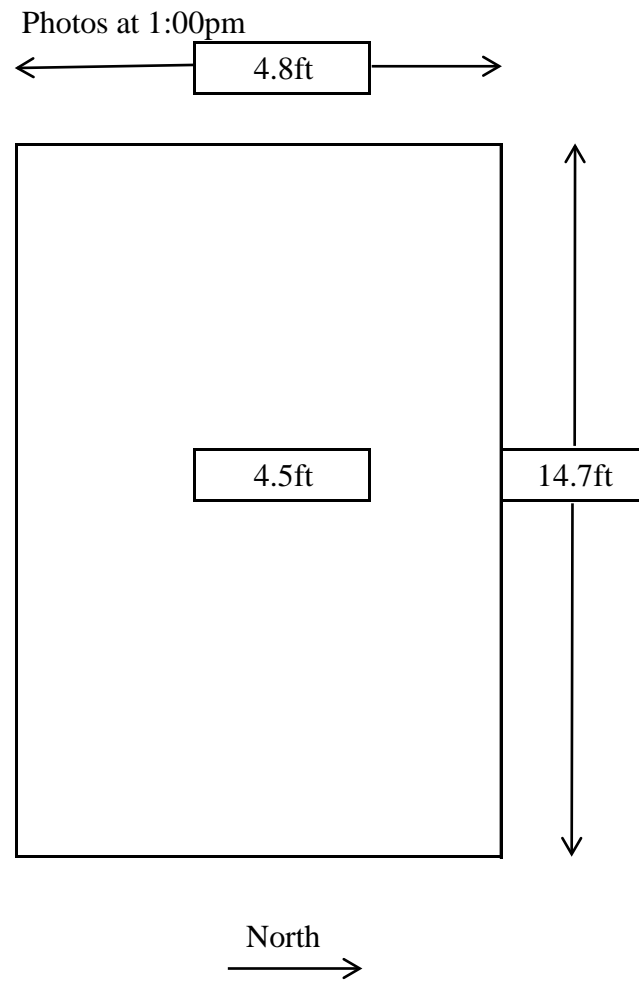
DATE:	Tuesday, July 30, 2019	LOCATION: Watervliet, NY	
LOGGED BY:	RF	TEST PIT LOG	
TEST PIT LOCATION:	TP-17		
		349 Northern Blvd, STE 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.453.2204	
		PROJECT MGR:	

Test Pit No.: TP-18

Sample ID:	Depth (ft. bgs)/ Water Depth	Graphic Log	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) (and = 30-50%; some = 20-30%; little = 10-20%; trace = 1-10%)	Initial PID Readings	Headspace PID Reading
	0		Top Soil and Black Fill	NA	NA
	1		Top Soil and Black Fill	NA	NA
TP-18	2		Brown Sand and Rocks	NA	NA
	3		Brown Sand and Rocks	NA	NA
	4		Brown Sand and Rocks	NA	NA
	5	▼	Groundwater Interface	NA	NA
	6			NA	NA
	7			NA	NA
	8			NA	NA
	9			NA	NA
	10			NA	NA
	11			NA	NA
	12			NA	NA
	13			NA	NA
	14			NA	NA
	15			NA	NA
	16			NA	NA
	17			NA	NA
	18			NA	NA
	19			NA	NA
	20			NA	NA

KEY:									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Miscellaneous Notes:



Depth to Water: 4.5ft (as determined from open excavation)

Soil Analytical testing completed:

TP-18 from 2' at 12:55 PM on 7/30/19 - SVOCs, VOCs, PCBs, Metals, Pesticides, Cyanide

Groundwater Analytical Testing completed:


None

Contractor: _____

Equipment: _____

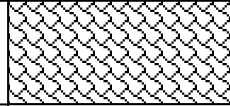
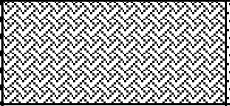
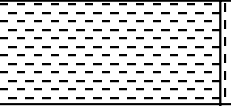
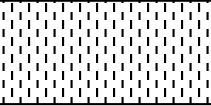
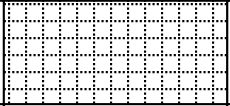
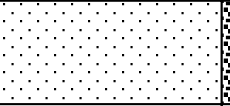
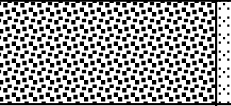
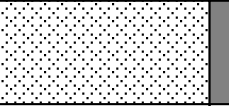

Test Pit Photos



DATE:	Tuesday, July 30, 2019	LOCATION: Watervliet, NY	
LOGGED BY:	RF	TEST PIT LOG	
TEST PIT LOCATION:	TP-18		
		349 Northern Blvd, STE 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.453.2204	
		PROJECT MGR:	

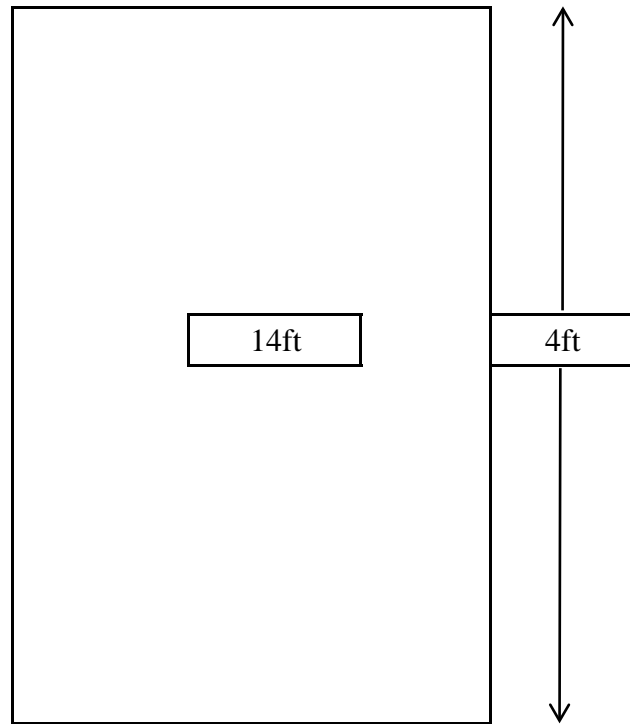
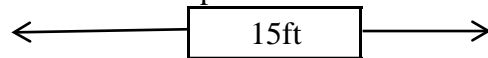
Test Pit No.: TP-19

Sample ID:	Depth (ft. bgs)/ Water Depth	Graphic Log	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) (and = 30-50%; some = 20-30%; little = 10-20%; trace = 1-10%)	Initial PID Readings	Headspace PID Reading
	0		Top Soil and Brown Fill	NA	NA
	1		Top Soil and Brown Fill	NA	NA
TP-19	2		Top Soil and Brown Fill	NA	NA
	3		Black fill, Garbage, Rocks	NA	NA
	4		Black fill, Garbage, Rocks	NA	NA
	5		Black fill, Garbage, Rocks	NA	NA
	6		Black fill, Garbage, Rocks	NA	NA
	7		Black fill, Garbage, Rocks	NA	NA
	8		Black fill, Garbage, Rocks	NA	NA
	9		Black fill, Garbage, Rocks	NA	NA
	10		Black fill, Garbage, Rocks	NA	NA
	11		Black fill, Garbage, Rocks	NA	NA
	12		Black fill, Garbage, Rocks and clay	NA	NA
	13		Black fill, Garbage, Rocks and clay	NA	NA
	14		Large Boulders and Garbage	NA	NA
	15			NA	NA
	16			NA	NA
	17			NA	NA
	18			NA	NA
	19			NA	NA
	20			NA	NA

KEY:									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/ Gravel	Rock

Miscellaneous Notes:

Photos at 2:15pm. Water not encountered. Hit large rocks and boulders



North
→

Depth to Water: NA (as determined from open excavation)

Soil Analytical testing completed:

TP-19 from 2' at 2:15 PM on 7/30/19 - SVOCs, VOCs, PCBs, Metals, Cyanide

Groundwater Analytical Testing completed:


None

Contractor: _____

Equipment: _____

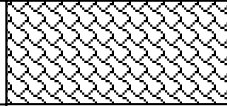
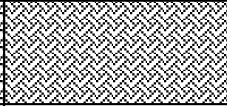
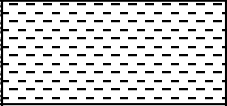
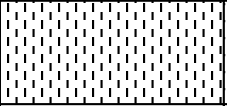

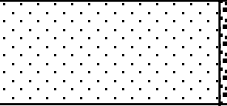
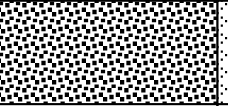
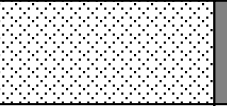

Test Pit Photos



DATE:	Tuesday, July 30, 2019	LOCATION: Watervliet, NY	
LOGGED BY:	RF	TEST PIT LOG	
TEST PIT LOCATION:	TP-19		
 349 Northern Blvd, STE 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.453.2204		CLIENT: Couch White	PROJECT No.: E19-2219
		PROJECT MGR:	

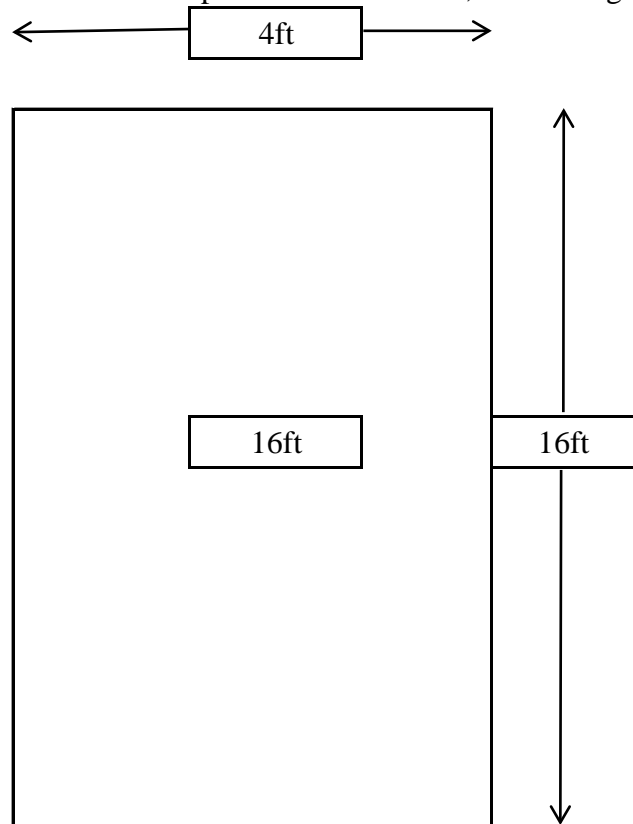
Test Pit No.: TP-20

Sample ID:	Depth (ft. bgs)/ Water Depth	Graphic Log	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) (and = 30-50%; some = 20-30%; little = 10-20%; trace = 1-10%)	Initial PID Readings	Headspace PID Reading
	0		Black Fill and Rocks	NA	NA
	1		Black Fill and Rocks	NA	NA
	2		Black Fill and Rocks	NA	NA
	3		Brown clay	NA	NA
	4		Brown and black sandy fill and rocks	NA	NA
	5		Brown and black sandy fill and rocks	NA	NA
	6		Brown and black sandy fill and rocks	NA	NA
	7		Brown and black sandy fill and rocks	NA	NA
	8		Brown and black sandy fill and rocks	NA	NA
	9		Brown and black sandy fill and rocks	NA	NA
	10		Brown and black sandy fill and rocks	NA	NA
	11		Brown and black sandy fill and rocks	NA	NA
	12		Brown and black sandy fill and rocks	NA	NA
	13		Brown and black sandy fill and rocks	NA	NA
	14		Brown and black sandy fill and rocks	NA	NA
	15		Brown and black sandy fill and rocks	NA	NA
TP-20	16		Brown and black sandy fill and rocks	NA	NA
	17			NA	NA
	18			NA	NA
	19			NA	NA
	20			NA	NA

KEY:									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/ Gravel	Rock

Miscellaneous Notes:

Photos at 1:29pm. Pit was unstable, unable to get close photos.



Depth to Water: 16 ft (as determined from open excavation)

Soil Analytical testing completed:

TP-20 from 16' at 1:30 PM on 7/30/19 - SVOCs, VOCs, PCBs, Metals, Pesticides, Cyanide

Groundwater Analytical Testing completed:


None

Contractor: _____

Equipment: _____



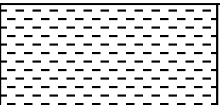
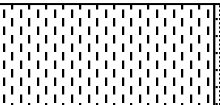
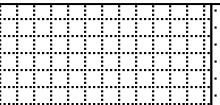
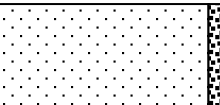
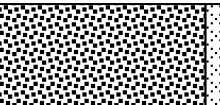


Test Pit Photos



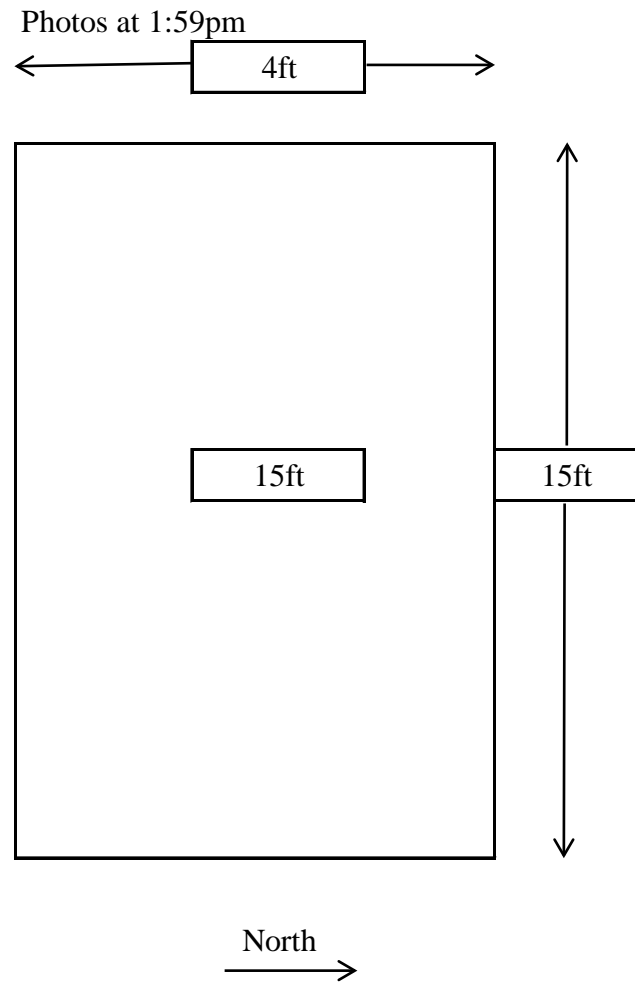
DATE:	Tuesday, July 30, 2019	LOCATION: Watervliet, NY	
LOGGED BY:	RF	TEST PIT LOG	
TEST PIT LOCATION:	TP-20		
		CLIENT: Couch White	PROJECT No.: E19-2219
			PROJECT MGR:
349 Northern Blvd, STE 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.453.2204			

Test Pit No.: TP-21

Sample ID:	Depth (ft. bgs)/ Water Depth	Graphic Log	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) (and = 30-50%; some = 20-30%; little = 10-20%; trace = 1-10%)	Initial PID Readings	Headspace PID Reading
	0		Rocks and brown fill	NA	NA
	1		Rocks and brown fill	NA	NA
	2		Rocks and brown fill	NA	NA
	3		Rocks and brown fill	NA	NA
TP-21	4		Rocks and brown fill	NA	NA
	5		Rocks and brown fill	NA	NA
	6		Rocks and brown fill	NA	NA
	7		Brown Clay	NA	NA
	8		Brown Clay	NA	NA
	9		Brown Clay	NA	NA
	10		Brown Clay	NA	NA
	11		Brown Clay	NA	NA
	12		Brown Clay	NA	NA
	13		Brown Clay	NA	NA
	14		Brown Clay	NA	NA
	15		Brown Clay	NA	NA
	16			NA	NA
	17			NA	NA
	18			NA	NA
	19			NA	NA
	20			NA	NA

KEY:									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/ Gravel	Rock

Miscellaneous Notes:



Depth to Water: N/A (as determined from open excavation)

Soil Analytical testing completed:
TP-21 from 4-6' at 1:55 PM on 7/30/19 - SVOCs, VOCs, PCBs, Metals, Cyanide


Groundwater Analytical Testing completed:
None

Contractor: _____

Equipment: _____


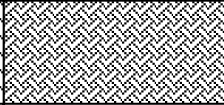
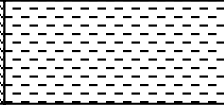
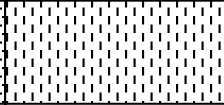

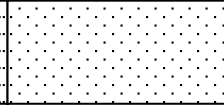
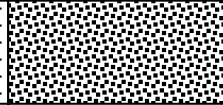
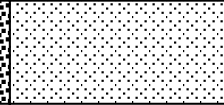

Test Pit Photos



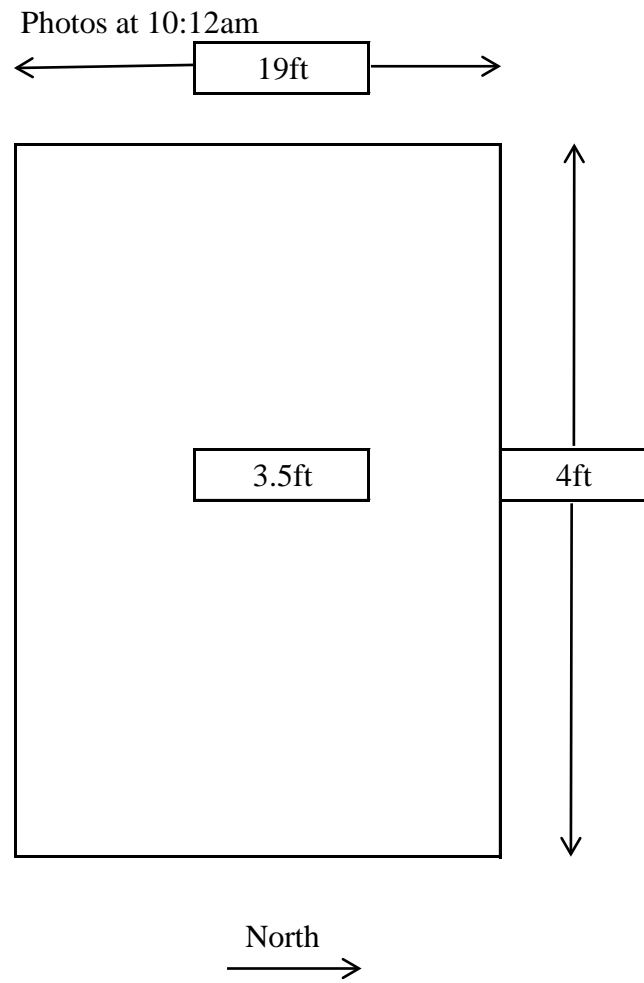
DATE:	Tuesday, July 30, 2019	LOCATION: Watervliet, NY	
LOGGED BY:	RF	TEST PIT LOG	
TEST PIT LOCATION:	TP-21		
		349 Northern Blvd, STE 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.453.2204	
		PROJECT MGR:	

Test Pit No.: TP-22

Sample ID:	Depth (ft. bgs)/ Water Depth	Graphic Log	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) (and = 30-50%; some = 20-30%; little = 10-20%; trace = 1-10%)	Initial PID Readings	Headspace PID Reading
	0		Rocks and black fill	NA	NA
	1		Rocks and black fill	NA	NA
TP-22	2		Rocks and black fill	NA	NA
	3		Rocks and black fill	NA	NA
GW-3	4	▼	Groundwater Interface	NA	NA
	5			NA	NA
	6			NA	NA
	7			NA	NA
	8			NA	NA
	9			NA	NA
	10			NA	NA
	11			NA	NA
	12			NA	NA
	13			NA	NA
	14			NA	NA
	15		"	NA	NA
	16			NA	NA
	17			NA	NA
	18			NA	NA
	19			NA	NA
	20			NA	NA

KEY:									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Miscellaneous Notes:



Depth to Water: 3.5ft (as determined from open excavation)

Soil Analytical testing completed:

TP-22 from 2' at 10:20 AM on 7/30/19 - SVOCs, VOCs, PCBs, Metals, Cyanide

Groundwater Analytical Testing completed:


GW-03 at 10:20 AM on 7/30/19 - PCBs, SVOCs, VOCs, Total & Dissolved Metals, Pesticides, Cyanide.

Contractor: _____

Equipment: _____



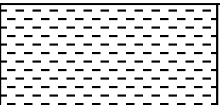
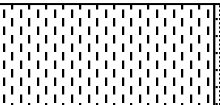
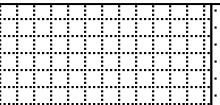
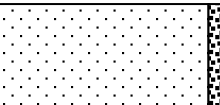
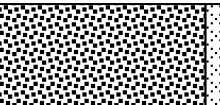


Test Pit Photos



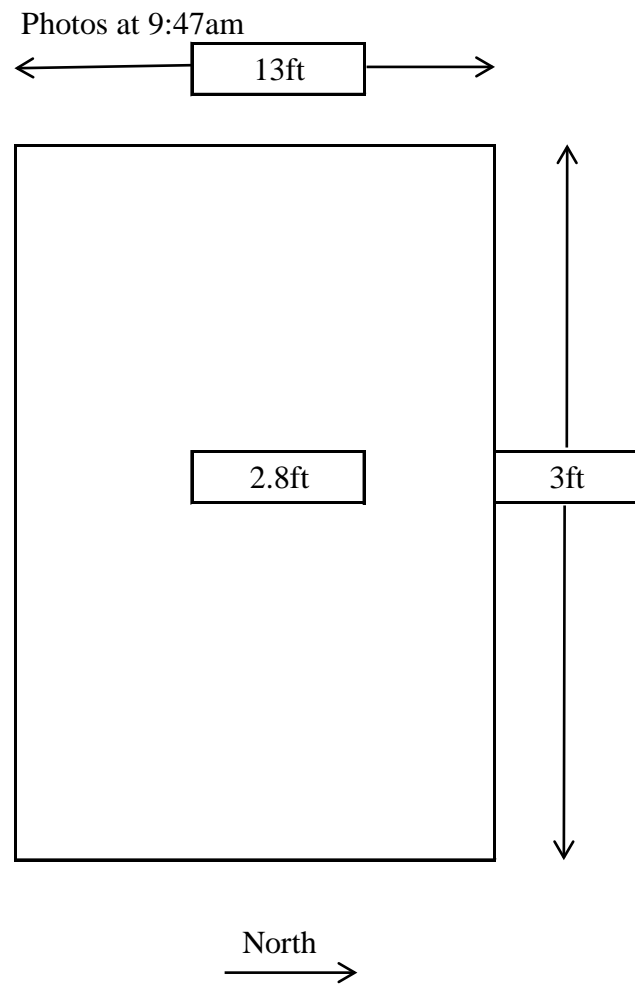
DATE:	Tuesday, July 30, 2019	LOCATION: Watervliet, NY	
LOGGED BY:	RF	TEST PIT LOG	
TEST PIT LOCATION:	TP-22		
		CLIENT: Couch White	
349 Northern Blvd, STE 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.453.2204		PROJECT MGR:	

Test Pit No.: TP-23

Sample ID:	Depth (ft. bgs)/ Water Depth	Graphic Log	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) (and = 30-50%; some = 20-30%; little = 10-20%; trace = 1-10%)	Initial PID Readings	Headspace PID Reading
	0		Top Soil	NA	NA
	1		Fill	NA	NA
	2		Clay	NA	NA
TP-23	3	▼	Groundwater Interface	NA	NA
	4			NA	NA
	5			NA	NA
	6			NA	NA
	7			NA	NA
	8			NA	NA
	9			NA	NA
	10			NA	NA
	11			NA	NA
	12			NA	NA
	13			NA	NA
	14			NA	NA
	15			NA	NA
	16			NA	NA
	17			NA	NA
	18			NA	NA
	19			NA	NA
	20			NA	NA

KEY:									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/ Gravel	Rock

Miscellaneous Notes:



Depth to Water: 2.8ft (as determined from open excavation)

Soil Analytical testing completed:

TP-23 from 3' at 9:50 AM on 7/30/19 - SVOCs, VOCs, PCBs, Metals, Cyanide

Groundwater Analytical Testing completed:


None

Contractor: _____

Equipment: _____

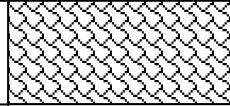
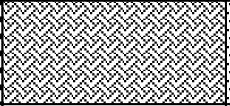
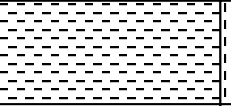
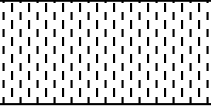
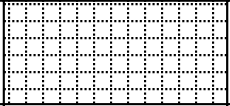
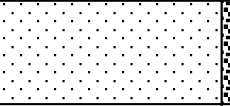
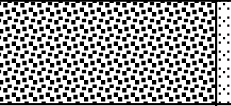
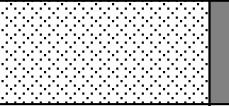

Test Pit Photos



DATE:	Tuesday, July 30, 2019	LOCATION: Watervliet, NY	
LOGGED BY:	RF	TEST PIT LOG	
TEST PIT LOCATION:	TP-23		
		CLIENT: Couch White	
349 Northern Blvd, STE 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.453.2204		PROJECT MGR:	

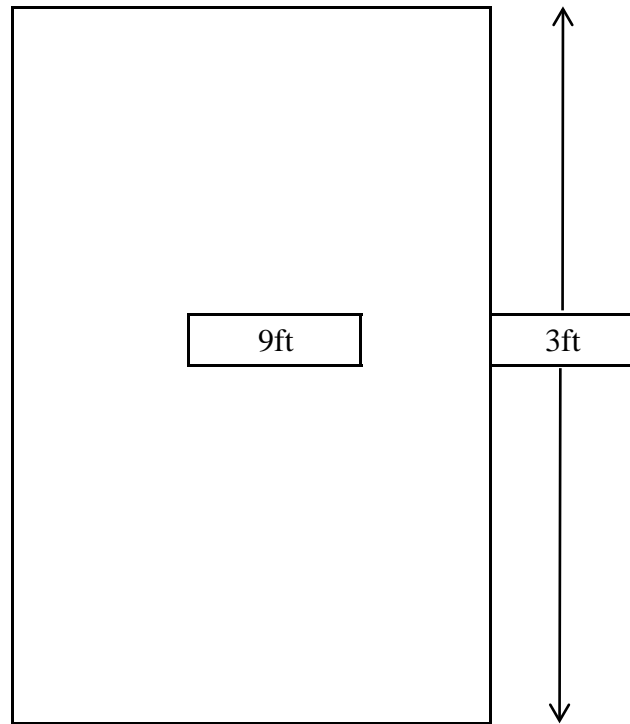
Test Pit No.: TP-24

Sample ID:	Depth (ft. bgs)/ Water Depth	Graphic Log	DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) (and = 30-50%; some = 20-30%; little = 10-20%; trace = 1-10%)	Initial PID Readings	Headspace PID Reading
	0		Brick and brown fill	NA	NA
	1		Brick and brown fill	NA	NA
	2		Brown sand and rocks, brick and wood	NA	NA
	3		Brown sand and rocks, brick and wood	NA	NA
TP-24	4		Brown sand and rocks, brick and wood	NA	NA
	5		Brown sand and rocks, brick and wood	NA	NA
	6		Brown sand and rocks, brick and wood	NA	NA
	7		Brown sand and rocks, brick and wood	NA	NA
	8		Brown sand and rocks, brick and wood	NA	NA
	9	▼	Groundwater Interface	NA	NA
	10			NA	NA
	11			NA	NA
	12			NA	NA
	13			NA	NA
	14			NA	NA
	15			NA	NA
	16			NA	NA
	17			NA	NA
	18			NA	NA
	19			NA	NA
	20			NA	NA

KEY:									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/ Gravel	Rock

Miscellaneous Notes:

Photos at 12:16pm
← 15ft →



Depth to Water: 9ft (as determined from open excavation)

Soil Analytical testing completed:

TP-24 from 4-6' at 12:20 PM on 7/30/19 - SVOCs, VOCs, PCBs, Metals, Cyanide

Groundwater Analytical Testing completed:


None

Contractor:

Equipment:

Test Pit Photos



DATE:	Tuesday, July 30, 2019	LOCATION: Watervliet, NY	
LOGGED BY:	RF	TEST PIT LOG	
TEST PIT LOCATION:	TP-24		
		CLIENT: Couch White	PROJECT No.: E19-2219
			PROJECT MGR:
349 Northern Blvd, STE 3 Albany, NY 12204 Phone: 518.453.2203 Fax: 518.453.2204			

Appendix G

Soil Boring Logs



349 Northern Boulevard Suite 3 • Albany, NY 12204 • Phone: 518.453.2203 • Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

Soil Boring: S-01

VEV									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Depth (ft)	Sample Interval (ft)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist	Recovery (in)
1	0 - 2"	0.1	Black fill	(0-5 ft)
2	2" - 2			36
3	2 - 4	0.1	Sand, gravel, clay	
4				
5	4 - 6	0	Sand, gravel, clay	(5-10 ft)
6				12
7	6 - 8			
8				
9	8 - 10			(10-15 ft)
10				
11	10 - 12			
12				
13	12 - 14			
14				
15	14 - 16			(15-20 ft)
16				
17	16 - 18			
18				
19	18 - 20			(20-25 ft)
20				
21	20 - 22			
22				
23	22 - 24			
24				
25	24 - 26			(25-30 ft)
26				
27	26 - 28			
28				
29	28 - 30			
30				

Notes:
 Performed By: Cascade Start Time: 2:55pm
 Groundwater Interface (▼):NA Refusal: 7ft

Water not encountered.

Composite Sample Notes:
 SB-01 sampled from 1-3ft at 3:00pm on 8/1/19; tested for PCBs, Pesticides, SVOCs, VOCs, Cyanide, and metals.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.1
2"-2	0.1
2-4	0.1
4-6	0.1
6-8	
8-10	
10-12	
12-14	
14-16	
16-18	
18-20	
20-22	
22-24	
24-26	
26-28	
28-30	

Grab/Composite Samples

Interval:	1-3 ft
Sample Time:	3:00pm
Sample ID:	SB-01
Interval:	
Sample Time:	
Sample ID:	
Interval:	
Sample Time:	
Sample ID:	

DATE: August 1, 2019	LOCATION: Lincoln Ave, Watervliet, NY	
LOGGED BY: RF	Soil Boring Log	
BORING LOCATION: SB-01		
	CLIENT: South Island Apartments, LLC	PROJECT #: E19-2219
	Envirospec Engineering, PLLC 349 Northern Blvd., Suite 3 Albany, NY 12204	PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-02

✓EV-									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Depth (ft)	Sample Interval (ft)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist	Recovery (in)
1	0 - 2"	0.1	4in of brown sand and gravel, 10in of black fill	(0-5 ft)
2	2" - 2			30
3	2 - 4	0	Brown sand and gravel	
4				
5	4 - 6	0	Sand	(5-10 ft)
6				48
7	6 - 8	0.1	Sand and clay	
8				
9	8 - 10	0.1	Sand and clay	(10-15 ft)
10				54
11	10 - 12	0	Sand and rocks	
12				
13	12 - 14	14.75	Sand and rocks	
14				
15	14 - 16			(15-20 ft)
16				
17	16 - 18			
18				
19	18 - 20			(20-25 ft)
20				
21	20 - 22			
22				
23	22 - 24			
24				
25	24 - 26			(25-30 ft)
26				
27	26 - 28			
28				
29	28 - 30			
30				

Notes:
 Performed By: Cascade Start Time: 1:30pm
 Groundwater Interface (▼): 10ft Refusal: 14.75ft

Water encountered at 10ft.

Composite Sample Notes:
 SB-02 sampled from 10-12ft at 1:50pm on 8/1/2019; sampled for PCBs, SVOCs, VOCs, Metals, Cyanide.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	01
2"-2	0.1
2-4	0.1
4-6	0.1
6-8	0.1
8-10	0.1
10-12	0.1
12-14	0.1
14-16	0.1
16-18	
18-20	
20-22	
22-24	
24-26	
26-28	
28-30	

Grab/Composite Samples

Interval:	10-12ft
Sample Time:	1:50pm
Sample ID:	SB-02
Interval:	
Sample Time:	
Sample ID:	
Interval:	
Sample Time:	
Sample ID:	

DATE: August 1, 2019	LOCATION: Lincoln Ave, Watervliet, NY	
LOGGED BY: RF	Soil Boring Log	
BORING LOCATION: SB-02		
EnviroSpec Engineering, PLLC 349 Northern Blvd., Suite 3 Albany, NY 12204	CLIENT: South Island Apartments, LLC	PROJECT #: E19-2219
		PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-03

VEV									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Depth (ft)	Sample Interval (ft)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist	Recovery (in)
1	0 - 2"	2.0	Rocks and fill	(0-5 ft)
2	2" - 2			30
3	2 - 4	2.0	Shale and rocks, oil observed.	
4				
5	4 - 6			(5-10 ft)
6				
7	6 - 8			
8				
9	8 - 10			(10-15 ft)
10				
11	10 - 12			
12				
13	12 - 14			
14				
15	14 - 16			(15-20 ft)
16				
17	16 - 18			
18				
19	18 - 20			(20-25 ft)
20				
21	20 - 22			
22				
23	22 - 24			
24				
25	24 - 26			(25-30 ft)
26				
27	26 - 28			
28				
29	28 - 30			
30				

Notes:
 Performed By: Cascade Start Time: 2:10 pm
 Groundwater Interface (▼): NA Refusal: 5ft

No water encountered.

Composite Sample Notes:
 SB-03 sampled at 2:15pm on 8/1/2019; tested for PCBs, Pesticides, SVOCs, VOCs, Metals, Cyanide.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	7.9
2"-2	7.9
2-4	7.9
4-6	
6-8	
8-10	
10-12	
12-14	
14-16	
16-18	
18-20	
20-22	
22-24	
24-26	
26-28	
28-30	

Grab/Composite Samples

Interval:	1-5ft
Sample Time:	2:15pm
Sample ID:	SB-03
Interval:	
Sample Time:	
Sample ID:	
Interval:	
Sample Time:	
Sample ID:	

DATE: August 1, 2019	LOCATION: Lincoln Ave, Watervliet, NY
LOGGED BY: RF	<h2>Soil Boring Log</h2>
BORING LOCATION: SB-03	
Envirospec Engineering, PLLC 349 Northern Blvd., Suite 3 Albany, NY 12204	CLIENT: South Island Apartments, LLC
	PROJECT #: E19-2219
	PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-04

✓EV									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Depth (ft)	Sample Interval (ft)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist	Recovery (in)
1	0 - 2"	0.1	Grey fill and rocks	(0-5 ft)
2	2" - 2			25
3	2 - 4			
4				
5	4 - 6			(5-10 ft)
6				
7	6 - 8			
8				
9	8 - 10			(10-15 ft)
10				
11	10 - 12			
12				
13	12 - 14			
14				
15	14 - 16			(15-20 ft)
16				
17	16 - 18			
18				
19	18 - 20			(20-25 ft)
20				
21	20 - 22			
22				
23	22 - 24			
24				
25	24 - 26			(25-30 ft)
26				
27	26 - 28			
28				
29	28 - 30			
30				

Notes:
 Performed By: Cascade Start Time: 2:25pm
 Groundwater Interface (▼): NA Refusal: 3ft

Water not encountered.

Composite Sample Notes:
 SB-04 sampled from 0-3 at 2:30pm on 8/1/19; tested for PCBs, VOCs, SVOCs, Metals, Cyanide.

Interval	PID H/S
0-2"	0
2"-2	0
2-4	0
4-6	
6-8	
8-10	
10-12	
12-14	
14-16	
16-18	
18-20	
20-22	
22-24	
24-26	
26-28	
28-30	

Interval:	0-3ft
Sample Time:	2:30pm
Sample ID:	SB-04
Interval:	
Sample Time:	
Sample ID:	
Interval:	
Sample Time:	
Sample ID:	

DATE: August 1, 2019	LOCATION: Lincoln Ave, Watervliet, NY	
LOGGED BY: RF	Soil Boring Log	
BORING LOCATION: SB:04		
EnviroSpec Engineering, PLLC 349 Northern Blvd., Suite 3 Albany, NY 12204	CLIENT: South Island Apartments, LLC	PROJECT #: E19-2219
		PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-05

✓EV-									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Depth (ft)	Sample Interval (ft)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist	Recovery (in)
1	0 - 2"	0.2	Black topsoil	(0-5 ft)
2	2" - 2			18
3	2 - 4	0.8	Brown sand	
4				
5	4 - 6	0.8	Brown sand	(5-10 ft)
6				48
7	6 - 8	0.1	Brown Clay	
8				
9	8 - 10	0.1	Grey clay	(10-15 ft)
10				60
11	10 - 12	0	Grey clay	
12				
13	12 - 14	0	Grey clay and sand	
14				
15	14 - 16	0	Grey clay	(15-20 ft)
16				60
17	16 - 18	0	Grey clay	
18				
19	18 - 20	0	Grey clay	(20-25 ft)
20				30
21	20 - 22	0	Grey clay	
22				
23	22 - 24	0	Grey clay	
24				
25	24 - 26	0	Grey clay	(25-30 ft)
26				60
27	26 - 28	0	Grey clay	
28				
29	28 - 30	0	Grey clay	
30				

Notes:

Performed By: Cascade Start Time: 11:10 am
 Groundwater Interface (▼): NA Refusal: NA

Water not encountered.

Composite Sample Notes:

SB-05 taken at 11:20am from 6'-8' on 8/1/19; Tested for SVOCs, VOCs, PCBs, Metals, Pesticides, and Cyanide.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.1
2"-2	0.1
2-4	0.1
4-6	0.1
6-8	0.1
8-10	0.1
10-12	0.1
12-14	0.1
14-16	0.1
16-18	0.2
18-20	0.2
20-22	0.2
22-24	0
24-26	0
26-28	0.1
28-30	0.1

Grab/Composite Samples

Interval:	
Sample Time:	11:20 am
Sample ID:	SB-06
Interval:	
Sample Time:	
Sample ID:	
Interval:	
Sample Time:	
Sample ID:	

DATE: August 1, 2019

LOCATION: Lincoln Ave, Watervliet, NY

LOGGED BY: RF

Soil Boring Log

BORING LOCATION:



Envirospec Engineering, PLLC
 349 Northern Blvd., Suite 3
 Albany, NY 12204

CLIENT: South Island
 Apartments, LLC

PROJECT #: E19-2219

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-06

VEV									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Depth (ft)	Sample Interval (ft)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist	Recovery (in)
1	0 - 2"	0.2	Brown sand and gravel	(0-5 ft)
2	2" - 2			24
3	2 - 4	0.2	Brown sand and gravel	
4				
5	4 - 6	0.2	Brown sand and gravel	(5-10 ft)
6				60
7	6 - 8	0	Hard grey clay	
8				
9	8 - 10	0	Hard grey clay	(10-15 ft)
10				36
11	10 - 12	0	Hard grey and brown clay	
12				
13	12 - 14	0	Hard grey and brown clay	
14				
15	14 - 16	0	Sand and clay	(15-20 ft)
16				30
17	16 - 18	0	Sand and clay	
18				
19	18 - 20	0	Clay	(20-25 ft)
20				60
21	20 - 22	0	Clay	
22				
23	22 - 24	0	Clay	
24				
25	24 - 26	0	Clay	(25-30 ft)
26				60
27	26 - 28	0	Clay	
28				
29	28 - 30	0	Clay	
30				

Notes:
 Performed By: Cascade Start Time: 9:50
 Groundwater Interface (▼): NA Refusal: NA

No water encountered.

Composite Sample Notes:
 SB-06 sampled at 10:30 on 8/1/19 from 27-28 ft; tested for VOCs, SVOCs, PCBs, Metals, Pesticides, and Cyanide.

Interval	PID H/S
0-2"	0
2"-2	0
2-4	0
4-6	0
6-8	0
8-10	0
10-12	0
12-14	0
14-16	0
16-18	0
18-20	0
20-22	0
22-24	0
24-26	0
26-28	0
28-30	0

Interval:	25-30 ft
Sample Time:	10:30 am
Sample ID:	SB-06
Interval:	
Sample Time:	
Sample ID:	
Interval:	
Sample Time:	
Sample ID:	

DATE: August 1, 2019	LOCATION: Lincoln Ave, Watervliet, NY	
LOGGED BY: RF	Soil Boring Log	
BORING LOCATION: SB-06		
EnviroSpec Engineering, PLLC 349 Northern Blvd., Suite 3 Albany, NY 12204	CLIENT: South Island Apartments, LLC	PROJECT #: E19-2219
		PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-07

VEV									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Depth (ft)	Sample Interval (ft)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist	Recovery (in)
1	0 - 2"	0.3	Topsoil	(0-5 ft)
2	2" - 2			24
3	2 - 4	0.3	6 in of backfill, Sand and rocks	
4				
5	4 - 6	0	Brown sand and gravel	(5-10 ft)
6				48
7	6 - 8	0	Brown sand and gravel	
8				
9	8 - 10	0	Brown sand and gravel	(10-15 ft)
10				
11	10 - 12			
12				
13	12 - 14			
14				
15	14 - 16			(15-20 ft)
16				
17	16 - 18			
18				
19	18 - 20			(20-25 ft)
20				
21	20 - 22			
22				
23	22 - 24			
24				
25	24 - 26			(25-30 ft)
26				
27	26 - 28			
28				
29	28 - 30			
30				

Notes:

Performed By: Cascade Start Time: 1:00 pm
 Groundwater Interface (▼): NA Refusal: 9ft

Water not encountered.

Composite Sample Notes:

SB-07 taken from 1-3' at 1:10pm on 8/1/19; tested for PCBs, SVOCs, VOCs, Metals, and Cyanide.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	0.4
2"-2	0.4
2-4	0.4
4-6	0.7
6-8	0.7
8-10	0.7
10-12	
12-14	
14-16	
16-18	
18-20	
20-22	
22-24	
24-26	
26-28	
28-30	

Grab/Composite Samples

Interval:	1-3ft
Sample Time:	1:10pm
Sample ID:	SB-07
Interval:	
Sample Time:	
Sample ID:	
Interval:	
Sample Time:	
Sample ID:	

DATE: August 1, 2019

LOCATION: Lincoln Ave, Watervliet, NY

LOGGED BY: RF

Soil Boring Log

BORING LOCATION: SB-07



Envirospec Engineering, PLLC
 349 Northern Blvd., Suite 3
 Albany, NY 12204

CLIENT: South Island
 Apartments, LLC

PROJECT #: E19-2219

PROJECT MANAGER: Gianna Aiezza

Soil Boring: SB-08

✓EV-									
	Fill	Soil	Silt	Clay	Silt/Clay	Sand	Gravel	Sand/Gravel	Rock

Depth (ft)	Sample Interval (ft)	PID Screen (ppm)	Description Include color, texture, structure, odor, etc.; Trace 0-10%, Little 10-20%, Some 20-35%, And 35-50%; D = dry, S = saturated, M = moist	Recovery (in)
1	0 - 2"	.2	Topsoil	(0-5 ft)
2	2" - 2			48
3	2 - 4	0	Topsoil, Brown sand	
4				
5	4 - 6	1.3	Topsoil, Brown sand, and gravel	(5-10 ft)
6				42
7	6 - 8	0	Sand and gravel	
8				
9	8 - 10	0	sand, and gravel	
10				
11	10 - 12	1.7	sand, and gravel	(10-15 ft)
12				30
13	12 - 14	2.3	sand, and gravel	
14				
15	14 - 16	2.3	sand, and gravel	(15-20 ft)
16				24
17	16 - 18	30	Rocks and sand, slight sheen on water	
18				
19	18 - 20	30	Rocks and sand, slight sheen on water	(20-25 ft)
20				48
21	20 - 22	1.2	Sand, Clay, and rocks	
22				
23	22 - 24	end		
24				
25	24 - 26			
26				
27	26 - 28			
28				
29	28 - 30			
30				

Notes:

Performed By: Cascade Start Time: 7:30 am
 Groundwater Interface (▼): 17 ft Refusal: 24.5 ft
 GW-07 at 7:30 am on 8/2/2019, tested VOCs and SVOCs

Composite Sample Notes:

8/1/19 at 7:35 am from 4-5 ft.
 VOCs, SVOCs, PCBs, Metals, Cyanide.

PID Headspace (H/S) Readings

Interval	PID H/S
0-2"	2.7
2"-2	2.7
2-4	2.7
4-6	2.4
6-8	2.4
8-10	2.4
10-12	16
12-14	16
14-16	16
16-18	21.6
18-20	21.6
20-22	21.6
22-24	2.4
24-26	2.4
26-28	NA
28-30	NA

Grab/Composite Samples

Interval:	4-5ft
Sample Time:	7:35 am
Sample ID:	SB-08
Interval:	
Sample Time:	
Sample ID:	
Interval:	
Sample Time:	
Sample ID:	

DATE: August 1, 2019	LOCATION: Lincoln Ave, Watervliet, NY
LOGGED BY: RF	Soil Boring Log
BORING LOCATION: SB-08	
Envirospec Engineering, PLLC 349 Northern Blvd., Suite 3 Albany, NY 12204	CLIENT: South Island Apartments, LLC
	PROJECT #: E19-2219
	PROJECT MANAGER: Gianna Aiezza

Appendix H

Soil Boring Photo Log



349 Northern Boulevard Suite 3 • Albany, NY 12204 • Phone: 518.453.2203 • Fax: 518.453.2204

A Woman Owned Business Enterprise (WBE)

Date: 8/1/2019

Time: 3:00 PM

Comments:

SB-01 0 to 5 ft



Date: 8/1/19

Time: 3:00pm

Comments:

SB-01
0-5ft



Date: 8/1/19

Time: 3:03pm

Comments:

SB-01
5-10ft



Date: 8/1/19

Time: 1:38pm

Comments:

SB-02
0-5ft



Date: 8/1/19

Time: 1:38pm

Comments:

SB-02
0-5ft



Date: 8/1/19

Time: 1:38pm

Comments:

SB-02
0-5ft



Date: 8/1/19

Time: 1:40pm

Comments:

SB-02
5-10ft



Date: 8/1/19

Time: 1:40pm

Comments:

SB-02
5-10ft



Date: 8/1/19

Time: 1:40pm

Comments:

SB-02
5-10ft



Date: 8/1/19

Time: 1:40pm

Comments:

SB-02
5-10 ft



Date: 8/1/19

Time: 1:47pm

Comments:

SB-02
10-15ft



Date: 8/1/19

Time: 1:47pm

Comments:

SB-02
10-15 ft



Date: 8/1/19

Time: 1:47pm

Comments:

SB-02
10-15ft



Date: 8/1/19

Time: 1:47pm

Comments:

SB-02
10-15 ft



Date: 8/1/19

Time: 2:16pm

Comments:

SB-03
0-5ft



Date: 8/1/19

Time: 2:16pm

Comments:

SB-03
0-5ft



Date: 8/1/19

Time: 2:16pm

Comments:

SB-03
0-5ft



Date: 8/1/19

Time: 2:31pm

Comments:

SB-04
0-3ft



Date: 8/1/19

Time: 11:14am

Comments:

SB-05
0-5ft



Date: 8/1/19

Time: 11:14am

Comments:

SB-05
0-5ft



Date: 8/1/19

Time: 11:19am

Comments:

SB-05
5-10ft



Date: 8/1/19

Time: 11:19am

Comments:

SB-05
5-10ft



Date: 8/1/19

Time:11:19am

Comments:

SB-05
5-10ft



Date: 8/1/19

Time: 11:29am

Comments:

SB-05
10-15ft



Date: 8/1/19

Time: 11:29am

Comments:

SB-05
10-15ft (bottom)
and
15-20ft (top)



Date: 8/1/19

Time: 11:29am

Comments:

SB-05
10-15ft (bottom)
and
15-20ft (top)



Date: 8/1/19

Time: 11:35am

Comments:

SB-05
20-25ft



Date: 8/1/19

Time: 11:35am

Comments:

SB-05
20-25ft



Date: 8/1/19

Time: 11:35am

Comments:

SB-05
20-25ft



Date: 8/1/19

Time: 11:43am

Comments:

SB-05
20-25ft



Date: 8/1/19

Time: 11:43am

Comments:

SB-05
25-30ft



Date: 8/1/19

Time: 11:43am

Comments:

SB-05
25-30ft



Date: 8/1/19

Time: 11:43am

Comments:

SB-05
25-30ft



Date: 8/1/19

Time: 9:55am

Comments:

SB-06
0-5ft



Date: 8/1/19

Time: 9:55am

Comments:

SB-06
0-5ft



Date: 8/1/19

Time: 9:56am

Comments:

SB-06
5-10ft



Date: 8/1/19

Time: 9:56am

Comments:

SB-06
5-10ft



Date: 8/1/19

Time: 9:56am

Comments:

SB-06
5-10ft



Date: 8/1/19

Time: 9:56am

Comments:

SB-06
5-10ft



Date: 8/1/19

Time: 10:03am

Comments:

SB-06
10-15ft



Date: 8/1/19

Time: 10:03am

Comments:

SB-06
10-15ft (top)
5-10ft (bottom)



Date: 8/1/19

Time: 10:12am

Comments:

SB-06
15-20ft



Date: 8/1/19

Time: 10:12am

Comments:

SB-06
15-20ft



Date: 8/1/19

Time: 10:18am

Comments:

SB-06
20-25ft



Date: 8/1/19

Time: 10:18am

Comments:

SB-06
20-25ft



Date: 8/1/19

Time: 10:31am

Comments:

SB-06
25-30ft



Date: 8/1/19

Time: 10:31am

Comments:

SB-06
25-30ft



Date: 8/1/19

Time: 1:07pm

Comments:

SB-07
0-5ft



Date: 8/1/19

Time: 1:07pm

Comments:

SB-07
0-5ft



Date: 8/1/19

Time: 1:13pm

Comments:

SB-07
5-9ft



Date: 8/1/19

Time: 1:13pm

Comments:

SB-07
5-9ft



Date: 8/1/19

Time: 1:13pm

Comments:

SB-07
5-10ft



Date: 8/1/19

Time: 7:36am

Comments:

SB-08
0-5ft



Date: 8/1/19

Time: 7:36am

Comments:

SB-08
0-5ft



Date: 8/1/19

Time: 7:42am

Comments:

SB-08
5-10ft



Date: 8/1/19

Time: 7:42am

Comments:

SB-08
5-10ft



Date: 8/1/19

Time: 7:42am

Comments:

SB-08
5-10ft

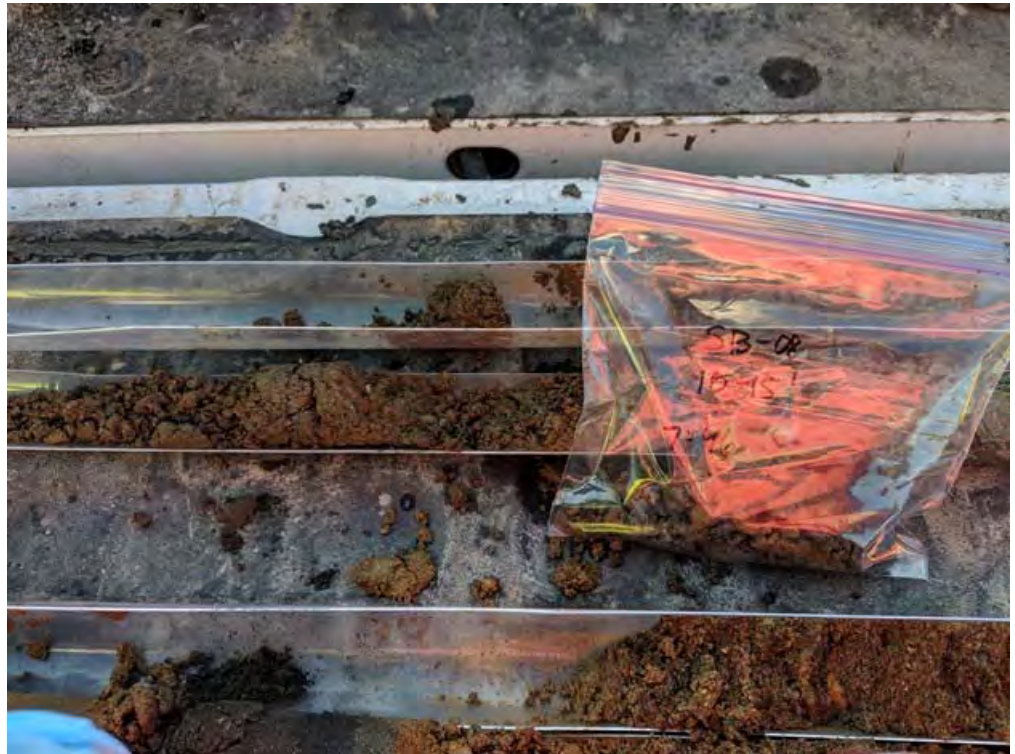


Date: 8/1/19

Time: 7:47am

Comments:

SB-08
10-15ft



Date: 8/1/19

Time: 7:47am

Comments:

SB-08
10-15ft

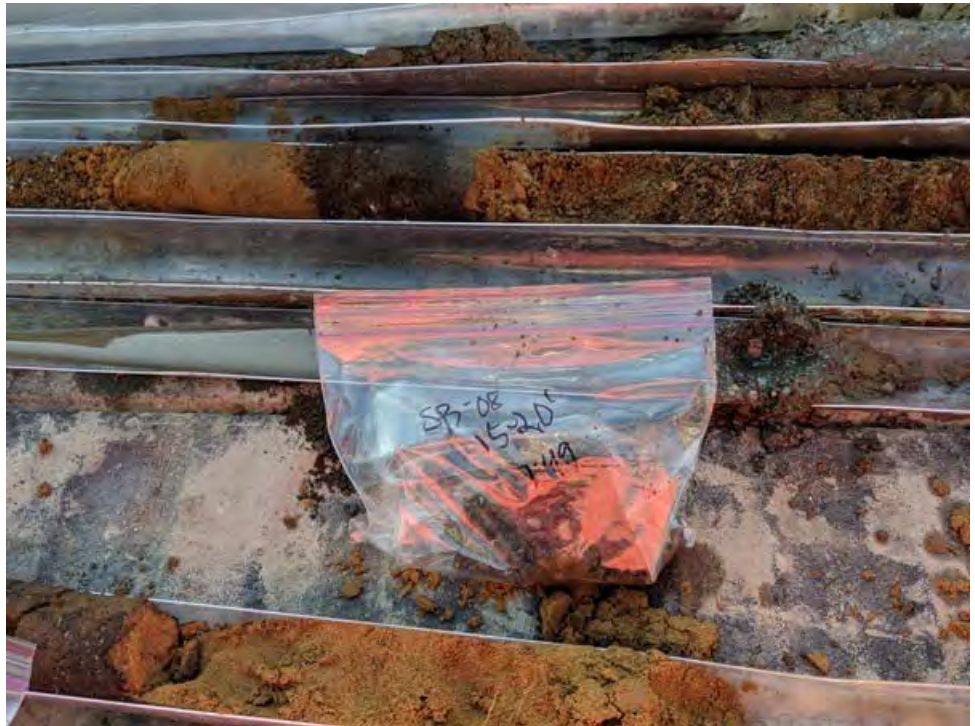


Date: 8/1/19

Time: 7:49am

Comments:

SB-08
15-20ft



Date: 8/1/19

Time: 7:49am

Comments:

SB-08
15-20ft (bottom)



Date: 8/1/19

Time: 8:09am

Comments:

SB-08
20-25ft



Date: 8/1/19

Time: 8:09am

Comments:

SB-08
20-25ft

